# 1999 Research Report

1/1/1999 Southern Minnesota Beet Sugar Company SMBSC

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- · Seed Systems

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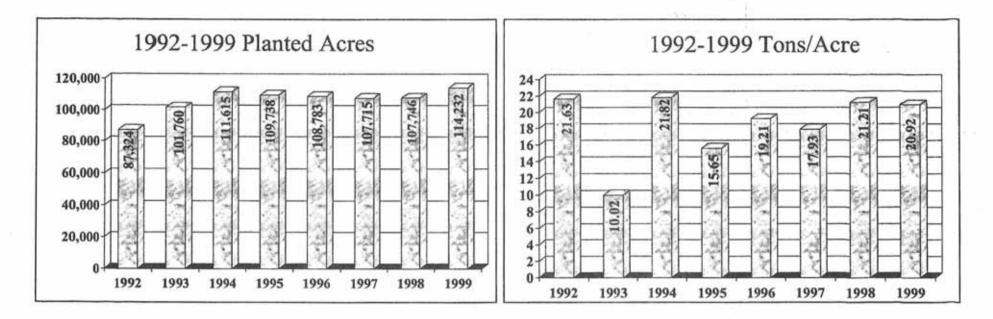
#### TABLE 1

#### COMPARISON OF PLANTING DATES AND FINAL YIELDS SMSC

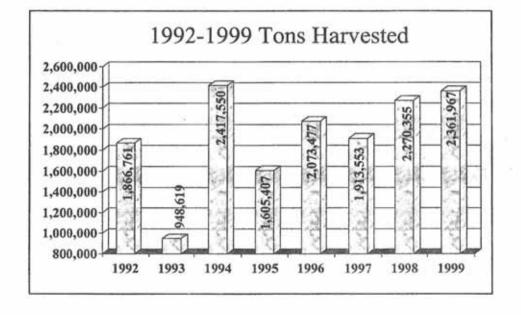
	TOTAL	%		PERCE	NT PLAN	TED BY			%	+
YEAR	ACRES	REPLANTS	04/25	05/02	05/09	05/16	05/23	TONS/AC	SUGAR	COMMENTS
1984	57,240	11.4	15	23	25	63	94	17.54	15.49	VERY WET SEPT OCT.
1985	59,703	11.9	10	40	85	95	98	21.73	16.20	EXCELLENT START
1986	66,635	6.2	1	1	9	24	62	15.09	16.22	VERY WET SPRING; DELAYED PLANTING
1987	66,860	2.2	76	99	100		100	22.53	16.98	CROP PLANTED 3 WEEKS EARLIER THAN NORMAL
1988	70,646	59.5	97	100			100	0.0746360		60% REPLANT DUE TO HIGH WINDS
1989	74,943	14.7	19	45			100			19 DEGREES ON OCT. 1 STOPPED SUGAR ACCUM.
1990	80,783	50.1	85	90	75	90	99	17.91	15.60	50% REPLANTS DUE TO MAY 1 FROST; WIND
1991	82,284	9.2	25	58	61	96	99	16.36	15.42	150% OF NORMAL PPT
1992	87,324	1.1	17	65	99	100	100	21.60	17.59	CROP PLANTED 10 DAYS EARLIER THAN NORMAL
1993	101,780	8.7	4	31	47	85	99	10.00	17.00	200% OF NORMAL PPT PLANTING DELAYED 2-3 WEEKS
1994	111,615	7.2	17	17	35	85	100	21.82	16.36	PLANTING DELAYED 2 WEEKS - VERY FAVORABLE GROWING SEASO
1995	109,738	0.004	0	13	40	65	95	15.65	14.99	DELAYED PLANTING; WET SPRING; HIGH LEAF SPOT INFECTION
1996	108,783	1.6	1	17	20	43	80	19.21	16.91	DELAYED PLANTING - WET SPRING; RHIZOMANIA IDENTIFIED (SEPT.)
1997	107,715	1.1	10	50	80	95	100	17.93	16.61	COOL, DRY MAY; VERY WET JULY
1998	107,788	1.7	30	95	100	100	100	21.21	15.56	ABOVE NORMAL TEMPS., MAY THRU NOV. HIGH LEAF SPOT INFECTION.
1999	114,232	1.1	5.5	98	100	100	100	20.92	16.76	EARLY START; EXCELLENT LEAF SPOT CONTROL
MEAN	88004.31	11.73	25.78	52.63	64.00	82.75	95.38	18.60	16.30	

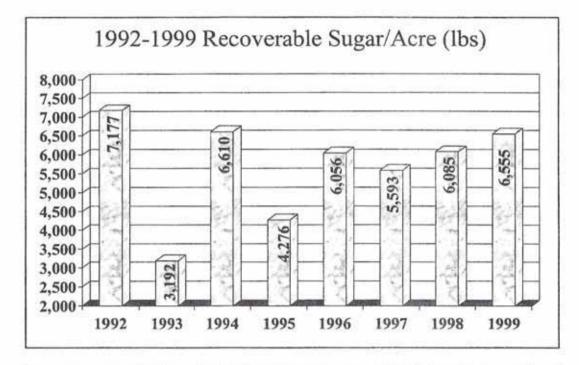
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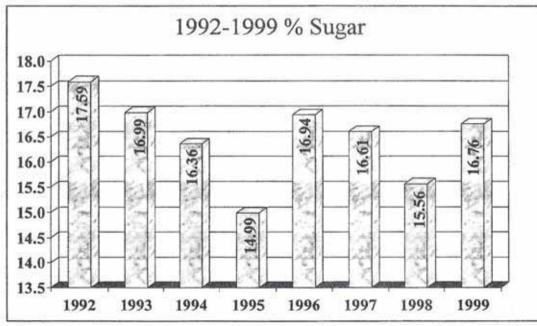




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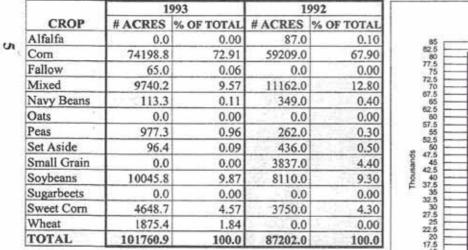
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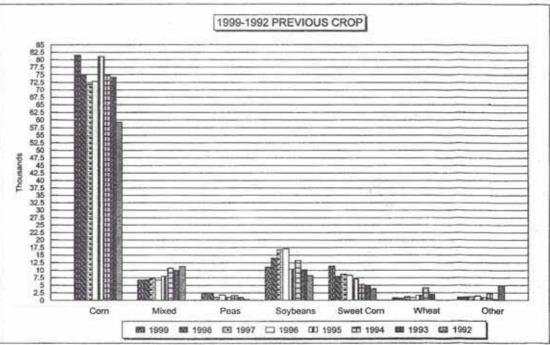
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TABLE 2A PREVIOUS CROP, 1999 - 1992 (PLANTED ACRES)

	1	999	1	998	1	997	1	996	1	995	1994	
CROP	# ACRES	% OF TOTAL	# ACRES	% OF TOTAL	#ACRES	% OF TOTAL	# ACRES	% OF TOTAL	# ACRES	% OF TOTAL	# ACRES	% OF TOTAL
Alfalfa	12.0	0.01	301.0	0.28	0.0	0.00	10.0	0.01	37.0	0.03	349.0	0.31
Com	81426.2	71.28	74989.5	69.60	71824.7	66.65	72789.9	66.91	81026.8	73.84	74832.5	67.04
Fallow	0.0	0.00	0.0	0.00	30.0	0.03	200.0	0.18	0.0	0.00	64.0	0.06
Mixed	6692.2	5.86	6755.9	6.27	7181.4	6.66	6631.6	6.10	7980.0	7.27	10636.0	9.53
Navy Beans	782.7	0.69	335.3	0.31	960.5	0.89	884.9	0.81	- 608.8	0.55	764.1	0.68
Oats	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	74.0	0.07
Peas	2091.8	1.83	2423.6	2.25	984.5	0.91	1757.5	1.62	953.8	0.87	1573.2	1.41
Set Aside	0.0	0.00	80.4	0.07	56.2	0.05	96.5	0.09	0.0	0.00	765.4	0.69
Small Grain	0.0	0.00	377.1	0.35	158.7	0.15	186.9	0.17	192.1	0.18	119.1	0.11
Soybeans	11022.4	9.65	13936.4	12.93	16779.2	15.57	17107.7	15.73	10317.5	9.40	13205.0	11.83
Sugarbeets	110.0	0.10	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00	40.0	0.04
Sweet Corn	11345.2	9.93	7865.0	7.30	8661.3	8.04	8284.5	7.62	7042.4	6.42	5174.5	4.64
Wheat	749.4	0.66	682.0	0.63	1128.2	1.05	833.0	0.77	1580.1	1.44	4018.7	3.60
TOTAL	114231.9	100.0	107746.2	100.0	107764.7	100.0	108782.5	100.0	109738.5	100.0	111615.5	100.0



Other crops on the graph to the right include: Alfalfa, fallow, navy beans, oats, set aside, small grain & sugarbeets



	14	19	99			19	98			19	97			
PREVIOUS CROP	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL.	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL.	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL.		
		WT. AVE	RAGE			WT. AVI	RAGE			WT. AVE	WT. AVERAGE			
Alfalfa	12.0	18.84	14.0	1.32	300.5	24.03	15.6	1.32			10.24			
Com	80594.7	20.88	16.7	1.09	74601.0	21.40	15.5	1.20	71222.6	17.38	16.1	0.97		
Fallow	1								30.0	26.08	17.1	1.21		
Mix (2 crops)	6661.7	20.87	17.0	1.07	6653.6	21.10	15.5	1.25	7072.1	16.48	15.7	0.99		
Navy Beans	782.7	23.75	17.4	1.05	334.8	22.68	15.8	1.29	953.0	18.78	16.4	1.04		
Oats	8210 C													
Peas	1914.1	22.52	16.5	1.11	2391.4	20.95	15.1	1.24	983.2	18.60	15.6	1.05		
Set Aside	N. ST	C AND S	2.2	100	80.4	17.33	15.1	1.27	56.2	17.45	14.9	1.12		
Small Grain	44572	1-3950	55.000		377.1	20.68	15.6	1.14	158.7	13.21	15.8	1.16		
Soybeans	10874.5	20.37	16.6	1.11	13789.6	20.80	15.6	1.24	16583.2	17.39	16.0	0.97		
Sugarbeets	110.0	23.57	17.6	1.03							1.00	161 168 113		
Sweet Corn	11270.7	21.56	16.1	1.14	7832.3	20.43	14.7	1.31	8573.8	18.58	15.9	1.03		
Wheat	748.4	19.43	17.0	1.07	670.7	20.80	15.5	1.27	1126.2	17.10	16.7	1.07		
TOTAL	112968.8	20.92	16.8	1.086	107031.4	21.21	15.6	1.22	106759.0	17.93	16.6	1.01		

		19	96		( M	19	95			19	94	
PREVIOUS CROP	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL.	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL.	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL.
		WT. AVI	ERAGE			WT. AVI	ERAGE			WT. AVE	ERAGE	
Alfalfa	10.0	18.79	13.9	1.03	37.0	21.91	14.7	1.30	344.0	23.93	16.7	1.15
Corn	72173.4	19.23	16.9	1.12	74826.4	15.30	15.0	1.28	74265.8	21.87	16.3	1.17
Fallow	200.0	20.34	16.9	1.12					64.0	23.69	16.6	1.21
Mix (2 crops)	6619.0	19.36	17.0	1.15	7789.7	15.83	15.0	1.31	10547.9	21.61	16.4	1.18
Navy Beans	881.9	20.74	16.6	1.16	608.8	19.27	14.7	1.34	763.1	20.10	16.3	1.15
Oats	1.00				+				74.0	23.62	15.9	1.32
Peas	1752.8	19.47	17.1	1.19	952.8	17.32	14.7	1.40	1572.2	20.01	15.3	1.18
Set Aside	96.5	19.14	16.7	1.14					759.4	22.28	15.4	1.26
Small Grain	186.9	19.57	16.1	1.21	154.2	13.08	14.3	1.39	118.7	21.46	16.9	1.13
Soybeans	15877.9	17.87	16.8	1.12	9840.2	16.25	15.0	1.30	13133.6	22.42	16.4	1.19
Sugarbeets	1. 1. 1.	and the state							40.0	13.74	17.2	1.25
Sweet Corn	8241.2	20.49	16.8	1.28	7016.0	17.74	14.5	1.38	5160.0	21.62	15.6	1.22
Wheat	832.5	17.68	17.3	1.14	1374.1	15.41	15.2	1.29	3972.8	20.33	16.6	1.14
TOTAL	107872.1	19.20	16.9	1.15	102599.2	15.65	15.0	1.31	110815.5	21.82	16.4	1.18

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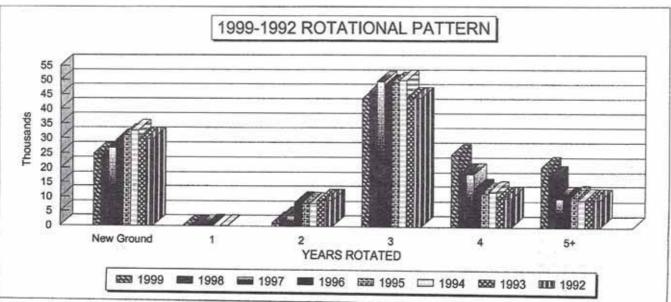
 $\mathbf{I} = \mathbf{I} + \mathbf{I} +$ 

### TABLE 3A ROTATIONAL PATTERN, 1999-1992 (PLANTED ACRES)

	19	999	19	98	19	97
YEARS	NO. ACRES	% OF TOTAL	NO. ACRES	% OF TOTAL	NO. ACRES	% OF TOTAL
New Ground	24,667.3	21.6	23,379.1	21.7	26,761.1	24.8
1	0.0	0.0	0.0	0.0	0	0.0
2	1,153.4	1.0	2,864.9	2.7	3,605.8	3.3
3	43,578.1	38.1	46,190.3	42.9	49,498.3	45.9
4	24,514.7	21.5	18,013.0	16.7	18,085.5	16.8
5+	20,318.4	17.8	17,298.9	16.1	9,814.0	9.1
TOTAL	114,231.9	100.0	107,746.2	100.0	107,764.7	100.0

	19	96	19	95	19	94
YEARS	NO. ACRES	% OF TOTAL	NO. ACRES	% OF TOTAL	NO. ACRES	% OF TOTAL
New Ground	29,270.2	26.9	30,940.7	28.2	32,505.9	29.1
1	248	0.2			108.0	0.1
2	8,093.2	7.4	7,957.5	7.3	7,820.2	7.0
3	48,386.1	44.5	49,183.0	44.8	49,959.9	
4	12,815.9	11.8	11,495.0	10.5	11,951.0	10.7
5+	9,969.1	9.2	10,162.3	9.3	9,270.5	8.3
TOTAL	108,782.5	100.0	109,738.5	100.0	111,615.5	100.0

	19	193	19	92
YEARS	NO. ACRES	% OF TOTAL	NO. ACRES	% OF TOTAL
New Ground	29804.9	29.3	23108	26.5
1		0.0		0.0
2	8937.5	8.8	9592	11.0
3	43916.9	43.2	39850	45.7
4	9852.4	9.7	10551	12.1
5+	9249.2	9.1	4098	4.7
TOTAL	101760.9	100.0	87199	100.0



#### Table 3B ROTATIONAL PATTERN, 1999-1994 (HARVESTED ACRES)

		199	9		ACRES ACRE SUGAR 1 WT. AVERAGE 23079.3 23.25 15.80 2841.9 19.18 15.25 46014.9 20.56 15.32 17966.3 20.71 15.41 9588.4 20.99 15.41						
NUMBER OF YEARS	TOTAL	TONS/ ACRE	% SUGAR	% LOSS MOL			Charles Contractor III	% LOSS MOL.			
		WT. AVE	the second se			WT. AVE	RAGE				
NEW GROUND	24162.7	22.93	17.09	1.070	23079.3	23.25	15.80	1.28			
1 YEAR	-										
2 YEARS	1151.4	18.39	16.92	1.080	2841.9	19.18	15.25	1.17			
3 YEARS	43172.6	20.42	16.56	1,100	46014.9	20.56	15.32	1.18			
4 YEARS	24399.7	20.20	16.48	1.110	17966.3	20,71	15.41	1.23			
5 YEARS	10500.4	20.04	16.44	1.120	9588.4	20.99	15.41	1.24			
6 YEARS	4355	20.28	16.56	1.110	2828.8	20.81	15.39	1.24			
7 YEARS	1282.6	21.22	16.65	1.100	1037.4	21.54	15.65	1.24			
8 YEARS	954.6	19.17	16.43	1.120	460.4	20.98	15.97	1.28			
9 YEARS	1195.6	21.61	17.35	1.055	1012.8	22.74	16.56	1.23			
10 YEARS	587.5	20.52	16.76	1.090	1236.8	19.59	15.78	1.23			
11 YEARS	540.9	22.48	16.97	1.080	232.6	22.79	15.79	1.21			
12 YEARS	277.5	22.95	17.05	1.070							
13 YEARS	277	25.20	17.83	1.010	17.4	24.17	16.18	1.21			
14 YEARS		and a second second			55.4	22.25	16.06	1.29			
15 YEARS	31.4	21.54	17.30	1.050	145.4	22.03	17.22	1.17			
16 YEARS											
17 YEARS											
18 YEARS											
19 YEARS		1									
20 YEARS	38.2	17.90	12.48	1.380	336.6	24.21	16.17	1.57			
21 YEARS											
22 YEARS											
23 YEARS											
24 YEARS											
25 YEARS											
28 YEARS											
30+YEARS	41.7	14.09	16.69	1.094	177	21.27	14.47	1.26			
TOTAL	112968.8	20.92	16.76	1.086	107031.4	21.21	15.56	1.22			

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		199	7		11	199	6			
NUMBER OF YEARS	TOTAL	TONS/ ACRE	% SUGAR	% LOSS MOL	TOTAL	TONS/ ACRE	% SUGAR	% LOSS MOL.		
UF TEARS	ALAES	WT. AVE		MOL	ACRES	WT. AVE		(4101.4		
		0.000	C. LELOW							
NEW GROUND	26411.9	18.57	15.92	1.01	29010.7	20.70	16.98	1.19		
1 YEAR					243	25.15	16.14	1.35		
2 YEARS	3596.4	15.00	16.27	1.05	8074	17.05	16.78	1.08		
3 YEARS	49199.4	17.33	16.18	0.96	48024.2	18.35	16.73	1.11		
4 YEARS	17890.3	16.87	15.84	0.98	12652.8	19.01	16.89	1.15		
5 YEARS	5235.3	16.18	16.15	0.97	5505.7	19.94	17.14	1.16		
6 YEARS	1154.1	17.86	16.18	1.03	1703.2	18.27	16.82	1.16		
7 YEARS	1119.7	15.64	15.35	0.91	364.7	19.90	17.23	1.13		
8 YEARS	333.4	18.91	16.29	1.12	380.9	21.51	17.03	1.14		
9 YEARS	1072.2	18.53	16.89	1.01	612.7	19.19	17.22	1.16		
10 YEARS	283.9	15.79	15.41	0.99	847.2	21.57	17.03	1.24		
11 YEARS					77	21.54	17.92	0.99		
12 YEARS	97	12.87	15.75	1.05						
13 YEARS					70	19.83	16.88	1.24		
14 YEARS										
15 YEARS	118	21.81	16.47	1.02						
16 YEARS										
17 YEARS										
18 YEARS	115	20.81	16.85	0.97						
19 YEARS										
20 YEARS	132.4	20.50	16.40	1.05						
21 YEARS										
22 YEARS				1						
23 YEARS	100 C									
24 YEARS										
25 YEARS	A			1.1.1	229	25.46	16.40	1.33		
28 YEARS	1.1				77	21.64	16.99	1.20		
30+YEARS						21.04	10.00			
TOTAL	106759	17.93	16.61	1.01	107872.1	19.20	16.90	1.15		

Table 3B	ROTATIONAL PATTERN, 1999-1994 (HARVESTED ACRES)
(continued)	

		199	5		14 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C				
NUMBER OF YEARS	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL.	TOTAL ACRES	TONS/ ACRE	% SUGAR	% LOSS MOL	
		WT. AVE	and the second se		WT. AVERAGE				
NEW GROUND	29553.5	17.93	14.86	1.37	32334.4	23.22	16.30	1.20	
1 YEAR					108	18.46	16.44	1.14	
2 YEARS	6692.3	13.00	14.82	1.26	7623.8	20.02	16:55	1.13	
3 YEARS	45959.1	14.69	14.96	1.25	49613.3	21.11	16.25	1.16	
4 YEARS	10666.4	14.78	14.97	1.28	11908.7	21.66	16.16	1.18	
5 YEARS	5933.7	15.51	14.88	1.30	4952.9	22.38	16.01	1.17	
6 YEARS	1109.7	16.19	14.92	1.32	1609	24.26	16.02	1.28	
7 YEARS	242	16.70	14.98	1.32	1244.7	22.60	16.16	1.15	
8 YEARS	501.6	14.63	14.58	1.41	669.3	18.16	16.62	1.21	
9 YEARS	927	18.87	15.08	1.35	117	22.41	15.95	1.20	
10 YEARS	854.8	16.43	15.29	1.31	345.4	21.14	15.90	1.14	
11 YEARS					85	22.94	15.74	1.40	
12 YEARS					204	23.16	17.04	1.18	
13 YEARS			1						
14 YEARS									
15 YEARS									
16 YEARS								1.	
17 YEARS	-								
18 YEARS									
19 YEARS								1	
20 YEARS	10	2.19	16.48	1.17					
21 YEARS									
22 YEARS									
23 YEARS				24					
24 YEARS									
25 YEARS			10						
28 YEARS									
30+YEARS	149.1	17.49	15.47	1.29					
TOTAL	102599.2	15.65	15.00	1.31	110815.5	21.82	16.36	1.11	

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#### COMPARISON OF YIELDS BY STATION SMSC

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	10 C C C C C C C C C C C C C C C C C C C	Olympic Average
Renville	22.1	15.8	22.7	18.0	20.1	18.3	16.2	21.3	10.1	22.8	15.1	19.3	18.8	21.7	20.8	18.87	19.25
Bird Island	20.4	15.8	25.0	19.3	21.9	16.2	15.6	22.5	9.6	22.9	17.2	19.8	17.7	20.6	20.8	19.02	19.28
Buffalo Lake												20.3	16.6	19.2	21.1	19.30	19.75
Clara City East	23.9	17.0	23.0	18.0	18.9	18.6	18.7	22.1	10.3	21.5	14.8	16.7	17.3	22.9	21.3	19.00	19.29
Clara City West	22.5	14.6	21.8	16.3	19.0	19.8	17.6	21.1	9.6	21.4	15.0	19.8	17.2	21.7	21.2	18.57	18.96
Hector	21.6	14.5	22.6	19.6	23.1	16.7	15.6	23.7	10.4	19.6	16.9	20,1	18.0	19.2	19.6	18.74	19.01
Maynard	22.8	13.0	22.7	16.1	19.1	18.2	16.4	20.2	7.6	20.4	13.6	15.8	16.3	21.4	19.9	17.57	17.93
Milan	19.9	13.3	17.4	12.8	18.1	18.1	14.8	19.3	12.3	18.5	12.1	14.7	14.4	19.4	17.6	16.18	16.21
Murdock	22.6	14.6	23.3	17.2	19.0	19.7	19.3	20.9	10.2	22.1	16.4	19.8	18.5	23.1	21.9	19.24	19.63
Redwood Falls	18.6	13.8	17.8	14.8	19.5	16.1	12.5	22.3	9.2	23.1	13.5	19.8	20.4	22.0	21.8	17.68	17.92
Benson															21.5	21.50	21.50
Raymond	_											_			23.1	23.10	23.10
Weighted Averages	21.7	15.1	22.5	17.7	20.4	17.9	16.3	21.6	10.0	21.8	15.7	19.2	17.9	21.2	20.9	18.66	19.03
% Sugar	16.2	16.2	17.0	17.2	15.9	15.6	15.4	17.6	17.0	16.3	15.0	16.9	16.6	15.6	16.8	16.35	16.36

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#### Table 5. Historic Data for SMSC

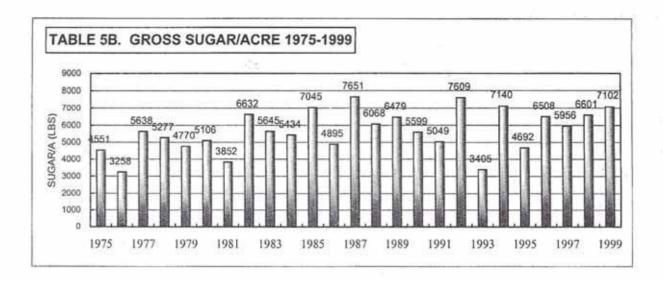
	Planted	Replant	Harvest	Net	Ave.	Ave.	Ave.	RS/A	Days of	Tons
Year	Acres	Acres	Acres	Tons	:: T/A ::	% Sugar	LTM	Lbs.	Slice	Sliced/Day
1975	49,273		48,536	766,743	15.79	14.41			145	3,196
1976	54,784		50,209	537,361	10.71	15.21			106	4,966
1977	51,614		49,345	986,056	19.98	14.11			193	4,810
1978	51,913		50,311	916,625	18.22	14.48			157	5,492
1979	52,061	948	48,425	727,124	15.02	15.88			134	5,162
1980	58,105	510	57,711	948,767	16.44	15.53			154	5,753
1981	59,051	5,456	57,484	848,808	14.77	13.04			157	5,088
1982	54,095	262	53,422	1,153,158	21.59	15.36			185	5,776
1983	57,308	1,100	56,084	1,083,689	19.32	14.61			150	6,697
1984	57,240	6,500	54,085	948,553	17.54	15.49			135	6,151
1985	59,703	7,082	58,897	1,279,935	21.73	16.21	1.204	6522	167	6,985
1986	66,635	4,150	65,412	986,846	15.09	16.22	1.201	4533	121	7,745
1987	66,860	1,450	66,488	1,498,024	22.53	16.98	1.301	7065	197	7,158
1988	70,646	42,000	69,500	1,229,526	17.69	17.15	1.468	5548	159	7,154
1989	74,943	11,000	74,040	1,507,224	20.36	15.91	1.484	5874	172	8,013
1990	80,783	40,350	78,781	1,411,200	17.91	15.63	1.348	5116	161	8,283
1991	82,285	7,600	79,672	1,303,837	16.37	15.42	1.221	4649	145	8,484
1992	87,324	1,019	86,292	1,866,761	21.63	17.59	0.986	7183	205	8,598
1993	101,760	8,814	94,679	948,619	10.02	16.99	1.064	3192	104	8,874
1994	111,615	5,000	110,815	2,417,550	21.82	16.36	1.182	6624	223	9,424
1995	109,738	423	102,599	1,605,407	15.65	14.99	1.311	4282	164	8,812
1996	108,783	1,697	107,939	2,073,477	19.21	16.94	1.146	6056	204	9,177
1997	107,715	1,143	106,709	1,913,553	17.93	16.61	1.013	5592	196	9,210
1998	107,746	1,894	107,033	2,270,355	21.21	15.56	1.221	6083	216	9,613
1999	114,232	1,247	112,969	2,361,967	20.92	16.76	1.086	6555	(214)	(10,050
viean	75,848	7,126	73,897	1,343,647	17.98	15.74	1.216	5,658	167	7,227

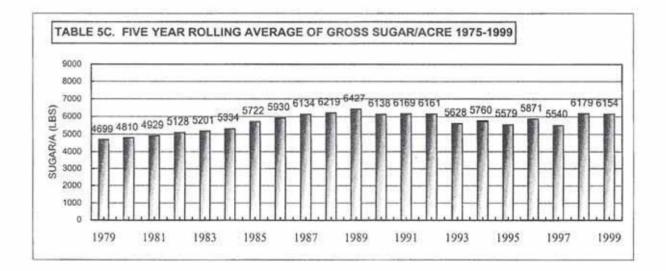
#### Percent Tare \*

Year 1st Tare 2nd Tare Total

1994	3.1	5.3	8.4
1995	3.5	5.0	8.5
1996	2.0	2.3	4.3
1997	2.1	3.4	5.5
1998	2.3	3.2	5.5
1999	2.4	2.1	4.5

\* 1st tare - removed by piler \* 2nd tare - removed by washing in preparation for processing





#### COMPARISON OF YIELD, SUGAR CONTENT AND LOSS TO MOLASSES BY RECEIVING STATION, 1984-1999

MILLING S	1000	1985	1231-51		1986			1987	100223-271	1	1988	3103.95	10.000	1989	12.07.60
STATION	T/A	% SUGAR	% LTM	T/A	SUGAR	% LTM	T/A	% SUGAR	% LTM	T/A	% SUGAR	% LTM	T/A	% SUGAR	% LTM
RENV	22.1	16.14	1.205	15.8	16.25	1.189	22.7	16.77	1.389	18.0	17.08	1.439	20.1	15.89	1.465
BI, 1S.	20.4	16.44	1.203	15.8	16.35	1.179	25.0	17.13	1.267	19.3	17.84	1.509	21.9	15.96	1.514
CC WEST	22.5	16.35	1.261	14.6	16.27	1.238	21.8	17.20	1.502	16.3	16.74	1.302	19,0	16.02	1,471
CC EAST	23.9	16,18	1.200	17.0	16.09	1.268	23.0	16.72	1.447	18.0	16.62	1,321	18.9	15.81	1.402
HECTOR	21.6	16.09	1.216	14.5	15.97	1.172	22.6	16.65	1.409	19.6	17.54	1.507	23.1	15.89	1.464
MAYN	22.8	16.27	1.224	13.0	15,95	1.245	22.7	17.15	1.472	16.1	16.78	1.292	19.1	15.91	1.418
MILAN	19.9	16.05	1.086	13.3	16.56	1.185	17.4	17.66	1.301	12.8	16.57	1.514	18,1	16.31	1.561
MURD	22.6	16.15	1.214	14.6	16.3	1.191	23.3	17.58	1.448	17.2	16.83	1.431	19.0	15.82	1.551
RWF	18,6	16.19	1.237	13.8		1.256	17.8	16.80	1.238	14.8	16.74	1.239	19.5	16.09	1.669
WT.AVE.	21.7	16.20	1.204	15.1	16.21	1.213	22.5	16.98	1.376	17.7	17.15	1.434	20.4	15.91	1.483

ELS ( ISSNE)	2 Talada	1990	11.2 mil 2013	ALC: NO	1991	110013	A CHARLES	1992	as the second	1993	1.12.11	2201020		1994	117-00
STATION	T/A	% SUGAR	% LTM	T/A	% SUGAR	% LTM	T/A	% SUGAR	% LTM	T/A	% SUGAR	% LTM	T/A	SUGAR	% LTM
RENV	18.29	15.54	1.348	16.21	15,43	1,195	21.29	17.59	0.972	10.1	16.9	1.065	22.8	16.49	1.189
BL IS	16.19	15.59	1.370	15.64	15.28	1.190	22.56	17.6	0.958	9.61	16.81	1,119	22.91	16,17	1.191
CC WEST	19.79	15.68	1,347	17.63	15.51	1,250	20,95	17.72	1.004	9.57	17.06	1.007	21.43	16.44	1.182
CCEAST	18.55	15.51	1.317	18.71	15.20	1.250	22.06	17.67	0.983	10.3	16.98	1.026	21,45	16.43	1.170
HECTOR	16,75	15.69	1.356	15.37	15.45	1.214	23.65	17.43	0.988	10.4	17.04	1.111	19.58	15.67	1.182
MAYN	18.18	15.57	1.324	16,36	15.46	1.196	20.21	17.69	0,996	7.55	17.04	1.004	20.35	16.70	1.112
MILAN	18.13	15.69	1.327	14.75	15.38	1.301	19.28	17.77	1.032	12.27	17.12	1.037	18.49	16.55	1.162
MURD	19.67	15.65	1.340	19.25	15.43	1.278	20.94	17.49	1.047	10.18	17.2	1.007	22.06	16.66	1.187
RWF	16.12	15.31	1.492	12.54	15,25	1.237	22,33	16.85	1.011	9.21	17.35	1.054	22.98	15.98	1.254
WT.AVE.	17.91	15.60	1.348	16.37	16.40	1.220	21.64	17.57	0.986	10.0	17.0	1.064	21.82	16.33	1,184

21-21-28-21-27	nie za stala	1995	- 15336	315	1996	10000000	11. 11. 1	1997		1998	a martine	the state	1.11/104	1999	102-264	16.00	AVERAGE	2-52-06-11
STATION	T/A	% SUGAR	% LTM	T/A	% SUGAR	% LTM	TA	% SUGAR	% LTM	T/A	% SUGAR	% LTM	T/A	% SUGAR	% LTM	T/A	% SUGAR	% L/TM
RENV	15.1	14.9	1.323	19.3	16.8	1.123	18.8	16.6	1.020	21.7	15.7	1.221	20.8	16.7	1.094	18.87	16.32	1.216
BL IS.	17.2	14.9	1.349	19.8	17.1	1.228	17.7	16.3	0.992	20.6	15.3	1.252	20.8	16.3	1.126	19,03	16.34	1.230
BUFF.L				20.3	17.1	1.249	16.6	16.1	0.990	19.2	14.9	1.326	21.1	16.7	1.094	19.30	16.20	1.16
CC WEST	150	15.1	1.256	19.8	16.7	1.079	17.2	17.0	1.016	21.7	15.7	1.182	21.2	16.9	1,078	18,56	16.43	1.212
CC EAST	14.8	14.8	1.259	16.7	16.7	1.085	17.3	16.7	0.987	22.9	15.8	1.170	21.3	16.9	1.078	18.99	16.27	1.198
HECTOR	16.9	14.9	1.334	20.1	17.1	1.204	18.0	16.1	1.010	19.2	14.9	1.271	19.6	16.0	1.150	18.73	16.16	1.239
MAYN	13.6	15.2	1.231	15.8	16.7	1.065	16.3	16.9	1.011	21.4	15.5	1.144	19.9	16.9	1.078	17.56	16.38	1.187
MILAN	12.1	15.4	1.205	14.7	16.6	1.098	14.4	16.7	1.072	19.4	15.9	1.164	17.6	17.4	1.042	16.17	16.51	1.206
MURD	16.4	15.3	1.252	19.8	17.0	1.084	18,5	17.3	1.015	23.1	15.9	1.154	21.9	17.1	1.063	19.23	16.51	1.217
RWF	13.5	14.5	1.406	19.8	16.7	1.140	20.4	17.1	1.047	22.0	16.4	1.321	21.8	17.5	1.035	17.68	16.31	1.242
BEN SO													21.5	17.5	1.035	21.50	17.50	1.035
RAYM.							-		1000				23.1	17.3	1.049	23.10	17.30	1.049
WT. AVE	15.7	14.9	1.311	19.2	16.9	1.146	17.9	16.6	1.013	21.2	15.6	1.220	20.9	16.76	1.086	19.06	15.25	1.092

TABLE 5D

#### 1999 MILEAGES BY WEIGH STATION

STATION	1-5 MILES	6-10 MILES	11-15 MILES	16-20 MILES	21-25 MILES	26-30 MILES	31+ MILES	TOTAL AC.
Renville	9.4	19.2	29.9	21.0	10.5	5.7	4.3	35461.72
Bird Island	11.0	14.8	11.1	10.2	3.2	0.5	0.0	18008.5
Buffalo Lake	2.3	3.5	3.7	1.7	2.6	2.4	0.0	5764.89
C.C. West	4.3	11.2	9.5	2.7	0.8	0.5	0.0	10283.27
C.C. East	6.6	2.7	2.0	0.0	0.0	0.0	0.0	4016.27
Hector	9.2	10.4	6.4	3.3	1.1	0.5	0.6	11156.99
Maynard	5.0	3.8	2.4	0.1	0.0	0.0	0.0	4024.62
Milan	0.4	0.7	0.2	2.2	2.8	0.7	0.1	2479.97
Murdock	9.7	7.9	2.7	0.4	0.3	0.0	4.3	8961.7
Redwood Falls	4.1	2.5	3.0	1.2	0.6	0.0	0.4	4209.51
Benson	3.8	2.4	1.3	0.2	1.6	1.7	2.2	4684.04
Raymond	4.3	6.9	2.4	0.0	0.0	0.0	0.7	5074.8
Total Acres	24853.12	30503.48	26445.8	15316.36	8327.39	4229.47	4450.66	114126.28
% of Total	21.8	26.7	23.2	13.4	7.3	3.7	3.9	100.0

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Table 6A

Table 6B.	Net tons delivered by piler per station, 1999
	A. Combination pilers

Station	
Renville	

			Plier		
piler	No. Loads	total	Total	% End	% Side
end - 1	834	16,017		24.4	
side - 1	2,016	49,711	65,727		75.6
side - 2	3,381	84,027	84,027		100.0
side - 3	3,377	82,618	82,618		100.0
end - 4	4,243	80,900	80,900		100.0
end - 5	2,773	53,530		36.0	
side - 5	3,929	95,032	148,562		64.0
end - 6	3,816	74,369		48.5	
side - 6	3,245	79,111	153,481		51.5
end - 7	2,478	48,727		42.8	
side - 7	2,680	65,137	113,863		57.2
total end	14,144	273,543		37.5	
total side	18,628	455,637			62.5
station tot	32,772	729,179	729,180		

Bird Is.

piler	No. loads	total	piler total	% end	% side
end - 1	5,801	101,375	101,375	100.0	
end - 2	886	15,704		13.7	
side - 2	4,093	98,686	114,390		86.3
end - 3	3,433	62,634		41.2	
side - 3	3,692	89,298	151,932		58.8
end total	10,120	179,713		48.9	
side total	7,785	187,984	367,697		51.1
station tot	17,905	367,697			

Piler

Station	piler	No. loads	total	piler total	% end	% side
Buff. Lk.	end - 1	2,203	42,946		35.1	
	side - 1	3,183	79,527	122,473		64.9
Benson	end - 1	2,061	40,857		41.5	
	side - 1	2,274	57,476	98,333		58.5
CC West	end - 1	2,087	37,929		35.1	
	side - 1	2,899	70,240	108,169		64.9
	end - 2	1,385	24,781		22.8	
	side - 2	3,466	83,972	108,753		77.2
	total end	3,472	62,710		28.9	
	total side	6,365	154,212	216,922		71.1
	station tot	9,837	216,922			

1.0

end - 1	2,515	44,716		42.4	
side - 1	2,544	60,842	105,558		57.6
end - 2	3,009	53,230		48.3	
side - 2	2,405	56,888	110,118		51.7
total end	5,524	97,946		45.4	
total side	4,949	117,730	215,676		54.6
station tot	10,473	215,676			

Murdock	piler	No. Loads	total	piler total	% end	% side
	end - 1	2,844	53,259		43.4	
	side - 1	2,907	69,513	122,772		56.6
	end - 2	4,518	73,554	73,554	100.0	
	total end	7,362	126,813		64.6	
	total side	2,907	69,513	196,326		35.4
	station to	10,269	196,326			

Raymond	piler	No. loads	total	piler total	% end	% side

end - 1	2039	41,337		35.4	
side - 1	3132	75,298	116,635		64.6

Rwd.

s.	end - 1	1645	28,957		44.5	
	side - 1	1425	36,059	65,016	-	55.5
	end -2	1432	24,778	24,778	100.0	
	total end	3077	53,735		59.8	
	total side	1425	36,059	89,794		40.2
	station tot	4502	89,794			

#### stations with combination Pilers

total end	50,002	919,600	42.7	
total side	50,648	1,233,436		57.3
total	100,650	2,153,036		

#### B. End dump only

piler	No. loads	total
end - 1	4,754	85,595
end - 1	4,644	80,220
end - 1	2,247	43,500
	11,645	209,315
	112,295	2,362,351
	end - 1 end - 1	end - 1 4,754 end - 1 4,644 end - 1 2,247 11,645

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# Table 6C. Harvest Summary by Station - 1999 adjusted for dirt

Station	Harvest Acres	Net Tons	T/Ac	% Sugar	% LTM	Recov. Sugar/t	Recov. Sugar/ac	1st tare	2nd Tare
Renville	35,098	728,762	20.76	16.70	1.094	312.1	6481	2.31	2.00
Bird Island	17,676	368,384	20.84	16.34	1.126	304.3		2.81	2.40
Benson So.	4,570	98,342	21.52	17.48	1.035	328.9	7078	2.56	2.05
Buffalo Lake	5,805	122,481	21.10	16.69	1.094	311.9	6581	2.28	2.29
CC West	10,219	216,877	21.22	16.93	1.078	317.0	6729	2.20	1.92
CC East	4,015	85,632	21.33	16.92	1.078	316.8	6758	1.97	1.96
Hector	10,968	215,046	19.61	16.03	1.150	297.6	5835	3.11	2.26
Maynard	4,024	80,205	19.93	16.87	1.078	315.8	6295	1.74	1.80
Milan	2,472	43,469	17.58	17.38	1.042	326.8	5746	1.95	1.67
Murdock	8,951	196,314	21.93	17.14	1.063	321.5	7052	2.63	2.38
Raymond	5,062	116,705	23.06	17.32	1.049	325.4	7503	2.11	2.62
Redwood Falls	4,109	89,750	21.84	17.54	1.035	330.1	7210	2.03	1.80
Total	112,969	2,361,967	20.91	16.76	1.086	313.5	6554	2.43	2.12

harvest acres = as delivered not as contracted

#### Table 6D. Percentage of Net tons delivered per day at each station- 1999

Full Harvest tons only Before dirt adjustments

Date	Renv	Ben. So.	Bird Is.	Buff Lk.	CC West	CC East	Hector	Mayn	Milan	Murdock	Raymond	RWF	Coop
10/04	3.22	3.68	2.78	1.48	4.00	3.94	3.80	1.62	5.46	2.87	3.33	2.88	3.18
10/05	6.79	8.54	6.78	1.67	8.11	7.47	8.26	8.43	8.14	6.94	6.43	3.97	6.84
10/06	7.79	8.64	6.61	2.04	7.74	8.28	7.77	9.06	7.56	7.50	7.90	4.37	7.25
10/07	7.60	8.51	4.83	4.17	6.39	7.64	7.09	8.23	6.49	6.31	8.87	5.37	6.74
10/08	6.70	5.87	4.52	3.65	4.79	4.94	5.38	6.48	6.30	4.19	5.96	5.39	5.50
10/09	7.88	9.46	7.45	4.71	9.40	6.81	6.75	8.96	7.91	6.36	7.23	8.15	7.60
10/10	4.69	5.69	7.15	3.87	7.58	4.79	5.93	8.20	6.42	5.28	1.49	9.33	5.67
10/11	7.97	3.32	7.36	4.36	9.18	6.83	6.86	9.02	10.11	8.66	1.47	8.82	7.31
10/12	7.85	8.81	7.70	6.82	9.01	9.74	8.23	7.77	8.48	7.96	1.99	14.00	7.99
10/13	6.05	9.68	8.49	3.93	8.46	9.81	6.81	7.44	5.75	6.05	7.55	14.65	7.34
10/14	6.00	10.38	8.04	6.23	6.56	7.39	5.86	7.46	3.01	9.08	6.07	11.44	7.06
10/15	5.75	8.59	6.17	10.31	5.29	5.28	5.86	4.72	1.86	5.99	7.37	5.93	6.12
10/16	4.06	5.09	5.13	10.10	3.66	5.21	4.39	0.32	1.76	3.37	10.89	3.89	4.72
10/17	2.17	2.76	4.83	7.20	0.33		3.11		1.72	0.63	5.18		2.47
10/18	2.17	0.95	2.60	8.41	1.10		2.05			1.14	10.17		2.44
10/19	0.58		1.13	8.16			0.23			2.27	5.40		1.25
10/20	0.36			1.89					-	1.06	2.51		0.21
10/21	0.14			0.09									
10/22	i and a state of the state of t				· · · · · · · · · · · · · · · · · · ·								
10/23													
10/24													
10/25	100 m - 1												
Remainder		- 11 A - 5 / A			1								
Total %	87.77	99.96	91.59	89.08	91.58	88.14	88.37	87.72	80.97	85.68	99.81	98.20	89.70
Total tons	730,756	98,640	369,321	122,763	217,210	85,782	216,792	80,315	43,558	196,978	117,160	90,016	2,369,248

#### COMPARISON OF MID-AUGUST PRE-HARVEST SAMPLES (AUG. 20-25)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
NO. BEETS/10'	13.0	12.7	13.0	13.0	13.0	14.3	13.0	13.2	15.5	12.9	14.0	14.3	14.0	14.4	14.5
BEET WT./10' (LBS)	15.2	10.7	17.4	12.8	14.4	12.0	12.4	14.3	8.8	15.7	12.1	12.6	14.5	14.1	12.0
AVE. SUGAR %	12.83	12.13	14.44	15.01	14.31	11.35	12.90	13.50	11.55	13.88	12.30	13.00	13.50	13.38	13.10
PPM K		2629	2265	2523	2164	1962	1905	2209	2105	2461	2069	2460	2267	1987	1942
PPM NA		488	392	380	536	714	566	580	460	422	451	373	302	441	479
PPM AM. N		173	367	548	441	235	180	189	355	230	227	249	176	260	254
LTM %		1.351	1.434	1.751	1.561	1.311	1.153	1.274	1.397	1.338	1.2	1.339	1.145	1.221	1.086
FINAL T/A	21.7	15.1	22.5	17.7	20.2	17.9	16.4	21.6	10.0	21.8	15.7	19.21	17.93	21.21	20.92
FINAL SUGAR %	16.21	16.22	16.98	17.15	15.91	15.63	15.42	17.59	16.98	16.36	14.97	16.91	16.61	15.56	16.76
FINAL LTM %	1.204	1.213	1.376	1.434	1.484	1.347	1.211	0.986	1.064	1.181	1.311	1.146	1.013	1.221	1.086
NET TONS (M)	1.279	0.987	1.498	1.229	1.507	1.411	1.304	1.867	0.948	2.418	1.602	2.074	1.913	2.270	2.362
% SUGAR OPENING OF PREPILE	13.83	14.82	14.53	15.51	12.81	11.95	12.86	14.05	15.38	12.80	13.16	13.96	13.58	13,24	13.30
DATE OF PREPILE	09/14	09/27	09/01	10/03	09/06	09/10	09/19	09/08	09/27	08/30	9/14	9/09	09/02	08/26	09/09

NTOTES FOR NEAR PRODUCT STREET AND STORE FOR A STREET AND A ST

TABLE 7

#### Table 8A

#### SOUTHERN MINNESOTA BEET SUGAR COOPERATIVE COMPARISON OF MID-JULY SAMPLES

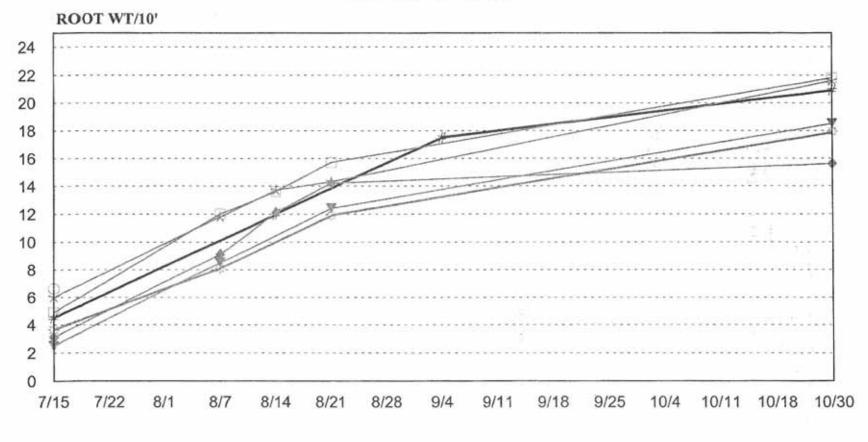
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1987 - 99 MEAN
No. Beets/10 <sup>4</sup>	12.5	13.0	14.0	15.6	13.7	15.4	16.5	13.7	15.0	15.0	15.0	14.8	15.2	14.6
Top Wt./10' (lbs.)	19.8	8.3	8.6	9.4	9.2	14.2	4.3	13.1	9.3	8.0	10.6	14.8	12.6	10.9
Beet Wt./10' (lbs.)	11.4	6.9	4.1	3.1	3.9	6.0	1.5	4.9	3.1	2.5	3.6	6.6	4.5	4.8
Ave. Beet Wt. (oz.)	14.6	8.5	4.7	3.2	4.6	6.2	1.4	5.7	3.3	2.7	3.8	7.1	4,7	5.4
Top/Root Ratio	1.7	1.2	2.3	3.0	2.4	2.3	2.9	2.7	3.0	3.2	2.9	2.2	2.8	2.5
Final Yield (T/A)	22.5	17.7	20.4	17.9	16.4	21.6	10.0	21.8	15.6	19.6	17.9	21.2	20.9	18.7

Table 8B

#### JULY SAMPLES BY RECEIVING STATION - 1999

STATION	NO. BEETS/10'	TOP WT. LBS (10')	ROOT WT. LBS (10')
Self Mark South and South	Contraction ( April 199		
BENSON	15	13.37	5.25
BUFFALO LAKE	14	13.25	4.88
BIRD ISLAND	15	11.14	4.30
CLARA CITY E.	16	14.17	4.77
CLARA CITY W.	16	12.50	4.28
HECTOR	15	11.12	3.85
MAYNARD	17	14.90	4.35
MILAN	13	9.50	3.88
MURDOCK	16	13.54	5.44
RAYMOND	16	12.57	5.57
RENVILLE	15	13.02	4.51
REDWOOD FALLS	14	12.86	4.07
TOTAL	Average 15,29	Average 12.63	Average 4.52

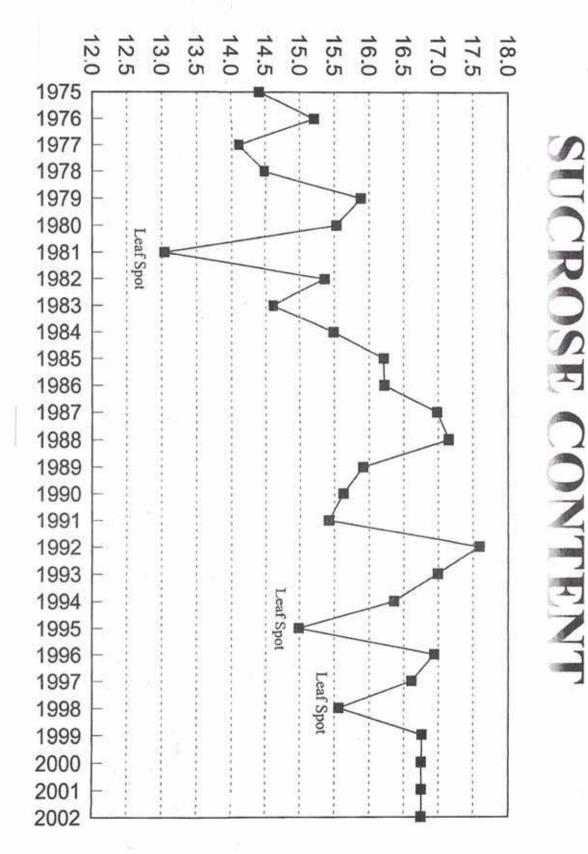
# COMPARISON OF PREHARVEST SAMPLES ROOT WT/10'



★1992 ⊕1994 ◆1995 ₹1996 ÷1997 ⊖1998 #1999

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PERCENT SUGAR



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#### TABLE 10. HARVEST SUMMARY, 1985-1999

#### PRE-PILE HARVEST

VARIABLE	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	1985 - 1998 AVERAGE
BEGINNING DATE	09/14	09/27	09/01	10/03	09/06	09/10	09/19	09/08	09/27	08/30	09/14	09/09	09/02	08/26	09/09	09/09
LENGTH (DAYS)	23	9	37	5	30	28	18	27	9	34	21	25	34	39	25	24
NET TONS (PREPILE) *	176,680	92,586	289,726	80,976	278,579	252,550	167,690	219,764	83,836	320,200	137,099	242,300	336,072	406,336	236,194	221373
% OF TOTAL TONS	13.80	9.40	19.30	6.60	18.50	17.90	12.90	11.70	8.00	13.20	8.50	11.70	17.60	17.90	10,00	13.13
% S IST DAY OF PREPILE	13.55	14.82	14.53	15.51	12.81	11,95	12.86	14.05	15.38	12.80	13.16	13.96	13.58	13.24	13.30	13.70
AVERAGE % SUGAR	14.55	15.10	15.89	16.28	14.21	13.79	13.66	15.36	15.87	14.03	14.00	15,33	14.88	14.48	14.90	
% SUGAR ON FIRST DAY OF FULL HARVEST	16.07	15.80	17.46	16.71	16.30	15.95	15.30	17.83	16.88	16.05	14.41	16.90	17.02	15.52	16.56	16.32
% FINAL SUGAR	16.21	16.22	16.98	17.15	15.91	15.63	15.42	17.59	16.98	16.36	14.98	16.94	16.61	15.56	16.76	16.35

#### \* BEFORE FINAL DIRT ADJUSTMENT

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PREPILE PERIOD

AVE. CHANGE IN % SUGAR/DAY	0.11	0.11	0.08	0.24	0.12	0.14	0.14	0.14	0.17	0.10	0.06	0.118	0.101	0.060	0.130	0.120

 $\mathbf{I}$   $\mathbf{I}$ 

### TABLE 11. BEET QUALITY ANALYSIS, SMSC, 1985-1999

YEAR	AVERAGE % SUGAR	RS/T (LBS)	AVERAGE PPM POT.	AVERAGE PPM SODIUM	AVERAGE AM N	AVERAGE % LTM
				POP CONTRACTOR		- 192470
1985	16.21	300.1	2,313	304	209	1.204
1986	16.22	300.4	2,363	324	185	1.201
1987	16.98	313.6	2,400	339	344	1.301
1988	17.15	313.6	2,433	268	394	1.468
1989	15.91	288.5	2,234	422	402	1.484
1990	15.61	285.2	2,052	557	296	1.348
1991	15.42	284.0	1,908	460	270	1.221
1992	17.59	332.1	1,883	221	184	0.986
1993	16.98	318.3	2,041	308	171	1.064
1994	16.36	303.5	2,120	277	254	1.184
1995	14.99	273.6	2,122	357	322	1.311
1996	16.94	315.9	2,187	238	222	1.146
1997	16.61	311.9	1,807	217	227	1.013
1998	15.56	286.8	1,815	328	344	1.221
1999	16.76					1.086
MEAN	16.35					1.216

1999 % LTM derived from regression table

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#### TONS\* HARVESTED BY WEEK

HARVEST	198	1985		6	1987 1988 1989			1990				
PERIOD	TONS	%	TONS	%	TONS	%	TONS	%	TONS	%	TONS	%
START - 10/06	176,680	13.7	147,860	14.9	289,128	19.3	80,992	6.6	318,594	21.1	252,550	17.8
10/07 - 10/13	182,244	14.1	349,263	35.2	534,053	35.6	545,308	44.3	728,313	48.2	554,348	39.1
10/14 - 10/20	269,976	20.9	383,746	38.6	453,468	30.2	520,558	42.3	344,987	22.8	374,776	26.4
10/21 - 10/27	511,174	39.6	105,784	10.6	214,117	14.3	85,076	6.9	117,130	7.8	230,266	16.2
10/28 - END	152,254	11.8	6,887	0.7	11,195	0.7	0	0.0	1,890	0.1	5,758	0.4
TOTALS	1,292,328	100.0	993,540	100.0	1,501,961	100.0	1,231,934	100.0	1,510,914	100.0	1,417,698	100.0

HARVEST	199	1	199	2	19	93	1994	94 1995		8	1996	
PERIOD	TONS	%	TONS	%	TONS	%	TONS	%	TONS	%	TONS	%
START - 10/06	167,690	12.8	418,797	22.4	148,301	15.6	334,746	13.8	157,716	9.8	640,610	30.82
10/07 - 10/13	632,102	48.4	336,582	18.0	414,837	43.5	687,307	28.3	232,229	14.4	1,035,179	49.8
10/14 - 10/20	365,074	27.9	236,436	12.7	242,202	25.4	319,878	13.2	835,892	51.9	376,174	18.1
10/21 - 10/27	142,193	10.9	737,027	39.5	147,921	15.5	560,065	23.0	252,959	15.7	26,620	1.281
10/28 - END	0	0.0	137,918	7.4	313	0.0	529,818	21.8	132,623	8.2	0	(
TOTALS	1,307,059	100.0	1,866,760	100.0	953,574	100.0	2,431,814	100.0	1,611,419	100.0	2,078,583	100.0

HARVEST	1997		1998		1999		AVERAGE		
PERIOD	TONS	%	TONS	%	TONS	%	TONS	%	
START - 10/06	432,350	22.5	434,341	19.1	171,663	27.2	278,135	13.8	
10/07 - 10/13	674,745	35.1	895,087	39.3	1,721,604	48.2	634,880	31.6	
10/14 - 10/20	713,288	37.1	450,300	19.8	5,891,940	24.5	785,246	39.0	
10/21 - 10/27	100,804	5.2	488,480	21.4	1,193	0.1	248,054	12.3	
10/28 - END	0	0.0	10,411	0.5	0	0.0	65,938	3.3	
TOTALS	1,921,187	100.0	2,278,619	100.0	2,369,267	100.0	2,012,253	100.0	

\* TONS HARVESTED ARE NOT ADJUSTED FOR FINAL DIRT PERCENTAGE

#### TABLE 13. COMPARATIVE HARVEST SUMMARY, 1985-1999

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#### % SUGAR BY WEEK

DIFFERENCE

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	19	985	19	986	1	987	19	88	19	989	19	90	19	91	19	92
HARVEST PERIOD	%S WK	% S ACCU	% S WK	%S ACCU	% S WK	% S ACCU	%S WK	% S ACCU	%S WK	% S ACCU	%S WK	% S ACCU	%S WK	% S ACCU	%S WK	%S ACCU
START - 10/06	14.66	14.55	15.25	15.36	16.58	15.89	16.12	16.18	14.08	14.47	13.60	13.79	13.78	13.66	16.55	16.55
10/07 - 10/13	16.19	15.36	16.21	15.91	17.36	16.88	17.05	16.97	16.24	15.71	15.86	15.21	15.47	15.09	17.74	17.08
10/14 - 10/20	16.21	15.74	16,46	16.15	17.16	16.98	17.33	17.13	16.45	15.89	16.18	15.50	15.77	15.33	17.76	17.2
10/21 - 10/27	16.57	16.11	16.55	16.21	16.95	16.98	17.52	17.16	16.52	15.93	16.33	15.62	15.65	15.41	17.91	17.53
10/28 - END	16.72	16.20	16.79	16.21	16.85	16.98	17.52	17.16	16.45	15.93	16.14	15.63	15.83	15.42	18.36	17.59
TOTALS		16.20		16.21		16.98		17.16		15.93		15.63	為際	15.42		17.59
Southern of History	19	93	19	994	1	995	19	996	19	97	19	998	19	999	AVE	RAGE
HARVEST PERIOD	%S WK	% S ACCU	% S WK	% S ACCU	% S WK	% S ACCU	%S WK	% S ACCU	% S WK	% S ACCU	% S WK	% S ACCU	%S WK	% S ACCU	%S WK	% S ACCU
START - 10/06	16.29	16.29	14.12	14.12	14.06	14.06	16.31	16.31	15.36	15.36	14.52	14.52	15.98	15.98	15.15	15.14
10/07 - 10/13	17.03	16.83	16.17	15.56	14.78	14.53	17.18	16.84	17.04	16.39	15.65	15.31	16.92	16.59	16.46	16.0
10/14 - 10/20	17.11	16.93	16.53	15.81	15.10	14.93	17.15	16.93	16.93	16.59	16.02	15.49	17.52	16.79	16.65	16.2
10/21 - 10/27	17.46	17.00	16.98	16.14	15.04	15.01	16.89	16.94	17.77	16.61	15.84	15.58	18.85	16.79	16.86	16.3
10/28 - END	17.70	17.00	17.08	16.36	14.58	14.98		-			15.93	15.59		-	16.66	16.2
TOTALS		16.98		16.36		14.98		16.94		16.61		15.59		16.79		16.3
											-					
IN ANT ANT ANT ANT		Sec. Tak		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
% SUGAR ON:	15144 144	ALL CIT OF	1986	1987	1900	1505										
% SUGAR ON: FIRST DAY OF PR FIRST DAY OF FU			1986 14.82 15.80	14.53 17.46	15.51 16.71	12.81 16.30	11.95 15.95	12.86 15.30	14.05 17.83	15.38 16.88	12.80	13.16 * 14.41	13.96 16.90	13.58	13.24 **15.52	13.30

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#### TABLE 14. SUMMARY OF DELIVERIES BY STATION, 1994 - 1999 (HIGHEST SINGLE DAY/STATION)

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記念語がない。	12.5 6	1201	994	Same C	19	610 S.H	995	San		195	6	
STATION	NO. LOADS	RAW TONS	NET TONS	AVE LOAD/ RAW TONS	NO. LOADS	RAW TONS	NET TONS	AVE LOAD/ RAW TONS	NO. LOADS	RAW TONS	NET TONS	AVE LOAD/ RAW TONS
RENVILLE	2,635	59,285	56,032	21.26	2,341	50,870	47,673	21.73	2,683	61,219	58,815	22.81
BENSON												
BIRD ISLAND	1,708	32,285	29,226	17.11	1,489	28,205	26,474	18.94	1,564	31,679	30,550	20.25
BUFFALO LAKE		-		1000					545	12,970	12,636	23.80
CLARA CITY W.	773	18,956	17,951	24.52	881	20,099	18,778	22.81	896	21,628	20,825	24.14
CLARA CITY E.	449	8,127	7,672	18.10	397	6,979	6,574	17.58	457	7,952	7,674	17.40
HECTOR	1,041	20,186	18,850	19.39	1,079	21,194	19,866	19.64	1,016	21,147	20,332	20.81
MAYNARD	443	7,579	7,155	17.11	360	5,904	5,540	16.40	459	7,700	7,335	16.77
MILAN	473	8,701	8,077	18.40	242	4,210	3,907	17.40	385	7.262	6,908	18.86
MURDOCK	881	15,165	14,388	17.21	798	13,263	12,319	16.62	937	16,230	15,581	17.32
RAYMOND											and the second s	
REDWOOD F.	220	3,600	3,417	16.36	220	3,501	3,295	15.91	264	4,525	4,336	17.14
SINGLE DAY TOTAL	8,623	173,884	162,768	20.16	7,807	154,225	144,426	19.76	9,205	192,312	184,992	20.89
HIGHEST DAY (ACTUAL) COOP	8,180	166,102	156,782	20.31	7,358	144,575	136,072	19.65	8,192	169,238	162,738	20.66

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	1253	1	997	and the state		2.1	998		and the second	199	99	(月1992)		ME	AN	a line of
STATION	NO. LOADS	RAW TONS	NET TONS	AVE LOAD/ RAW TONS	NO. LOADS	RAW TONS	NET TONS	AVE LOAD/ RAW TONS	NO. LOADS	RAW TONS	NET TONS	AVE LOAD/ RAW TONS	NO. LOADS	RAW TONS	NET TONS	AVE LOAD/ RAW TONS
RENVILLE	2,827	63,993	59,781	22.64	2,789	65,636	61,539	23.5	2,534	60,211	58,130	23.8	2,635	60,202	56,995	22.6
BENSON				1.000					452	10,650	10,211	23.6	452	10,650	10,211	23.6
BIRD ISLAND	1,447	30,245	28,542	20.90	1,645	35,720	33,808	21.7	1,501	32,833	31,206	21.9	1,559	31,828	29,968	20.1
BUFFALO LAKE	471	10,256	9,831	21.77	608	14,577	13,971	23.9	528	13,117	12,633	24.8	538	12,730	12,268	23.6
CLARA CITY W.	753	17,115	16,583	22.72	987	23,630	22,364	23.9	934	21,250	20,403	22.8	871	20,446	19,484	23.5
CLARA CITY E.	364	6,568	6,297	18.04	535	9,976	9,524	18.6	490	8,695	8,398	17.7	449	8,050	7,690	17.9
HECTOR	892	19,143	17,916	21.46	757	16,508	15,631	21.8	841	17,713	16,756	21.1	938	19,315	18,225	20.7
MAYNARD	461	8,165	7,968	18.12	482	8,704	8,300	18.1	423	7,501	7,265	17.7	438	7,592	7,261	17.4
MILAN	266	5,341	5,002	20.08	323	6,566	6,186	20.3	222	4,541	4,397	20.5	319	6,104	5,746	19.3
MURDOCK	869	14,795	14,042	17.03	819	14,945	14,141	18.2	869	18,729	17,841	21.6	862	15,521	14,719	18.0
RAYMOND	1.11				1		1		552	13,274	12,708	24.0	552	13,274	12,708	24.0
REDWOOD F.	215	3,660	3,540	17.02	310	5,491	5,293	17.7	615	13,721	13,160	22.3	307	5,750	5,507	17.7
SINGLE DAY TOTAL	8,502	178,328	168,305	20.97	9,255	201,753	190,757	21.8	9,961	222,235	213,108	22.3	8,892	187,123	177,393	21.0
HIGHEST DAY (ACTUAL) COOP	8,052	165,705	161,167	20.99	8,330	179,816	170,369	21.6	S,806	195,869	188,724	22.2	8,153	170,218	162,642	20.9

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# SOUTHERN MINNESOTA SUGAR COOPERATIVE

## List of Approved Varieties since 1980

<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	1984
ACH 12 ACH 14 ACH 17 ACH 30 Beta 1237 Beta 1345 Beta 1443 BJ Monofort Holly HH33 Mono-Hy E4 Mono-Hy R1	ACH 14 ACH 151 ACH 30 Beta 1230 Beta 1237 Beta 1345 Beta 1443 BJ Monofort Maribo Ultramono Maribo Ultramono Maribo Unica Mono-Hy M7 Mono-Hy M8 Mono-Hy R1 Mono-Hy X73	ACH 14 ACH 145 ACH 17 Beta 1230 Beta 1237 BJ Monofort Holly HH33 Mono-Hy E4 Mono-Hy M7 Mono-Hy M8 Mono-Hy R1	ACH 14 ACH 30 Beta 1230 BJ Monofort Maribo Ultramono Mono-Hy M7 Mono-Hy M8 Mono-Hy R1	ACH 145 ACH 154 ACH 30 Beta 1230 BJ Monofort KW 3394 Maribo Ultramono Mono-Hy M7 Mono-Hy R1
<u>1985</u>	1986	1987	1988	<u>1988 (cont.)</u>
ACH 145 ACH 154 ACH 30 Beta 1230 BJ Monofort KW 1132 KW 3394 Maribo 401 Maribo Ultramono Mono-Hy M7 Mono-Hy R1	ACH 146 ACH 164 ACH 30 Beta 1230 Beta 6264 BJ 1310 BJ Monofort KW 1132 KW 3265 KW 3265 KW 3394 Maribo 401 Maribo 403 Maribo Ultramono Mono-Hy M7	ACH 164 Beta 1230 Beta 5494 Beta 6264 BJ 1310 BJ Monofort Hilleshog 4046 Hilleshog 5090 Hilleshog 5135 KW 1132 KW 3265 KW 3394 Maribo 403 Maribo Ultramono Mitsui Monohikari Mono-Hy M7 Mono-Hy R103 Mono-Hy R117	ACH 164 ACH 178 ACH 180 ACH 181 Beta 1230 Beta 3614 Beta 6625 BJ 1310 BJ Monofort Hilleshog 4046 Hilleshog 5090 Hilleshog 5135 Hilleshog 8277 KW 1014 KW 1132 KW 3145 KW 3265 KW 3394	KW 6264 Maribo 403 Maribo 411 Maribo Ultramono Mitsui Monohikari Mono-Hy R103

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## SOUTHERN MINNESOTA SUGAR COOPERATIVE

## List of Approved Varieties since 1980

1989	1990	1991	1992	1993
ACH 164	ACH 180	ACH 194	ACH 194	ACH 194
ACH 180	ACH 181	ACH 196	ACH 196	ACH 196
ACH 181	ACH 194	ACH 198	ACH 198	ACH 198
ACH 198	ACH 196	Beta 1238	Beta 1238	Beta 2010
Beta 3614	ACH 198	Beta 2988	Beta 2010	Beta 2988
Beta 6269	Beta 3614	Beta 5657	Beta 2988	Hilleshog 5090
Beta 6625	Beta 6269	Beta 6269	Beta 5657	Hilleshog 5133
Hilleshog 4046	Beta 6625	Beta 6625	Beta 6269	HM 2401
Hilleshog 5090	Hilleshog 4046	Hilleshog 2401	Beta 6625	KW 1119
Hilleshog 5135	Hilleshog 5090	Hilleshog 5090	BJ 1330	KW 1800
KW 1014	Hilleshog 5135	Hilleshog 5135	Hilleshog 5090	KW 2249
KW 3145	HM 2410	KW 2398	Hilleshog 5135	KW 2398
KW 3265	KW 1014	KW 3145	HM 2401	KW 3145
KW 3394	KW 3145	KW 3265	KW 1119	KW 3580
Maribo 403	KW 3265	Maribo 403	KW 2398	KW 6770
Maribo 411	KW 3394	Maribo 875	KW 3145	Maribo 875
Maribo Ultramono	Maribo 403	Maribo Ultramono	KW 3265	Seedex Monohikari
Mitsui Monohikari	Maribo 411	Mitsui Monohikari	Maribo 875	VDH 66140
	Maribo 875		Maribo Ultramono	
	Maribo Ultramono Mitsui Monohikari		Mitsui Monohikari	
1994	1994 (cont.)	1995	1995 (cont.)	
ACH 194	KW 3580	ACH 194	HM 2401	
ACH 196	KW 6770	ACH 196	HM 7036 (Special)	
ACH 198	Maribo 875	ACH 198	KW 1119	
ACH 205 (Special)	Mitsui Monohikari	ACH 205 (Special)	KW 1800	
ACH 302	Seedex SX1004	ACH 302	KW 2249	
ACH 309	VDH H16640	ACH 309	KW 2398	
ACH 311		ACH 311	KW 3291	
Beta 2010		Beta 2010	KW 6770	
Hilleshog 5135		Beta 1492	Maribo 875	
Hill, 7505 (Niagara	)	Beta 3712	Maribo 923	
HM 2401		Hilleshog 5135	Mitsui Monohikari	
KW 1119		Hilleshog 7034	Seedex Laser	
KW 1800		Hilleshog 7514	VDH H66140	
KW 2249 (Blend)		Hilleshog 2418		
KW 2398		Hilleshog Niagra		
KW 3291		Hilleshog Shasta		

# SOUTHERN MINNESOTA SUGAR COOPERATIVE

#### List of Approved Varieties since 1980

1996	1996 (cont.)	1997	1997 (cont.)	1998
ACH 194	KW 6770	ACH 196	KW 2398	ACH 302
ACH 196	Maribo 875	ACH 302	KW 6770	ACH 309
ACH 302	Maribo 923	ACH 309	Maribo 875	Beta 2074
ACH 309	Mitsui Monohikari	Beta 1492	Maribo 923	Beta 3945
Beta 1492	Seedex Laser (100	Beta 6963	Maribo 9363	Beta 5014
Beta 2010	VDH H66140	Beta 1994	SX Laser	Beta 5296
Beta 3712		Beta 2010	VDH 66140	Beta 6863
Beta 6863		Beta 2074		Beta 6904
HM 5135		Beta 5014		HM 7057
HM Niagara (7505)	)	Beta 6904		HM Hector
HM Shasta (2416)		HM 5135		HM Niagra
HM Hector (2418)		HM Hector		HM Resist
KW 1800		HM Niagara		HM Tahoe
KW 2398		HM Shasta		HM Viking
KW 2249 (Blend)		HM Viking		KW 6770
KW 3291		HM Resist		Maribo 9363
				Seedex SX Laser

#### 1999

ACH 302 ACH 309 Beta 3945 Beta 5014 Beta 5296 Beta 6863 Beta 6904 HM 7057 HM Hector HM Resist Seedex SX Laser Van der Have H46109

Year	1445(3)	Recov	erable	10/12/24		Leaf Spot		
	No. of Approved	Sugar/Acre Mean of Approved	Sugar/Ton Mean of Approved	Tons/Acre Mean of Approved	% Sugar Mean of Approved	Rating Mean of Approved	LTM Mean of Approved	
1981 (78-79-80)	15	6,724	264.5	25.7	15.40	4.43	2.18	
1982 (79-80-81)	12	6,282	262.6	23.9	15.50	4.31	2.17	
1983 (80-81-82)	9	7,053	261.9	26.9	15.60	4.84	2.37	
1984 (81-82-83)	9	6,823	253.1	26.9	15.30	4.80	2.50	
985 (82-83-84) 1 986 (83-84-85) 1		7,682	269.7	28.6	15.90	4.87	2.64	
1986 (83-84-85)	14	7,837	280.9	27.9	16.10	4.80	2.41	
1987 (84-85-86)	18	7,764	300.4	25.9	16.70	4.68	1.68	
1988 (85-86-87)	24	8,884	308.7	28.7	16.95	4.93	1.51	
1989 (86-87-88)	19	8,689	318.6	27.2	17.40	4.70	1.47	
1990 (87-88-89)	21	9,078	307.8	29.4	17.10	4.87	1.71	
1991 (88-89-90)	19	7,554	294.1	25.7	16.39	4.56	1.59	
1992 (89-90-91)	21	6,831	276.6	24.8	15.50	4.60	1.60	
1993 (90-91-92)	19	6,943	296.2	23.5	16.30	4.83	1.49	
1994 (91-92-93)	21	5,961	308.8	19.6	16.90	4.80	1.40	
1995 (92-93-94)	29	6,783	323.0	20.9	17.48	5.02	1.32	
1996 (93-94-95)	22	6,259	306.6	20.8	16.79	4.81	1.47	
1997 (94-95-96)	24	7,234	304.6	23.5	16.65	4.52	1.42	
1998 (95-96-97)	19	5,794	291.9	19.75	15.83	4.38	1.24	
1999 (96-97-98)	17	5,606	287.2	19.41	15.44	4.37	1.08	
2000 (97-98-99)	12	5,555	281.0	19.70	15.14	4.19	1.08	

# Table 2.Comparison of Approved Varieties for Southern Minnesota over a<br/>twenty year period.

Table 3.

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SEED	USAGE	PERCE	ENTAGE
	SMSC,1	991 - 19	99

YEAR	SMALL	MEDIUM	LARGE	X-LARGE	MINI	REGULAR	JUMBO	TOTAL
1991	12.37	47.22	19.92	16.27	3.04	1.19		100.00
1992	17.27	31.79	26.15	15.04	8.75	1.00		100.00
1993	17.49	26.02	18.53	22.05	13.31	2.60		100.00
1994	14.90	20.96	12.06	22.97	24.50	3.43		100.00
1995	13.55	13.53	15.67	12.68	37.11	7.45		100.00
1996	3.67	6.79	9.44	4.05	37.80	38.25		100.00
1997	1.20	3.00	2.00	1.30	23.20	45.30	24.00	100.00
1998	1.60	1.60	1.60	1.60	17.50	50.60	30.00	100.00
1999	0.20	0.70	0.40	0.30	17.50	50.60	30.30	100.00
Average	9.14	16.85	11.75	10.70	20.30	22.27	28.10	100.00

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 $\sum_{i=1}^{n} X_i$ 

\* Mini and regular pellets were adjusted to bare seed equivalent basis.

ង Table 4.

#### SEED USAGE POUNDS PLANTED PER ACRE SMSC, 1991 - 1999

YEAR	ACRES PLANTED	ACRES REPLANTED	TOTAL ACRES
1991	82,284	7,600	89,884
1992	87,324	1,000	88,324
1993	101,781	8,814	110,595
1994	111,547	5,048	116,595
1995	109,738	425	110,163
1996	108;783	1,697	110,480
1997	107,715	1,143	108,858
1998	107,746	1,894	109,640
1999	114,232	1,247	112,985
AVERAGE	103,461	3,208	106,392

Entry	Source	Rec/T (lbs)		Rec/A (lbs)		Loss to Mol.		Yield	(T/A)	Sugar %		CLS		Emergence (%)		Tare (%)	
		3 yr avg 9	6 of Mean	3 yr avg	% of Mean	3 yr avg 🖇	6 of Mean	3 yr avg 9	6 of Mean	3 yr avg %	of Mean	3 yr avg 🕅	of Mean	3 yr avg %	of Mean	3 yr avg 9	of Mea
																	No. of Concession, Name of Street, or other
000 APPROVED VAR	ETIES																
			00.04	5	07.111	4.451	107.00	10 02	100.001	4.4 7771	07.56	4.001	100.40	20 A 4			
ACH 302	84	272.36	96.81	5412.82	97.44	1.15	107.28	19.87	100.83	14.77	97.56	4.28	102.12	63.84	113.62	3.02	103.2
ACH 309	116	273.81	97.32	5543.88	99.79	1.15	106.66	20.19	102.47	14.84	97.98	4.07	97.03	61.01	108.57	2.52	86.0
3eta 3945	95	296.09	105.24	5704.70	102.69	1.06	98.29	19.25	97.70	15.86	104.74	4.25	101.25	41.90	74.56	2.87	98.0
ieta 5014	112	284.10	100.98	5268.01	94.83	1.08	100.15	18.54	94.08	15.28	100.91	4.36	103.87	64.79	115.30	2.85	97.4
Beta 5296	117	284.66	101.18	5646.19	101.64	1.10	102.32	19.81	100.56	15.34	101.28	3.73	88.93	45.38	80.75	3.02	103.0
Beta 6863	104	289.94	103.05	5525.36	99.46	1.01	93.64	19.00	96.42	15.51	102.40	4.52	107.68	55.85	99.39	2.87	97.9
3eta 6904	85	287.45	102.17	5521.21	99.39	1.08	100.77	19.11	96.99	15.45	102.05	4.61	109,99	59.91	106.61	3.12	106.0
IM 7057	120	279.66	99,40	5474.82	98.55	1.02	94.88	19,53	99,11	15.00	99.08	3.99	95.13	49.33	87.79	3.16	108.0
M Hector	103	276.90	98.42	5476.90	98.59	1.09	101.39	19.71	100.04	14.93	98.62	4.65	110.78	62.53	111.29	3.08	105.0
IM Resist	88	274.39	97.52	5495.02	98.92	1.06	98.29	19.92	101.12	14.77	97.56	4.16	99.26	63.08	112.27	3.14	107.3
Seedex SX Laser	119	272.91	97.00	5380.23	96.85	1.09	101.70	19.68	99.87	14.74	97.32	3.98	94,97	59.42	105.75	2.83	96.5
an der Have H46109	94	283.95	100.92	6214.17	111.86	1.02	94.63	21.83	110.80	15.22	100.50	3.73	89.01	47.26	84.11	2.65	90.5
		T. 1994 S 2004 F	1990 01999		CONTRACT	18-31.08		2010-027-0	493 mar (200 mar	North State	1-	Longer 1	5045-000		10000000	5311224	
IEAN		281.35	100.00	5555.28	100.00	1.08	100.00	19.70	100.00	15.14	100.00	4.19	100.00	56.19	100.00	2.93	100.0

Table 5. Mean of 3 Year Performance Summary of SMSC Approved and Specialty Varieties 3 year data, 1997-1999.

**Specialty Varieties** 

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ACH 205	101	265.10	93.36	5334.41	85.84	1.11	108.78	20.04	91.80	14,36	94.36	3.93	105.27	62.70	132.68	3.34	125.95
ACH 9744	93	273.16	96.20	5331.90	85.80	1.05	103.54	19.47	89.18	14.72	96.71	4.09	109.55	60.51	128.04	3.90	147.06
Beta 4705 (M705)	89	273.64	96.37	5511.67	88.70	1.12	110.23	20,10	92.09	14.81	97.31	4.99	133.57	40.36	85.40	2.54	95.84
Beta 4880 (M706)	106	274.77	96.77	5683,96	91.47	1.16	114.22	20.59	94.34	14.90	97.89	4.00	107.05	48.21	102.01	2.66	100.36
HM 7073	100	271.04	95,45	5427.81	87.35	1.14	111.91	20.00	91.62	14.69	96.51	4.60	123.21	52.99	112.12	2.82	106.23
Van der Have H68108	80	266.48	93.85	5952.71	95,79	1.19	116.54	22.32	102.26	14.51	95.35	3.70	99.11	51.26	108.46	2.74	103.29

Key:

ACH 205

ACH 9744

Beta 4705

Beta 4880 HM 7073

Holly Rival

VDH H68108

Aphanomyces specialty Aphanomyces specialty Rhizomania specialty Rhizomania/Apanomyces specialty Rhizomania specialty plus moderate aphanomyces tolerance Rhizomania specialty Aphanomyces specialty

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## Table 6. Mean of Two Year Performance Summary of 2000 SMSC Approved Varieties Varieties, 1998-1999.

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	Rec/T	(lbs)	Rec/	A (Ibs)	Loss	to Mol.	Yield	d (T/A)	Sug	ar %	C	LS	Emerge	nce (%)
Variety	2 yr avg	% of Mean	2 yr avg 9	i of Mear										
2000 APPROVED VAR	FTIES													
														1000000000
ACH 302	270.74	95.88	5903.13	97.81	1.26	108.73	21.74	101.90	14.80	95,87	4.27	102.66	70,99	110.3
ACH 309	276.71	97.99	6144.72	101.81	1.23	106.14	22.18	103,96	15.07	98.61	4.00	96.28	67.47	104.9
Bela 3945	297.12	105.22	6180.95	102.41	1.14	97.94	20.77	97.35	15.99	104.66	4.17	100.25	50,77	78.94
Bela 5014	285.05	100.95	5790.22	95.94	1.17	100.53	20.32	95.24	15.42	100.90	4.36	104.94	73,15	113.74
Beta 5296	286.56	101.48	6149.41	101.89	1.17	100.96	21.47	100.64	15.50	101.46	3.54	85.21	54.07	84.07
Beta 6869	292.31	103.52	5935.93	98.35	1.08	92.77	20.27	95.01	15.70	102.73	4.49	108.07	60.63	94.20
Beta 6904	289.40	102.49	5990.14	99.25	1.17	100.53	20.61	96.63	15.64	102.34	4.66	112.17	66.24	103.00
HM 7057	280.22	99.24	5833,58	96,66	1.09	94.06	20.76	97.33	15,11	98.87	3.89	93.63	57.74	89.78
HM Hector	277.39	98.24	5772.35	95.64	1,19	102.26	20.73	97.19	15.05	98.51	4.55	109,52	70.27	109.26
HM Resist	274.56	97.23	5959.46	98.74	1,15	98.81	21.57	101.10	14,87	97.33	4.21	101.21	70.97	110.35
Seedex SX Laser	272.66	96.56	5836.53	96.71	1.19	102.26	21.37	100.17	14.82	96.97	3.94	94.71	65.13	101.27
Van der Have H46109	285.73	101.19	6926.34	114.77	1,10	95.01	24.20	113.48	15.39	100.75	3,80	91.34		
			COOF 00						15.00		4.15		~ ~	
MEAN	282.37	100.00	6035.23	100.00	1.16	100.00	21.33	100.00	15,28	100.00	4.15	100.00	64,31	100.00

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#### **2 YEAR TEST MARKET VARIETIES**

	Beta 6850	298.83	105.83	6421.08	106.39	1.10	95.11	21.51	100.85	16.04	105.00	4.46	107.35
ŝ	Beta 5216 HM RH5	284.00	100.58	6108.66	101.22	1.17	100.96	21.55	101.03	15.38	100.67	3.73	89.78
01	HM RH5	284,90	100.90	6065.08	100.49	1.06	91.15	21.34	100.05	15.31	100.19	3.73	89.78

### SPECIALTY

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ACH 205	256.49	94.38	5785.82	95.87	1.20	103.12	21.61	101.32	14.52	95.04	3.85	92.67	69.82	108.56
ACH 9744	272.05	96.35	5719.42	94.77	1.14	98.37	20.93	98.10	14.75	96.51	4.06	97.60	70.05	108,92
Beta 4705	275.03	97.40	5838,34	96.74	1,21	104.17	21.16	99,22	14.96	97.93	4.97	119.63	1.000	
Beta 4880	276.55	97.94	6174.98	102.32	1.26	108.99	22.20	104.08	15.08	98.74	4.08	98.20		
Beta 4811	230.05	99.18	6659,85	110.35	1.11	95.88	23.75	111.34	15.12	98.98	4,66	112.17		
HM 7073	270.99	95.97	5710.49	94.62	1.24	107.24	21.03	98.58	14,79	96.78	4,65	111.92		
HM 7083	256.75	94.47	5841.50	96.79	1.27	109.59	21.93	102.82	14.57	95.37	4.60	110.72		
Holly Rival	254.79	90.23	5491.74	90.99	1.35	116.83	21.43	100.45	14.09	92.20	4.13	99.41		
Van der Have H68108	256.67	94.44	6541,55	108.39	1.30	112.48	24.48	114.76	14.63	95.77	3.69	88.70		

Key:	ACH 205	Aphanomyces specialty
	ACH 9744	Aphanomyces specialty
	Beta 5216	Two year test market only
	Beta 4705	Rhizomania specially
	Beta 4880	Rhizomania/Apanomyces specialty
	Beta 4811	Rhizomania/Apanomyces specialty
	Beta 6850	Moderate aphanomyces tolerance
	HM RH5	Rhizoctonia specialty
	HM 7073	Rhizomania specialty plus moderate aphanomyces tolerance
	HM 7083	Rhizomania specialty
	Holy Rival	Rhizomania specialty
	VDH H68108	Aphanomyces specialty

	Rec/T (lbs)	Rec/A (lbs)	Loss to Mol.	Yield (T/A)	Sugar %	CLS	Emergence (%)
Variety	1 yr avg % of Mean						

2000 APPROVED VARIETIES

ACH 302	278.63	96.01	6465.22	99.58	1.28	110.14	23.18	103.60	15.22	97.11	4.42	105.51	76.24	108.17
ACH 309	281.20	96.90	6341.26	97.67	1.24	106.70	22.58	100.92	15,30	97.62	4.05	96.68	72.79	103.28
Beta 3945	308.08	106.16	6713.50	103.40	1.13	97.23	21.77	97.30	16,53	105.47	3.90	93.09	64.54	91.57
Beta 5014	292.86	100.91	6217.87	95.77	1.17	100.68	21.26	95.02	15,81	100.88	4.36	104.08	75.33	106.88
Beta 5296	292.48	100.78	6134.76	94.49	1.15	98.96	20.99	93.81	15.77	100.62	3.57	85.22	72.79	103.28
Beta 6863	302.31	104.17	6100.79	93.97	1.08	92.93	20.18	90.19	16.20	103.36	4.42	105,51	60.55	85.91
Beta 6904	299.39	103.16	6491.38	99.98	1.12	96.37	21.68	95.89	16.09	102.66	4.70	112.19	68.73	97.51
HM 7057	286.31	98,66	6159.76	94.87	1.12	96.37	21.49	96.04	15.44	98.51	3.86	92.14	66.61	94.51
HM Hector	287.73	99.15	6235.59	96.04	1.17	100.68	21.64	96.72	15.56	99.28	4.41	105,27	73.11	103.73
HM Resist	285.62	98.42	6748.85	103.95	1.15	98.96	23.63	105.61	15.43	98,45	4.01	95.72	77.13	109.43
Seedex SX Laser	270.82	93.32	5948.30	91.62	1.19	102.40	21.94	98.06	14.73	93.98	3,82	91.18	73.14	103.77
Van der Have H46109	290.00	99.93	7083.17	109.10	1.13	97.23	24.43	109.18	15.63	99,73	3.70	88.32	64.82	91.97
MEAN	290.21	100.00	6492.57	100.00	1.16	100.00	22.38	100.00	15.67	100,00	4.19	100.00	70,48	100.00

#### TEST MARKET VARIETIES

	HM 7089	292.22	100.69 7041.65	108.46	1.08	93.06	24.08	107.62	15.69	100.11	4.31	102.88
	Beta 6850	301.90	104.03 6939.37	106.88	1.10	94.80	23.11	103.30	16.20	103.35	3.08	73.43
30	Beta M5216	282.81	97.45 5849.32	90.09	1.19	102.62	20.77	92.81	15.34	97.88	4.03	96.28
•,	HM RH5	287.65	99.12 6269.97	95.57	1.09	93.93	21.95	98.12	15.48	98.77	3.84	91.62

Specialty varieties

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ACH 205	272.83	94.01	5999.96	92,41	1.19	102.40	21.92	97.97	14.83	94,62	3.80	90.71	52.68	74.74
ACH 9744	273.92	94.39	6094.96	93.88	1.16	99.82	22.16	99.04	14.86	94.81	3.99	95.24	63.23	89.71
Beta 4705	286.07	98.57	6362.98	98.00	1.23	105.84	22.25	99,44	15.54	99,15	4.83	115.29	40.36	57.26
Beta 4880	282.31	97.28	6492.55	100.00	1.26	108,42	22.92	102.44	15.37	98.07	4.17	99.54	48.21	68.40
Beta 4811	280.06	96.50	6363.70	98.02	1.15	98.96	22.73	101.59	15.16	96.73	4.73	112.91	57.01	80.89
HM 7073	276.31	95.21	5800.18	89.34	1.25	107.56	20.99	93.81	15,06	96.09	4.66	111.24	52.99	75.18
HM 7083	280.33	96,60	6297.89	97.00	1.20	103.49	22.64	101.18	15.22	97.11	3.59	85.63		0.00
Holly Rival	260.61	89.80	5586.07	86.04	1.36	117.03	21.40	95.64	14.39	91.81	4.10	97.87	48.01	68.12
Van der Have H68108	269.41	92.83	6622.19	102.00	1.30	111.86	24.54	109.68	14.77	94.24	3.74	89.28	51.26	72.73

Key:

ACH 205	Aphanomyces specialty
ACH 9744	Aphanomyces specialty
Beta 5216	Two year test market only
Beta 4705	Rhizomania specialty
Beta 4880	Rhizomania/Apanomyces specialty
Beta 4811	Rhizomania/Apanomyces specialty
Beta 6850	Moderate aphanomyces tolerance
Beta 7089	One year test market only
HM RH5	Rhizoctonia specialty
HM 7073	Rhizomania specially plus moderate aphanomyces tolerance
HM 7083	Rhizomania specialty
Holly Rival	Rhizomania specialty
VDH H68108	Aphanomyces specialty

			1999 R	atings					
		R1*		Root Ind	ex**	2 Yr N	lean	1998	1998
Code	Description	Rating %	Chk @	Rating %	Chk @	R1*	Index**	R1*	Index**
577 Beta 2012	LL(Aph)	1.75	62	7.08	94	2.4	6.0	3.0	4.9
529 Beta 3945		2.42	86	7.25	96		202	1121	00
616 Beta 5014		2.33	83	7.00	93				
517 Beta 5216		2.08	74	7.17	95	2.9	6.5	3.7	5.8
555 Beta 5296		2.17	77	7.33	97	3.2	6.1	4.2	4.9
543 Beta 6863		2.67	95	7.33	97				
569 Beta 6904		2.42	86	7.25	96	3.2	6.7	3.9	6.1
562 Beta M701		1.92	68	6.75	90	2.8	5.6	3.7	4.4
611 Beta M703		1.83	65	6.83	91	3.1	6.1	4.3	5.4
	(Rzm-Aph Spec)	1.92	68	6.83	91	3.4	6.5	4.9	6.2
	(Rzm-Aph Spec)	1.75	62	6.67	89	2.8	5.3	3.8	4.0
595 Beta M813	St	1.83	65	6.92	92	2.9	5.5	4.0	4.1
581 Beta M814		2.42	86	7.25	96	3.0	6.1	3.6	5.0
549 Beta M815		2.42	86	7.00	93	3.3	5.8	4.2	4.6
	6(Rzm-Aph Spec)	2.92	104	7.67	102	0.0	0.0		
	)(Rzm-Aph Spec)	2.17	77	6.75	90				
563 Beta M931		2.17	77	6.75	90				
612 Beta M932		1.92	68	6.67	89				
602 Crystal 20		1.58	56	6.83	91	2.4	5.7	3.3	4.5
548 Crystal 30		2.00	71	6.92	92	3.1	6.3	4.1	5.6
507 Crystal 30	and the second se	2.00	71	7.08	94	2.8	6.2	3.5	5.3
621 Crystal 55		1.58	56	6.42	85	2.2	5.3	2.8	4.1
536 Crystal 92		1.58	56	6.33	84	far de	0.0	2.0	4.1
503 Crystal 92		2.50	89	7.00	93				
576 Crystal 95		1.83	65	6.50	86				
515 Crystal 95	AN A	1.75	62	6.83	91				
618 Crystal 97		1.50	53	6.50	86	2.4	5.2	3.3	3.8
598 Crystal 97		1.92	68	7.25	96	2.4	0.2	0.0	0.0
580 Crystal 97		1.42	50	7.00	93				30
556 Crystal 99		2.25	80	7.25	96				
558 HM 107RF	사람에 소망	3.75	133	8.00	106				
540 HM 1642	1(April)	3.17	113	7.75	103				
	Aph-Rzm Spec)	2.83	101	7.50	100				
		3.17	113	7.50	100				
565 HM 7083(I 522 HM 7089(/		2.92	104	7.58	101				
533 HM 7521	(indu-	3.33	119	7.83	104				
	ab)	2.00	71	6.42	85				
625 HM E26(A		2.00	77	7.08	94				
600 HM E38(A		3.00	107	7.58	101				
508 HM Hector			59	7.17	95	2.8	6.3	4.0	5.5
570 HM Resist	(Apri Spec)	1.67	29	1.11	90	2.0	0.0	4.0	

## Table 8. SOUTHERN MINNESOTA COMMERICAL, SEMI COMMERCIAL & TRANSGENIC VARIETIES 1999 Aphanomyces Readings for Coded Test Entries

37

2.33

521 HM RH5(Rhizoc Spec)

7.08

83

			1999 R	atings					
		R1*		Root Ind	ex**	2 Yr M	lean	1998	1998
Code Descrip	tion	Rating %	Chk @	Rating %	Chk @	R1*	Index**	R1*	Index**
623 HM Viking		2.17	77	7.17	95				
532 Holly HH98APH03(Aph)		1.58	56	6.58	87	2.0	4.8	2.5	3.0
552 Holly HH98HX806(Aph)		2.67	95	7.33	97				
579 Holly HH98HX829(Aph)		2.00	71	7.08	94				
604 Holly HH99HX941(Aph)		2.25	80	6.75	90				
597 Holly HH99HX942(Aph)		2.58	92	6.67	89				
620 Holly HH99HX957(Aph)		1.83	65	6.50	86				
539 Holly HH99HX958(Aph)		1.83	65	7.00	93				
574 Seedex SX1018(Aph)		1.67	59	6.67	89				
564 Van der Have H46109(Aph S	ipec)	2.00	71	6.83	91	2.8	5.8	3.6	4.7
545 Van der Have H46140(Aph S	Spec)	2.08	74	7.17	95				
599 Van der Have H46175(Aph-F	Izm Spec)	2.58	92	6,67	89				
587 Van der Have H46177(46109	RR)(Rzm-Aph Spec)	2.00	71	7.08	94				
530 Van der Have H68108(Aph S	Spec)	1.42	50	6.58	87	2.0	4.9	2.5	3.2
568 Van der Have H68151(Aph S	pec)	2.33	83	6.92	92	3.2	5.9	4.0	4.8
528 Van der Have H68152(Rzm-	Aph Spec)	2.17	77	6.58	87	2.5	4.9	2.9	3.3
571 Van der Have H68181(Aph S	spec)	2.58	92	7.17	95				
Check Varieties									
126 Aph. Res. Variety		1.25	44	6.67	89	2.7	5.6	4.2	4.6
130 Aph. Res. Variety		1.58	56	6.58	87				
127 RRV Mod. Susceptible Variet	ly .	3.58	127	8.17	108	4.7	7.7	5.8	7.2
131 RRV Mod. Susceptible Variet	ly .	3.67	130	8.17	108				
128 Very Susceptible Variety		4.58	163	8.50	113	5.2	8.0	5.8	7,5
132 Very Susceptible Variety		4.33	154	8.42	112				
129 USDA Resistant		1.83	65	6.75	90	2.4	5.4	3.0	4.1
134 USDA Resistant		1.67	59	7.00	93				
Approval Limit for 2000 +		2.08				3.08		4.11	
Trial Me	an	2.51	89	7.27	97				
CV		22.1%		6.3%					
LSD .0	5	0.63	23	0.52	7				

## Table 8cont.. SOUTHERN MINNESOTA COMMERICAL, SEMI COMMERCIAL & TRANSGENIC VARIETIES 1999 Aphanomyces Readings for Coded Test Entries

\* Lower numbers indicate better Aphanomyces resistance (1=Healthy, 9=Dead). Average of ratings from 7/30 and 9/15. Factors in plant stand and plant health.

\*\* Lower number indicate better Aphanomyces resistance (1=High number of healthy plants, 9=Few survivors and

severe damage). Ratings taken 10/15. Factors include number and condition of survivors.

@ % Check is the mean of the two resistant and two susceptible check varieties.

+ Approval Limit effective in 2000 (110% of mean of Beta 6904, Crystal 205 and HM Resist).

Table 9

## 1999 Cercospora Readings for Coded Test Entries Betaseed Nursery - Shakopee, MN

		Averag	e Rating a	t Each Da	409		1000		ata Adjusted k 3 Yr	1998 1998	1
ode Description	7/28**	8/6	8/10	8/13	8/17***	8/24	1999 Mean	2 Yr Mean	Mean	Mean	M
					1.1.1		5.27	5.08	4.91	4.89	4
B33 Beta 2012 LL(Aph)	2.28	3.92	5.07	6.45 6.05	6.70 6.54	7.19	5.08	4.97	4.95	4.87	
903 Beta 2084	2.21	3.75	5.22	6.21	6.54	6.86	5.16	5.02	5.02	4.88	
853 Beta 2086	2.21	3.92	4.24	5.39	5.56	6.37	4.48	4.58	4.79	4.69	
810 Beta 2276(Blend)	2.04	3.20	4.58	5.72	6.05	6.37	4.78	4.61	4.80	4.44	
785 Beta 2286(Blend) 754 Beta 3555(Blend)	2.37	3.75	4.90	6.05	6.05	6.37	4.91	4.94	5.00	4.97	
754 Beta 3555(Blend) 729 Beta 3636	2.40	3.65	4.81	5.77	6.19	6.61	4.90	4,75	4.77	4.59	
888 Beta 3712	2.28	3.75	5.07	6.29	6.70	6.86	5.16	5.05	5.16	4.95	
825 Beta 3777(X751)(Aph)	2.13	3.26	4.41	5.56	6.05	6.54	4.66	4.49	4.57	4.32	
703 Beta 3843	2.45	3.92	4.90	5.72	5.72	6.21	4.82	4.83	4.89	4.83	
737 Beta 3857(X857)(Aph Spec)	2.21	3.43	4.41	5.56	5.72	5.88	4.53	4.64		4.76	
780 Beta 3945(Aph)	1.64	2.62	3.43	4.82	5.39	5.56	3.90	4.17	4.25	4.43	
872 Beta 4689(Rhizoc)(NC)	2.04	3.26	4.41	5.39	6.05	6.37	4.59				
905 Beta 4705(M705)(Rzm Spec)	2.13	3.60	4.73	5.80	6.05	6.70	4.83	4.97	4.99	5,11	
838 Beta 5014(Aph)	1.88	3.11	4.41	5.47	5.56	5.72	4.35	4.36	4.36	4.36	
745 Beta 5216(Aph)	1.88	2.62	3.26	3.84	4.24	4.73	3.43	3.73		4.03	
845 Beta 5296(Aph)	1.96	2.94	3.43	4.09	4.41	4.58	3.57	3.54	3.73	3.51	
867 Beta 6376	2.21	3.60	4.73	5.80	6.37	6.37	4.85	4.82	4,79	4.78	
768 Beta 6447(X705)	2.37	3.75	4.41	5.56	6.05	6.54	4.78	4.94	4.92	5.09	3
724 Beta 6863(Aph)	2.13	3.43	4.41	5.15	5.56	5.88	4.42	4,49	4.52	4.56	
824 Beta 6904(Aph)	2.28	3.11	4.58	5.80	6.21	6.21	4.70	4.66	4.61	4.62	ŝ
801 Beta M701(Aph)(NC)	2.21	3,11	4.41	5.72	5.88	6.05	4.55	4,59	4.59	4.63	
778 Beta M703(Ellend)(Aph)(NC)	2.21	3.60	4.58	5.96	6.37	6,54	4.87	4,78	4.71	4.68	
877 Beta M706(Rzm-Aph Spec)(NC)	1.96	2.94	3.92	5.07	5.22	5.88	4.17	4.08	4.00	3.99	
841 Beta M811(Rzm-Aph Spec)(NC)	2.37	3.75	4.58	5.64	5.88	6.21 6.70	4.73	4.65		4.88	
741 Beta M813(Rzm&Aph)	2.28	3.75	4.90	5.88 5.22	6.05 5.72	5.88	4.31	4.46		4.60	
794 Beta M814(Aph)	2.04	2.62	4.09	4.58	4.90	5.07	3.75	3.75		3.75	
893 Beta M815(Aph)	2.28	3.75	4.58	5.47	5.39	6.05	4.59	3.10		219	
706 Beta M846(Rzm-Aph Spec)(NC) 763 Beta M892 LL(Aph)	2.13	3.43	4.41	5.56	5.56	6.05	4.52	4.34		4.16	
818 Beta M930(Rzm-Aph Spec)(NC)	2.28	3,75	4.41	5.22	5.22	5.56	4.41	4.04		4.10	
885 Beta M931(Aph)	1.88	2.77	3.60	4.41	4.73	5.39	3.80				
786 Beta M932(Aph)	1.88	2.28	3.60	4.24	4.58	5.22	3.64				
858 Beta X704(Aph)(NC)	2.13	3.43	4.73	5.39	5.88	6.37	4.66	4.59	4.52	4.53	
830 Beta X708(NC)	2.13	3.75	4.90	6.05	6.85	5.54	5.04	5.00	4.99	4.97	- 8
900 Beta X709(Blend)	2.04	3.92	4.90	5.96	6.70	6.54	5.01	4.92	4.95	4.83	
850 Beta X810	2.45	4.24	5.39	6.78	6.86	6.86	5.43	5.19		4.94	
812 Beta X856(Aph Spec)(NC)	2.21	3.60	4.41	5.96	6.37	6.70	4.87	4.80		4,73	
712 Beta X860	2.62	3.75	5.07	5.96	6.37	6.54	5.05	4.96		4.88	
750 Beta X920	2.21	3.60	4.90	6.21	6.54	6.86	5.05				
870 Beta X921	2.04	3.60	4.73	5.72	6.05	6.37	4.75				
829 Beta X922(Rzm)	2.77	4.09	5.22	6.37	6.70	7.03	5.36				
797 Beta X923	2.53	3.11	4.41	5.72	5.88	6.05	4.62				
772 Beta X924(Rzm)	2.45	3.92	5.07	6.05	6.05	6.70	5.04				
896 Beta X925	2.04	3.43	4.58	5.39	5.88	6.05	4.56				
807 Beta X926	2.37	3.75	4.90	6.37	6.70	7.03	5.19				
720 Beta X927	2.37	3.75	5.07	6.21	6.37	6.54	5.05				
752 Beta X928	2.62	3.75	4.73	5.72	6.05	6.86	4.95				
851 Beta X962(Aph)	2.04	3.26	4.09	5.31	5.88	6.54	4.52				
883 Beta X963(Aph Spec)(NC)	2.28	3.75	4.90	6.05	5.72	5.88	4.76				
899 Croplan CL101	2.70	4.09	5.39	6.05	6.21	6.86	5.22	5.17	5.14	5.12	
849 Croplan CL102	2.28	4.09	5.22	6.13	6.37	7.03	5.19	5.14	5.03	5.10	
751 Croplan CL103	2.37	4.09	5.07	6.37	6.70	7.03	5.27	5:09	5.10	4.91	
715 Croplan CL105	2.70	4.41	5.07	5.96	6,37	6.37	5.15				
747 Croplan CL106	2.37	3.92	4.90	5.72	6.21	6.05	4.86	A 110	2.02	0.00	
790 Crystal 205(Aph Spec)	1.88	2.62	3.60	4.73	4.73	5.22	3.80	3.85	3.93	3.90	
702 Crystal 222	2.04	3.26	3.75	5.31	5.72	6.21	4.38	4.24	4.27	4.09	
876 Crystal 261	2.55	4.30 3.43	5.44	6.45 5.15	7,41	7.05 5.88	5.53 4.42	5.06	5.18 4.28	4.59	
839 Crystal 302(Aph) 892 Crystal 309(Aph)	1.95	3.43	3.92	4.82	5.72 5.22	5.22	4.05	4.00	4.07	3.95	
770 Crystal 555(Aph Spec)	1.88	2.77	3.60	4.02	4.73	5.72	3.81	3.75	4.07	3.69	
749 Crystal 814(X814)	2.11	3.66	4.81	6.07	6.77	6.61	5.01	5.05		5.10	
713 Crystal 615(X815)	2.62	4.24	5.39	6.54	6.86	7.19	5.47	5.36		5.24	
740 Crystal 817(X817)	2.45	3.75	4.58	6.05	6.86	5.70	5.07	4,95		4.83	
789 Crystal 921(Aph)	1.88	2.62	3.26	4.41	4.90	5.22	3.72	100		1.00	
B14 Crystal 922(Rzm-Aph Spec)(NC)	1.88	2.62	3.43	4.33	4.90	4.24	3.57				
840 Crystal 951	2.62	3.92	4.90	6.13	6.54	7.03	5.19				
771 Crystal 952(Aph)	2.02	3.43	4.58	5.72	6.54	6.54	4.80				
711 Crystal 953(Aph-Rzm Spec)(NC)	2.37	3.92	5.39	6.45	6.70	6.86	5.28				
B73 Crystal 954	2.13	3.26	4.41	5.64	6.54	6.70	4.78				
764 Crystal 955	2.70	3.92	4.90	5.04	6.54	6.54	5.14				

Table 9

### 1999 Cercospora Readings for Coded Test Entries Betaseed Nursery - Shakopee, MN

97.40

	Detaset	a Nursery - Shai		e Rating a	Each De	tui *			41.0	1 A.C. 1	55 Equivaler	
ode	Description	7/28**	Averag 8/6	e Kating a 8/10	8/13	8/17***	8/24	1999 Mean	2 Yr Mean	a Adjusted to 3 Yr Mean	1998 Mean	19 Me
182 Crystal 957	and the second for the second s	1.96	3.11	4.41	5.22	5.88	6.21	4.46				1.1.1
81 Crystal 958		2.21	3.75	4.73	5.88	6.05	6.86	4.91				
35 Crystal 959		2.21	3.60	4.90	5.96	6.54	6.70	4.98				
46 Crystal 960 (Aph)(N	CI	1.96	3.11	4.24	5.22	5.72	5.72	4.33				
65 Crystal 9603(Aph)	-	1.96	2.94	3.92	4.98	5.55	5.88	4.21	4.39	4.45	4.57	4
22 Crystal 9720(Aph S	oec)	2.04	3.11	4.09	4.90	5.22	5.56	4.16	4.15	4.12	4.15	- 34
92 Crystal 9744(Aph S		1.79	2.77	4.09	4.82	5.22	5.22	3.99	4.05	4.09	4.12	- 4
87 Crystal 977 LL(Aph		2.45	4.24	5.22	6.21	6.86	6.86	5.31	4.99	4.00	1.14	
84 Crystal 979 LL(Aph		1.95	3.43	4.24	5.47	5.88	5.88	4.48				
57 Crystal 999(Aph)		2.37	3.60	4.58	5.80	6.05	6.70	4.85				
96 HM 107 RR		2.21	3.43	4.73	5.47	5.88	6.37	4.69	4.73		4.78	
55 HM 110 RR		221	3.60	4.73	5.80	6.05	6.54	4.82	4.89		4.96	
59 HM 119 RR		1.95	2.62	3.75	4.73	5.07	5.88	4.00	4.63		4.29	
3 HM 120 RR		2.53	3.75	5.07	5.88	5.88	6.54	4.94				
44 HM 121 RR		1.64	2.62	3.11	4.17	4.58	4.73	3.47				
		3.02	4.90	5.88	6.54	6.86	6.37	5.60				
69 HM 1642									4.55			
20 HM 1643		2.28	3.75	4.58	5.88	5.56	5.56	4.61	4.52		4.44	
82 HM 1645(Rzm)		1.47	2.62	3.75	4.58	5.07	5.07	3.75				
98 HM 1646(Rzm)(NC		2.04	3.11	4.58	5.56	5.88	6.54	4.62	10.020			
04 HM 7054		1.72	3.25	4.24	5.22	5.72	6.05	4.37	4.48	4.42	4.59	
52 HM 7054 RR		1.88	3.43	4.41	5.56	5.72	5.72	4.45				
14 HM 7057 RR(Aph)		2.04	2.77	3.92	5.07	5.39	5.56	4.13	2020	222		
12 HM 7057(Aph Spec	)	1.88	2.77	3.92	4,66	4.90	5.07	3.86	3.89	3.99	3.92	
12 HM 7063(NC)	128	2.04	3.43	4.24	5.56	6.37	6.86	4.75	4.84	4.80	4.93	
90 HM 7069(Cougar)(1	IC)	2.77	4.58	5.88	6.78	7.03	7.52	5.76	5.40	5.27	5.03	
53 HM 7073		1.96	3.43	4.09	5,56	6.37	6.54	4.66	4.65	4.60	4.64	
75 HM 7073 RR(Rzm-	kph)	2.13	3.60	4.58	5.64	6.21	6.86	4.83				
28 HM 7078		2.37	4.09	5.39	6.37	7.19	7.03	5.40	5.22		5.04	
2 HM 7083(Rzm)		1.88	3.11	4.24	5,31	6.05	6.54	4.52	4.60		4.68	
05 HM 7089(Aph)		1.96	3.26	4.09	5.15	5.39	6.05	4.31	4.54		4.77	
7 HM 7090(Rzm)		2.77	4.24	5.39	5.88	6.21	6.70	5.20				
0 HM 7091		1.96	3.11	4.24	5.72	6.05	6.70	4.63				
38 HM 7092		2.53	3.60	4.58	5.47	5.88	6.37	4.73				
04 HM 7093		2.28	4.24	5.39	6.45	6.54	6.54	5.24				
27 HM 7094		2.13	3.26	4.73	5.72	5.88	6.70	4.73				
73 HM 7095		2.04	3.60	4.58	5.64	6.37	6.70	4.81				
39 HM 7097		2.13	3.11	4.41	5.22	5.56	6.70	4.52				
08 HM 7098		2.04	3.43	4.41	5.22	5.39	5.72	4.37				
55 HM 7099		2.13	3.43	4.73	5.64	5.72	6.21	4.65				
88 HM 7100		1.96	2.77	3.92	5.22	5.72	6.21	4.30				
25 HM 7101		2.13	3.11	4.24	5.22	5.72	6.37	4.47				
76 HM 7521		2.37	3.92	4.90	5.47	5.88	6.21	4.79				
36 HM 7522		2.28	3.75	4.90	5.72	6.05	6.54	4.87				
		2.77	4.09	5.22	6.13	6.37	6.54	5.19				
18 HM 7523		2.45	3.92	5.07	5.72	6.37	6.70	5.04				
93 HM 7524 21 HM 8277			4.09		6.13	6.86	7.03	5.31	5.16	5.11	5.01	
		2.53		5.22					5.49	3.3.3	5.33	
1 HM 8277 RR		2.53	4.24	5.56	6.70	7.35	7.52	5.65	5.37	5.26	4.92	
54 HM Agate		2.53	4.58	5,56	6.94	7.68			2.37	0.20	4.72	
44 HM Agate RR		2.35	4.93	5.65	6.41	7.11	7.36	5.64	101	4.00	4.70	
07 HM Blazer		2.21	3.75	5.07	6.13	6.70	6.86	5.12	4.94	4.86	4.76	
34 HM Blazer RR		2.62	3.92	5.22	6.29	6.86	6.54	5.24				
91 HM E26(Aph)		1.39	2.28	2.94	3.60	4.09	4.24	3.09				
17 HM E38(Aph)		1.88	2.62	3.11	4.41	4.58	4.90	3.58	101	101	4.10	
86 HM Empire		2.45	4.09	5,39	6.37	7.03	7.19	5.42	4.91	4.94	4.40	
05 HM Glacier		2.37	3.92	5.22	6.37	7.52	7.35	5.46	5.36	5.23	5.25	
50 HM Hector		2.04	3.11	4.58	5.47	5.22	6.05	4.41	4.55	4.65	4.69	
31 HM Horizon		2.37	3.92	4.90	6.05	6.54	6.70	5.08	5.11	5.07	5.15	- 1
16 HM Horizon RR	11/10/17	2.28	3.92	5.07	6.45	7.35	7.68	5.46				
35 HM Resist RR( Aph		2.13	3.43	4.41	5,47	5.72	6.70	4,64	100000	1336	201	
51 HM Resist(Aph Spe		1.96	2,77	3.75	4,90	5.22	5,39	4.01	4.20	4.16	4,40	9
99 HM RH3 RR(Rhizod	)	1.90	3.13	3.59	4.55	4.84	5.80	3.97	4.07	7,485	4.17	
13 HM RH3(Rhizoc)		1.96	2.62	3,92	5.22	5.39	5.72	4.14	4.13	4.24	4.12	- 8
43 HM RH5(Rhizoc Sp		1.79	2.45	3,60	4.33	5.07	5.72	3.82	3.73		3.64	
58 HM Shasta		2.70	4.09	5.07	6.37	7.19	7,19	5.43	5.18	5.04	4.93	- 8
54 HM Supreme		1.96	3.60	4.58	4.98	5.22	5.39	4.28	4.24	4.42	4.19	- 1
37 HM Valley		2.37	4.24	5.56	6.21	6.86	7.19	5.40	5.12	5.18	4.84	1
38 HM Valley RR		2.86	4.73	5.56	6.54	7.03	7.52	5.71				
22 HM Viking		1.88	3.43	4.09	5,47	5.72	5.88	4.41	4.48	4.53	4.55	
		2.04	3.26	4.41	5.56	5.88	6.05	4.54	4.24	4.33	3.95	- 1
	Canal/M/	1.72	2.28	3.26	4.09	4.24	4.90	3.42	3.53	4.00	3.63	
		1.14	4.40	0.40	4,00	4.64	1.00	0.46	0.00		0.00	
66 HM Yukon 59 Holly 98APH03(Aph 57 Holly 98HX806(Aph		2.13	3.26	4.41	4.98	5.07	5.39	4.21	4.60		5.00	

Table 9

## 1999 Cercospora Readings for Coded Test Entries

		Nursery - Shal		e Rating a	Each Da	ste *		1.00		ata Adjusted to	55 Equivaler	
	Description	7/28**	8/6	8/10	8/13	8/17***	8/24	1999 Mean	2 Yr Mean	3 Yr Mean	1998 Mean	19 M
ode	Description					6.2		12.23		HIGGI	1000	
Contraction of the second second	(29(Aph Spec)(NC)	1.96	2.77	3.92	4.49	4.90	5.22	3.88	3.68		3.48	
91 Holly 99HX9		2.45	3.60	4.58	5.47	5.88	6.05	4.67				
71 Holly 99HX9		2.13	3.26	4.24	4.82	4.73	5.39	4.10				
17 Holly 99HX9	33(Rzm Spec)(NC)	2.21	3.75	4.90	5.88	6.37	7.03	5.02				
23 Holly 99HX9		2.45	3.75	4.73	6.13	6.37	6.70	5.03				
53 Holly 99HX9	40	1.88	2.94	3.92	4.90	5.07	5.56	4.05				
83 Holly 99HX9	41(Aph Spec)(NC)	2.62	3.92	5.39	6.45	6.86	6.86	5.35				
78 Holly 99HX9	42(Aph Spec)(NC)	1.96	2.62	3.43	4.24	4.24	4,41	3.49				
32 Holly 99HX9	57(Aph Spec)(NC)	1.96	3.26	4.09	5.07	5.39	5.72	4.25				
97 Holly 99HX9	58(Aph Spec)(NC)	2.04	3.26	4.09	4.98	5.39	5.39	4.20		1000231	C.P.S.C.V	
65 Holly HH-111	1(96HX401)	2.62	4.24	5.39	6.78	7.19	6.86	5.52	5.17	5.04	4.83	
94 Holly HH-112	2(97HX701)	2.62	4.24	5.56	6.54	7.19	7.03	5.53	5.31	5.19	5.09	
11 Holly HH-114	4(96HX413)(Aph Spec)	1.72	2.62	3.60	4.82	4.73	5.22	3.78	3.74	4.02	3.69	
10 Holly HH-115	5(96HX402)	2.62	4.09	5.22	6.05	6.70	6.86	5.25	5.10	5.08	4.94	
59 Holly HH-503	5(97HX709)(NC)	2.53	4.24	5.56	6.70	7.19	6.86	5.52	5.24	5.16	4.96	
48 Holly Rival(R	(zm-Spec)	1.88	2.77	3.75	5.07	5.39	5.72	4.10	4.13		4.16	
00 KW 3580(Ap	vhan)	2.28	3.92	4.90	6.21	6.70	6.86	5.15	5.13	5.13	5.12	
52 Lion Seeds A	Apex	2.45	3.60	4.73	5.80	6.21	6.21	4,83	4.99	4.96	5.14	
1 Lion Seeds L	Lion 9910	2.45	4.09	5.22	6.37	6.70	6.70	5.25				
16 Lion Seeds 1	Topex	2.21	3.75	4.73	6.05	6.54	6.70	5.00	4.96	5.05	4.92	
06 Maribo 9363		2.45	3.75	4.90	5.72	5.88	6.21	4.82	4.80	4.75	4.78	
60 Maribo 9369		2.13	3.43	4.58	5.56	6.05	6.70	4.73	4.69	4.78	4.65	
61 Maribo 9581		2.04	3.26	4.41	5.72	5.72	6.54	4.62	4.47	4.47	4.32	
84 Seedex SX 0	1811/NCL	2.53	4.09	5.22	6.29	6.54	6.86	5.25	5.12	5.11	4.99	
01 Seedex SX 0		1.88	2.62	3.43	4.41	5.07	5.07	3.74	0.03		1.22	
02 Seedex SX 0		1.96	2.62	3.75	4.98	5.56	5.72	4.10				
27 Seedex SX 0		1.96	2.94	3.92	4.73	4.90	5.56	4.00				
		2.04	3.60	4.90	5.80	6.54	6.70	4.93	5.08	5.05	5.23	
04 Seedex SX 0			3.00	4.90	5.07	5.56	6.05	4.33	3.00	0.00	0.20	
	2914(Aph Spec)(NC)	2.13	2.77	3.43	4.00	4.73	4.90	3.58				
46 Seedex SX 0		2.04	3.43	4.24	4.98	5.39	5.56	4.27				
52 Seedex SX 0		2.04	3.43	3.92	4.90	5.22	5.39	4.10	4.14	4.13	4.18	
15 Seedex SX 1		1.96		4.07	4.88	4.86	5.28	3.97	9,19	9.13	9.10	
34 Seedex SX 1			2.74									
	1018(Aph Spec)(NC)	2.13	2.94	4.41	5.47	5.56	6.21	4.45	1.60	4.37	4.54	
87 Seedex SX E		2.13	3.43	4.41	5.39	5.56	5.88 5.37	4.46	4.50 4.98	4.91	4.96	
36 Seedex SX (		2.45	3.92	5.07	6.13	6.05 4.90	5.39	5.00	3.94	3.98	4.05	
28 Seedex SX L		1.96	2.77	3.43							5.07	
74 Seedex SX M		2.45	3.60	4.90	5.80	6.21	6.54	4.91	4.99	4.88		
81 Seedex SX 1		2.37	4.09	5.39	6.29	6.86	7.19	5.36	5.23	5.08	5.10	
	e H46109(Aph Spec)	1.96	2.62	3.60	4.33	4.58	5.07	3.70	3.64	3.63	3.59	
	e H46140(Aph Spec)(NC)	1.88	2.94	4.09	4.98	5.07	5.39	4.06	4.16		4.26	
	e H46175(Rzm-Aph Spec)(NC)	1.72	2.62	4.09	4.73	4.73	5.56	3.91	4.00		100	
	e H46177(45109rr)(Spec)(NC)	1.96	3.11	3.75	4.82	5.22	5.72	4.10	4.33	1.00	4.56	
95 Van der Hav		2.45	3.92	5.22	6.13	6.37	6.70	5.14	5.06	4.99	4.99	
09 Van der Hav	で しんち 定 いち てい	2.28	3.92	4.90	5.88	6.37	6.54	4.98	4.97	4.92	4.97	
48 Van der Hav		2.62	3.92	5.07	5.80	5.88	6.05	4.89	4.85	4.86	4.81	
77 Van der Haw		2.70	4.24	5.22	6.54	7.03	7.03	5,46	5.26	5.12	5.05	
30 Van der Haw		2.53	3.92	4.90	5.96	6.37	6.54	5.04	5.04		5.05	
79 Van der Hav		2.53	3,92	5.07	5.88	6.21	6.37	5.00	4.97	4.99	4.94	
79 Van der Hav		2.13	3.92	5.07	6.13	6.86	6.70	5.14	5.01	5.01	4.88	
09 Van der Haw		2.70	4.24	5.07	6.05	5.88	6.54	5.08	5.08		5.08	
43 Van der Hav		2.37	3.92	5.22	6.05	6.54	6.86	5.16	5.10		5.05	
56 Van der Haw	e H66451	2.45	4.24	4,90	5.88	6.05	6.54	5.01				
26 Van der Haw	e H66452	2.37	3.75	4.58	5.64	5.72	6.21	4.71				
38 Van der Haw	e H66453	2.62	4.24	5.22	6.05	6.37	6.70	5.20				
74 Van der Haw	e H66454	2.53	4.09	5.07	5.96	6.37	6.21	5.04				
89 Van der Hav		2.37	3.92	5.22	6.05	5.88	6.70	5.03				
	e H68108(Aph Spec)	1.96	2.45	3.43	4.33	4.90	5.39	3.74	3.69	3.70	3.63	
	e H68151(Aph Spec)(NC)	1.88	2.77	3.60	4.41	4.73	4.90	3.72	3.82		3.92	
	e H68152(Rzm-Aph Spec)(NC)	2.28	3.26	4.73	5.47	5.56	5.88	4.54	4.58		4.62	
	e H68181(Aph Spec)	1.79	3.11	4.09	4.66	4.58	4.73	3.82				
Trial Mean		2.21	3.50	4.55	5.56	5.92	6.22	4.66				
CV		15%	15%	12%	10%	10%	9%	8%				
LSD .05		0.37	0.59	0.64	0.61	0.68	0.63	0.43				

\* Lower numbers indicate better Cercospora resistance (1-Ex,9=Poor). \* Ratings adjusted to 5.5 equivalent. \*\*Average of ratings from 7/28 and 8/2. \*\*\*Average of ratings from 8/17 and 8/20.

## American Crystal Sugar Co. - Technical Service Center Southern Minnesota Commercial Coded Trial - Lattice Trial 995601, Hector, MN

Planting	Date:	04/29/1999		Harvest Da	te:	10/08/1999
42 Entries	6 84	ofications	2	Rows/Piot	1	Samples/Piot

| intry  | Source  
   
  | 1995<br>Rec/T (lb  
   
   |  |  | 1995<br>ec/A (Ibs)  |   
   | Loss to  | 1999<br>Mol. |        | Y  | 1999<br>ield (T/A)   | . 1  
  |   | 1999<br>Sugar %  | 1  |                | 1995<br>(ppm) |
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--|--|---|---
--|--------------|--------|--|--|---
---|--|--|----------------|---------------|
|  | Ma  
   
  |  
   
   | P-val  | Mean   | %   | P-val   
   | Mean   | \$           | P-val  | Mean   | *  | P-val  
  | Mean  | % Pa   | val Me   | nani           | *             |
| a 3945   |   
   
  | .77 109  
   
   |  | 6498.96  | 101   | 0.78  
   | 1.22]  | 95           | 0,11   | 21.11  | 93   | 0.05   
  | 16.60   | 107 0.00   |  | 82.01          | 82            |
| a 4705 (M705)  | 89 29   
   
  | 1,79 103   
   
   | 0.12   | 6303.82  | 88  | 0.63  
   | 1.32   | 102          | 0.57   | 21,71  | 56   | 0.21   
  | 15.90   | 103 0.08   |  | 40.38          | 99            |
| a 5014<br>a 5296   |   
   
  | 36 107   
   
   | 0.00   | 6091.22  | 96<br>98  | 0.19  
   | 1.24   | 96           | 0.26   | 20.19  | 89<br>92   | 0.00   
  | 16.37   | 106 0.00   | 2 2  | 80.00          | 86            |
| a 6863   | 104 31  
   
  | 1.63 110   
   
   | 0.00   | 6182.31  | 96  | 0.34  
   | 1.18   | 92           | 0.01   | 19.95  | 88   | 0.00   
  | 10.72   | 108 0.00   | 2 2  | 99.25          | 87            |
| ta 6904  |   
   
  | 73 107   
   
   |  | 6529.52  | 102   | 0.69  
   | 1.20   | 93           | 0.04   | 21.57  | 95   | 0.16   
  | 16.39   | 106 0.00   |  | 44,10          | 100           |
| ta M701<br>ta M703   |   
   
  | 32 103   
   
   |  | 6689.94  | 104   | 0.30  
   | 1.21   | 94<br>99     | 0.07   | 22.87  | 101  | 0.85   
  | 15.83   | 102 0.14   | 3 3  | 06.22<br>29.48 | 80<br>96      |
| ta M706  |   
   
  | 50 101   
   
   |  | 6607.11  | 103   | 0.45  
   | 1,33   | 103          | 0.37   | 23.13  | 102  | 0.63   
  | 15.60   | 101 0.55   |  | 20.64          | 92            |
| ta M811  |   
   
  | 10 99  
   
   |  | 6108.68  | 95  | 0.21  
   | 1.20   | 95           | 0.17   | 21.79  | 96   | 0.25   
  | 15.24   | 99(0.38  |  | 37.49          | 98            |
| ta M846<br>ta M900   | 99 28   
   
  | .95 100<br>87 99   
   
   | 0.90   | 6342.41<br>6216.38   | \$4<br>97   | 0.13  
   | 1.36   | 105          | 0.10   | 21.23  | 93   | 0.07   
  | 15.56   | 101 0.67   |  | 11.75          | 90            |
| yatal 205  |   
   
  | 15 100   
   
   |  | 5943.57  | 92  | 0.06  
   | 1.31   | 101          | 0.70   | 272 22<br>21 06<br>222 17<br>222 15<br>21 01   | .93  | 0.04   
  | 15.41   | 10010.85   | 3 33   | 32.48          | 96            |
| estal 302  | 84 27   
   
  | 52 98  
   
   | 0.21   | 6132.73  | 961   | 0.25  
   | 1.45   | 112          | 0.00   | 22.17  | 98<br>97   | 0.49   
  | 15.27   |  | 4 41   | 12.38          | 120           |
| 900 late   |   
   
  | 32 99<br>68 98   
   
   | 0.58   | 5849.82  | 96<br>91  | 0.36  
   | 1.31   | 101          | 0.76   | 22.15  | 97   | 0.48   
  | 15.31   | 99 0.57 98 0.23  |  | 78.92          | 95<br>89      |
| stal 555<br>stal 922   |   
   
  | 39 101   
   
   |  | 6629.80  | 103   | 0.42  
   | 1.15   | - 62         | 0.02   | 23.27  | 102  | 0.51   
  | 15.44   | 100 0.97   |  | 17.08          | 92            |
| stal 9744  |   
   
  | 78 101   
   
   |  | 6185.24  | 96  | 0.34  
   | 1.20   | 93           | 0.03   | 21.75  | 96   | 0.23   
  | 15.44   | 100 0.95   |  | 96,98          | 86            |
| 7067   |   
   
  | 33 102   
   
   |  | 5965.35<br>5807.85   | 93  | 0.67  
   | 1.21   | 94<br>97     | 0.06   | 20.58  | 91<br>88   | 0.01   
  | 15.62   | 101 0.50   |  | 95.30          | 86            |
| Hector   |   
   
  | 82 104   
   
   |  | 6323.85  | 96  | 0.69  
   | 1.28   | 99           | 0.86   | 21.49  | 95   | 0.13   
  | 15.98   | 103 0.04   |  | 25.98          | 95            |
| Resist   | 88 28   
   
  | 27 102   
   
   | 0.27   | 6816.00  | 106   | 0,13  
   | 1.21   | 94           | 0.07   | 23.68  | 104  | 0.25   
  | 15.87   | 101 0.38   | 3 32   | 21.07          | 93            |
| t Viking   | 81 26   
   
  | 96 95  
   
   |  | 5964.10  | 95  | 0.07  
   | 1.42   | 110          | 0.00   | 22.21  | 98   | 0.52   
  | 14.82<br>15.28  | 96 0.01<br>99 0.47   |  | 29.99          | 125           |
| ly 98 Aph03<br>ly 95HX806  | 83 27   
   
  | 19 97<br>90 95   
   
   | 0.19   | 6264.49 6970.41  | 97  | 0.52  
   | 1.47   | 103          | 0.42   | 22.67  | 100  | 0.95   
  | 14.73   | 95 0.00  |  | 16.35          | 115           |
| y 98HX829  | 96 29   
   
  | 57 103   
   
   | 0.09   | 7264.26  | 113   | 0.00  
   | 1,19   | 92           | 0.02   | 24.81  | 109  | 0.01   
  | 15.83   | 102 0.14   | 2 2  | 99.86          | 87            |
| iy 99HX903   |   
   
  | 59 101   
   
   | 0.54   | 6489.62  | 101   | 0.80  
   | 1,30   | 100          | 0.89   | 22.68<br>25.43<br>25.15  | 100  | 0.95   
  | 15.62   | 101 0.51   |  | 3.85           | 97            |
| ly 90HX541<br>ly 90HX942   |   
   
  | 96 93<br>77 97   
   
   | 0.00   | 6708.16<br>7025.50   | 104   | 0.27  
   | 1.35   | 104          | 0.21   | 25.43  | 112  | 0.00   
  | 14.54   | 94 0.00  | 1 3  | 37.58          | 127           |
| ly 99HX957   | 98 29   
   
  | .65  
   
   | 0.01   | 8415.89  | 100   | 0.97  
   | 1.44   | 112          | 0.00   | 23.82  | 105  | 0.18   
  | 14.93   | 97 0.03  | 4 45   | 50.00          | 130           |
| ly 99HX958   | 111 27  
   
  | 30 96  
   
   | 0.07   | 6938.27  | 105   | 0.04  
   | 1,43   | 111          | 0.00   | 25.42  | 112  | 0.00   
  | 15.09   | 98 0.15  | 4 43   | 36.06          | 126           |
| by Rival<br>edex 5x Later  |   
   
  | 28 82  
   
   | 0.00   | 5690.87  | 89  | 0.00  
   | 1.46   | 113          | 0.00   | 21.87 20.79  | 96<br>91   | 0.29   
  | 14.48   | 94 0.00<br>93 0.00   | 3 3  | 23.63          | 57<br>54      |
| edex SX Laser<br>edex SX1012   |   
   
  | 05 99  
   
   | 0.55   | 6039.38  | 94  | 0.12  
   | 1.26   | 98           | 0.50   | 21,47  | - 94   | 0.13   
  | 15.32   | 99 0.58  | 3 35   | 34.00          | 103           |
| idex SX1018  | 102 27  
   
  | 99 97  
   
   | 0.13   | 5791,73  | 90  | 0.01  
   | 1.25   | 104          | 0.19   | 21.03  | 93   | 0.04   
  | 15.10   | 98 0.15  | 3 31   | 17.60          | 92            |
| n der Have H46109<br>n der Have H46140   |   
   
  | 65 104<br>52 103   
   
   | 0.02   | 7595.51<br>6929.81   | 5118<br>108   | 0.00  
   | 1.24   | 96           | 0.20   | 25.77  | 113  | 0.00   
  | 16.02   | 104 0 02   |  | 78.03          | 81<br>83      |
| n der Have H46175  | 82 26   
   
  | 20 92  
   
   | 0.00   | 7043.09  | \$10  | 0.02  
   | 1.30   | 101          | 0.83   | 27.08  | 119  | 0.001  
  | 14.32   | 93 0.00  | 4 40   | 21.58          | 116           |
| n der Have H40177  |   
   
  | A2 103   
   
   | 0.09   | 6532.02  | 102   | 0.68  
   | 1.23   | 96           | 0.19   | 22.29  | 98   | 0.59   
  | 15.85   | 103 0.11   |  | 4.89           | 85            |
| der Have H68108<br>der Have H68151   |   
   
  | 04 98  
   
   | 0.25   |  | 107   | 0.09  
   | 138  | 167          | 0.03   | 24.76  | 109  | 0.01   
  | 15.24   | 99 0.38<br>96 0.03   |  | 99.42<br>90.46 | 107           |
| dor Have H68152  |   
   
  | 90 95  
   
   |  |  | 101   | 0.75  
   | 1.37   | 106          | 0.07   | 24.34  | 107  | 0.02   
  | 14.77   | 96 0.01  |  | 59.38          | 136           |
| rck of Mean  | 20  
   
  | 28   
   
   |  | 6426.62  |   | | |
   | 1.29   |              |        | 22.73  |  |  
  | 15.46   |  | 3.00 34  | 14.54          |               |
| eff. Of Var (%)  |   
   
  | .51  
   
   |  | 9.36   |   | | |
   | 7.86   |              |        | 8.49   |  |  
  | 3.81  |  | 1001   | 17.12          |               |
| alue   | 5.57  
   
  |  
   
   |  | 3.50**   | 122   | 3   
   | 2.72**   | 0500         | - 4    | 53**   | 120  | 3  
  | 5.50**  | 1  | 3.71*  | •              | 2.5           |
| an LSD (0.05)<br>an LSD (0.01)   |   
   
  | 25 5   
   
   |  | 715.17<br>943.22   | 11  | | |
   | 0.12   | 9<br>12      |        | 2.30   | 10   |  
  | 0.70  | 5  |  | 1.12           | 21            |
|  |   
   
  |  
   
   |  |  | 199   | | |
   |  | Sec. 17-1    |        | 100  |  |  
  | 100   |  |  | 0.215          | 10            |
| 7  | Source  
   
  | 1999<br>K (ppm)  
   
   | 1  | Am   | 1969<br>N (ppm)   | 1   
   | Boiters  |              | 1      | Eme  | 1999<br>(gence (%  |  
  |   | 1999<br>(ate (%)   |  |                |               |
|  | Me  
   
  |  
   
   |  |  | 41  | Port  
   | Maan   | 5            | Poyal  | Mean   | 14   | P-val  
  | Mean  | % P-4  | at .   |                |               |
|  | 1   
   
  |  
   
   | P-val  | Mean   |   | | |
   | 1000   |              | 0.0220 |  |  |  
  |   |  |  |                |               |
| a 3945   | 85 204  
   
  | 55 96  
   
   | 0.23   | 301.42   | 97  | 0.89  
   | 0.00   |              |        | 45,37  | 99   | 0.94   
  | 4.56  |  | 0.37   |                |               |
| a 4705 (M705)  | 85 204<br>89 221  
   
  | 55 96<br>27 104  
   
   | 0.23   | 301.42   | 99  | 0.69<br>C8.0  
   | 0.00   | -            |        | 45.37  | 122  | 0.03   
  | 4.67  |  | 0.59   |                |               |
| a 4705 (M705)<br>a 5014<br>a 5216  | 85 204  
   
  | 55 96<br>27 104<br>31 04   
   
   | 0.23   | 301.42<br>305.00<br>305.05<br>306.24   |   | 0.89  
   | 0.00   |              |        | 45,37  |  | 0.94<br>0.03<br>0.15<br>0.87   
  |   | 91<br>65<br>99   |  |                |               |
| a 4705 (M705)<br>3 5014<br>a 5296<br>a 6863  | 85 204<br>89 221<br>112 200<br>117 201<br>104 188   
   
  | 55 96<br>27 104<br>31 04<br>36 95<br>77 89   
   
   | 0.21<br>0.22<br>0.08<br>0.12<br>0.00   | 301.42<br>305.00<br>305.05<br>306.24<br>306.74   | 90<br>90<br>90  | 0.89<br>0.83<br>0.83<br>0.87<br>0.87  
   | 0.00<br>0.00<br>0.00<br>0.00<br>0.00   |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.35  | 122<br>85<br>98  | 0.03<br>0.15<br>0.87<br>0.93   
  | 4.67<br>3.32<br>5.67<br>4.45  | 91<br>65<br>59<br>87   | 0.59<br>0.04<br>0.90<br>0.43   |                |               |
| a 4705 (M705)<br>2 5014<br>a 5216<br>a 6663<br>a 6663  | 85 204<br>89 221<br>112 200<br>117 201<br>104 188<br>85 200   
   
  | 55 96<br>27 504<br>31 04<br>36 95<br>77 89<br>28 96  
   
   | 0.23<br>0.22<br>0.08<br>0.12<br>0.00<br>0.20   | 301.42<br>305.05<br>305.05<br>306.24<br>306.74<br>266.36   | 90<br>90<br>90<br>90<br>86  | 0.69<br>0.83<br>0.83<br>0.87<br>0.89<br>0.69  
   | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.25<br>48.76   | 122<br>85<br>98<br>99<br>107   | 0.03<br>0.15<br>0.87<br>0.93<br>0.53   
  | 4.67<br>3.32<br>5.07<br>4.45<br>6.27  | 91<br>65<br>99<br>87<br>122  | 0.59<br>0.04<br>0.90<br>0.43<br>0.20   |                |               |
| a 4705 (M705)<br>a 5014<br>a 5216<br>a 6663<br>a 6564<br>a M701<br>a M703  | 85 204<br>89 271<br>112 200<br>117 201<br>104 188<br>85 203<br>97 203<br>86 202   
   
  | 55         96           27         104           31         04           36         95           77         86           28         96           36         95           36         95           36         95   
   
   | 0.21<br>0.22<br>0.08<br>0.12<br>0.00   | 301.42<br>305.00<br>305.05<br>306.24<br>306.74   | 90<br>90<br>90  | 0.89<br>0.83<br>0.83<br>0.87<br>0.87  
   | 0.00 0.  |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.35<br>48.76<br>44.40<br>42.28   | 122<br>85<br>98<br>90<br>107<br>97<br>92   | 0.03<br>0.15<br>0.87<br>0.53<br>0.53<br>0.78<br>0.47   
  | 4.67<br>3.32<br>5.67<br>4.45  | 91<br>65<br>99<br>87<br>122<br>86  | 0.59<br>0.04<br>0.90<br>0.43   |                |               |
| a 4705 (M705)<br>a 5014<br>a 5296<br>a 5653<br>a 6653<br>a 6654<br>a M701<br>a M701<br>a M708  | 85 204<br>89 221<br>112 200<br>117 201<br>104 188<br>85 200<br>86 202<br>106 223  
   
  | 55         96           27         104           31         04           36         95           77         89           28         96           36         95           56         85           17         105  
   
   | 0.23<br>0.22<br>0.08<br>0.12<br>0.00<br>0.20<br>0.17<br>0.13<br>0.13   | 301.42<br>305.00<br>305.05<br>308.24<br>308.74<br>268.36<br>291.85<br>331.11<br>322.59   | 99<br>90<br>99<br>90<br>86<br>94<br>107<br>104  | 0.89<br>0.83<br>0.83<br>0.87<br>0.89<br>0.99<br>0.04<br>0.59<br>0.59<br>0.52  
   | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.25<br>48.76<br>44.40<br>42.26<br>50.54  | 122<br>85<br>98<br>167<br>97<br>97<br>97<br>92<br>110  | 0.03<br>0.15<br>0.87<br>0.93<br>0.53<br>0.53<br>0.78<br>0.47<br>0.32   
  | 4.67<br>3.32<br>5.67<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88  | 91<br>65<br>90<br>87<br>122<br>86<br>90<br>90<br>172   | 0.59<br>0.64<br>0.90<br>0.43<br>0.20<br>0.42<br>0.70<br>0.00   |                |               |
| a 4705 (M705)<br>a 5014<br>a 5216<br>a 6663<br>a 6663<br>a 6664<br>a M701<br>a M701<br>a M708<br>a M811  | 85 204<br>89 221<br>112 200<br>117 201<br>104 188<br>85 203<br>67 203<br>86 203<br>86 203<br>106 223<br>118 215   
   
  | 55         96           27         104           31         04           36         05           27         28           36         58           58         85           17         105           52         101   
   
   | 0.23<br>0.22<br>0.08<br>0.12<br>0.00<br>0.20<br>0.20<br>0.17<br>0.13<br>0.13<br>0.13<br>0.75   | 301.42<br>305.00<br>305.05<br>306.24<br>306.74<br>266.36<br>291.45<br>331.11<br>322.59<br>259.51   | 99<br>90<br>90<br>86<br>94<br>107<br>104<br>84  | 0.89<br>0.83<br>0.83<br>0.87<br>0.89<br>0.04<br>0.04<br>0.04<br>0.29<br>0.29<br>0.52<br>0.01  
   | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  |              |        | 45.37<br>55.94<br>38.80<br>44.04<br>45.25<br>48.76<br>44.40<br>42.26<br>50.54<br>61.70   | 122<br>85<br>98<br>107<br>97<br>92<br>110<br>135   | 0.03<br>0.15<br>0.87<br>0.53<br>0.53<br>0.78<br>0.47<br>0.32<br>0.00   
  | 4.67<br>3.32<br>5.07<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88<br>4.53  | 91<br>65<br>90<br>87<br>122<br>86<br>90<br>172<br>88   | 0.59<br>0.04<br>0.93<br>0.43<br>0.20<br>0.42<br>0.70<br>0.00<br>0.48   |                |               |
| a 4705 (M705)<br>a 5014<br>a 5296<br>a 6663<br>a 6665<br>a 6663<br>a 6665<br>a 6655<br>a 6655      | 85 204<br>89 221<br>112 200<br>117 201<br>104 188<br>85 200<br>86 202<br>106 223  
   
  | 55         96           27         104           31         94           36         95           77         89           28         96           36         95           58         96           58         96           36         95           58         96           57         105           52         101           79         102  
   | 0.23<br>0.22<br>0.08<br>0.12<br>0.00<br>0.20<br>0.17<br>0.13<br>0.13  
  | 301.42<br>305.00<br>305.05<br>308.24<br>308.74<br>268.36<br>291.85<br>331.11<br>322.59   | 95<br>90<br>89<br>86<br>64<br>107<br>104<br>84<br>118<br>100  | 0.89<br>0.80<br>0.83<br>0.87<br>0.89<br>0.04<br>0.39<br>0.29<br>0.29<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   
  |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.25<br>48.76<br>44.40<br>42.26<br>50.54  | 122<br>85<br>98<br>167<br>97<br>97<br>97<br>92<br>110  | 0.03<br>0.15<br>0.87<br>0.93<br>0.53<br>0.53<br>0.78<br>0.47<br>0.32  | 4.67<br>3.32<br>5.67<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88   
  | 91<br>65<br>90<br>87<br>122<br>86<br>90<br>172<br>88   | 0.59<br>0.64<br>0.90<br>0.43<br>0.20<br>0.42<br>0.70<br>0.00   |                |               |
| a 4705 (M705)<br>a 5014<br>a 5216<br>a 5663<br>a 6564<br>a M701<br>a M701<br>b M701<br>c M705<br>c M705      | 86)         204.           89         221           112         202           117         201           104         188.           85         203.           97         203.           96         202.           106         223.           118         215.           99         216.           79         216.           101         211.   
   
  | 55         96           27         104           38         95           77         89           28         96           36         95           36         96           36         96           37         89           36         96           37         89           38         98           17         105           52         101           79         102           92         102           90         102           90         99  
   | 0.23<br>0.22<br>0.08<br>0.12<br>0.00<br>0.20<br>0.17<br>0.13<br>0.13<br>0.13<br>0.75<br>0.61<br>0.64<br>0.64  
  | 301.42<br>305.00<br>305.05<br>306.24<br>306.74<br>266.36<br>291.65<br>331.11<br>322.59<br>259.61<br>366.10<br>309.85<br>329.96   | 20<br>20<br>99<br>86<br>64<br>107<br>104<br>84<br>118<br>100<br>107   | 0.69<br>0.80<br>0.80<br>0.87<br>0.89<br>0.04<br>0.29<br>0.29<br>0.29<br>0.50<br>0.50<br>0.51<br>0.01<br>0.98<br>0.31  | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000   
  |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.35<br>48.76<br>44.40<br>42.26<br>50.54<br>61.70<br>43.65<br>49.21   | 122<br>85<br>98<br>107<br>97<br>92<br>110<br>135<br>95<br>108  | 0.03<br>0.15<br>0.87<br>0.93<br>0.53<br>0.53<br>0.53<br>0.53<br>0.47<br>0.30<br>0.00<br>0.66<br>0.47  | 4.67<br>2.32<br>5.07<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88<br>4.53<br>3.47<br>5.39   
  | 91<br>65<br>69<br>87<br>122<br>86<br>90<br>172<br>88<br>67<br>105  | 0.59<br>0.04<br>0.93<br>0.43<br>0.20<br>0.42<br>0.70<br>0.48<br>0.00<br>0.48<br>0.06<br>0.78   |                |               |
| a 4705 (M705)<br>3 5014<br>3 5296<br>3 5296<br>3 5695<br>3 6695<br>3 M701<br>3 M701<br>3 M701<br>3 M701<br>3 M701<br>3 M701<br>3 M701<br>3 M701<br>3 M701<br>5 M705<br>5 M705      | #6         204           #9         221           112         200           117         2011           164         188           85         203           67         203           86         202           106         223           106         223           118         215           79         216           79         216           101         2112  
   
  | 55         96           27         104           31         84           36         95           77         89           36         96           37         86           38         96           36         96           37         86           38         96           37         108           52         101           79         102           90         99           44         112   
   | 0.23<br>0.08<br>0.12<br>0.00<br>0.20<br>0.17<br>0.13<br>0.13<br>0.13<br>0.13<br>0.75<br>0.61<br>0.64<br>0.64<br>0.00  
  | 301.42<br>305.05<br>306.24<br>306.74<br>266.36<br>291.65<br>331.11<br>322.59<br>259.51<br>366.10<br>309.86<br>329.96<br>329.96<br>336.04   | 20<br>20<br>99<br>86<br>64<br>107<br>104<br>84<br>118<br>100<br>107<br>109  | 0.69<br>0.83<br>0.83<br>0.85<br>0.89<br>0.89<br>0.26<br>0.26<br>0.52<br>0.52<br>0.52<br>0.52<br>0.53<br>0.98<br>0.35<br>0.19  | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000   
  |              |        | 45.37<br>55.94<br>38.80<br>44.04<br>45.35<br>45.26<br>45.26<br>45.26<br>50.54<br>61.70<br>43.65<br>49.21<br>40.51  | 122<br>85<br>98<br>107<br>97<br>92<br>110<br>135<br>95<br>100<br>135<br>95   | 0.03<br>0.15<br>0.87<br>0.03<br>0.53<br>0.53<br>0.53<br>0.53<br>0.53<br>0.53<br>0.00<br>0.66<br>0.47<br>0.85  | 4.67<br>2.32<br>5.07<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88<br>4.53<br>3.47<br>5.39<br>3.79   
  | 91<br>65<br>90<br>87<br>122<br>86<br>90<br>172<br>88<br>90<br>172<br>88<br>97<br>105<br>74   | 0.59<br>0.04<br>0.90<br>0.43<br>0.20<br>0.42<br>0.70<br>0.42<br>0.70<br>0.48<br>0.00<br>0.48<br>0.00<br>0.48<br>0.00<br>0.48<br>0.00   |                |               |
| a 4705 (M705)<br>3 5014<br>3 5014<br>5 5016<br>5 5653<br>8 5654<br>9 M701<br>9 M701<br>9 M705<br>9 M705  | 86)         204.           89         221           112         202           117         201           104         188.           85         203.           97         203.           96         202.           106         223.           118         215.           99         216.           79         216.           101         211.   
   
  | 55         96           27         104           31         14           36         95           28         96           58         98           58         98           52         101           52         101           52         101           90         102           90         192           102         102           91         102           92         102           93         102           94         112           75         100   
   
   | 0.23<br>0.22<br>0.08<br>0.12<br>0.00<br>0.20<br>0.17<br>0.13<br>0.13<br>0.13<br>0.75<br>0.61<br>0.64<br>0.64   | 301.42<br>305.00<br>305.05<br>306.24<br>306.74<br>266.36<br>291.65<br>331.11<br>322.59<br>259.61<br>366.10<br>309.85<br>329.96   | 20<br>20<br>99<br>86<br>64<br>107<br>104<br>84<br>118<br>100<br>107   | 0.69<br>0.80<br>0.80<br>0.87<br>0.89<br>0.04<br>0.29<br>0.29<br>0.29<br>0.50<br>0.50<br>0.51<br>0.01<br>0.98<br>0.31  
   | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000  |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.35<br>48.76<br>44.40<br>42.26<br>50.54<br>61.70<br>43.65<br>49.21   | 122<br>85<br>98<br>107<br>97<br>92<br>110<br>135<br>95<br>108  | 0.03<br>0.15<br>0.87<br>0.93<br>0.53<br>0.53<br>0.53<br>0.53<br>0.47<br>0.30<br>0.00<br>0.66<br>0.47   
  | 4.67<br>2.32<br>5.07<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88<br>4.53<br>3.47<br>5.39  | 91<br>65<br>99<br>87<br>122<br>86<br>90<br>172<br>88<br>90<br>172<br>88<br>97<br>105<br>74<br>54<br>92   | 0.59<br>0.04<br>0.93<br>0.43<br>0.20<br>0.42<br>0.70<br>0.48<br>0.00<br>0.48<br>0.06<br>0.78   |                |               |
| a 4705 (M705)<br>a 5014<br>b 2014<br>b 2016<br>c 6653<br>6654<br>M701<br>M701<br>M703<br>M703<br>b M703<br>b | 85         204           89         221           112         200           117         201           164         88           85         203           86         223           118         215           90         214           79         216           118         215           91         214           100         213           116         213           106         213           106         202   
   
  | 55         96           27         104           38         96           37         14           36         96           37         80           28         96           36         36           36         36           37         101           38         86           36         36           37         102           39         102           30         97           44         112           75         100           53         92           53         92  
   | 0.23<br>0.22<br>0.06<br>0.12<br>0.00<br>0.20<br>0.17<br>0.13<br>0.13<br>0.15<br>0.61<br>0.64<br>0.64<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  
  | 301.42<br>305.05<br>305.05<br>306.24<br>306.74<br>286.26<br>291.85<br>331.11<br>322.96.51<br>366.10<br>309.86<br>329.96<br>329.96<br>329.96<br>329.96<br>329.96<br>329.96<br>329.96<br>329.95  | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  | 0.89<br>0.83<br>0.83<br>0.87<br>0.89<br>0.34<br>0.34<br>0.34<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   
  |              |        | 45.37<br>55.54<br>38.84<br>44.04<br>45.35<br>48.76<br>44.04<br>45.26<br>50.54<br>61.70<br>43.65<br>49.21<br>40.51<br>40.51<br>40.51<br>40.51<br>40.51<br>40.51<br>50.54<br>41.75   | 122<br>85<br>99<br>107<br>97<br>92<br>110<br>135<br>55<br>108<br>108<br>102<br>101<br>80<br>104  | 0.03<br>0.15<br>0.87<br>0.03<br>0.52<br>0.47<br>0.32<br>0.00<br>0.66<br>0.47<br>0.85<br>0.92<br>0.05<br>0.65  | 4.67<br>2.32<br>5.07<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88<br>4.53<br>3.47<br>5.39<br>2.79<br>2.79<br>4.42<br>3.47   
  | 91<br>65<br>99<br>87<br>122<br>86<br>90<br>172<br>88<br>90<br>172<br>87<br>105<br>97<br>105<br>97<br>4<br>54<br>90<br>90<br>97<br>87   | 0.59<br>0.04<br>0.00<br>0.43<br>0.43<br>0.43<br>0.43<br>0.42<br>0.70<br>0.48<br>0.70<br>0.48<br>0.70<br>0.48<br>0.70<br>0.50<br>0.50<br>0.53<br>0.55<br>0.55<br>0.55   |                |               |
| a 4755 (M705)<br>a 5014<br>a 5014<br>b 5016<br>b 6663<br>b 6663<br>b M701<br>b M705<br>b M705      | 85         204           89         221           112         2000           117         2011           117         2014           88         2000           97         2000           96         2022           106         223           118         2145           904         2146           709         216           1001         2111           84         238           1005         1906           1002         1905           1002         2024           93         2044   
   
  | 55         96           27         104           31         94           36         95           771         80           28         96           36         85           521         101           79         102           001         102           001         98           44         112           75         100           53         92           700         96           277         98  
   | 0.23<br>0.22<br>0.06<br>0.12<br>0.02<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.64<br>0.64<br>0.64<br>0.00<br>0.00<br>0.00<br>0.02<br>0.13<br>0.02  
  | 301.42<br>306.00<br>306.04<br>206.04<br>206.24<br>206.36<br>291.45<br>331.11<br>331.11<br>306.74<br>259.61<br>309.66<br>329.96<br>329.96<br>336.04<br>325.10<br>313.52<br>269.56<br>325.10<br>313.52<br>269.56   | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  | 0.89<br>0.83<br>0.83<br>0.87<br>0.99<br>0.04<br>0.26<br>0.52<br>0.52<br>0.52<br>0.51<br>0.51<br>0.51<br>0.51<br>0.51<br>0.51<br>0.51<br>0.51  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   
  |              |        | 45.37<br>55.34<br>38.80<br>44.04<br>45.35<br>48.76<br>43.76<br>61.70<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65  | 122<br>85<br>98<br>107<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97   | 0.03<br>0.15<br>0.87<br>0.63<br>0.53<br>0.53<br>0.47<br>0.53<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65  | 4.67<br>3.32<br>5.67<br>4.48<br>6.27<br>4.45<br>8.88<br>8.81<br>8.85<br>3.47<br>5.39<br>2.76<br>4.72<br>2.76<br>4.72<br>3.49   
  | 91<br>65<br>99<br>87<br>122<br>86<br>90<br>172<br>88<br>90<br>172<br>88<br>90<br>172<br>88<br>90<br>90<br>172<br>88<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90  | 0.59<br>0.00<br>0.00<br>0.43<br>0.20<br>0.42<br>0.70<br>0.42<br>0.70<br>0.00<br>0.44<br>0.70<br>0.00<br>0.00<br>0.00<br>0.00   |                |               |
| a 4755 (M705)<br>a 4754 (M705)<br>a 5216<br>a 5216<br>b 6651<br>b 6754<br>b M701<br>b M701         | 85         204           89         221           112         200           117         201           164         88           85         203           86         223           118         215           90         214           79         216           118         215           91         214           100         213           116         213           106         213           106         202   
   
  | 55         96           227         104           331         04           336         06           277         86           282         06           343         06           354         06           352         06           353         06           352         101           353         92           353         92           353         92           353         92           353         92           277         96           277         96           277         96  
   | 0.23<br>0.22<br>0.06<br>0.12<br>0.00<br>0.20<br>0.17<br>0.13<br>0.13<br>0.15<br>0.61<br>0.64<br>0.64<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  
  | 301.42<br>306.00<br>306.04<br>206.04<br>206.24<br>206.36<br>291.45<br>331.11<br>331.11<br>306.74<br>259.61<br>309.66<br>329.96<br>329.96<br>336.04<br>325.10<br>313.52<br>269.56<br>325.10<br>313.52<br>269.56   | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  | 0.89<br>0.83<br>0.83<br>0.87<br>0.89<br>0.34<br>0.34<br>0.34<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   
  |              |        | 45.37<br>55.54<br>38.84<br>44.04<br>45.35<br>48.76<br>44.04<br>45.26<br>50.54<br>61.70<br>43.65<br>49.21<br>40.51<br>40.51<br>40.51<br>40.51<br>40.51<br>40.51<br>50.54<br>41.75   | 122<br>85<br>98<br>107<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97   | 0.03<br>0.15<br>0.87<br>0.03<br>0.52<br>0.47<br>0.32<br>0.00<br>0.66<br>0.47<br>0.85<br>0.92<br>0.05<br>0.65  | 4.67<br>2.32<br>5.07<br>4.45<br>6.27<br>4.45<br>4.81<br>8.88<br>4.53<br>3.47<br>5.39<br>2.79<br>2.79<br>4.42<br>3.47   
  | 911<br>665<br>999<br>877<br>122<br>186<br>900<br>1772<br>1772<br>1775<br>888<br>977<br>1005<br>774<br>957<br>657<br>657<br>655<br>656<br>666   | 0.59<br>0.04<br>0.00<br>0.43<br>0.20<br>0.42<br>0.70<br>0.48<br>0.00<br>0.48<br>0.00<br>0.48<br>0.00<br>0.00<br>0.0  |                |               |
| a 4750 (M705)<br>a 5014<br>a 5014<br>a 5016<br>a 5016<br>a 5018<br>a 5018<br>a M701<br>a M701      | 85         204           80         221           112         2000           117         2011           164         385           80         203           87         203           86         202           106         323           118         215           90         214           79         216           101         2114           104         351           105         106           106         219           108         2154           109         214           100         105           100         2024           120         103           100         204           1201         103           100         204           1201         204   
   
  | 55         96           27         604           31         04           36         96           28         96           33         96           34         96           35         96           36         96           36         96           36         96           36         96           36         96           36         96           36         96           36         96           36         96           36         96           37         96           97         102           90         90           53         92           70         50           53         92           70         50           53         92           79         90           55         91           44         102           39         96   
   |
0.23<br>0.22<br>0.08<br>0.12<br>0.13<br>0.13<br>0.75<br>0.61<br>0.64<br>0.64<br>0.09<br>0.090<br>0.090<br>0.090<br>0.020<br>0.13<br>0.75<br>0.13<br>0.75<br>0.64<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.090<br>0.0900<br>0.0900000000 | 301 42<br>305 50<br>306 24<br>306 24<br>294 45<br>294 45<br>299 55<br>299 55   | 99<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>9   | 0.89<br>0.83<br>0.83<br>0.87<br>0.86<br>0.04<br>0.39<br>0.29<br>0.51<br>0.31<br>0.31<br>0.31<br>0.31<br>0.31<br>0.31<br>0.31<br>0.44<br>0.85<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05  | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000  |              |        | 45.37<br>55.94<br>38.80<br>44.94<br>45.25<br>48.76<br>48.76<br>48.76<br>43.85<br>50.54<br>61.70<br>43.85<br>42.26<br>42.26<br>43.85<br>42.26<br>43.85<br>42.21<br>46.21<br>46.21<br>46.21<br>46.24<br>46.24<br>46.24<br>46.24<br>46.24<br>46.24<br>47.75<br>30.59<br>53.355<br>46.97<br>37.23   
  | 122<br>85<br>98<br>107<br>67<br>92<br>110<br>135<br>45<br>100<br>100<br>100<br>100<br>100<br>100<br>104<br>67<br>117<br>107<br>61  | 0.03<br>0.15<br>0.87<br>0.93<br>0.53<br>0.78<br>0.47<br>0.35<br>0.00<br>0.66<br>0.47<br>0.85<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05  | 4 457<br>3 327<br>5 677<br>4 48<br>6 277<br>4 48<br>6 277<br>4 48<br>6 277<br>4 48<br>6 277<br>5 379<br>5 379<br>2 78<br>4 377<br>3 379<br>2 78<br>4 372<br>3 49<br>3 49<br>4 52<br>7 12  | 91<br>65<br>60<br>87<br>87<br>88<br>90<br>90<br>90<br>172<br>88<br>90<br>90<br>91<br>97<br>87<br>90<br>87<br>87<br>94<br>87<br>94<br>87<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94  | 0.599<br>0.64<br>0.60<br>0.42<br>0.42<br>0.42<br>0.42<br>0.42<br>0.42<br>0.42<br>0.4   
   |                |               |
| a 4755 (M705)<br>a 5014<br>a 5014<br>a 5286<br>a 5663<br>a 6654<br>a M701<br>a M701<br>a M701<br>a M701<br>a M708<br>a M708<br>a M708<br>a M708<br>a M701<br>a M708<br>a M708<br>a M701<br>a M708<br>a M709<br>a M708<br>a M709<br>a M708<br>a M709<br>a M708<br>a M709<br>a M708<br>a M709<br>a M708<br>a M709<br>a M709      | 85         204           80         221           112         2000           117         2011           164         188           203         203           106         223           106         223           106         223           108         215           90         214           79         216           701         211           84         238           106         202           107         214           90         204           100         202           100         202           100         202           100         217           100         217           100         217           100         217           100         217           100         217           100         217           100         217           100         217           100         214   
   
  | 55         96           27         604           31         94           36         96           28         96           36         96           36         96           36         96           36         96           36         96           36         96           36         96           36         96           36         96           37         101           001         102           002         102           905         99           44         112           37         98           68         91           37         98           38         96           39         96  
   |
0.231<br>0.222<br>0.088<br>0.122<br>0.000<br>0.200<br>0.133<br>0.133<br>0.755<br>0.611<br>0.644<br>0.064<br>0.064<br>0.060<br>0.060<br>0.000<br>0.000<br>0.000<br>0.13<br>0.022<br>0.13<br>0.051<br>0.052<br>0.051<br>0.052<br>0.052   | 301.42]<br>306.00]<br>306.74<br>296.36<br>291.65<br>301.11<br>322.59<br>259.61<br>333.11<br>322.59<br>259.61<br>336.10<br>309.66<br>336.04<br>325.10]<br>336.04<br>325.00<br>336.04<br>325.00<br>336.04<br>325.00<br>336.04<br>325.00<br>336.04<br>325.00<br>337.03<br>274.77<br>372.74  | 99<br>90<br>90<br>86<br>94<br>167<br>167<br>164<br>84<br>118<br>100<br>107<br>106<br>105<br>101<br>87<br>101<br>87<br>101<br>87<br>108<br>89  | 0.89<br>0.83<br>0.83<br>0.83<br>0.84<br>0.54<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.5   |
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| 122<br>85<br>98<br>90<br>107<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97   | 0.03<br>0.15<br>0.83<br>0.53<br>0.53<br>0.53<br>0.53<br>0.53<br>0.65<br>0.66<br>0.66<br>0.66<br>0.66<br>0.66<br>0.66<br>0.68<br>0.68  | 4 457<br>2 322<br>5 67<br>4 485<br>4 485<br>4 487<br>4 487<br>4 487<br>4 487<br>5 399<br>3 779<br>2 776<br>4 472<br>3 47<br>3 5<br>3 5<br>5 5<br>5 5<br>5 5<br>5 5<br>5 5<br>5 5  
   | 91<br>65<br>99<br>87<br>122<br>88<br>90<br>122<br>88<br>90<br>122<br>88<br>90<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105   | 0.599<br>0.04<br>0.42<br>0.42<br>0.42<br>0.42<br>0.42<br>0.42<br>0.42  |                |               |
| a 4755 (M705)<br>a 5014<br>a 5014<br>a 5016<br>a 5063<br>a 5654<br>a M701<br>a M701<br>a M706<br>a M701<br>a M706<br>a M701<br>a M706<br>a M707<br>a M546<br>a M500<br>stel 302<br>stel 302<br>stel 302<br>stel 302<br>stel 302<br>stel 555<br>stel 302<br>stel 555<br>stel 302<br>M1555<br>stel 302<br>M1555<br>stel 302<br>M1555<br>stel 302<br>M1555<br>stel 302<br>Stel 555<br>stel 555<br>stel 505<br>NFC<br>Stel 555<br>stel 505<br>Stel 505   | 85         204           80         221           112         200           113         2011           104         188           203         203           86         203           97         205           96         203           97         205           98         215           99         216           79         216           101         211           84         2259           106         213           106         213           106         214           93         204           100         202           93         204           100         217           100         202           93         204           88         205           81         205           81         205   
   
  | 55         96           27         (04           31         94           36         96           77         80           28         96           56         96           52         101           79         102           97         102           96         96           52         101           79         102           53         92           76         50           53         92           70         53           52         91           44         102           39         96           24         97           33         107  
   
                       | 0.233<br>0.222<br>0.068<br>0.122<br>0.020<br>0.175<br>0.611<br>0.064<br>0.064<br>0.064<br>0.064<br>0.020<br>0.123<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.024<br>0.024<br>0.055   | 301 42<br>305 50<br>306 24<br>296 56<br>306 74<br>291 45<br>331 11<br>322 56<br>51<br>329 96<br>329 96<br>329 96<br>329 96<br>329 96<br>329 96<br>329 96<br>329 96<br>336 04<br>325 92<br>335 04<br>335 04<br>357 04<br>35 | 99<br>90<br>90<br>94<br>107<br>104<br>84<br>84<br>84<br>118<br>100<br>107<br>109<br>105<br>101<br>101<br>101<br>101<br>87<br>108<br>89<br>112   | 0.89<br>0.83<br>0.83<br>0.83<br>0.85<br>0.94<br>0.94<br>0.52<br>0.52<br>0.52<br>0.52<br>0.51<br>0.55<br>0.51<br>0.55<br>0.51<br>0.55<br>0.51<br>0.55<br>0.55  | 0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.0000<br>0.000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.000000   |              |        |
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   |                |               |
| a 4755 (M705)<br>a 5014<br>a 5014<br>a 5016<br>a 5651<br>a 5653<br>a M701<br>a M701<br>a M701<br>a M701<br>a M706<br>a M611<br>t M546<br>a M610<br>a M611<br>t M546<br>a M600<br>a M611<br>t M546<br>a M700<br>b M610<br>a M610      | 85         204.           80         221           112         2000           117         2011           164         188           203         203           165         203           06         202           106         223           106         223           106         203           107         203           108         215           109         214           104         188           105         106           106         202           108         106           109         204           100         202           100         202           100         204           100         202           100         204           100         202           61         227           61         227           61         227           83         244           86         203           61         227           81         227           83         240   
   
  | 55         96           27         (04           31         94           36         96           77         80           28         96           36         95           38         96           38         86           38         86           38         86           38         86           39         96           30         97           30         96           30         92           39         92           39         96           224         97           37         107           37         107           37         107           37         107           37         107           37         107           37         107           32         100  
   | 0.23<br>0.22<br>0.06<br>0.12<br>0.06<br>0.12<br>0.06<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.05<br>0.04<br>0.06<br>0.02<br>0.04<br>0.00<br>0.02<br>0.13<br>0.23<br>0.05<br>0.02<br>0.05<br>0.02<br>0.05<br>0.02<br>0.05<br>0.05  
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  |              |        | 45.37<br>55.94<br>38.80<br>44.04<br>45.25<br>48.75<br>48.75<br>44.26<br>47.26<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.65<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>43.57<br>53.55<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50  | 122<br>85<br>98<br>97<br>107<br>97<br>97<br>97<br>97<br>97<br>97<br>135<br>135<br>135<br>135<br>100<br>100<br>100<br>100<br>100<br>101<br>107<br>107<br>107<br>107                                 | 0.03<br>0.15<br>0.87<br>0.87<br>0.53<br>0.53<br>0.53<br>0.53<br>0.66<br>0.66<br>0.66<br>0.67<br>0.67<br>0.68<br>0.68<br>0.68<br>0.68<br>0.68<br>0.68<br>0.69<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65  | 4 67<br>2 332<br>5 67<br>4 48<br>6 77<br>4 48<br>6 77<br>4 48<br>8 88<br>8 453<br>3 47<br>3 47<br>2 78<br>4 47<br>3 47<br>3 47<br>3 47<br>3 47<br>3 47<br>3 47<br>3 47   
  | 91<br>65<br>69<br>87<br>122<br>88<br>90<br>122<br>88<br>90<br>122<br>122<br>88<br>90<br>122<br>125<br>89<br>125<br>80<br>87<br>85<br>65<br>85<br>85<br>105<br>85<br>85<br>115<br>86<br>86<br>90<br>87<br>87<br>87<br>87<br>88<br>88<br>87<br>87<br>87<br>88<br>88<br>87<br>87  | 0.59<br>0.64<br>0.60<br>0.42<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.7  |                |               |
| a 4755 (M705)<br>a 5014<br>a 5016<br>a 5016<br>a 5016<br>a 5016<br>a 5016<br>a 5017<br>a 5014<br>b 501<br>a 5017<br>a M701<br>a M701       | 85         204           80         221           112         2000           117         2011           104         188           203         65           204         188           205         66           201         106           202         106           203         118           212         106           201         118           213         100           202         106           203         100           204         303           100         202           903         204           903         204           903         204           903         204           903         204           903         204           1003         205           61         205           61         205           61         205           61         205           61         205           61         205           61         205           96         204  
   
  | 55         96           27         104           31         046           33         06           34         06           37         86           28         06           32         05           32         06           32         06           32         06           32         06           32         06           32         06           32         06           32         06           32         06           32         06           33         07           34         112           37         100           39         96           33         107           33         107           33         107           33         107           33         107           33         107           33         107           33         107           33         107           34         107  
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  | 55         96           27         104           31         94           34         95           27         80           28         96           36         95           36         95           36         96           37         80           38         96           38         86           39         96           275         100           53         92           70         96           55         97           39         96           24         107           37         107           383         113           283         103           283         103           283         103           283         103           283         103           28         103           29         100   
   | 0.23<br>0.22<br>0.06<br>0.12<br>0.06<br>0.12<br>0.06<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.05<br>0.04<br>0.06<br>0.02<br>0.04<br>0.00<br>0.02<br>0.13<br>0.23<br>0.05<br>0.02<br>0.05<br>0.02<br>0.05<br>0.02<br>0.05<br>0.05  
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  |              |        | 45.37<br>35.94<br>38.80<br>44.94<br>45.25<br>50.54<br>45.25<br>50.54<br>44.40<br>44.26<br>50.54<br>61.70<br>43.85<br>44.28<br>61.70<br>43.85<br>45.25<br>45.25<br>45.25<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55.55<br>55   | 122<br>65<br>98<br>99<br>107<br>97<br>92<br>110<br>135<br>95<br>100<br>135<br>95<br>100<br>105<br>105<br>105<br>107<br>117<br>117<br>117<br>117<br>117<br>117<br>117<br>100<br>100                 | 0.03<br>0.15<br>0.87<br>0.87<br>0.53<br>0.53<br>0.53<br>0.53<br>0.66<br>0.66<br>0.66<br>0.67<br>0.67<br>0.68<br>0.68<br>0.68<br>0.68<br>0.68<br>0.68<br>0.69<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65<br>0.65  | 4 67<br>3 232<br>5 67<br>4 45<br>6 67<br>4 45<br>4 87<br>4 45<br>4 87<br>5 37<br>5 37                     | 91<br>65<br>66<br>87<br>122<br>86<br>122<br>86<br>122<br>86<br>122<br>86<br>122<br>86<br>122<br>86<br>122<br>86<br>122<br>86<br>122<br>122<br>86<br>122<br>122<br>86<br>122<br>122<br>86<br>122<br>122<br>86<br>122<br>122<br>86<br>122<br>122<br>86<br>122<br>122<br>86<br>122<br>122<br>122<br>86<br>122<br>122<br>122<br>122<br>122<br>122<br>122<br>12 | 0.59<br>0.04<br>0.04<br>0.04<br>0.02<br>0.04<br>0.02<br>0.04<br>0.220<br>0.42<br>0.70<br>0.70<br>0.72<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.0  
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| a 4755 (M705)<br>a 5014<br>a 5014<br>a 5014<br>a 5014<br>a 5016<br>a 5051<br>a M701<br>a M701      | 85         204           80         221           112         2009           113         2011           164         188           203         203           165         223           166         223           166         223           166         223           167         200           90         214           79         216           1701         211           84         238           100         202           901         204           100         202           901         204           902         204           100         202           901         204           902         204           903         204           904         205           905         204           905         204           906         219           906         219           906         219           906         219           906         219           908         219           908   
   
  | 55         96           27         104           31         94           36         96           27         80           28         96           32         96           36         96           36         96           37         80           38         96           39         85           30         96           32         91           32         92           37         100           39         96           24         96           37         107           38         107           39         96           24         97           37         107           38         100           42         96           37         107           38         100           42         96           37         107           37         107           37         107           37         107           37         107           37         107  
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| a 4755 (M705)<br>a 4704<br>a 5216<br>a 5265<br>a 5651<br>a 5654<br>b M701<br>a M701<br>a M701<br>a M701<br>a M700<br>a M701<br>a M700<br>b M701<br>a M700<br>b M701<br>a M700<br>b M701<br>b M700<br>b M701<br>b M700<br>b M701<br>b M700<br>b M7000<br>b M70000<br>b M7000<br>b M7000                     | 85         204           89         2211           112         2000           113         2011           1417         2011           164         285           165         2022           106         2232           106         2233           118         2152           100         2179           216         1000           1001         2177           100         2179           100         2179           100         2179           100         2179           100         2179           100         2179           100         2179           100         2179           100         2179           100         2191           86         2204           96         209           96         2191           98         2240           99         206           98         2240           99         208           90         2191           911         2202           92         302      94 </td <td>55         96           271         104           311         94           36         95           272         80           282         96           363         95           364         95           362         96           363         95           364         102           377         102           371         102           372         96           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           374         107           375         107           371         107           372         107           373         107           374         107           375         1</td> <td>0.23<br/>0.22<br/>0.06<br/>0.17<br/>0.00<br/>0.17<br/>0.13<br/>0.13<br/>0.75<br/>0.61<br/>0.64<br/>0.06<br/>0.06<br/>0.06<br/>0.13<br/>0.75<br/>0.61<br/>0.64<br/>0.06<br/>0.06<br/>0.13<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.23<br/>0.51<br/>0.52<br/>0.24<br/>0.06<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.15<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>301 42]<br/>306 50<br/>306 24<br/>306 74<br/>296 36<br/>291 45<br/>331 11<br/>322 59<br/>259 61<br/>336 10<br/>259 61<br/>329 96<br/>336 10<br/>329 96<br/>336 10<br/>337 10<br/>328 50<br/>337 10<br/>337 10<br/>307 1</td> <td>99         90           90         90           90         90           90         90           90         90           90         90           90         90           90         90           90         90           90         90           91         90           105         105           105         105           105         90           105         84           102         84           97         106           108         97           106         106           107         97           90         90</td> <td>0.88<br/>0.82<br/>0.82<br/>0.82<br/>0.86<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52<br/>0.52</td> 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<td></td> <td></td>  | 55         96           271         104           311         94           36         95           272         80           282         96           363         95           364         95           362         96           363         95           364         102           377         102           371         102           372         96           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           373         107           374         107           375         107           371         107           372         107           373         107           374         107           375         1   
   
  | 0.23<br>0.22<br>0.06<br>0.17<br>0.00<br>0.17<br>0.13<br>0.13<br>0.75<br>0.61<br>0.64<br>0.06<br>0.06<br>0.06<br>0.13<br>0.75<br>0.61<br>0.64<br>0.06<br>0.06<br>0.13<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.23<br>0.51<br>0.52<br>0.24<br>0.06<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.15<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   | 301 42]<br>306 50<br>306 24<br>306 74<br>296 36<br>291 45<br>331 11<br>322 59<br>259 61<br>336 10<br>259 61<br>329 96<br>336 10<br>329 96<br>336 10<br>337 10<br>328 50<br>337 10<br>337 10<br>307 1   | 99         90           90         90           90         90           90         90           90         90           90         90           90         90           90         90           90         90           90         90           91         90           105         105           105         105           105         90           105         84           102         84           97         106           108         97           106         106           107         97           90         90   | 0.88<br>0.82<br>0.82<br>0.82<br>0.86<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52<br>0.52   
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| a 4750 (M7CO)<br>a 4750 (M7CO)<br>a 5014<br>a 5014<br>a 5016<br>a 5651<br>a 5651<br>a 5651<br>a 5651<br>a M701<br>a M701         | 85         204           80         221           112         2000           117         2011           104         188           203         203           96         202           106         221           106         222           106         214           96         214           96         214           96         214           96         214           96         214           97         216           98         214           99         204           90         202           93         204           90         217           90         202           90         203           91         204           93         204           90         217           90         217           91         203           91         204           90         217           91         203           90         217           90         217           90         217     <  
   
  | 55         96           27         104           31         96           23         104           36         96           77         80           28         96           32         96           32         86           32         86           32         86           32         86           32         86           32         86           32         86           32         86           32         96           53         92           70         96           55         91           37         107           56         91           37         107           53         117           33         107           52         101           44         102           33         107           52         101           33         107           52         101           52         102           82         108           91         102           92  
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| a 4700 (M705)<br>a 5206<br>a 5206<br>a 5206<br>a 5653<br>a 5654<br>a M701<br>a M701<br>a M701<br>a M701<br>a M706<br>a M701<br>a M706<br>a M706<br>a M705<br>b M811<br>a M846<br>a M705<br>b M811<br>a M846<br>a M705<br>b M811<br>a M846<br>a M705<br>b M810<br>a M706<br>a M701<br>b M810<br>b M8100<br>b M81000<br>b M810000<br>b M810000<br>b M810000<br>b M8100000<br>b M81000000<br>b M81000000000000000000000000000000000000  | 85         204           80         221           112         200           113         201           114         202           115         203           97         203           98         223           106         223           106         223           108         215           99         216           99         214           79         216           901         211           84         238           100         202           901         204           902         204           903         204           905         204           905         204           905         204           905         204           905         204           905         204           905         204           906         219           906         219           906         219           906         219           907         203           908         2240           909  
   
  | 55         96           27         104           31         94           36         96           27         80           28         96           36         96           37         80           38         86           39         86           30         86           31         1012           77         1002           77         1002           53         922           775         1002           53         922           775         1002           53         922           39         96           21         97           331         102           333         102           331         102           331         102           331         102           331         102           332         102           333         102           331         102           332         102           333         102           342         96           352         108 <td>0.23<br/>0.22<br/>0.06<br/>0.17<br/>0.20<br/>0.17<br/>0.13<br/>0.13<br/>0.13<br/>0.13<br/>0.55<br/>0.64<br/>0.00<br/>0.20<br/>0.14<br/>0.00<br/>0.20<br/>0.23<br/>0.23<br/>0.52<br/>0.24<br/>0.52<br/>0.24<br/>0.55<br/>0.52<br/>0.25<br/>0.25<br/>0.25<br/>0.25<br/>0.00<br/>0.20<br/>0.25<br/>0.00<br/>0.25<br/>0.00<br/>0.25<br/>0.00<br/>0.25<br/>0.00<br/>0.25<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>301 42]<br/>306 50]<br/>306 24<br/>306 74<br/>296 36<br/>291 45<br/>294 45<br/>294 45<br/>294 45<br/>294 45<br/>304 74<br/>296 36<br/>294 45<br/>309 96<br/>335 111<br/>329 96<br/>336 64<br/>229 497<br/>325 26<br/>224 97<br/>312 23<br/>224 97<br/>335 57<br/>306 74<br/>274 47<br/>345 51<br/>366 77<br/>306 77<br/>306 27<br/>306 27<br/>306 47<br/>306 37<br/>306 47<br/>307 35<br/>307 34<br/>44<br/>365 37<br/>306 47<br/>306 47<br/>306 37<br/>306 47<br/>307 35<br/>307 36<br/>307 37<br/>306 47<br/>306 37<br/>306 47<br/>306 37<br/>306 47<br/>306 37<br/>306 47<br/>307 36<br/>307 30<br/>307 36<br/>307 36<br/>307 30<br/>307 36<br/>307 30<br/>307 30</td> <td>99<br/>90<br/>90<br/>90<br/>90<br/>90<br/>90<br/>90<br/>90<br/>90<br/>94<br/>107<br/>104<br/>107<br/>104<br/>107<br/>105<br/>107<br/>105<br/>107<br/>105<br/>107<br/>105<br/>107<br/>105<br/>107<br/>105<br/>107<br/>105<br/>107<br/>105<br/>107<br/>105<br/>90<br/>90<br/>97<br/>99<br/>99<br/>99<br/>99<br/>99<br/>90<br/>90<br/>90<br/>90<br/>90<br/>90<br/>90<br/>90</td> <td>0.88<br/>0.82<br/>0.82<br/>0.82<br/>0.82<br/>0.82<br/>0.82<br/>0.82</td> <td>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.0000000<br/>0.00000000</td> <td></td> <td></td>
<td>43.37<br/>55.94<br/>36.80<br/>44.94<br/>44.94<br/>44.94<br/>45.26<br/>50.94<br/>44.94<br/>44.94<br/>45.26<br/>50.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.27<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45</td> <td>122<br/>8 68 99<br/>97<br/>107<br/>107<br/>107<br/>107<br/>107<br/>107<br/>107<br/>10</td> <td>0.03<br/>0.15<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05</td> <td>4.67<br/>3.32<br/>5.67<br/>4.48<br/>5.67<br/>4.45<br/>4.81<br/>8.48<br/>4.83<br/>3.47<br/>5.39<br/>3.79<br/>4.72<br/>3.47<br/>3.47<br/>3.47<br/>3.47<br/>3.47<br/>3.47<br/>3.47<br/>3.47</td> <td>91<br/>95<br/>96<br/>97<br/>97<br/>98<br/>97<br/>122<br/>98<br/>97<br/>122<br/>98<br/>97<br/>122<br/>122<br/>122<br/>123<br/>122<br/>123<br/>125<br/>125<br/>125<br/>125<br/>125<br/>125<br/>125<br/>125</td> 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0.594<br>0.594<br>0.44<br>0.44<br>0.44<br>0.44<br>0.44<br>0.44<br>0.44<br>0.44<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.72<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75   |                |               |
| a 4705 (M7C0)<br>a 4705 (M7C0)<br>a 5014<br>a 5286<br>a 5651<br>a 5651<br>a 5651<br>a 5651<br>a 5651<br>a 5651<br>a 5701<br>a M701<br>a M701<br>a M700<br>a M701<br>a M700<br>a M701<br>a M700<br>a M7000<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700        | 85         204           89         221           112         200           117         2011           104         188           85         203           97         203           98         202           106         221           106         221           108         202           108         203           109         214           101         211           84         255           90         219           90         212           90         202           93         204           90         202           93         204           90         212           90         202           93         204           100         202           93         204           100         202           93         204           100         202           94         202           96         202           96         213           96         213           96         213  
   
  | 55         96           27         104           31         04           33         06           27         80           28         96           32         96           33         85           34         96           32         96           32         96           32         96           32         96           32         96           32         96           32         90           33         92           34         102           37         97           30         92           33         92           34         113           35         113           36         91           37         107           42         96           52         108           91         110           52         108           91         108           92         108           93         107           91         108           92         108           93 </td <td>0.23<br/>0.22<br/>0.06<br/>0.17<br/>0.13<br/>0.13<br/>0.13<br/>0.13<br/>0.13<br/>0.13<br/>0.13<br/>0.45<br/>0.64<br/>0.64<br/>0.64<br/>0.64<br/>0.64<br/>0.64<br/>0.65<br/>0.00<br/>0.00<br/>0.13<br/>0.23<br/>0.61<br/>0.52<br/>0.23<br/>0.61<br/>0.52<br/>0.23<br/>0.61<br/>0.52<br/>0.23<br/>0.51<br/>0.52<br/>0.23<br/>0.51<br/>0.52<br/>0.23<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55<br/>0.55</td> <td>301 42]<br/>306 50]<br/>306 24<br/>306 74<br/>296 36<br/>291 45<br/>331 11<br/>322 59<br/>329 96<br/>329 96<br/>320 77<br/>320<br/>320 77<br/>320<br/>320 77<br/>320<br/>320 77<br/>320<br/>320 72<br/>320 72<br/>320<br/>320 72<br/>320<br/>320<br/>320<br/>320<br/>320<br/>320<br/>320<br/>32</td> <td>993<br/>903<br/>904<br/>905<br/>905<br/>905<br/>905<br/>905<br/>905<br/>104<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105<br/>105</td> <td>0.88<br/>0.85<br/>0.85<br/>0.87<br/>0.86<br/>0.04<br/>0.04<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.04<br/>0.05<br/>0.05</td> <td>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.0000<br/>0.00000<br/>0.00000<br/>0.00000<br/>0.00000000</td> <td></td> <td></td>
<td>45.37<br/>55.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.94<br/>44.95<br/>95.94<br/>44.95<br/>95.94<br/>44.95<br/>95.94<br/>44.95<br/>95.95<br/>44.95<br/>95.95<br/>44.95<br/>95.95<br/>44.95<br/>95.95<br/>45.75<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95.95<br/>95</td> <td>122<br/>89<br/>99<br/>99<br/>107<br/>97<br/>97<br/>100<br/>105<br/>106<br/>107<br/>100<br/>107<br/>100<br/>107<br/>100<br/>107<br/>100<br/>107<br/>100<br/>107<br/>100<br/>107<br/>100<br/>107<br/>100<br/>107<br/>100<br/>100</td> <td>0.03<br/>0.03<br/>0.015<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.0</td> <td>4 677<br/>3 6 077<br/>4 487<br/>4 487<br/>4 481<br/>8 888<br/>4 533<br/>3 477<br/>5 379<br/>3 779<br/>3 530<br/>5 704<br/>5 755<br/>5 520<br/>5 520<br/>5 556<br/>5 556</td> <td>91<br/>95<br/>96<br/>97<br/>122<br/>122<br/>123<br/>124<br/>125<br/>125<br/>125<br/>125<br/>125<br/>125<br/>125<br/>125</td> <td>0.594<br/>0.504<br/>0.00<br/>0.443<br/>0.20<br/>0.443<br/>0.20<br/>0.448<br/>0.00<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.488<br/>0.00<br/>0.71<br/>0.00<br/>0.71<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td></td> <td></td> | 0.23<br>0.22<br>0.06<br>0.17<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.13<br>0.45<br>0.64<br>0.64<br>0.64<br>0.64<br>0.64<br>0.64<br>0.65<br>0.00<br>0.00<br>0.13<br>0.23<br>0.61<br>0.52<br>0.23<br>0.61<br>0.52<br>0.23<br>0.61<br>0.52<br>0.23<br>0.51<br>0.52<br>0.23<br>0.51<br>0.52<br>0.23<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55   | 301 42]<br>306 50]<br>306 24<br>306 74<br>296 36<br>291 45<br>331 11<br>322 59<br>329 96<br>329 96<br>320 77<br>320<br>320 77<br>320<br>320 77<br>320<br>320 77<br>320<br>320 72<br>320 72<br>320<br>320 72<br>320<br>320<br>320<br>320<br>320<br>320<br>320<br>32  
   | 993<br>903<br>904<br>905<br>905<br>905<br>905<br>905<br>905<br>104<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105  | 0.88<br>0.85<br>0.85<br>0.87<br>0.86<br>0.04<br>0.04<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.04<br>0.05<br>0.05  | 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| a 4750 (M700)<br>a 5216<br>a 5216<br>a 5216<br>a 5265<br>a 5265<br>a 5265<br>a 5265<br>a 5265<br>a 5265<br>a 5265<br>a M701<br>a M7001<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700     | 85         204.           80         221           112         2000           117         2011           104         188           203         203           105         202           106         223           106         223           106         223           107         203           108         215.           109         214.           100         2012.           101         211.           84         223.           100         202.           101         210.           102         202.           103         204.           100         217.           103         204.           100         217.           103         204.           681         227.           803         240.           900         217.           103         204.           902         219.           904         212.           905         211.           906         223.           910         243.  
   
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43.37<br>55.94<br>36.80<br>44.94<br>44.94<br>44.94<br>45.26<br>50.54<br>44.90<br>42.26<br>50.54<br>45.76<br>45.76<br>45.76<br>45.76<br>45.76<br>45.76<br>45.76<br>45.76<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.27<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45.26<br>45   | 122<br>8 68 99<br>97<br>107<br>107<br>107<br>107<br>107<br>107<br>107<br>10  | 0.03<br>0.15<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05  | 4.67<br>3.32<br>5.67<br>4.48<br>5.67<br>4.45<br>4.81<br>8.48<br>4.83<br>3.47<br>5.39<br>3.79<br>4.72<br>3.47<br>3.47<br>3.47<br>3.47<br>3.47<br>3.47<br>3.47<br>3.47  | 91<br>95<br>96<br>97<br>122<br>98<br>99<br>122<br>98<br>99<br>122<br>99<br>122<br>99<br>122<br>122<br>122<br>1   |
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| a 4755 (M709)<br>a 4755 (M709)<br>a 5014<br>a 5286<br>a 6651<br>a 6651<br>a 6654<br>a M701<br>a M701<br>a M704<br>a M701<br>a M704<br>a M7006<br>a M705<br>a M706<br>a M707<br>a M704<br>a M704<br>a M704<br>a M704        | 85         204           80         2211           112         2000           113         2011           1417         2011           164         188           203         205           106         2233           108         2151           100         2152           101         2111           84         2232           100         2111           84         2234           100         2111           84         2345           100         2127           100         2127           100         2127           100         2129           100         2129           100         2129           100         2193           114         2120           96         2029           96         2193           97         203           114         2120           98         2341           91         2431           117         2301           118         2131           119         2131   
   
  | 55         96           27         104           31         94           34         95           27         80           28         96           32         96           36         95           36         96           37         80           38         96           38         96           39         96           50         97           101         77           79         102           53         92           57         107           53         92           53         92           53         107           53         107           53         92           53         107           53         107           53         107           53         107           53         107           53         107           53         107           53         107           53         107           53         107           53         108   
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  |                |               |
| a 4750 (M7C0)<br>a 5014<br>a 5014<br>a 5014<br>a 5014<br>a 5014<br>a 5016<br>a 5651<br>a 5651<br>a M701<br>a M700<br>a M7000<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700<br>a M700     | 85         204.           89         221           112         2002           113         2011           114         2021           117         2011           116         2152           106         2233           118         2152           106         2233           118         2152           101         2141           84         2358           1002         2022           1003         2044           1003         2044           1003         2044           88         2240           1014         2122           1005         2162           1005         2162           110         2127           1003         2044           88         2244           1005         2152           1005         2152           1104         2122           1114         2122           1115         2224           1116         2152           1117         2433           1119         2152           110         2142 <td>55         96           27         104           31         94           34         95           27         80           28         96           36         95           36         95           36         96           37         80           38         96           38         96           39         96           277         100           53         92           775         100           53         92           701         96           277         96           55         91           44         102           277         96           56         91           44         102           24         97           37         107           583         1103           224         100           37         101           39         96           20         100           31         101           32         100           31         101</td> <td>0.23<br/>0.22<br/>0.06<br/>0.12<br/>0.20<br/>0.17<br/>0.13<br/>0.13<br/>0.13<br/>0.5<br/>0.61<br/>0.64<br/>0.06<br/>0.02<br/>0.12<br/>0.15<br/>0.65<br/>0.23<br/>0.23<br/>0.05<br/>0.22<br/>0.22<br/>0.23<br/>0.05<br/>0.23<br/>0.05<br/>0.23<br/>0.05<br/>0.02<br/>0.23<br/>0.05<br/>0.05<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.02<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0</td> <td>301 42]<br/>306 00<br/>306 24<br/>306 74<br/>296 36<br/>294 85<br/>307 12<br/>309 62<br/>296 36<br/>294 85<br/>309 66<br/>309 65<br/>309 65<br/>300 75<br/>300 7</td> <td>99         90           901         90           902         90           903         90           904         90           905         90           901         90           901         90           901         90           90         90           90         90           90         90           90         90           90         90           90         100           1001         107           1051         1051           1051         1051           1051         1051           1051         1051           1052         108           994         97           995         94           905         106           1017         99           901         101           1011         101           901         901           902         902           903         904</td> <td>0.88<br/>0.82<br/>0.82<br/>0.87<br/>0.86<br/>0.64<br/>0.64<br/>0.65<br/>0.65<br/>0.65<br/>0.65<br/>0.65<br/>0.65<br/>0.65<br/>0.65</td> 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<td>43.37<br/>55.94<br/>36.80<br/>44.94<br/>44.94<br/>44.94<br/>45.26<br/>50.54<br/>44.90<br/>42.26<br/>50.54<br/>45.76<br/>45.76<br/>45.76<br/>45.76<br/>45.76<br/>45.76<br/>45.76<br/>45.76<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.27<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45.26<br/>45</td> <td>122<br/>89<br/>99<br/>197<br/>107<br/>107<br/>107<br/>107<br/>107<br/>107<br/>107<br/>10</td> <td>0.03<br/>0.03<br/>0.015<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.05<br/>0.0</td> <td>4.67<br/>3.607<br/>4.457<br/>4.451<br/>4.851<br/>8.888<br/>4.533<br/>3.47<br/>5.399<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.799<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.999<br/>2.99</td> <td>91<br/>91<br/>122<br/>86<br/>96<br/>97<br/>122<br/>122<br/>122<br/>122<br/>122<br/>122<br/>122<br/>12</td> <td>0.594<br/>0.594<br/>0.900<br/>0.481<br/>0.200<br/>0.422<br/>0.422<br/>0.422<br/>0.422<br/>0.448<br/>0.000<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0.70<br/>0</td> <td></td> <td></td> | 55         96           27         104           31         94           34         95           27         80           28         96           36         95           36         95           36         96           37         80           38         96           38         96           39         96           277         100           53         92           775         100           53         92           701         96           277         96           55         91           44         102           277         96           56         91           44         102           24         97           37         107           583         1103           224         100           37         101           39         96          
20         100           31         101           32         100           31         101  
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4.67<br>3.607<br>4.457<br>4.451<br>4.851<br>8.888<br>4.533<br>3.47<br>5.399<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.799<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.999<br>2.99 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0.594<br>0.594<br>0.900<br>0.481<br>0.200<br>0.422<br>0.422<br>0.422<br>0.422<br>0.448<br>0.000<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0   |                |               |
| a 4755 (M705)<br>a 5014<br>a 5014      | 85         204           89         221           112         200           113         201           114         202           115         203           90         223           106         223           106         223           106         223           107         200           90         214           79         216           90         214           79         216           90         214           101         211           84         238           100         202           90         204           90         204           90         204           90         204           90         204           90         204           90         204           90         204           91         204           90         204           90         204           90         204           90         204           90         204           90         204   
   
  | 55         96           27         104           31         94           34         95           27         80           28         96           36         95           36         95           36         96           37         80           38         96           38         96           39         96           277         100           53         92           775         100           53         92           701         96           277         96           55         91           44         102           277         96           56         91           44         102           24         97           37         107           583         1103           224         100           37         101           39         96           20         100           31         101           32         100           31         101   
   |
0.23<br>0.22<br>0.06<br>0.17<br>0.20<br>0.17<br>0.13<br>0.13<br>0.13<br>0.55<br>0.64<br>0.00<br>0.20<br>0.23<br>0.24<br>0.01<br>0.25<br>0.24<br>0.23<br>0.24<br>0.00<br>0.20<br>0.25<br>0.24<br>0.00<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05 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| a 1705 (M705)<br>a 1705 (M705)<br>b 2014<br>b 2014<br>b 2016<br>b 2017<br>b 2017         | 85         204           80         2211           112         2000           113         2011           114         2016           97         2003           98         2223           106         2233           108         2152           108         2152           108         2152           109         2164           101         2111           84         2238           100         2112           902         2044           100         2127           100         2127           100         2127           100         2127           100         2127           100         2127           100         2127           100         2191           80         2219           90         2219           90         2014           9111         2207           94         2122           94         2122           94         2122           94         2122           94         2122   
   
  | 55         96           27         104           31         04           33         06           77         80           28         06           32         06           33         86           53         86           53         86           52         101           79         100           50         96           52         101           102         002           50         97           100         53           57         100           53         92           75         100           44         102           39         96           50         113           28         102           33         100           44         102           39         96           50         113           52         101           52         101           52         101           52         103           52         103           52         103   
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0.23<br>0.22<br>0.06<br>0.17<br>0.20<br>0.17<br>0.13<br>0.13<br>0.13<br>0.55<br>0.64<br>0.00<br>0.20<br>0.23<br>0.24<br>0.01<br>0.25<br>0.24<br>0.23<br>0.24<br>0.00<br>0.20<br>0.25<br>0.24<br>0.00<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.25<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05 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0.564<br>0.504<br>0.504<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.70<br>0.40<br>0.70<br>0.00<br>0.48<br>0.00<br>0.48<br>0.00<br>0.48<br>0.00<br>0.48<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0 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# American Crystal Sugar Co. - Technical Service Center Southern Minnesota Commercial Coded Trial - Lattice Trial 995602, Lake Lillian, MN Planting Data: 04/20/1999 Harvest Date: 10/05/1999 42 Entries & Replications 2 Rows/Piot 1 Samples/Piot

Entry	Source		1999 ec/T (lbs)		Re Re	1999 c/A (lbs)		Loss to	1999 Mol.	1	Y	1999 ield (T/A			1995 Sugar %		N	1995 a (ppm)	
Line y	Sunna	Maan	N	P-val	Mean	*	P-val	Mean	5	P-val	Mean	5	P-val	Mean	%	P-val	Mean	34	Ρ.
Beta 3945	95	316.66	112	0.00	7062.64	109	0.03	1.21	90	0.62	22.34	97	0.42	17.04	111	0.00	323.45	76	-
Beta 4705 (M705)	69	281.80	100		5921,37	91	0.04	1.32	107	0.05	21.08	92	0.02	15.41	100	0.76	476.95	102	-
Seta 5014 Seta 5296	112	300.28 291.32	106	0.00	6449.06	100	0.02	1.13	94	0.01	20.08	87	0.00	15,73	103	0.11	353.80	83	
Seta 6863	-104	296.95	105	0.00		91	0.03	1.55	90	0.00	19.86	86	0.00	15.96	104	0.01	364.73	65	
Deta 6904	85	304.89	108	0.00		104	0.31	1.15	93	0.05	22.12	196	0.27	16,30	107	0.00	200,11 350.39	91	-
Beta M701 Beta M703	97	300.53	107	0.00		116	0.00	1.20	98	0.48	25.13 24.94	109	0.01	16.23	104	0.01	362.40	85	-
Beta M700	100	285.61	101	0.50		105	0.22	1.27	103	0.35	23.82	104	0.29	15.56	101	0.35	484.65	109	
Beta M811	118	262.26	100		6100.61	94	0.15	1.13	92	0.02	21.45	83	0.06	15.25	90	0.70	426.28	100	
Beta M646	09 79	274.37	97		5950.26	92	0.05	1.30	105	0.14	21.74 22.72	16 19	0,12	15.02	99 99	0.18	401,57	115	-
Beta M900 Crystal 205	101	282.35	100	0.95		100	0.95	1.26	102	0.63	22.63	98	0.56	14.80	97	0.06	422.40	99	-
Crystal 302	84	281.51	100	19.0	6585.65	102	0.69	1.33	108	0.02	23.35 22.66	102	0.65	15.42	101	0,73	417.22	87	
Crystal 309	116	284.31	101	0.67	6457.62	100	0.93	1.33	108	0.03	22.66	99	0.68	15.54	101	0.39	409.74	96	-
Crystal 555 Crystal 922	105	263.13 266.17	100	0.84	6483.19 6141.97	100	0.99	1.24	101	0.001	21.40	90	0.05	15.38	100	0.68	374.68	85	-
Crystal 9744	80	276.80	98	0.31		93	0.08	1.15	93	0.05	21.71	94	0,11	14.99	98	0.14	348.37	81	
HM 7057	120	291.99	104	0.06		91	0.63	1.13	91	0.02	20.09	- 87	0.00	15.72	103	0.11	380.58	87	
HM 7073 HM Hector	100	265.09	101	0.56		93	0.10	1.27	103	0.35	21.19 22.23	(段 97	0.02	15.33	101	0.43	367.23	86	-
HM Resist	88	289.51	103		7127.81	110	0.01	1.15	90	0.04	24.64	107	0.04	15.61	1021	0.26	444.78	104	-
HM Viking	81	286.96	102	0.35	5970.64	92	0.05	1.27	103	0,42	20.61	90	0.00	15.62	102	0.24	483.03	113	
Holly 08 April 3	83	265.90	94	0.00	6694.17	103	0.42	1,43	116	0,00	25.51	100	0.01	14,72	96	0.01	548.29 443.83	128	-
fally 98HX506 fally 98HX829	114	278.98	99	0.55	5937.75 7254.14	92	0.04	1.23	93	0.92	21.29 25.08	100	0.01	15.61	102	0.30	366.37	90	-
Holly 90HX933	90	287.47	102	0.30	6386.41	99	0.72	1.24	101	0.63	22.21	97	0.33	15.61	102	0.25	409.42	90	
Holly 99HX941	108	254.48	90	0.00	6341,74		0.60	1.29	105	0,18	25.05	109	0.01	14.02	91	0.00	641,30	150	-
Holly 99HX942 Holly 99HX957	115	273.71 256.96	97	0.10	6996.28 6456.23	108	0.05	1.24	101	0.61	25.54	110	0.00	14.94	97	0.09	440.51 657.14	103	-
HoRy 99HX958	111	252.17	89		6387,18	00	0.72	1.50	122	0.00	25.47	111	0.00	14,11	82	0.00	650.32	152	
Holly Rival	91	261.18	83	0.00	5470.57	64	0.00	1.39	113	0.00	20.90	.91	0.01	14.44	.94	0.00	348.75	81	_
Seeden SX Later	115	275.09	58		6057,37	901	0.11	1.27	103	0.05	21.94 21.07	95	0.19	15.62	06	0.19	335.82	78	-
Seedex SX1012 Seedex SX1018	87	290.10	103	0.12	6121.34	100	0.17	1.14	102	0.02	23,63	103	0.41	15.60	08	0.16	396.01	93	-
/an.da/ Have H46109	- 94	291.23	103	0.08	7127,45	110	0.02	1,15	90	0.04	24.57	107	6.08	15.71	102	0.12	384.74	85	
Cart der Have H46140	110	293.05	104	0,03	0010.25	107	0.10	1.14	\$0	0.64	23.50	103	0.44	15 60	103	0.05	363,53	85	-
Van der Have H46175	82	261.00	104	0.00	6621.19	105	0.20	1.18	64	0.09	26.09	114	0.00	14.21	100	0.00	463.60	113	-
/an der Have H46177 /an der Have H68108	80	293.42 209.96	96	0.02	6630.40	102	0.56	1.39	112	0.00	23.45 24.47	108	0.06	14.88	37	0.06	533.22	125	
(an der Have H68151	113	209.96 276.99 259.56	98	0.52	6798.92	105	0.22	1.31	1062	0.07	24.47	106	0.06	15.15	99	0.42	467,48	114	_
Check of Mean Coeff. Of Var (%) F Valu Vean LSO (0.05)		262.09 4.33 7.56** 14.53 19.10	57		6480.57 8 39 3.33** 744.44 981.85	11 15	5.	8.57 55** 0.12 0.16	10 13		5.20" 2.23 2.94	10 13	8	3,70 7,21** 0.68 0.59	6		19.94 6.71** 100.22 132.17	23 31	
Van der Have H68152 Check of Mean Deff. Of Var (%) F Valu Kean LSD (0.05) Mean LSD (0.01) Entry	Source	4.33 7.56** 14.53 19.10			8.39 3.33 <sup>-+</sup> 744.44 981.85	15 1995 N (ppm)		0.12 0.16 Bolters	13 1999 N		2.23 2.94 Eme		× 1	0.58 0.59	6 1999 are (%)		5.71**		
Check of Mean Coeff, Of Var (%) F Valu Wean LSO (0.05) Wean LSO (0.01)		4.33 7.56** 14.53 19.10	7 1995 ((ppm) %	P-val	8.09 3.33** 744.44 981.85	15 1995 N (ppm)	5. P-val	0.12 0.16	13 1999 N	P-val	2.23 2.94	13 1999		0.59 0.59	6 1999	P-val	5.71**		
Chock of Mean Deff. Of Var (%) F Valu Wean LSO (0.05) Wean LSO (0.01) Entry	Source 95	4.33 7.56** 14.53 19.10 Mean 1923.03	7 1995 (ppm) 74 104]	P-val	8.59 3.33** 744.44 981.85 Mean 309.06	15 1999 N (ppm) %	P-val	0.12 0.16 Bolters Mean 0.00	13 1999 N		2.23 2.94 Eme Mean 40.53	13 1999 rgence ( %	P-val 0.82	0.59 0.59 T Mean 3.67	6 1995 are (%) %	P-val 0.26	5.71**		
Check of Mean Coeff. Of Var (%) Valu Wean LSD (0.05) Mean LSD (0.01) Entry Seta 3945 Seta 3955 (M705)	Source	4.33 7.56** 14.53 19.10 Mean	7 1995 ((ppm) %	P-val	8.39 3.33** 744.44 981.85 Am Mean	15 1999 N (ppm) %	P-val	0.12 0.16 Botters Mean	13 1999 N		2.23 2.94 Eme Mean 40.53 32.29	13 1999 rgence (	Ne)   Pread	0.59 0.59 T Mean	6 1999 are (%) %	P-val	5.71**		
Check of Mean Coeff. Of Var (%) Valu Vean LSD (0.05) Mean LSD (0.01) Entry Seta 3945 Seta 3945 Seta 4705 (M705) Seta 9295	Source 95 89 112 117	4.33 7.56** 14.53 19.10 Mean 1023.03 2028.07 1723.77 1729.12	7 1995 (ppm) % 104 109 80 93	P-val 0.25 0.00 0.04 0.04	9.39 3.33** 744.44 981.85 Am Mean 309.08 306.00 255.49 306.15	15 1995 N (ppm) % 101 100 83 100	P-val 0.93 0.94 0.01 0.95	0.12 0.16 Bolters Mean 0.00 0.00 0.00 0.53	13 1999 N		2 23 2.94 Eme Mean 40.53 32 29 51.86 42,49	13 1999 1999 1997 1999 1999 1999 1999 19	Prvat 0.52 0.07 0.06 0.89	21** 0.59 0.59 Mean 3.67 2.96 4.69 4.61	6 1999 are (%) % 84 01 108 111	P-val 0.28 0.54 0.59 0.40	5.71**		
Check of Mean Coeff, Of Var (%) Y alay Mean LSD (0.05) Mean LSD (0.01) Entry Seta 30645 Seta 3055 Seta 3055 Seta 3056 Seta 3053	Source 95 89 112 117 104	4.33 7.56** 14.53 19.10 Mean 1022.03 2028.07 1723.77 1729.12 1583.04	7 1995 (ppm) % 104 109 80 93 65	P-val 0.25 0.00 0.04 0.04	8.59 3.33** 744.44 981.85 Mean 309.06 306.90 256.49 306.16 305.66	15 1995 N (ppm) % 101 100 83 100 95	P-val 0.90 0.94 0.01 0.95 0.93	0.12 0.16 Bolters Mean 0.00 0.00 0.53 0.00	13 1999 N		2.23 2.94 Eme Mean 40.53 32.20 51.86 42.49 27.85	13 1999 1999 1997 1999 1999 1999 1999 19	%) Prval 0.67 0.00 0.89 0.01	21** 0.58 0.59 T Mean 3.67 2.96 4.69 4.69 4.69	6 1999 are (%) % 84 01 108 111 108	P-val 0.28 0.54 0.59 0.40 0.59	5.71**		
Check of Mean Coeff. Of Var (%) 5 Valu Wean LSD (0.05) Mean LSD (0.05) Seta 3945 Seta 3945 Seta 3945 Seta 5036 Seta 6953 Seta 6954	Source 95 80 112 117 104 85	4.33 7.56** 14.53 19.10 Mean 1023.03 2028.07 1723.77 1729.12 1583.04 1716.84	7 1995 (ppm) 16 104 109 80 93 65 93	P-val 0.25 0.00 0.04 0.04 0.00 0.03	8.39 3.33** 744.44 981.85 <b>Am</b> <b>Mean</b> 309.06 306.90 255.49 305.66 289.39	15 1999 N (ppm) % 101 100 83 100 95 94	P-val 0.90 0.01 0.05 0.03 0.33	55** 0.12 0.16 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Errer Mean 40.53 32.29 51.86 42.49 27.85 43.29	13 1999 1999 1999 1999 1999 1999 1999 1	%) Prval 0.62 0.67 0.06 0.89 0.01 0.77	21** 0.68 0.59 T Mean 3.67 2.96 4.69 4.69 4.69 4.27	6 1999 are (%) % 84 01 108 111 108 98	P-val 0.28 0.54 0.59 0.40 0.59 0.90	5.71**		
Check of Mean Coeff, Of Var (%) F Value Kean LSD (0.05) Mean LSD (0.05) Entry Seta 3945 Intra 4955 (M705) Intra 4953 Intra 4953 Intra 6953 Intra 6953 Intra 6953 Intra 6953	Source 65 69 112 117 104 85 97 86	4.33 7.56** 14.53 19.10 Mean 1923.03 2028.07 1723.07 1729.72 1553.04 1716.84 1769.99	7 1999 (ppm) % 104 100 80 80 80 80 93 93 97 80	P-val 0.25 0.00 0.04 0.04 0.00 0.00 0.00 0.00	8.59 3.33** 744.44 981.85 Mean 309.08 306.90 255.49 306.16 305.66 289.39 228.68 312.27	15 1999 N (ppm) % 101 100 83 100 95 94 107 102	P-val 0.93 0.96 0.01 0.95 0.93 0.93 0.25 0.79	0.12 0.18 Bolters Mean 0.00 0.00 0.53 0.00 0.00 0.00 0.00 0.00	13 1999 N		2 23 2.94 Eme Mean 40.53 32 29 51.86 42,49 27.85 43,29 43,49 334,31 31.65	13 1999 rgence ( 5 77 124 102 104 82 76	%) P+val 0.82 0.07 0.00 0.89 0.01 0.75 0.76 0.76	7.21** 0.58 0.59 T Mean 3.67 2.96 4.69 4.69 4.69 4.69 4.69 4.69 4.69 4	6 1999 are (%) % 84 01 108 111 108	P-ival 0.28 0.54 0.59 0.40 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.5	5.71**		
Check of Mean Coeff. Of Var (%) Valu Vean LSD (0.05) Mean LSD (0.05) Entry Seta 3545 Seta 4755 (M705) Seta 4755 (M705) Seta 4755 (M705) Seta 4755 Seta 9504 Seta M701 Seta M705 Seta M706	Source 95 60 112 117 104 85 97 86 106	4.33 7.56*** 14.53 19.10 Mean 1923 03[ 2028.07] 1723.77 1729.12 1583.04 1789.99 1549.99 1549.99	7 1995 ((ppm)) 14 104 109 80 93 93 93 93 100	P-val 0.25 0.00 0.04 0.04 0.00 0.00 0.00 0.30 0.30	9.99 3.33** 744.44 981.85 Mean 309.05 255.49 305.66 289.39 305.66 289.39 305.65 236.68 305.25 238.39 312.37 312.35	15 1995 N (ppm) % 101 100 83 100 95 95 95 107 102 102	P-val 0.93 0.00 0.55 0.53 0.33 0.33 0.33 0.79 0.75	0.12 0.18 Bottars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme Mean 40.53 32.20 32.20 32.20 32.20 32.20 27.85 42.49 27.85 43.29 34.31 31.35 31.45 41.71	13 1999 rgence ( 5 77 124 102 67 67 104 82 76 100	%) P+val 0.82 0.07 0.00 0.89 0.01 0.77 0.16 0.00 0.00 0.00 0.00	2.01" 0.68 0.59 Mean 2.67 3.96 4.69 4.69 4.69 4.69 4.69 4.69 4.27 3.70 4.11 3.59	6 1999 are (%) % 84 01 108 111 108 98 85 85 85 85	P-val 0.28 0.54 0.59 0.40 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.5	5.71**		
Check of Mean Coeff, Of Var (%) F Vala Keán LSO (0.05) Mean LSD (0.05) Seta 3945 Ista	Source 95 89 112 117 104 85 97 85 97 86 106 118	4.33 7.56** 14.53 19.16 Mean 1023.03 2028.01 2028.01 2028.02 1723.77 1729.12 1583.04 1716.84 1976.99 1549.90 1967.87	7 1995 ((ppm)) 14 104 104 104 109 80 93 93 93 93 93 93 93 93 93 93	P-val 0.25 0.00 0.04 0.04 0.00 0.00 0.00 0.00	8 99 3.33** 744.44 901.85 Mean 300.08 306.60 255.40 305.60 255.40 305.60 255.40 305.90 305.30 305.40 305.30 305.90 305.30 300 305.30 300 30000000000	15 1999 N (ppm) N 101 100 83 100 95 94 100 95 94 102 102 79	P-val 0.50 0.56 0.55 0.33 0.33 0.25 0.76 0.76 0.76	0.12 0.16 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme Mean 40.53 32 29 51.86 42,49 27.85 43,29 43,49 334,31 31.65	13 1999 rgence ( 5 77 124 102 67 104 87 104 87 104 87 100 120	%) P+val 0.82 0.07 0.00 0.89 0.01 0.75 0.76 0.76	7.21** 0.58 0.59 T Mean 3.67 2.96 4.69 4.69 4.69 4.69 4.69 4.69 4.69 4	6 1999 are (%) % 844 01 108 111 108 98 98 98 98 98 98 98 98 98 99 91	P-val 0.28 0.54 0.59 0.40 0.59 0.30 0.30 0.71 0.49 0.52	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Mean LSO (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry Seta 3945 Seta 3945 Seta 795 (M705) Seta 795 Seta 795 Se	Source 65 69 112 117 104 85 97 86 106 118 99 99 79	4.33 7.56*** 14.53 19.10 19.20 19.20 19.20 19.20 1723,77 1729,12 1583,04 1718,89 1540,80 19.07,87 1866,72 1835,70 1648,65	7 1995 (ppm) 104 104 104 104 104 104 104 104	P-yal 0.25 0.04 0.04 0.04 0.00 0.00 0.30 0.30 0.30	9 99 3.33** 901 85 901 85 Mean 309 08 306 50 255 49 306 16 305 66 289 39 228 68 312 27 313 36 243 04 343 09 255 24	15 1999 N (ppm) 5 101 100 95 94 100 100 100 100 100 100 100 100 100 83	P-val 0.90 0.010 0.55 0.55 0.55 0.55 0.55 0.55 0.	55** 0.12 0.16 Boltars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2,94 Eme Mean 40,53 32,297 51,66 42,69 27,85 43,29 34,31 31,65 43,29 34,31 31,65 41,71 56,64 41,71 56,64 53,65	13 1999 rgence ( 5 87 77 124 102 67 104 82 76 100 100 129	%) P-val 0.67 0.67 0.69 0.69 0.01 0.77 0.16 0.00 0.00 0.00 0.00 0.00 0.00 0.00	21*** 0.59 <b>Mean</b> 2.67 3.96 4.69 4.61 4.61 4.61 4.61 4.61 3.70 3.70 3.94 4.61 5.82	6 1999 are (%) % 844 011 108 965 858 858 011 103 1034	P-val 0.288 0.544 0.569 0.569 0.569 0.569 0.560 0.300 0.711 0.489 0.524 0.524	5.71**		
Check of Mean Coeff: Of Var (%) 'Vais Wain LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry Seta 3945 refa 4755 (M705) leta 5014 Seta 9554 Seta 9555 Seta 9554 Seta 9554 Seta 9554 Seta 9554 Seta 9555 Seta 9554 Seta 9555 Seta 9554 Seta 9555 Seta 95555 Seta 95555 Seta 95555 Seta 95555 Seta 9555555 Seta 9555555555555555555555555555555555555	Source 65 69 112 157 104 85 97 86 106 118 99 106 118 99 107 104	4.33 7.56*** 14.53 19.10 1023.03 2028.07 1729.12 1583.04 17769.59 1540.30 1907.87 1866.72 1866.72 1866.55	7 (ppm) % 104 104 109 83 83 85 93 83 85 93 83 85 93 83 85 93 97 100 98 93 97 100 93 97 100 93 97 100 93 97 100 93 93 93 93 93 93 93 93 93 93 93 93 93	P-val 0.25 0.00 0.04 0.04 0.00 0.00 0.00 0.00 0.0	8 99 3.33** 744.44 981.85 Mean 309.08 306.50 255.49 305.66 289.39 328.64 312.27 313.38 312.27 313.38 312.25 255.21 312.65 255.21 312.65 255.21 312.65 255.21 312.65 255.21 312.65 255.21 312.65 255.21 312.65 255.21 255.21 255.21 255.25 25	15 1999 N (ppm) N 101 100 95 94 107 102 102 102 102 63 102	P-val 0.93 0.60 0.65 0.55 0.78 0.78 0.78 0.78 0.78	55** 0.12 0.16 Boltars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme 40.53 32.29 51.86 42.49 34.31 31.85 34.31 31.85 34.31 31.65 34.35 34.31 44.08 53.65 53.65 53.65	13 1999 rpance ( 5 57 124 102 67 104 82 76 100 134 100 129 109 109	74) Prvat 0.82 0.67 0.06 0.89 0.51 0.51 0.51 0.51 0.51 0.50 0.51 0.50 0.51 0.51 0.55 0.51 0.55 0.51 0.55	21*** 0 588 0 599 7 Mean 3.577 2.966 4.669 4.661 4.669 4.661 4.669 4.611 3.590 4.511 3.590 4.512 5.590 4.612 4.613 5.590 4.610 5.5000 5.50000 5.50000 5.500000000	6 1999 are (%) % 844 01 108 96 111 108 96 96 96 97 91 103 104 159	P-val 0.28 0.54 0.59 0.40 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.5	5.71**		
Check of Mean Coeff, Of Var (%) Yeahu Aean LSO (D.05) Mean LSD (D.05) Mean LSD (D.05) Setta 3545 Intra 3555 Intra 35555 Intra 3555555 Intra 35555	Source 95 69 112 117 104 85 97 86 106 106 106 106 198 79 79 101 84	4.33 7.56*** 14.53 19.10 19.23 031 2028.07 1723.77 1729.12 1583.04 1778.99 1549.90 1549.90 1549.90 1549.80 1540.80 155	7 1995 (ppm) 104 104 104 104 104 104 104 104	P-val 0.25 0.00 0.04 0.04 0.00 0.36 0.36 0.36 0.36 0.36 0.36 0.36	8.99 3.33** 744.44 981.85 009.06 306.60 306.60 306.60 306.60 306.60 306.60 306.60 306.60 306.50 305.50 306.50 305.	15 1999 N (ppm) N (ppm) 101 100 83 100 99 4 107 102 102 102 112 83 102 111	P-val 0.80 0.60 0.55 0.63 0.25 0.78 0.78 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	0.12 0.16 Boltars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2.23 2.94 Eme Myan 40.53 32.20 51.85 42.49 27.85 43.29 34.31 31.85 41.71 56.64 44.00 53.85 41.71 56.64 44.52 53.85 57.81	13 1999 rgence ( 77 124 102 67 104 82 76 104 82 76 104 104 104 104 104 104 104 104	76) P-val 0.82 0.07 0.00 0.89 0.01 0.16 0.08 0.09 0.01 0.00 0.00 0.09 0.00	2,21** 0,680 0,590 <b>T</b> Mean 2,677 2,966 4,669 4,669 4,669 4,669 4,669 4,669 4,669 4,677 3,770 3,784 4,669 4,585 5,852 6,952 4,551	6 1995 are (%) % 84 91 108 111 108 91 108 85 95 95 91 103 103 104	P-val 0.54 0.54 0.59 0.40 0.59 0.30 0.30 0.71 0.45 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.5	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Asan LSO (D.05) Asan LSO (D.05) Batry Beta 2065 Beta 2055 Beta 2055 B	Source 95 89 1122 1177 104 97 86 106 108 99 750 101 84 116 105	4.33 7.56*** 14.53 19.10 <b>Mean</b> 1023.03 2028.07 1723.77 1729.12 1583.04 1716.84 1716.84 1716.84 1758.99 1540.85 1964.85 1964.85 1966.85 1646.85 1666.85 1756.85 1666.8	7 1995 (ppm) 74 104 109 83 93 93 93 93 93 93 93 93 93 9	P-val 0.25 0.04 0.04 0.04 0.05 0.30 0.30 0.30 0.30 0.30 0.30 0.30	8.99 3.33** 744.44 901.85 Mean 309.08 306.90 206.69 305.66 208.99 228.68 312.36 313.36 31	15 1999 N (ppm) 101 100 83 100 83 100 99 94 107 102 75 102 75 102 102 102 102 101 101 101 105 107 100 100 100 100 100 100 100	P-val 0.93 0.16 0.01 0.53 0.33 0.33 0.75 0.75 0.05 0.05 0.05 0.07 0.07 0.07 0.07 0.07	55** 0.12 0.16 Boltars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2.23 2.94 Eme 40.53 32.29 51.86 42.29 51.86 42.29 32.785 32.27 34.21 31.65 41.21 31.65 44.26 55.65 57.42 56.762 56.760	13 1999 rgence ( 5 77 124 102 67 104 82 100 134 100 134 129 109 138 129 109 138 129 109 138 129 109 138 138 138 138 138 138 138 138	Ne) P-val 0.627 0.607 0.601 0.601 0.777 0.166 0.609 0.669 0.609 0.468 0.609 0.468 0.609 0.46	21*** 0.68 0.59 Mean 2.66 4.69 4.61 4.61 4.61 4.61 4.61 4.61 4.61 4.61	6 1999 are (%) % 84 01 108 108 96 85 98 99 91 103 103 159 154 159 104 87 159	P-val 0.28 0.549 0.549 0.569 0.569 0.569 0.569 0.569 0.520 0.711 0.450 0.520 0.520 0.5400 0.540000000000	5.71**		
Check of Mean     Coeff, Of Var (%)     Vala     Koán LSO (0.05)     Mean LSO (0.05)     Mean LSO (0.05)     Seta 3945     Seta 3945     Seta 3945     Seta 3945     Seta 6953     Seta 6954     Seta 6953     Seta 6954	50urce 95 89 112 117 107 108 108 108 108 108 108 108 108	4.33 7.56*** 14.53 19.10 <b>Mean</b> 1022 631 2028.07 1729.12 1583.04 17789.59 1540.30 1907.87 1835.70 1648.65 1806.22 1835.70 1648.65 1806.23 1806.24 1806.29 1625.83	7 1995 (ppm) 104 109 80 93 93 93 93 93 93 93 93 93 93	P-val 0.25 0.00 0.04 0.04 0.00 0.30 0.30 0.30 0.37 0.45 0.75 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.0	8 39 3.33** 744.44 981.85 Am. Mean 309.05 306.60 255.49 306.60 228.99 228.68 312.27 313.38 243.04 243.04 243.05 255.43 255.43 255.44 306.25 255.44 255.25 255.44 255.25 255.44 255.25 255.44 255.25 255.44 255.25 255.44 255.25 255.44 255.25 255.44 255.25 255.44 255.25 255.45 255.5	15 1999 N (ppm) N 101 100 83 100 99 94 107 102 102 102 102 102 102 102 102	P-val 0.93 0.169 0.01 0.53 0.33 0.33 0.78 0.78 0.05 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05 0.07 0.05	55** 0.12 0.16 Bofbars Bofbars 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2 94 Ems 40 53 32 29 51,66 42,40 27,85 43,29 34,31 34,31 34,31 34,31 34,31 55,60 44,561 53,85 53,85 55,670 33,854	13 1999 rgence ( 5 77 124 102 67 104 82 704 82 704 106 126 126 109 126 129 126 126 126 126 126 126 126 126	%) P-val 0.52 0.07 0.06 0.57 0.05 0.07 0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05	2 21** 0 48 0 59 0 59 Mean 2.667 2.961 4.69 4.69 4.69 4.69 4.69 3.94 3.	6 1999 are (%) % 844 01 100 101 100 90 90 90 90 90 90 90 103 104 88 97 136	P-val 0.288 0.544 0.599 0.441 0.599 0.599 0.599 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.542 0.542 0.542 0.542 0.543 0.543 0.543 0.544 0.544 0.544 0.544 0.544 0.544 0.544 0.545 0.545 0.546 0.466 0.546 0.546 0.466 0.546 0.460 0.460 0.400 0.	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Aean LSO (D.05) Aean LSO (D.05) Seta 2045 Seta 2055 Seta 4705 (M705) Seta 4705 (M705) Seta 5014 Seta 5015 Seta 5015 Set	Source 955 899 1122 1104 855 995 106 1186 999 999 1071 846 1065 1055 1055	4.33 7.56*** 14.53 19.10 1923.03 2028.07 1729.72 1729.72 1729.72 1729.72 1583.04 17716.84 1789.99 1649.90 1649.90 1649.85 1640.85 1640	7 1995 (ppm) 104 100 803 803 803 803 803 803 804 1003 804 1003 804 1003 804 1003 804 1004 803 803 803 803 803 803 803 803	P-val 0.25 0.04 0.04 0.04 0.00 0.00 0.00 0.00 0.0	8.99 3.33** 744.44 901.85 Mean 300.00 255.49 305.66 305.66 313.27 313.30 228.204 313.27 313.30 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.27 313.305 228.204 313.305 228.204 313.305 228.204 313.305 228.204 313.305 228.204 313.305 313.305 228.204 313.305 31	15 1999 N (ppm) 10 100 83 100 95 94 102 102 102 102 102 102 102 102	P-val 0.93 0.16 0.01 0.53 0.33 0.33 0.75 0.75 0.05 0.05 0.05 0.07 0.07 0.07 0.07 0.07	55** 0.12 0.16 Boltars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2 94 Eme 40 533 32 29 51,86 42,49 27,85 43,29 34,31 31,85 34,31 31,85 34,32 34,32 34,33 31,85 34,55 44,40 53,855 45,51 53,65 45,51 54,50 33,98 32,84 45,81 54,65 33,55 45,65 45,55 45,6545,55 45,65645,556 45,65645,556 45,656 45,65645,556 45,65645,556 56,656 56,656 56,656 56,65656,556 56,656 56,65	13 1999 rgence ( % 87 77 124 102 67 104 87 104 100 129 106 129 106 129 106 129 106 129 109 109 109 109 109 109 109 10	%)         P-val           0.82         0.67           0.69         0.89           0.85         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.65         0.65           0.55         0.55	21*** 0.68 0.59 Mean 2.66 4.69 4.61 4.61 4.61 4.61 4.61 4.61 4.61 4.61	6 1999 are (%) 5 5 5 5 5 5 5 5 5 5 5 5 5	P-ival 0.284 0.544 0.599 0.401 0.599 0.302 0.711 0.522 0.0000 0.00000 0.00000 0.0000 0.0000 0.00	5.71**		
Check of Mean Coeff, Of Var (%) Value Kean LSO (0.05) Mean LSD (0.05) Mean LSD (0.05) Setta 3945 Setta 3945 Setta 7955 (M705) Setta 7955 Setta 6953 Seta 6954 Seta 69546 Seta 6954 Seta 69546 Seta 69546 Seta 69546 Set	Source 95 600 1107 1177 104 85 90 1008 1008 1008 909 1001 1008 1008 909 1001 116 106 116 106 116 107 107 107 107 107 107 107 107	4,33 7,56** 14,53 19,10 1923,03 2028,07 1729,72 1729,12 1583,04 1776,959 1644,80 1927,87 1716,84 1789,99 1644,85 1835,70 1957,85 1957,95 1957,	7 1995 (ppm) 14 104 104 100 93 93 93 93 93 93 93 93 93 93 93 93 93	P-val 0.25 0.00 0.04 0.04 0.00 0.30 0.30 0.30 0.37 0.45 0.75 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.0	8.99 3.33 <sup>++</sup> 744.44 901.85 <b>Arm.</b> <b>Mean</b> 300.09 255.49 305.66 289.39 305.66 313.36 283.30 313.33 313.33 312.85 312.27 313.33 312.27 313.33 313.33 312.27 313.33 312.27 313.33 312.27 313.33 312.27 313.33 312.27 313.33 313.33 312.27 313.33 313.33 312.27 313.33 313.33 312.27 313.33 313.33 312.27 313.33 313.33 313.33 313.33 313.33 313.33 314.07 306.56 313.33 314.07 306.56 313.33 314.07 306.56 313.33 314.07 306.56 313.33 315.35 315.35 315.35 315.35 315.35 315.35 315.35 315.35 315.35 315.35 317.35	15 1999 N (ppm) N 101 100 83 100 99 94 107 102 102 102 102 102 102 102 102	P-val 0.93 0.16 0.55 0.53 0.33 0.33 0.78 0.75 0.78	55** 0.12 0.18 Boltars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2 94 Ems 40 53 32 29 51,66 42,40 27,85 43,29 34,31 34,31 34,31 34,31 34,31 55,60 44,561 53,85 53,85 55,670 33,854	13 1999 rgence ( 5 77 124 102 67 104 82 704 82 704 106 126 126 109 126 129 126 126 126 126 126 126 126 126	%) P-val 0.52 0.07 0.06 0.57 0.05 0.07 0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05	21*** 0 68 0 69 7 Mean 3.67 2.96 4.69 4.61 4.61 4.61 4.61 4.61 3.90 4.61 3.90 3.90 4.61 3.90 3.90 4.51 3.90 5.81 4.51 4.51 4.51 4.51 5.92 5.92	6 1999 are (%) % 844 01 100 101 100 90 90 90 90 90 90 90 103 104 88 97 136	P-val 0.288 0.544 0.599 0.441 0.599 0.599 0.599 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.542 0.542 0.542 0.542 0.543 0.543 0.543 0.544 0.544 0.544 0.544 0.544 0.544 0.544 0.545 0.545 0.546 0.466 0.546 0.546 0.466 0.546 0.460 0.460 0.400 0.	5.71**		
Check of Mean Coeff, Of Var (%) Valu Joan LSO (D.05) Mean LSD (D.05) Mean LSD (D.05) Setta 3945 Setta 3945 Setta 3945 Setta 5051 Setta 5014 Setta 5014 Set	Source 65 89 1122 117 104 104 105 97 98 88 106 118 97 97 88 106 118 97 106 106 106 106 106 106 106 106 1000 1000	4,33 7,56*** 14,53 19,16 Mean 1922 631 2028,07 1723,77 1729,79 1583,04 17769,99 1544,30 1967,77 1966,77 1967,77 1966,77 1967,77 1966,77 1967,77 1966,77 1967,77 1966,77 1966,77 1966,77 1966,77 1967,7	7 1995 (ppm) 1 104 109 80 90 90 90 90 90 90 100 100 100 100 100	P-val 0.25 0.000 0.04 0.04 0.000000	8.99 3.33 <sup>++</sup> 744.44 901.85 <b>Arm.</b> <b>Mean</b> 300.09 255.49 305.66 289.39 305.66 313.36 283.30 313.33 313.33 312.85 312.27 313.33 312.27 313.33 313.33 312.27 313.33 312.27 313.33 312.27 313.33 312.27 313.33 312.27 313.33 313.33 312.27 313.33 313.33 312.27 313.33 313.33 312.27 313.33 313.33 312.27 313.33 313.33 313.33 313.33 313.33 313.33 314.07 306.56 313.33 314.07 306.56 313.33 314.07 306.56 313.33 314.07 306.56 313.33 315.35 315.35 315.35 315.35 315.35 315.35 315.35 315.35 315.35 315.35 317.35	15 1995 N (ppm) N 101 100 95 102 75 102 75 102 75 102 102 102 102 102 102 104 105 105 105 105 105 105 105 105	P-val 0.50 0.56 0.55	55** 0.12 0.18 <b>Boltars</b> Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2 94 Eme Myan 40 53 32 294 51 861 42 49 34 82 34 82 35 85 36 92 36	13 1999 rganca ( 5 17 17 17 17 17 17 17 17 17 17 17 17 17	76) P-vat 0.52 0.07 0.00 0.57 0.05 0.57 0.16 0.69 0.60 0.50 0.60 0.50 0.60 0.50 0.60 0.50	7,21*** 0,680 0,599 7 Mean 2,677 2,966 4,699 4,691 4,699 4,691 4,699 3,994 4,691 4,691 3,599 3,994 4,691 3,595 2,954 4,591 2,811 2,812 4,592 3,595 4,591 2,812 4,592 3,595 4,592 4,593 4,593 4,594 2,596 3,596 4,599 3,596 4,599 3,596 4,599 3,596 4,599 3,596 4,599 3,596 4,599 3,596 4,599 3,596 3,5	6 1999 are (%) 5 8 84 91 108 98 108 98 108 98 103 103 104 159 104 159 104 159 104 159 104 118 97 104 55	P-val 0.288 0.599 0.490 0.599 0.599 0.590 0.000 0.000 0.000 0.000 0.590 0.590 0.590 0.590 0.000 0.590 0.590 0.000 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Aean LSO (0.05) Aean LSO (0.05) Seta 3945 Seta 3945 Seta 3955 Seta 5014 Seta 50	Source 955 890 1127 1177 104 104 104 104 104 104 104 104 104 104	4.33 7.56** 14.53 19.10 1923.63 2028.07 1723.77 1729.72 1583.64 1728.78 1544.9.50 1967.87 1866.72 1866.28 1862.82 1962.83 1866.28 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.82 1962.85 1862.85 1966.95 1962.85 1965.85 1965.85 1965.85 1965.85 1965.85 1965.85 1965.85 1965.85 1965	7 1999 (ppm) 1 104 1004 1004 903 903 903 903 903 903 903 903 1003 10	P-yal 0.25 0.99 0.04 0.04 0.00 0.30 0.30 0.30 0.30 0.31 0.45 0.30 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8.99 3.33 <sup>24</sup> 744.44 901.85 300.05 255.49 305.66 305.66 305.66 305.66 305.66 305.66 305.66 305.66 312.27 312.27 313.36 243.04 243.04 243.04 243.04 245.00 254.43 254.43 254.43 255.44 215.00 215.43 215.00 215.44 212.27 215.00 215.44 212.27 215.44 21	15 1999 N (ppm) % 101 100 83 100 94 107 102 102 102 102 102 102 102 102	P-val 0.93 0.94 0.95 0.033 0.33 0.33 0.33 0.33 0.33 0.35 0.05 0.0	55** 0.12 0.18 <b>Boltars</b> Mean 0.00 0.0	13 1999 N		2 23 2 94 Eme Myan 40 53 32 294 51 861 42 49 34 82 31 855 41 711 56 64 41 711 56 64 44 08 53 85 41 711 56 64 45 61 45 743 57 43 57 43 57 43 56 70 33 99,91 39,91 39,91	13 1999 rpence ( 5% 877 77 77 724 102 67 104 82 70 104 82 100 104 106 129 109 109 109 109 109 109 109 109 109 10	74) P-val 0.52 0.57 0.50 0.59 0.51 0.77 0.16 0.69 0.51 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.56	2 21*** 0 88 0 89 7 Mean 2 867 2 961 2 961 4 69 4 69 4 69 4 69 4 69 4 69 4 69 4 69 4 69 4 69 3 80 3 80 5 85 5 85	6 1999 are (%) % 844 100 100 100 100 100 104 80 104 80 104 80 104 80 104 100 100 100 100 100 100 10	P-val 0.28 0.54 0.59 0.54 0.59	5.71**		
Deck of Mean Coeff, Of Var (%) Vala Acan LSD (D.05) Acan LSD (D.05) Acan LSD (D.05) Intry	Source 95 69 1122 1177 104 85 97 888 106 108 108 109 70 101 844 106 105 116 105 105 1205 1205 1205 1205 1205 1205 1012 102 10	4,33 7,56*** 14,53 19,16 Mean 1922 631 2028,07 1723,77 1729,79 1583,04 17769,99 1544,30 1967,77 1966,77 1967,77 1966,77 1967,77 1966,77 1967,77 1966,77 1967,77 1966,77 1966,77 1966,77 1966,77 1966,77 1967,7	7 1995 (ppm) 1 104 109 80 90 90 90 90 90 90 100 100 100 100 100	P-val 0.25 0.000 0.04 0.04 0.000000	8.99 3.33** 744.44 981.85 209.05 306.69 255.49 255.49 305.66 289.39 228.68 312.27 305.66 312.27 313.30 242.04 242.04 242.04 242.04 242.04 242.04 242.04 242.04 242.04 242.04 242.04 242.04 255.42 255.42 20.32 241.05 255.42 20.32 255.42 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.32 20.40 20.20 20.40 20.20 20.40 20.20 20.40 20.20 20.40 20.20 20.40 20.20 20.40 20.20 20.20 20.20 20.20 20.20 20.40 20.20 20.20 20.40 20.20 20.20 20.20 20.20 20.40 20.20	15 1995 N (ppm) N 101 100 95 100 95 102 75 102 75 102 102 102 102 102 102 102 102	P-val 0.50 0.56 0.55	55** 0.12 0.18 <b>Boltars</b> Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2 94 Mean 40 53 32 294 40 53 32 294 40 53 32 294 40 53 40 53 40 53 41 71 52 765 54 73 54 74 55 45 55 45 56 70 33 88 81 86 81 86 81 86 93 94 94 94 10 94 10 10 94 10 10 10 10 10 10 10 10 10 10 10 10 10	13 1999 rganca ( 5 17 17 17 17 17 17 17 17 17 17 17 17 17	76) P-vat 0.52 0.07 0.00 0.57 0.05 0.57 0.16 0.69 0.60 0.50 0.60 0.50 0.60 0.50 0.60 0.50	721*** 0 48 0 59 7 Mean 2.67 2.96 4.69 4.69 4.61 4.69 4.61 4.69 3.70 3.59 3.59 4.61 4.61 4.61 4.61 4.61 4.61 4.61 4.61	6 1999 are (%) 5 8 84 91 108 98 108 98 108 98 103 103 159 104 159 104 159 104 159 104 118 97 104 55	P-val 0.288 0.599 0.490 0.599 0.599 0.590 0.000 0.000 0.000 0.000 0.590 0.590 0.590 0.590 0.000 0.590 0.590 0.000 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.590 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0.5000 0	5.71**		
Deck of Mean Coeff, Of Var (%) Vala Acan LSD (D.05) Acan LSD (	Source 95 693 1122 1177 104 855 977 876 1006 1006 1006 1006 1006 1006 1006 1006 1005	4, 33 7,56*** 14,53 19,16 19,22,631 2022,8,07 2022,8,07 1720,77 1729,98 1540,20 1770,54 1776,9,59 1540,40 1907,87 1806,72 1805,70 1646,65 1805,70 1646,65 1805,24 2035,83 11808,26 1535,70 1646,85 1635,70 165	7 1995 5 (ppm) 10 10 10 10 10 10 10 10 10 10	P-val 0.25 0.00 0.04 0.04 0.00 0.00 0.00 0.00 0.42 0.00 0.47 0.00	8.99 3.33** 744.44 901.85 209.09.09 200.09.09.09 200.09.09.09.09.090000000000	15 1999 N (ppm) 7 101 100 00 00 00 00 00 00 100 00	P-val 0.33 0.63 0.63 0.63 0.33 0.25 0.76 0.50 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.05 0.05 0.00 0.05 0.00 0.05 0.05 0.05 0.00 0.05 0.00 0.05 0.05 0.00 0.05 0	55** 0.12 0.18 <b>Boftars</b> Mean 0.00 0.0	13 1999 N		2 23 2.94 Errer Myan 40.53 32.29 51.86 42.40 42.40 32.29 51.86 42.40 32.23 27.85 34.31 31.55 34.31 34.32 34.31 34.32 34.33 34.35 34.35 34.35 57.43 55.745 55.745 55.743 55.745 55.743 55.745 55	13 1999 rgence ( 75 77 124 102 67 76 104 102 106 106 106 106 106 106 106 106 106 106	%)           Preal           0.82           0.67           0.67           0.67           0.77           0.77           0.76           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.78           0.79           0.78           0.65	21*** 0 48 0 59 7 Mean 2,67 2,96 4,69 4,69 4,69 4,69 4,69 4,69 4,69 4	6 1999 are (%) % 84 1001 1001 1001 1001 1003 1003 1003 1004 1004 1004 1004 1004 1004 1004 1005 1006 1006 1006 1006 1006 1006 1006 1006 1006 1007 1006 1007	P-real 0.283 0.544 0.599 0.461 0.599 0.400 0.590	5.71**		
Check of Mean Coeff, Of Var (%) Value Kean LSO (0.05) Mean LSD (0.05) Mean LSD (0.05) Seta 3945 Seta 3945 Seta 7955 Seta 795	Source 95 800 102 117 107 107 107 107 107 107 107	4, 33 7,56** 14,53 19,16 19,20	7 1999 10 10 10 10 10 10 10 10 10 10	P-val 0.25 0.00 0.044 0.044 0.05 0.00 0.051 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.047 0.000 0.051 0.000 0.045 0.051	8 39 3 33** 744 44 901 85 Am. Mean 300 08 300 08 300 08 300 08 255 49 305 66 289 39 305 66 289 39 312 275 312 37 313 30 543 30 341 67 243 26 243 26 245 29 312 275 312 37 313 36 243 26 243 26 244 26 255 29 312 275 312 37 313 36 243 26 243 26 244 26 255 27 312 37 313 36 255 47 313 36 255 47 255 27 313 37 313 37 313 37 313 37 313 37 313 37 313 37 313 37 314 36 255 27 312 27 312 37 313 37 313 37 315 27 312 27 312 37 312 37 313 37 313 37 313 37 314 36 255 27 312 27 312 37 313 37 313 37 313 37 314 36 255 27 314 36 255 27 312 37 313 37 313 37 313 37 313 37 314 36 255 27 314 36 255 27 315 37 315 36 255 27 315 36 326 46 255 27 315 36 326 46 257 27 315 36 326 46 327 26 327 26 326 26 327 26 326 26 326 326 26 326 26 326 326 26 326 326 326 326 326 26 326	15 1999 N (ppm) 5 1011 100 100 100 100 100 100	P-val 0.53 0.64 0.55 0.65 0.55 0	55** 0.12 0.13 0.16 Mean 0.001 0.00000000	13 1999 N		2.23 2.94 Eme Myan 40.53 32.20 42.49 27.85 43.29 34.31 31.65 34.32 31.65 34.55 44.40 27.85 45.365 45.365 45.365 45.365 45.365 45.365 45.365 45.365 28.84 61.85 40.20 29.91 47.65 52.57 29.95 47.60 29.91 47.65 29.94 47.65 29.91 47.65 29.95 47.65 29.95 47.65 29.95 47.65 29.95 20.95	13 1999 1999 1997 19	%)           P-val           0.62           0.63           0.65           0.66           0.66           0.66           0.66           0.677           0.66           0.66           0.671           0.68           0.601           0.66           0.671           0.68           0.000           0.46           0.56           0.000           0.46           0.58           0.000           0.46           0.58           0.000           0.46           0.58           0.000           0.46           0.58           0.000           0.46           0.58           0.000           0.46           0.73           0.28           0.29           0.29           0.28	2 21*** 0 88 0 89 <b>T</b> Mean 2 96 2 96 4 66 4 66 4 66 4 66 4 66 4 67 3 70 4 66 4 67 3 89 3 89 3 89 3 89 3 89 3 89 4 66 4 66 4 8 5 82 6 99 5 12 4 78 3 70 4 78 3 70 4 78 5 20 5 12 4 72 5 20 5 12 4 72 5 20 5 12 5 20 5 20	6 1999 are (%) 5 5 5 5 5 5 5 5 5 5 5 5 5	P-val 0.288 0.544 0.599 0.480 0.599 0.400 0.590 0.590 0.500 0.500 0.500 0.500 0.500 0.60	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Aean LSO (D.05) Aean LSO (D.05) Beta 2045 Seta 2045 Seta 4705 (M705) Seta 4701 Seta 4703 Seta 4701 Seta 4701 Seta 4701 Seta 4701 Seta 4701 Seta 4701 Seta 4705 Seta 470	Source 955 400 1122 1177 1177 104 485 97 706 104 106 106 106 106 106 106 100 100 10000 1000 1000 1000 1000 1000 10000 1000000	4, 33 7,56*** 14,53 19,16 19,22,631 2022,8,07 2022,8,07 1720,77 1729,98 1540,20 1770,54 1776,9,59 1540,40 1907,87 1806,72 1805,70 1646,65 1805,70 1646,65 1805,24 2035,83 11808,26 1535,70 1646,85 1635,70 165	7 1995 5 (ppm) 10 10 10 10 10 10 10 10 10 10	P-val 0.25 0.00 0.04 0.04 0.00 0.05 0.05 0.05 0.0	8.99 3.33** 744.44 901.85 209.09 205.649 205.649 205.649 205.649 205.649 205.649 205.649 205.649 205.649 205.649 205.649 205.649 205.649 205.629 205.6	15 1999 N (ppm) 5 5 1011 1001 100 100 984 1007 100 994 1007 100 100 994 1007 100 100 995 100 100 995 100 100 995 100 100 995 100 100 995 100 100 100 100 100 100 100 10	P-val 0.33 0.63 0.63 0.63 0.33 0.25 0.76 0.50 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.76 0.00 0.05 0.05 0.00 0.05 0.00 0.05 0.05 0.05 0.00 0.05 0.00 0.05 0.05 0.00 0.05 0	55** 0.12 0.18 <b>Boftars</b> Mean 0.00 0.0	13 1999 N		2 23 2.94 Errer Myan 40.53 32.29 51.86 42.40 42.40 32.29 51.86 42.40 32.23 27.85 34.31 31.55 34.31 34.32 34.31 34.32 34.33 34.35 34.35 34.35 57.43 55.745 55.745 55.743 55.745 55.743 55.745 55	13 1999 rgence ( 17 17 124 102 17 124 102 17 124 102 102 102 102 102 102 102 102	%)           Preal           0.82           0.67           0.67           0.67           0.77           0.77           0.76           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.78           0.79           0.78           0.65	7 21*** 0 88 0 59 <b>Mean</b> 2.67 2.96 4.69 4.69 4.61 4.65 4.67 3.70 3.70 3.70 4.61 4.65 5.82 6.92 4.51 2.81 2.81 2.81 2.81 2.81 4.722 4.72	6 1999 are (%) % 84 1001 1001 1001 1001 1003 1003 1003 1004 1004 1004 1004 1004 1004 1004 1005 1006 1006 1006 1006 1006 1006 1006 1006 1006 1007 1006 1007	P-real 0.283 0.544 0.599 0.461 0.599 0.400 0.590	5.71**		
Deck of Mean Coeff, Of Var (%) Yaha Aean LSO (D.05) Aean LSO (D.05) Seta 3945 Seta 3945 Seta 4955 (M705) Seta 4955 (M705) Seta 4955 Seta 4953 Seta 6953 Seta 69533 Seta 6953 Set	Source 955 800 1127 1177 104 85 97 98 1177 105 105 106 105 106 105 106 105 106 105 106 105 106 105 106 105 106 105 106 106 107 106 106 107 107 107 107 107 107 107 107 107 107	4,33 7,56*** 14,55 19,16 <b>Mean</b> 1922,03 2028,07 17223,77 1729,72 1729,72 1729,72 1729,72 1729,72 1583,04 1716,84 1716,84 1716,84 1716,84 1716,84 1716,84 1789,59 1560,72 1835,70 1907,87 1805,20 1560,20 1562,34 1762,52 2004,73 1560,26 1562,34 1762,52 1560,26 1562,52 1560,26 1562,52 1560,26 1562,52 1560,26 1562,52 1560,26 1562,52 1562,52 1560,26 1562,52 1562,	7 1995 ((ppm) 15 104 106 107 108 109 109 109 109 109 109 109 109	P-val 0.25 0.000 0.044 0.000 0.030 0.030 0.030 0.030 0.030 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.050 0.000 0.047 0.050 0.000 0.050 0.0000 0.0000 0.000000	8.99 3.33** 744.44 901.85 309.09 306.00 2556.49 305.66 305.66 305.66 312.27 313.30 228.204 312.27 313.30 228.204 312.27 313.30 242.004 315.27 313.304 242.004 245.004 245.004 245.22 312.25 312.25 242.04 242.25 255.42 315.44 255.42 255.42 315.44 255.42 215.25 20 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.25 310.25 25.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.25 227.25 315.25 227.25 315.25 227.25 315.25 227.25 227.25 315.25 227.25 277.25 2	15 1999 N (ppm) 5 5 1011 1002 100 100	P-val 0.53 0.56 0.65 0.55	55** 0.12 0.13 0.12 0.16 Boftars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Erne Myan 40.55 32.294 51.86 42.40 27.85 42.40 27.85 43.30 32.185 42.40 57.85 54.240 55.27 43.30 56.70 35.08 44.02 56.26 35.85 56.26 35.85 56.26 35.85 56.26 35.85 56.26 35.95 47.45 47.45 4	13 1993 1993 1993 1993 1993 1993 1995 19	%)           P-val           0.82           0.67           0.67           0.67           0.67           0.67           0.68           0.66           0.67           0.67           0.67           0.68           0.69           0.61           0.66           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.54	2 21** 0 48 0 59 <b>Mean</b> <b>3.67</b> 2.96 4.69 4.69 4.69 4.61 4.65 3.96 4.69 4.61 4.65 3.96 4.69 4.61 4.65 3.96 4.69 4.61 4.65 3.06 5.05	6 1995 1995 199 199 199 19 10 10 10 10 10 10 10 10 10 10 10 10 10	P-val 2.28 0.54 0.54 0.54 0.54 0.54 0.55 0.54 0.55 0.84 0.02 0.84 0.02 0.84 0.02 0.84 0.02 0.84 0.02 0.84 0.02 0.84 0.02 0.84 0.02 0.84 0.02	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Asah LSO (D.05) Asah LSO (D.05) Asah LSO (D.05) Saftry Seta 3045 Seta 3045 Seta 4055 Seta	Source 555 200 1122 1177 866 909 1011 1186 1016 1017 1025 1005 10	4.33 7.56*** 14.53 19.10 1922 631 2028.07 1723.77 1729.79 1583.04 1716.84 1716.84 1716.84 1716.84 1716.84 1716.84 1728.99 1840.90 1967.87 1866.72 1866.72 1866.72 1866.72 1866.72 1866.72 1866.72 1869.85 1869	7 1995 (ppn) 10 10 10 10 10 10 10 10 10 10	P-val 0.25 0.050 0.044 0.044 0.0500 0.0500 0.0500 0.0500000000	8.99 3.33** 744.44 901.85 309.09 306.00 2556.49 305.66 305.66 305.66 312.27 313.30 228.204 312.27 313.30 228.204 312.27 313.30 242.004 315.27 313.304 242.004 245.004 245.004 245.22 312.25 312.25 242.04 242.25 255.42 315.44 255.42 255.42 315.44 255.42 215.25 20 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.25 310.25 25.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.25 227.25 315.25 227.25 315.25 227.25 315.25 227.25 227.25 315.25 227.25 277.25 2	15 1996 N (ppm) 5 1011 1000 961 961 964 1007 1002 964 1007 1002 964 1007 1002 1003 1001 1005 1011 1015 10	P-val 0.901 0.501	55** 0.12 0.13 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme 40 53 32 29 51,85 42,40 27,85 43,29 34,21 31,35 56,04 44,27 56,04 44,40 55,85 56,04 45,385 56,04 45,385 57,42 56,04 45,51 57,42 56,04 45,51 57,42 56,04 47,48 57,42 57,455 57,45 5	13 1999 1999 1997 19	%)         Prest           0.827         0.670           0.827         0.670           0.897         0.501           0.777         0.161           0.660         0.501           0.660         0.501           0.660         0.502           0.661         0.502           0.662         0.502           0.662         0.502           0.560         0.502           0.561         0.562           0.562         0.573           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.573         0.259           0.264         0.544           0.544         0.544	21*** 0.88 0.89 <b>T</b> Mean 2.57 3.96 4.69 4.69 4.69 4.69 4.69 4.69 4.69 4.61 3.59 4.69 4.61 3.59 4.69 4.61 3.59 4.69 4.61 3.59 4.69 4.59 5.59	6 1995 1995 3re (%) 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-val 228 0.549 0.549 0.549 0.96 0.90 0.90 0.90 0.90 0.90 0.90 0.9	5.71**		
Deck of Mean Coeff, Of Var (%) Yaha Aean LSO (0.05) Aean LSO (0.05) Seta 3054 Seta 3054 Seta 4705 (M705) Ista 5014 Seta 4705 (M705) Ista 5014 Seta	Source 555 200 1122 1177 866 909 1011 1186 1016 1017 1025 1005 10	4.33 7.56*** 14.53 19.10 1922 631 2028.07 1723.77 1729.79 1583.04 1716.84 1716.84 1716.84 1716.84 1716.84 1716.84 1728.99 1840.90 1867.97 1866.72 1866.72 1866.72 1866.72 1866.72 1868.72 1868.72 1869.85 1869	7 1999 104 104 104 104 104 104 104 104	P-val 0.25 0.000 0.04 0.000 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.030 0.047 0.000 0.051 0.000 0.047 0.000 0.047 0.000 0.047 0.000 0.047 0.000 0.047 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.050 0.051 0.0500000000	8.99 3.33** 744.44 901.85 309.09 306.00 2556.49 305.66 305.66 305.66 312.27 313.30 228.204 312.27 313.30 228.204 312.27 313.30 242.004 315.27 313.304 242.004 245.004 245.004 245.22 312.25 312.25 242.04 242.25 255.42 315.44 255.42 255.42 315.44 255.42 215.25 20 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.25 310.25 25.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.44 225.25 315.25 227.25 315.25 227.25 315.25 227.25 315.25 227.25 227.25 315.25 227.25 277.25 2	15 1999 m (ppm) 5 5 1011 1001 100 99 1002 100	P-val 0.33 0.58 0.01 0.55 0.53 0.53 0.53 0.53 0.53 0.53 0.55	55** 0.12 0.12 0.13 Boftars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme Myan 40.55 32.294 51.86 42.40 27.85 43.20 32.294 51.27 43.20 32.294 51.27 45.04 42.40 51.27 56.70 57.70 56.70 56.70 56.70 56.70 57.70 56.70 56.70 56.70 56.70 56.70 56.70 56.70 56.70 57.70 56.70 57	13 1999 greece ( 17 1999 17 177 174 1724 102 177 174 1724 102 177 174 1724 102 1724 102 172 1724 102 1724 102 172	%)           P-val           0.82           0.67           0.67           0.67           0.67           0.68           0.66           0.66           0.67           0.64           0.64           0.54           0.54           0.54           0.54           0.54	21*** 0 88 0 89 <b>T</b> Mean 2 87 2 96 2 96 4 69 4 69 4 69 4 61 4 65 3 70 3 70 4 65 3 70 3 70 4 65 3 70 5 85 5 85 4 70 5 85 4 70 5 85 4 70 5 85 4 70 5 85 5 85 4 70 5 85 5 85 5 70 5 85 6 90 5 90	6 1995 1995 3% 44 91 100 100 100 100 100 100 100 100 100	P-val 0.283 0.544 0.549 0.546 0.547 0.546 0.5470	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Asan LSO (D.05) Asan LSO (D.05) Asan LSO (D.05) Batry Beta 3065 Beta 3065 Beta 4705 (M705) Beta 4705 Beta 470	Source 955 800 1122 1177 1044 855 979 799 799 799 799 799 799 799 799 7	4,33 7,56*** 14,55 19,16 <b>Mean</b> 1922,031 2028,071 17229,77 17229,77 17229,77 1729,12 1583,50 1584,04 1716,84 1716,84 1789,59 1540,30 1907,87 1805,72 1805,72 1805,72 1805,72 1805,72 1805,72 1907,87 1805,72 1907,87 1907,87 1907,87 1902,85 1909,82 1900,82 1	7 1995 (ppn) 10 10 10 10 10 10 10 10 10 10	P-val 0.25 0.050 0.044 0.044 0.0500 0.0500 0.0500000000	8 39 3 33** 744 44 901 85 Am. Mean 300 08 300 08 300 08 300 08 255 49 305 66 299 39 243 64 243 64 243 64 244 06 299 39 244 06 15 243 06 299 39 244 06 295 29 315 26 241 06 255 29 315 26 241 06 255 29 315 25 241 06 255 29 315 25 255 20 255 20 257 20 2	15 1996 N (ppm) 5 1011 1000 961 961 964 1007 1002 964 1007 1002 964 1007 1002 1003 1001 1005 1011 1015 10	P-val 0.33 0.58 0.01 0.55 0.53 0.53 0.53 0.53 0.53 0.53 0.55	55** 0.12 0.13 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme 40.53 32 29 51,85 42,40 27,85 43,29 34,21 31,35 56,04 44,27 56,04 44,40 55,85 56,04 45,385 56,04 45,385 57,42 56,04 45,51 57,42 56,04 45,51 57,42 56,04 47,48 57,42 57,455 57,45 5	13 1999 1999 1997 19	%)         Prest           0.827         0.670           0.827         0.670           0.897         0.501           0.777         0.161           0.660         0.501           0.660         0.501           0.660         0.502           0.661         0.502           0.662         0.502           0.662         0.502           0.560         0.502           0.561         0.562           0.562         0.573           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.562         0.673           0.573         0.259           0.264         0.544           0.544         0.544	21*** 0.88 0.89 <b>T</b> Mean 2.57 3.96 4.69 4.69 4.69 4.69 4.69 4.69 4.69 4.61 3.59 4.69 4.61 3.59 4.69 4.61 3.59 4.69 4.61 3.59 4.69 4.59 5.59	6 1995 1995 3re (%) 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-val 228 0.549 0.549 0.549 0.96 0.90 0.90 0.90 0.90 0.90 0.90 0.9	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Aean LSO (D.05) Aean LSO (D.05) Beta 2045 Beta 20	Source 955 400 1122 1177 1177 1167 1064 1078 86 979 709 709 709 709 709 709 709 709 709	4, 33 7,06*** 14,53 19,16 19,22,031 20228,07 1720,77 1720,77 1729,98 1540,27 1720,77 1729,98 1540,20 19278,07 1768,98 1540,80 19278,07 1866,72 1865,70 1646,65 1862,82 20358,31 1868,28 1540,85 1657,50 1656,53 1868,55 1657,55 1657,55 1657,55 1656,53 1868,55 1657,55 1860,55 1870,5	7 1995 1007 10 10 10 10 10 10 10 10 10 10	P-val 0.25 0.000 0.04 0.04 0.04 0.05 0.05 0.05 0.	8.99 3.33** 744.44 901.05 309.09 309.09 309.09 255.49 305.66 289.39 225.649 305.66 289.39 228.68 312.27 312.36 312.27 312.36 243.04 243	15 1995 N (ppm) 101 100 981 103 100 981 103 100 103 100 103 100 103 100 103 103	P-val 0.50 0.50 0.50 0.53 0.33 0.33 0.55 0	55** 0.12 0.12 0.13 0.12 0.16 Bofbars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Errer 40.53 32.29 32.29 32.29 32.29 32.29 32.23 32.29 32.29 32.29 32.29 32.29 32.29 32.29 32.29 32.29 32.29 32.29 32.29 32.29 34.31 33.09 34.31 33.09 34.31 35.55 34.55 34.00 33.99 35.95 35	13 1999 5 5 5 5 777 7 72 124 102 57 777 124 104 105 104 105 106 100 109 109 109 109 109 109 109 109 109	%)         Presil           0.827         0.627           0.627         0.627           0.621         0.621           0.771         0.761           0.625         0.655           0.655         0.655           0.655         0.655           0.656         0.655           0.656         0.655           0.656         0.655           0.658         0.659           0.659         0.286           0.659         0.276           0.659         0.265           0.659         0.264           0.659         0.261           0.659         0.276           0.729         0.289           0.264         0.601           0.541         0.602           0.311         0.541	21*** 0 48 0 59 <b>Mean</b> 2.67 3.67 3.96 4.69 4.69 4.61 4.65 4.67 3.70 3.70 4.61 4.65 4.67 4.70 3.70 4.61 4.65 5.82 6.92 4.70 4.70 5.96 4.70 3.96 4.67 3.96 4.69 4.70 4.72 4.70 5.52 6.52 5.55 5.52 5.55 5.5	6 1995 3re (%) 5% 644 911 100 100 100 100 100 100 100 100 100	P-val 228 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0.54	5.71**		
Check of Mean Deef, Of Var (%) Yaha Mean LSO (D.05) Mean LSO (D.05) Mean LSO (D.05) Setta 3945 Setta 3945 Setta 755 (Mr05) Setta 755 (Mr05) Se	Source 95 90 1122 1127 104 85 97 98 97 98 97 97 106 117 118 118 118 118 118 118 118	4, 33 7,56*** 14,53 19,16 19,26,37 19,16 19,27 19,27 19,27 17,29,77 17,29,12 15,83,04 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 17,16,84 18,64,9,35 18,95,35	7 1995 ((ppm) 104 109 104 109 104 109 104 109 105 105 105 105 105 105 105 105	P-val 0.25 0.000 0.04 0.020 0.04 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.025 0.000 0.025 0.000 0.025 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.000 0.051 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	6 99 3.33** 744 44 901 85 Am. Mean 300 08 300 08 300 08 300 08 255 49 305 66 289 39 305 66 289 39 312 275 312 275 312 375 312 275 312 275 315 275 315 315 315 315 315 315 315 31	15 1999 N (ppm) 5 5 1011 1000 99 90 90 90 90 90 90 90 90 90 90 90	P-val  0.90  0.90  0.90  0.90  0.90  0.90  0.70  0.95  0.00  0.70  0.02  0.70  0.02  0.75  0.02  0.02  0.75  0.02	55** 0.12 0.12 0.13 0.12 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2 94 Eme 40 53 32 294 40 53 32 295 42 27 85 43 29 34 21 31 45 53 65 53 65 57 43 35 96 44 40 46 50 55 67 30 98 38 84 40 30 39 91 40 30 39 91 40 30 39 91 40 30 39 91 47 46 57 43 39 57 40 30 39 91 47 45 57 42 39 56 57 42 39 56 57 42 39 56 57 42 39 57 47 67 30 30 39 91 47 45 57 42 39 56 57 42 39 57 47 67 30 30 39 91 47 45 57 42 39 56 57 42 39 56 57 42 39 56 57 42 39 56 57 42 39 56 57 42 39 56 57 42 30 57 47 67 30 57 47 67 30 57 47 67 30 57 47 67 47 67 30 56 55 55 55 47 30 56 55 47 30 56 55 47 30 56 55 47 30 56 55 47 47 67 30 56 55 47 47 67 47 67 30 56 55 55 55 55 47 29 56 55 47 20 56 57 47 20 57 47 57 47 30 56 57 47 30 56 55 47 30 56 55 25 25 25 25 25 25 25 25 25 25 25 25	13 1999 (1997) 1999 (1997) 1999 (1997) 1990 (1997) 1991 (1997) 1991 (1997) 1991 (1997) 1991 (1997) 1991 (1997) 1991 (1997) 1991 (1997) 1991 (1997) 1995 (1997) 1	%)         Prest           0.822         0.670           0.892         0.011           0.777         0.660           0.899         0.011           0.661         0.661           0.662         0.671           0.663         0.601           0.664         0.601           0.665         0.602           0.666         0.600           0.676         0.675           0.675         0.675           0.675         0.259           0.266         0.004           0.541         0.541           0.551         0.551           0.511         0.511           0.58         0.58	2 21*** 0 88 0 89 7 Mean 2 867 2 961 4 661 4 700 2 506 2 544 2 506 2 544 2 564 2 546 2	6 1995 1995 199 5 199 19 10 10 10 10 10 10 10 10 10 10 10 10 10	P-val 2 288 0 544 0 559 0 56 0 57 0 56 0 57 0 57	5.71**		
Check of Mean Coeff, Of Var (%) F Vala Mean LSO (D.05) Mean LSO (D.05) Mean LSO (D.05) Setta 3045 Setta 3045 Setta 705 (Mr05) Setta 705 (Mr05) Setta 705 (Mr05) Setta 705 (Mr05) Setta 705 (Mr05) Setta 7071 Setta 7071 Sett	Source 955 400 1122 1177 1177 1164 1164 1165 1164 1166 1166 1166 1166	4, 33 7,06*** 14,53 19,10 19,22,03 19,22,03 19,22,03 19,22,03 19,22,03 19,22,03 19,22,03 19,22,03 19,22,03 19,22,03 19,22,03 19,23,05 19,25 1	7 1995 104 105 104 105 105 105 105 105 105 105 105	P-val 0.25 0.000 0.04 0.04 0.04 0.05 0.05 0.05 0.	8.99 3.33** 744.44 901.05 309.09 300.09 255.49 305.66 305.66 305.66 312.27 313.305 243.04 243	15 1999 N (ppm) 5 5 1011 1001 100 99 1002 100	P-val  0.50  0.50  0.50  0.50  0.50  0.50  0.50  0.50  0.50  0.50  0.51  0.55	55** 0.12 0.13 0.12 0.16 Boftars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Erne 40.53 32.29 <sup>1</sup> 32.29 <sup>1</sup> 34.31 31.35 34.31 31.35 34.31 31.35 34.31 35.65 36.04 31.30 <sup>1</sup> 31.65 34.31 35.65 35.29 <sup>1</sup> 32.59 <sup>1</sup>	13 1993 1993 1993 1993 197 177 124 102 177 124 102 102 104 104 104 104 104 104 104 104	%)           P+val           0.82           0.67           0.67           0.67           0.67           0.682           0.661           0.661           0.662           0.671           0.666           0.673           0.666           0.673           0.666           0.673           0.674           0.675           0.675           0.676           0.677           0.678           0.679           0.671           0.672           0.673           0.674           0.674           0.541           0.541           0.541           0.541           0.541           0.541           0.541	21*** 0 48 0 59 <b>Mean</b> <b>3.67</b> 2.96 4.69 4.69 4.61 4.71 4.72 4.72 4.72 4.72 4.72 4.72 4.72 4.72 4.52 4.73 4.52 4.73 4.52 4.73 4.52 4.73 4.52 4.73 4.52 4.73 4.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.65 3.65 3.65 3.555 3.65 3.55	6 1995 1995 1995 1995 101 101 103 103 104 105 105 105 105 105 105 105 105	P-val 2.28 0.54 0.54 0.54 0.55	5.71**		
Check of Mean Coeff, Of Var (%) Y valu Vean LSO (ID.05) Mean LSO (ID.05) Seta 3045 Seta 3055 (M705) Seta 4755 (M705) Seta 4705 (M705) Seta 4705 (M705) Seta 4705 (M705) Seta 4705 (M705) Seta 4707 Seta 4707 S	Source 955 200 1122 1127 1127 1127 1127 1127 1127	4.33 7.56*** 14.53 19.10 19.22.03 2028.07 1723.77 1729.72 1729.72 1729.72 1729.72 1729.72 1729.72 1729.72 1729.72 1729.72 1583.04 1716.84 1716.84 1789.59 1540.80 1907.87 1806.72 1806.29 1876.09 1979.05 2728.86 1979.05 1970.05 1970	7 1999 104 106 107 108 109 109 109 109 109 109 109 109	P-val 0.25 0.000 0.044 0.000 0.051 0.000 0.050 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.000000	8.99 3.33** 744.44 901.05 309.09 3005.06 3005.06 3005.06 3005.06 3005.06 3005.06 3005.06 3005.06 3005.06 312.277 312.277 312.303 312.277 312.325 312.327 312.327 312.277 312.325 312.277 312.277 312.277 312.327 312.327 312.327 312.277 312.327 312.277 312.327 315.41 312.327 315.41 312.327 315.41 312.327 315.41 312.327 315.41 312.277 312.277	15 1999 N (ppm) 5 5 1011 1000 99 90 90 90 90 90 90 90 90 90 90 90	P-val 0.53 0.56 0.65 0.33 0.55 0.33 0.78 0.78 0.00 0.78 0.00 0.78 0.00 0	55** 0.12 0.13 0.12 0.14 0.16 0.00 0.00 0.00 0.00 0.00 0.00 0.00	13 1999 N		2 23 2.94 Erne Myan 40.55 32.29 <sup>4</sup> 51.86 42.40 27.85 42.40 27.85 42.40 27.85 42.40 33.20 42.40 53.85 54.240 55.35 56.70 35.06 44.020 35.06 56.70 35.06 56.70 35.06 56.70 35.06 56.70 35.06 35.44 35.55 26.74 35.55 35.55 26.74 35.55	13 1999 (1997) 1999 (1997) 1999 (1997) 1999 (1997) 1999 (1997) 1990 (1997) 1	%)         Prest           0.822         0.670           0.892         0.011           0.777         0.660           0.899         0.011           0.661         0.661           0.662         0.671           0.663         0.601           0.664         0.601           0.665         0.602           0.666         0.600           0.676         0.675           0.675         0.675           0.675         0.259           0.266         0.004           0.541         0.541           0.551         0.551           0.511         0.511           0.58         0.58	2 21*** 0 88 0 89 7 Mean 2 867 2 961 4 661 4 672 4 720 4 720 4 720 4 720 4 720 4 720 3 700 3 700 5 7000 5 7000 5 7000 5 7000 5 7000 5 7000 5 7000 5	6 1995 1995 3re (%) 5% 844 91 108 96 96 97 108 96 97 108 96 97 104 199 104 199 104 199 104 199 104 199 104 199 104 118 199 104 118 11 00 104 118 11 00 104 11 0 104 11 0 104 1 10 0 104 1 10 0 104 1 10 0 104 1 10 0 104 1 10 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1	P-val 2 288 0 544 0 559 0 56 0 57 0 56 0 57 0 57	5.71**		
Check of Mean Coeff, Of Var (%) Y also Mean LSO (D.05) Mean LSO (D.05) Mean LSO (D.05) Seta 3845 Seta 3845	Source 955 800 1122 1177 104 855 909 909 909 1001 1005 1005 1005 1005	4.33 7.56*** 14.53 19.10 1923 631 2028 07 2028 07 1923 631 2028 07 1923 631 2028 07 1923 631 2028 07 1923 631 2028 07 1923 7 1728 9 1940 87 1958 04 1958 04 1958 04 1958 05 1958 04 1958 05 1958 05 19	7 1995 ((ppm) 104 109 104 109 100 100 100 100 100 100 100	P-val 0.255 0.050 0.064 0.060 0.030 0.042 0.042 0.040 0.042 0.0400 0.0400 0.0400 0.0400 0.0400000000	8 39 3 33** 744 44 901 55 Arm. Mean 309 08 309 08 300	15 1996 N (ppm) 5 1011 1000 901 1007 100	P-val 0.90 0.90 0.53 0.53 0.53 0.53 0.53 0.53 0.55 0	55** 0.12 0.12 0.13 0.12 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme 40.53 32 29 51,85 42,49 27,85 43,21 31,85 44,27 52,45 51,45 44,40 44,27 53,45 51,45 45,27 57,45 57,55 57,55 57,55 57,55 57,55 57,55 57,55 57,555 57,555 57,555 57,555 57,555 57,555 57,555 57,5555 57,5555 57,5555 57,5555 57,55555 57,55555555	13 1999 (1) 1999 (1) 1777 (1) 1777 (1) 174	%)         Prest           0.827         0.657           0.691         0.591           0.777         0.166           0.602         0.691           0.602         0.601           0.602         0.601           0.602         0.602           0.603         0.602           0.604         0.605           0.705         0.728           0.729         0.278           0.654         0.654           0.654         0.654           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.542         0.541           0.541         0.541           0.542         0.541           0.541         0.541           0.542         0.541	21*** 0.88 0.89 <b>T</b> Mean 2.67 3.96 4.61 4.69 4.61 4.69 4.61 4.69 4.61 4.69 4.61 4.69 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 5.95 3.99 4.72 3.70 4.72 4.52 4.72 4.52 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 4.52 3.55 3.55 3.55 3.55 3.55 4.52 3.55 3.55 3.55 3.55 3.55 5	6 1995 1995 3re (%) 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-val 228 0.549 0.549 0.549 0.960 0.970 0.900 0.	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Aean LSO (ID.05) Aean LSO (ID.05) Setty 2014 Setta 3755 (M705) Ieta 3014 Setta 4755 (M705) Ieta 5014 Setta 4755 (M705) Ieta 5014 Setta 4755 Setta 4701 Setta 4763 Setta 4701 Setta 4763 Setta 4701 Setta 4763 Setta 4701 Setta 4701	Source 955 200 1127 1104 355 397 386 397 397 397 397 300 1114 305 303 3114 305 3114 305 3114 3114 305 3114 3114 3114 3114 3114 3114 3114 311	4.33 7.56*** 14.53 19.10 19.22.03 2028.07 1723.77 1729.72 1729.72 1729.72 1729.72 1729.72 1729.77 1729.72 1583.04 1716.84 1716.84 1789.59 1540.80 1907.87 1806.72 1835.70 1907.87 1806.29 1806.29 1806.29 1806.29 1806.29 1806.29 1806.29 1806.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1807.20 1878.50 1979.05 1970.05 1970	7 1995 1995 104 104 106 106 107 107 106 107 106 107 106 107 106 107 106 107 106 107 108 109 109 109 109 109 109 109 109	P-val 0.25 0.000 0.04 0.000 0.030 0.030 0.030 0.030 0.051 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000	8.99 3.33** 744.44 901.05 2009.06 2009	15 1999 m (ppm) 5 5 1011 1000 1001 1000	P-val 0.53 0.56 0.65 0.65 0.55 0.75 0.55 0.75 0.55 0.75 0.51 0.51 0.51 0.51 0.51 0.51 0.55 0.51 0.51 0.55 0.51 0.55 0.51 0.55 0.51 0.55 0.51 0.55 0.51 0.55 0.55 0.51 0.55 0.51 0.55 0.55 0.57 0.55 0.55 0.55 0.57 0.55 0.55 0.57 0.55 0.55 0.55 0.57 0.55 0	55** 0.12 0.12 0.13 Boftars Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Erne Myan 40.53 32.294 51.86 42.40 27.85 43.20 32.294 51.86 43.20 32.24 52.785 53.23 43.20 33.234 53.25 43.20 33.234 54.240 55.670 56.700 57.200 57.200 56.700 56.700 57.2000 57.2000 57.2000 57.2000 57.2000 57.2000 57.2000 57.2	13 1999 (gence ( ) 1999 (gence ( ) 1777 (124 102) (127 1724 (127) (	%)           P-val           0.82           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.68           0.66           0.66           0.67           0.68           0.68           0.69           0.68           0.69           0.61           0.62           0.66           0.67           0.78           0.78     <	21*** 0 88 0 89 <b>T</b> Mean 3 87 3 96 4 69 4 69 4 69 4 69 4 61 4 70 5 85 5 85 4 72 4 72 4 72 4 72 4 72 4 72 4 72 4 72 4 72 4 70 5 365 5 369 5 369 5 369 5 369 5 472 4 78 5 369 5 369 5 472 4 78 5 369 5 369 5 369 5 472 4 78 5 369 5 369 5 369 5 472 4 78 5 369 5	6 1995 1995 100 100 100 100 100 100 100 100 100 10	P-val 228 25 25 25 25 25 25 25 25 25 25 25 25 25	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Asian LSO (D.05) Asian LSO (D.05) Asian LSO (D.05) Istary Istary Istar 2005 Istar 2005 Ista 2005	Source 955 400 1122 1177 186 97 98 99 99 99 99 99 99 100 100 100 100 100 1	4.33 756*** 14.53 19.16 <b>Mean</b> 1922 031 2028.07 1723.77 1729.12 1583.04 1716.84 1728.97 1583.04 1716.84 1716.84 1718.959 1540.30 1907.87 1805.70 1907.87 1805.70 1907.87 1805.22 2025.83 1916.84 1782.22 2025.83 1916.84 1782.25 2135.83 1926.24 1927.85 1809.20 1927.87 1809.20 1927.87 1809.20 1927.87 1809.20 1927.87 1809.20 1927.87 1809.20 1927.87 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1927.85 1809.20 1809.	7 1995 ((ppm) 104 109 104 109 100 100 100 100 100 100 100	P-val 0.255 0.050 0.064 0.060 0.030 0.042 0.042 0.040 0.042 0.0400 0.0400 0.0400 0.0400 0.0400000000	8 39 3 33** 744 44 901 85 309 08 309 08 300 08 287 20 300 08 300 08	15 1996 N (ppm) 5 1011 1000 901 1007 100	P-val 0.90 0.90 0.53 0.53 0.53 0.53 0.53 0.53 0.55 0	55** 0.12 0.12 0.13 0.12 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2.94 Eme 40.53 32 29 51,85 42,49 27,85 43,21 31,85 44,27 52,45 51,45 44,40 44,27 53,45 51,45 45,27 57,45 57,55 57,55 57,55 57,55 57,55 57,55 57,55 57,555 57,555 57,555 57,555 57,555 57,555 57,555 57,5555 57,5555 57,5555 57,5555 57,55555 57,55555555	13 1999 (1) 1999 (1) 1777 (1) 1777 (1) 174	%)         Prest           0.827         0.657           0.691         0.591           0.777         0.166           0.602         0.691           0.602         0.601           0.602         0.601           0.602         0.602           0.603         0.602           0.604         0.605           0.705         0.728           0.729         0.278           0.654         0.654           0.654         0.654           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.542         0.541           0.541         0.541           0.542         0.541           0.541         0.541           0.542         0.541	21*** 0.88 0.89 <b>T</b> Mean 2.67 3.96 4.61 4.69 4.61 4.69 4.61 4.69 4.61 4.69 4.61 4.69 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 4.61 3.99 5.95 3.99 4.72 3.70 4.72 4.52 4.72 4.52 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55 4.52 3.55 3.55 3.55 3.55 3.55 4.52 3.55 3.55 3.55 3.55 3.55 5	6 1995 1995 3re (%) 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-val 228 0.549 0.549 0.549 0.960 0.970 0.900 0.	5.71**		
Deck of Mean Coeff, Of Var (%) Yaha Asan LSO (0.05) Mean LSO (0.05) Setty Yaha Setta 3755 (0.05) Setty Yaha Setta 3945 Setta 3945 Setta 3955 Setta 3955 Setta 3955 Setta 3954 Setta 39555 Setta 39555 Setta 395555 Setta 39555555555555555555555555555555555555	Source 955 400 1122 1177 186 97 98 99 99 99 99 99 99 100 100 100 100 100 1	4.33 7.56*** 14.53 19.10 1922 031 2028.07 1723.77 1729.79 1583.04 1716.84 1716.84 1716.84 1716.84 1716.84 1716.84 1716.99 1840.30 1967.72 1866.72 1866.72 1866.72 1866.72 1866.72 1866.73 1867.73 1866.73 1867.73 1867.73 1867.73 1867.73 1877.65 1877.75 1976.65 1877.75 1976.65 1877.75 1977.65 1877.75 1977.65 1877.75 1977	7 1995 (ppm) 10 10 10 10 10 10 10 10 10 10	P-val 0.25 0.000 0.04 0.04 0.05 0.05 0.05 0.05 0.	8.99 3.33 <sup>24</sup> 744.44 901.85 <b>Arm.</b> <b>Mean</b> 3009.06 305.66 305.55 305.55 305.55 305.55 305.55 305.55 305.55 305.7	15 1996 N (ppm) 101 1000 981 1007 100 981 1007 100 981 1007	P-val 0.50 0.50 0.53 0.53 0.53 0.53 0.53 0.55 0	55** 0.12 0.12 0.13 0.12 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N		2 23 2 94 Eme Myan 40 53 32 294 51 266 32 27 85 32 27 85 34 31 31 85 34 31 34 42 60 34 31 34 55 56 700 33 98 45 85 56 700 35 98 45 85 35 48 45 85 35 48 35 58 35 48 35 58 35 48 35 58 35 58 358 35 58 35 58 58 58 58 58 58 58 58 58 58 58 58 58 5	13 1999 (1) 1999 (1) 1999 (1) 1999 (1) 177 177 177 174 174 174 174 174	%)         Prest           0.827         0.657           0.691         0.691           0.161         0.601           0.602         0.601           0.603         0.601           0.604         0.602           0.605         0.602           0.605         0.602           0.605         0.602           0.605         0.602           0.606         0.702           0.702         0.718           0.702         0.729           0.703         0.644           0.541         0.644           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.541         0.541           0.542         0.541           0.541         0.541           0.542         0.541           0.542         0.541           0.542         0.542           0.543         0.542	21*** 0 88 0 89 <b>T</b> Mean 3 87 2 96 4 66 4 66 4 66 4 67 3 87 3 87 3 87 3 87 3 87 4 88 5 82 5 82 4 88 4 88 5 82 4 88 5 82 4 88 5 82 5 90 5 12 4 72 4 72 5 80 5 90 5 72 4 72 5 76 5 76	6 1995 1995 3re (%) 5 5 6 4 1995 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-val 228 0.54 0.54 0.54 0.54 0.92 0.94 0.92 0.94 0.92 0.94 0.92 0.94 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95	5.71**		
Check of Mean Coeff, Of Var (%) Yaha Asiah LSO (D.05) Asiah LSO (D.05) Asiah LSO (D.05) Asiah LSO (D.05) Istary Seta 3045 Seta 3045 Seta 3045 Seta 4055 Seta	Source 955 400 1122 1177 1177 1177 1177 1000 1144 1165 1000 1000 1000 1000 1000 1000 1000	4.33 7.56*** 14.53 19.10 1922 631 2028 631 1920 75 1958 641 1958 6	7 1995 (ppm) 10 10 10 10 10 10 10 10 10 10	P-val 0 25 0 000 0 044 0 044 0 05 0 000 0 000000	8.99 3.33** 744.44 901.85 309.09 309.09 309.09 255.49 305.66 289.39 225.649 305.66 289.39 228.649 305.66 312.27 313.305 243.04 244.04 245.04 2	15 1996 N (ppm) 101 1000 981 1007 100 981 1007 100 981 1007	P-val 0.50 0.50 0.53 0.53 0.53 0.53 0.53 0.55 0	55** 0.12 0.12 0.13 0.12 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N	P-val	2 23 2.94 Errer Myan 40.53 32.29 32.29 32.29 32.29 32.29 32.23 32.29 32.23 32.29 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 34.31 33.00 55.42 35.65 55.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 57.42 35.55 35.	13 1999 (1) 1999 (1) 1999 (1) 1999 (1) 177 177 177 174 174 174 174 175 174 175 175 175 175 175 175 175 175	%)           0.82           0.82           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.68           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.64           0.69           0.51           0.51           0.51           0.52           0.68           0.69           0.69           0.69           0.69           0.69           0.69           0.69           0.69 </td <td>21*** 0.88 0.89 <b>T</b> Mean 2.57 3.96 4.69 4.61 4.61 4.61 4.62 3.70 4.61 4.61 4.61 4.61 4.62 5.82 6.59 4.61 4.61 4.61 5.82 6.59 5.90 4.70 4.70 4.70 4.71 5.82 6.59 5.90 4.70 5.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.55 5</td> <td>6 1995 1995 3re (%) 5 5 6 4 1995 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>P-val 228 0.54 0.54 0.54 0.54 0.92 0.94 0.92 0.94 0.92 0.94 0.92 0.94 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95</td> <td>5.71**</td> <td></td> <td></td>	21*** 0.88 0.89 <b>T</b> Mean 2.57 3.96 4.69 4.61 4.61 4.61 4.62 3.70 4.61 4.61 4.61 4.61 4.62 5.82 6.59 4.61 4.61 4.61 5.82 6.59 5.90 4.70 4.70 4.70 4.71 5.82 6.59 5.90 4.70 5.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.52 6.55 5	6 1995 1995 3re (%) 5 5 6 4 1995 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-val 228 0.54 0.54 0.54 0.54 0.92 0.94 0.92 0.94 0.92 0.94 0.92 0.94 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95	5.71**		
Check of Mean Coeff, Of Var (%) Y valu Vean LSO (ID.05) Mean LSO (ID.05) Seta 3045 Seta 3055 (M705) Seta 4755 (M705) Seta 4705 (M705) Seta 4705 (M705) Seta 4705 (M705) Seta 4705 (M705) Seta 4707 Seta 4707 S	Source 955 400 1122 1177 1177 1177 1177 1000 1144 1165 1000 1000 1000 1000 1000 1000 1000	4.33 7.56*** 14.53 19.16 19.22.03 20228.07 1720.77 1729.79 1729.77 1729.79 1729.77 1729.79 1583.07 1726.07 1860.72 1862.82 1907.87 1862.82 1907.87 1862.82 1907.87 1862.82 1907.87 1862.83 1907.85 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1862.82 1866.83 1866.83 1866.83 1866.83 1866.83 1866.83 1866.83 1866.83 1866.83 1966.83 1966.83 1966.83 1966.83 1966.83 1966.83 1966.83 1966.83 1966.83 1976.64 1977.90 1962.84 1962.84 1962.84 1977.90 1962.84 1963.84 1977.90 1964.85 1966.85 196	7 1995 (ppm) 10 10 10 10 10 10 10 10 10 10	P-val 0 25 0 000 0 044 0 044 0 05 0 000 0 000000	8.99 3.33** 744.44 901.05 309.09 309.09 309.09 309.09 255.49 305.66 305.66 305.66 305.66 312.27 312.37 242.04 228.521 312.37 312.37 243.04 243.04 245.21 312.37 312.37 243.04 243.04 245.21 312.37 243.04 245.21 312.35 243.04 245.21 312.35 243.04 245.21 312.35 243.04 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 245.21 312.35 315.35 315.35 225.22 315.35 316.25 225.22 315.35 315.25 315.35 315.25 225.23 315.35 315.25 225.23 315.35 315.25 225.23 315.35 315.25 225.23 315.35 315.25 225.23 315.35 315.25 225.23 315.35 315.35 225.23 315.35 315.35 225.23 315.35 315.35 225.23 315.35	15 1996 N (ppm) 101 1000 981 1007 100 981 1007 100 981 1007	P-val 0.50 0.50 0.53 0.53 0.53 0.53 0.53 0.55 0	55** 0.12 0.12 0.13 0.12 0.16 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 N	P-val	2 23 2.94 Errer Myan 40.53 32.29 34.31 33.15 57.43 35.744 35.7444 35.7444 35.7444 35.7444 35.7444 35.7444 35.7444 35.74444 35.7444 35.7444444535.744444535.744	13 1999 (1) 1999 (1) 1999 (1) 1999 (1) 177 177 177 174 174 174 174 175 174 175 175 175 175 175 175 175 175	%)           0.82           0.82           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.68           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.65           0.67           0.67           0.67           0.67           0.67           0.67           0.67           0.64           0.69           0.51           0.51           0.51           0.52           0.68           0.69           0.69           0.69           0.69           0.69           0.69           0.69           0.69 </td <td>21*** 0 48 0 59 <b>Mean</b> <b>3.67</b> 3.69 4.69 4.69 4.61 4.65 3.70 4.61 4.65 4.69 4.61 4.65 3.70 4.61 4.65 4.65 4.65 4.73 5.24 5.255 5.257 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.5777</td> <td>6 1995 1995 3re (%) 5 5 6 4 1995 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>P-val 228 0.54 0.54 0.54 0.54 0.92 0.94 0.92 0.94 0.92 0.94 0.92 0.94 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95</td> <td>5.71**</td> <td></td> <td></td>	21*** 0 48 0 59 <b>Mean</b> <b>3.67</b> 3.69 4.69 4.69 4.61 4.65 3.70 4.61 4.65 4.69 4.61 4.65 3.70 4.61 4.65 4.65 4.65 4.73 5.24 5.255 5.257 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.577 5.5777	6 1995 1995 3re (%) 5 5 6 4 1995 5 5 6 4 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-val 228 0.54 0.54 0.54 0.54 0.92 0.94 0.92 0.94 0.92 0.94 0.92 0.94 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95	5.71**		

\* Significant at 5%. \*\* Significant at 1%. No Not Significant. Mean LSD is only appropriate for comparing entry means with each other when F value is significant. 3rd column for trait is probability that detection of a diff. (from check mean) of this size is due to chance.

#### American Crystal Sugar Co. - Technical Service Center Southern Minnesote Commercial Coded Triat - Lattice Trial 995603, Clara City, MN Planting Deta: 04/25/1999 Harvast Data: 10/04/1999 42 Entries 6 Replications 2 Rows/Plot 1 Samples/Piot

Entry	Source	Meen	1999 ac/T (ibs	P-val	Re	c/A (ibs)	Pval			P.val 1	Ya	(ALT) blo	P-val	Meen	ugar %	P-val 1	Neen	1999 * (ppm)	P-val
Bela 3945	85	308.34	107	0.00	6654.25	54	0.67	Maan 1,18	96	0.15	21.63	% 82	0.01	16.60	106	0.00	426.62	55	0.17
Beta 4705 (M705) Beta 5014	89	294.15 295.53	102	0.24	6947.78 6592.71	102	0.49	1.25	100	0.98	23.50 22.43	100	0.69	15.95	102	0.20	495.92	102	0.79
Bela 5298	117	289.45	101	0.76	6093.56	90	0.00	1.20	101	0.78	20.98	98	0.00	15,73	102	0.70	455.84	94	0.60
Beta 6863 Beta 6904	104	314.11 300.81	109	0.00	6398.70	04 98	0,10	1.11	89	0.00	20.53	93	0.00	16.82	108	0.00	396.26	82	0.04
Beta M701	97	297,28	103	0.08	7215.33	108	0.03	1,28	101	0.82	24.61	104	0.19	10.12	103	0.05	450 39	83	0.43
Beta M703 Beta M706	106	205.91 289.48	103	0.09	8007.24 6694.30	218	0.00	1.24	106	0.79	26.92	114	0.00	15.80	103	0.07	529.31	109	0.30
Seta Mili11	118	288 77	100	0.86		103	0.42	1.22	98	0.56	24.12	102	0.51	15.66	100	0.95	502.07 509.53	126	0.0
eta M046	- 60 79	291,52 289,59	101	0.49	6627.23 6654.62	96	0.51	1.25	100	0.95	22.72	96	0.24	15.83	101	0.45	430.26	89	02
leta M930 Ziyatal 205	101	290.29	101	0.65	6820.88	101	0.68	1.15	62	80.0	23.06	98	0.09	15.66	100	0.97	423.37 391.04	61	0.1
rystal 302 rystal 309	84	297.10 291.45	403	0.08	7160.17 6798.89	106	0.12	1.33	107	0.07	24.67	102	0.54	96.79	104	0.02	481.68	99	0.9
rystal 555	105	304 20	105	0.00	6858,70	101	0.76	1.24	96	0.57	22.60	96	0.16	15.81	105	0.00	349.27	72	0,0
ryetal 972 rystal 9744	106	269.65	100	0.82	5999.72 6795.26	100	0.00	1.17	94 96	0.09	20.99	89 100	0.00	15.61	99	0.58	428.21	66 65	0.1
u 7057	1,20	287.39	100	0.93	0000.59	. 97	0.34	1.24	- 99	0.84	22.71	96	0.24	15.61	100	0.901	420.36	87	0.1
M 7073 M Hisclor	100	280.51	104	0.17	6188.74 6396.41	91	0.01	1,33	108.	0.09	22.05	63 91	0.01	15 35	100	0.23	365.73	117	0.0
M Reset	85	297.89	103	0.05	7125.26	105	0.15	1.23	- 94	0.65	23.91	101	0.70	16.12	103	0.05	539.43	111	6.2
M Viking sty 96 April03	81	282.02	97	0.27	6545.37 7421.66	96	0.32	1.34	108	0.04	22.31 28.63	99	0.70	15.44	99	0.42	555.19	115	0.5
sly GRHX206	114	294.63	102	0.20	6669.07	98	0.63	1,20	.97	0.33	22.62	96	0.19	15.94	102	0.22	451,08	90	0.4
Ry 96HX829 Ry 99HX833	90	267.97	100	0.20	7349.76	90	0.02	1.17	94	0.04	24.94	100	0.09	15.90	102	0.29	406.48	84 90	00
sily 99HX041	108	246.82	86	0.00	6610.30	07	0.46	1,40	112	0.00	28.54	112	0.00	13.84	60	0.00	784.92	162	0.0
6y 99HX942 9y 99HX957	115	280.46 271.69	97	0.18	6558.03 6819.89	97	0.34	1.27	102	0.07	23,41 25,23	99	0.79	15.30	96	0 16	617.50	108	0.0
dy 99HX958	111	261.31	01	0.00	6980.32	103	0.41	1.43	114	0.00	26.67	113	0.00	14.40	00	0.00	664.20	137	0.0
By Rivel edex SX Laser	91 119	274.61 282.76	95	0.01	5729 88 6515.08	64 95	0.00	1.37	110	0.01	20.78	88	0.00	15.10	97	0.03	427.65	88	0.1
edex SX1012	- 47	299.22	101	0.05	6754.99	993	Q 77	1.17	94	0.08	23.11	96	0.51	15.68	100	0.67	425.96	68	C 1
edex SX1018 In der Have H46109	102	276.04	96	0.00	7121.74	105	0.14	1.14	105	0.19	25.67	109	0.95	15.10	97	0.03	527.94	109	0.0
in der Have H46140	110	293.03	102	0.33	6493.10	96	0.22	1.12	90	0.01	22.28	64	0.08	15.78	101	0.66	300.30	52	0.0
n der Have H46175 In der Have H46177	- 82 107	262.59	91	0.00	6676.25	96	0.00	1,25	100	0.90	25.63 24.95	108	0.01	14,29	92	0.00	583.07 354.41	120	0.0
n der Have Höbtlob	60 113	271.68	94	0.00	7232.59 6525.43	107	0.06	1.54	111	0.00	20.53	112	0.00	14.97	198	0.01	662 12	337	9.9
n der Have H88151 In der Have H88152	92	276.32 280.28	96	0.00	7493.61	110	0.28	1,29	104	0.78	23.58	100	0.00	15.11 15.25	97 98	0.03	549 54 544.63	112	01
								1.25			22.61			15.64			455.21		
		287.85			6764.51						7.69						21.02		
self, Of Var (%) Valu			5		6764.51 823 3.38** 670.94	10	3	8.98 LO1** 0.13	10	6	7.60 20** 2.14	0	1	0.69	4	ł	21 02 77** 120.27	25	
Deck of Mean Soff, Of Var (%) Valu fean LSD (0.05) fean LSD (0.01)		4.49 5.81**	7		823 3.36**	13	3	8.66 L01** 0.13 0.17	13	6	29**	12		0.69	*		1.77**	25 33	
oeff, Of Var (%) Valu ean LSD (0.05)		4.49 5.81** 14.97 19.74	7 1998 K (ppm)		823 3.36** 670:94 604.94 Am	13 1999 N (ppm)		8.66 L01** 0.13 0.17 Boltars	13 1999 %		2014 2.14 2.92 Emer	12 1999 gence (%		0.69 0.69 0.90	4 1999 are (%)		120.27		
seff, Of Var (%) Valu ean LSD (0.05) ean LSD (0.01)	Bourzel	4.49 5.51** 19.74 19.74	7 1998 K (ppm) %	P-val	8 23 3 38** 670:94 604:94 Am. Masan	13 1999 N (ppm) %	P-val	8.66 LO1** 0.13 0.17 Boltars Maen	13 1999 %		2014 2.14 2.92 Emar Mean	12 1999 rgence (%	P-val	0.69 0.69 0.90 Tr Mean	4 1995 are (%) %	P-val	120.27		
edi, Of Var (%) /aku ean LSD (0.05) ean LSD (0.01) ery ex 3945 fa 4705 (M705)	Source 95	4.49 14.97 19.74 Maan 1016.61 1999.23	7 1998 K (ppm) % %	P-val 0.81 0.34	523 3.38** 670.54 884.94 Am. Masan 252.04 252.22	13 1999 N (ppm) % 01 91 91	Porel 0.19 0.20	8.60 1.01** 0.13 0.17 Boltars Maan 0.00 0.00	13 1999 %		2011 2.14 2.82 Emile Mean 64.79 51.57	12 1999 gence (% % 103 62	P-val 0.63 0.00	0.60** 0.65 0.90 Te Mean 3.83 3.28	4 1995 are (%) % 110 00	P-val 0.55 0.68	120.27		
edf. Of Var (%) ratu san LSD (0.05) san LSD (0.01) try ca.3(945 fa.4705 (M705) fa.5014	Source 85 89 112	4.49 5.51** 19.74 Maan 1916.61 1999.23 1536.64	7 1998 K (ppm) % % 00 103 94	P-val 0.81 0.34 0.07	523 3.38** 670:54 644:54 Am. Masan 252:04 252:24 252:22 293:56	13 1999 N (ppm) % 91 91 106	Porel 0.19 0.20 0.33	8.60 L01** 0.13 0.17 Boltara Mach 0.00 0.00	13 1999 %		2011 2.14 2.92 Emain Mean 64.79	12 1999 gence (15 55 103	P-val 0.63 0.00 0.02	0.60** 0.60 0.90 Tr Mean 3.83 3.28 3.04	6 1995 are (%) % 110 60 87	P-val	120.27		
eff. Of Var (%) (%) an LSD (0.05) an LSD (0.01) (%) an AVD6 (M708) a 4705 (M708) a 5014 a 5016 a 5090	Source 855 857 112 117 104	4.49 5.81** 14.67 19.74 19.74 19.74 19.76 19.96	7 1998 K (ppm) % 00 100 90 90 90	P-val 0.81 0.34 0.07 0.32 0.00	823 3.36" 670.54 Add.54 Add.54 Add.54 Add.54 Add.54 252.22 293.56 316.14 263.23	13 1999 N (ppm) % 91 91 105 114 95	Porel 0.19 0.20 0.33 0.04 0.49	8.60 0.13 0.17 Boltara Mach 0.00 0.00 0.00 0.00	13 1999 %		2014 2.14 2.82 Email Mean 64.79 61.57 71.09 68.96 64.66	12 1999 gence (% % 103 82 113 109 88	P-val 0.63 0.00 0.02 0.09 0.01	0.60** 0.65 0.60 Tr Mean 3.63 2.26 3.04 3.03 4.94	6 1999 are (%) % 11D 00 87 87 87 141	P-vai 0.55 0.68 0.42 0.40 0.01	120.27		
eff. Of Var (%) w/w an LSD (0.65) an LSD (0.61) iny a 3945 is 4705 (M708) is 2014 a 5014 a 5036 a 6953 a 6954	Source 951 854 112 117 104 55	4.49 5.81** 14.97 19.74 Maan 1916.61 1996.23 1638.64 1805.55	7 1998 K (ppm) % % 103 103 94 96 90 90 97	P-val 0.81 0.34 0.07 0.32 0.00 0.37	823 3.36" 670.54 884.94 Am Maan 252.04 252.22 293.56 314.14 263.23 244.11	13 1999 N (ppm) % 91 91 305 114	Porel 0.19 0.20 0.33 0.04	8.01 0.13 0.17 Boltars Maan 0.00 0.00 0.00 0.00 0.00	13 1999 %		291* 2.14 2.92 Emain 64.79 61.57 71.00 65.98 65.98 65.90	12 1999 gence (% % 103 82 113 109 88 103	P-val 0.63 0.00 0.00 0.09	0.60** 0.69 0.60 Tr Mean 3.83 3.226 3.04 3.05 4.94 3.95	6 1995 are (%) % 110 60 87 87 87 141 113	P-vai 0.55 0.68 0.42 0.40	120.27		
eff, Of Var (%) var an LSD (0.65) an LSD (0.67) try 13.3945 14.4705 (M705) 14.5014 15.5014 15	Source 85 112 117 104 65 97 86	4.49 5.81*** 19.74 19.74 19.74 19.76 19.92.64 19.92.03 19.92.03 19.92.05 17.30.57 16.71.31 3.877.73	7 1998 K (ppm) % 103 94 86 90 07 97 85	P-val 0.65 0.74 0.07 0.32 0.00 0.00 0.00 0.42 0.00	823 3.36" 670:54 884.94 Am. 752:24 252:22 293:56 314.14 263:23 244.11 209:54 305:79	13 1999 N (ppm) % 01 00 114 95 89 117 111	Prvml 0.19 0.202 0.335 0.04 0.04 0.06 0.00 0.10	8.01 0.13 0.13 0.17 Boltars Macn 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 %		2011 2.14 2.92 Email 64.79 61.57 71.09 65.98 64.68 65.00 57.00 57.00	12 1999 gence (% % 103 62 113 109 86 103 90 102	0.65 0.00 0.01 0.55 0.05 0.05 0.05 0.05	0.65 0.90 Tr Maan 3.83 3.26 3.04 3.05 3.05 3.95 3.30	4 1995 are (%) % 110 60 87 141 113 65 64	P-wal 0.55 0.68 0.42 0.40 0.01 0.42 0.03 0.73	120.27		
eff, Of Var (%) /We was LSD (0.05) ien LSD (0.01) 477 ien 2004 ien	80urte 95 59 112 117 105 65 07	4.49 5.81*** 14.97 19.74 <b>Mean</b> 19.16.61 1999.23 1503.64 1505.55 1730.57 1571.51 1877.75	7 1998 K (ppm) 16 103 96 96 96 97	P-val 0.81 0.24 0.07 0.22 0.07 0.27 0.42	823 3.38** 670.54 884.94 Masan 252.54 252.22 293.23 314.14 263.23 244.11 309.54	13 1999 N (ppm) % 31 91 91 90 106 114 95 89 117	P-vml 0.19 0.203 0.045 0.06 0.08 0.08	8.01 0.13 0.13 0.17 Maan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	13 1999 %		20** 2.14 2.92 Emer 64.79 61.57 71.09 65.98 65.98 65.98 65.90 65.90	12 1999 gence (5 5 103 82 113 109 88 103 50	P-val 0.63 0.02 0.09 0.01 0.59 0.05	0.60** 0.65 0.90 Te Mean 3.83 3.83 3.83 3.04 3.05 3.04 3.05 4.96 2.20	4 1999 are (%) % 110 60 87 87 141 113 65	P-val 0.55 0.68 0.42 0.40 0.01 0.42 0.03	120.27		
eff, Of Var (%) //W vao LSD (0.05) ien LSD (0.01) try 23.3945 ie 4705 (M708) ie 5096 ie 5096 ie 5096 ie 5096 ie 5096 ie 5096 ie 4705 (M708) ie 4705 ie	50urce 95 89 112 117 104 65 97 80 100 105 100 99	4 49 5.81*** 14, 67 19 74 19 74 19 74 19 74 19 74 19 75 19 75 19 75 17 30 57 75 17 74 5 57 17 45 17 74 5 77 17 45 17 74 5 77 17 45 17 74 5 72 17 74 5 72 17 74 5 72 17 74 5 74 17 74 17 74 17 74 17 74 17 74 18 74 18 75 18 75 19 75 18 75 17 75 175 17 75 17 75 17 17 17 17 17 17 17 17 17 17 17 17 17	7 1998 K (ppm) % 99 103 94 99 103 94 96 07 97 86 106 107 97 86 106 107 109 100 103 104 105 105 105 105 105 105 105 105	P-val 0.81 0.39 0.07 0.32 0.07 0.42 0.07 0.42 0.00 0.00 0.00 0.00 0.00 0.00 0.00	8 23 3 36" 670: 54 670: 54 670: 54 670: 54 670: 54 670: 54 670: 54 670: 54 670: 54 725: 272 725: 54 725: 52 725: 54 725: 52 725: 54 725: 52 725: 54 725: 55 725: 55	13 1989 N [ppm] % 91 91 100 114 95 89 157 111 100 94 103	Prvml 0.19 0.20 0.23 0.04 0.06 0.08 0.00 0.10 0.10 0.10 0.10 0.10 0.05	890 1.01** 0.13 0.17 Boltars Maen 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 %		29/* 2.14 2.92 Email 64.79 61.57 71.09 65.98 64.98 65.98 65.99 64.19 60.01 68.06 68.06	12 1999 gence (% % 103 62 113 62 103 88 103 90 103 90 103 90 104 106	P-val 0.63 0.60 0.09 0.01 0.58 0.78 0.78 0.78 0.78 0.52	0.69 0.90 Tr Nean 3.83 3.04 3.04 3.94 3.94 3.95 2.20 3.395 2.20 3.395 2.74 4.95 3.19	4 1999 34 (%) 35 110 87 87 141 113 65 64 78 142 91	Presi 0.555 0.688 0.422 0.400 0.01 0.42 0.03 0.73 0.12 0.01 0.01 0.58	120.27		
eff, Of Var (%) //W vao LSD (0.05) ien LSD (0.01) 472 5.3945 6.3945 6.4705 (M708) 6.4705 (M708) 6.45345 6.45345 6.45345 6.45345 6.45345 6.45345 6.45345 6.45345 6.453455 6.453455 6.453455 6.4534555 6.45345555 6.45345555555555555555555555555555555555	Source 855 853 112 117 104 65 97 105 106 118 99 99 101	4 49 581- 14, 67 19 74 19 74 19 74 19 74 19 74 19 75 19 75 1	7 1998 K (ppm) 75 09 103 90 103 90 103 90 90 105 80 106 80 106 106 106 106 106 106 106 10	P-val 0.81 0.07 0.12 0.00 0.37 0.42 0.00 0.01 0.23 0.00 0.01 0.32 0.00 0.01	8 23 3 38" 670 594 484 54 Maan 252 034 252 22 259 255 259 255 259 255 259 255 259 255 259 255 259 255 259 363 265 12 265 12 2	13 1999 N (ppm) % 91 91 90 100 114 95 89 112 100 94 100 94 103 94	Press 0.19 0.20 0.33 0.06 0.08 0.06 0.19 0.19 0.24 0.24 0.21 0.21	8 561 L01** 0.13 0.17 Boltars Maen 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	13 1999 %		29/* 2.14 2.82 Email 64.79 61.57 71.09 65.98 64.69 65.98	12 1999 gence (% 103 103 103 103 103 103 103 103	P-val 0.63 0.00 0.01 0.68 0.08 0.78 0.78 0.78 0.15 0.52 0.52 0.51 0.00	0.69 0.90 Tr Mean 3.53 3.28 3.04 3.03 4.94 3.05 3.30 2.74 4.95 3.30 2.74 4.95 3.30 2.74 4.95 3.57 3.57	4 1999 35 110 50 57 87 141 113 65 141 113 65 141 113 65 141 141 113 65 142 94 142 94	P-vel 0.55 0.68 0.42 0.00 0.01 0.42 0.03 0.73 0.73 0.07 0.07 0.07 0.07 0.07	120.27		
eff, Of Var (%) //w/ inv LSD (0.05) inv LSD (0.01) inv is 3985 is 4705 (M708) is 4705 (M708) is 5913 is 5913 is 6904 is 45913 is 45914 is 459144 is 45914 is 45914 is 45914 is 45914 is 4591	Bource 95 89 112 117 104 104 100 100 100 100 100 100 100 100	4.49 511 14.97 19.74 19.74 19.74 19.74 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.97 19.77 19.77 19.77 19.97 19.	7 1998 5 (ppm) 5 5 103 103 103 94 103 94 103 94 103 104 104 104 104 104 104 104 104	P-val 0.81 0.34 0.00 0.37 0.40 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 23 3 38" 670 34 804 34 Mean 252 34 252 22 252 34 255 22 255 23 314 14 255 23 314 14 255 23 314 14 255 23 255 23 255 23 256 25 256 255 25 256 256 256 256 256 256 256 256 256 256	13 1999 N (ppnt) 15 01 100 114 95 112 111 100 54 103 03 03 04 117	P-wel 0,19 0,200 0,331 0,04 0,49 0,4	8.66 L01** 0.13 0.17 Boltars Maan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	13 1999 %		2914 2.14 2.92 Email Mean 64.79 61.57 71.09 64.09 64.09 65.00 57.00 54.19 60.01 68.08 65.38 65.38 65.38 65.38 65.38	12 1999 gence (% 100 100 100 100 100 100 100 10	P-val 0.63 0.60 0.01 0.91 0.95 0.95 0.76 0.76 0.76 0.76 0.76 0.52 0.61 0.62 0.61 0.01	0.69 0.90 Tr Mean 3.83 2.28 3.04 3.04 3.04 3.04 3.05 2.20 3.30 3.30 2.74 4.95 3.57 3.57 3.55 4.75	4 1999 35 110 90 87 141 113 65 91 142 91 142 91 142 91 142 91 142 91	P-yal 0.55 0.68 0.42 0.01 0.02 0.03 0.73 0.48 0.01 0.42 0.73 0.48 0.01 0.58 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.0	120.27		
eff, Of Var (%) //w/ wo LSD (0.05) wr LSD (0.01) try try try try try try try try	Bource 85 112 117 100 100 100 100 100 100 100 100 100	4.49 511 14.97 19.74 19.74 19.74 19.96 19.96 19.96 19.96 19.96 19.97 19.75 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.77 19.76 19.99 19.75 19.75 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.77 20.02 24 19.77 19.74 19.75 19.77 20.02 24 19.77 19.74 19.75 19.74 19.75 19.74 19.75 19.77 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 19.74 19.75 10.75 10.7	7 1998 6 (ppm) 75 99 103 94 94 94 96 97 97 97 97 97 97 97 97 97 97	P-val 0.61 0.07 0.02 0.07 0.02 0.07 0.02 0.00 0.01 0.02 0.00 0.01 0.02 0.00 0.01 0.02 0.02	8 23 3 38" 670:54 804 54 804 54 252:04 252:04 252:04 252:04 252:04 252:04 252:04 252:04 252:04 253:04 254:01 259:04 259:04 259:04 259:04 257:0	13 1999 N (ppm) % 91 200 114 95 89 152 109 94 103 94 103 94 103 94 117 111 111 109 94 103 94 117 13 197 197 197 197 197 197 197 197 197 197	P-vml 0.1% 0.2% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.5% 0.5% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2	8.60 L01** 0.13 0.17 Maan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	13 1999 %		2974 2.14 2.82 Email 64.79 61.57 71.09 65.95 85.96 65.90 57.50 64.19 66.06 66.08 66.08 66.38 66.38 66.38 66.22 77.82 69.73	12 1998 gance (% % 103 103 103 103 103 103 104 105 104 105 104 105 104 105 105 105 105 105 105 105 105	P-val 0.63 0.02 0.09 0.01 0.58	0.69 0.69 0.90 Tr Mean 3.53 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.00 2.74 4.95 3.57 3.57 3.57 4.19 3.57 5.57 5.57 5.57 5.57 5.57 5.57 5.57	4 1995 are (5) 35 110 60 87 87 141 113 65 65 65 65 64 78 142 101 102 100 100 100 100 100 100 100 10	P-wai 0.55 0.65 0.42 0.40 0.42 0.40 0.42 0.40 0.73 0.73 0.07	120.27		
eff, Of Var (%) //ak iso LSD (0.05) iso LSD (0.05) iso LSD (0.01) try try 10.3945 10.4705 (M705) 10.4705 (M705) 10.4504 10.5206	Source 355 859 112 117 106 118 99 99 99 90 106 118 99 99 99 101 118 106 118 106 118 118 118 118 119 119 119 119	4.49 581*** 14.97 19.74 19.76 19.96 61 19.96 23 15.956 17.30,57 15.01,57 15	7 5998 K (ppm) 103 94 103 94 90 90 90 97 86 90 97 86 90 97 86 90 97 86 90 97 97 86 90 97 97 86 90 97 97 97 97 97 97 97 97 97 97	P-val 0.81 0.24 0.07 0.32 0.07	8 23 3 38" 670 54 864 54 864 54 700 56 700 56 7000000000000000000000000000000000000	13 1989 N (ppm) % 91 91 90 104 95 95 95 114 95 95 117 109 94 103 93 93 117 93 127 93 127 93 95 96 96	Press 0, 1% 0, 233 0, 044 0, 045 0, 046 0, 040 0, 0000000000	8.501 0.13 0.13 0.17 Boltars Maan 0.00100000000	13 1999 %		2014 2.14 2.92 Email 64.79 61.57 71.09 65.98 64.68 65.98 64.09 65.99 65.09 65.09 65.09 65.09 65.20 57.59 65.30	12 1999 gence (% % 103 62 103 85 103 86 102 86 102 66 102 66 102 102 102 104 104 104 104 104 104 104 104	2 633 0.602 0.602 0.091 0.985 0.785 0.785 0.522 0.611 0.005 0.001 0.005 0.001 0.005 0.001 0.005 0.005 0.001 0.005 0.	0.69 0.90 Tr Mean 3.83 3.94 3.04 3.04 3.03 4.94 3.03 3.04 3.03 3.04 3.03 3.04 3.03 3.04 3.03 3.04 3.05 3.05 3.05 3.05 3.05 3.05 3.05 3.05	4 1995 are (%) 55 110 90 87 87 87 111 113 65 65 04 112 91 102 102 102 102 120 92 145	Prvel 0.55 0.68 0.42 0.00 0.00 0.00 0.00 0.00 0.00 0.00	120.27		
eff. Of Var (%) War an LSD (0.05) an LSD (0.01) fy a 3945 a 4705 (M705) a 4705 (M705) a 4705 (M705) a 4705 (M705) a 5514 a 5514 a 5514 a 5528 a 6553 a 6694 a M700 a M700 a M700 a M700 a M701 a M703 a M703 a M703 a M704 a 555 star 305 star	Bource 85 112 117 904 85 07 100 118 90 100 118 90 100 118 90 100 118 90 100 118 90 100 118 90 118 118 118 118 118 118 118 118 118 11	4.49 581*** 14.97 1974 1974 1974 1976 1976 1996 23 1996 20 1974 20 20 20 20 20 20 20 20 20 20	7 1998 5 (ppm) 103 94 96 96 97 97 97 97 97 86 90 97 97 97 86 90 97 97 86 103 94 95 95 95 95 95 95 95 95 95 95 95 95 95	P-val 0.81 0.34 0.07 0.32 0.00 0.03 0.00	8 23 3 38" 670 54 640 54 670 54 6	13 1999 N (ppm) % 91 94 95 95 95 95 94 111 100 94 103 94 103 94 117 94 103 94 117 94 117 94 117 94 117 95 95 95 95 95 95 95 95 95 95	P-unit 0.19 0.20 0.49 0.08 0.00	8.501 0.13 0.13 0.13 0.17 Boltars Maen 0.001 0.0000 0.0000 0.00000 0.00000 0.00000000	13 1999 %		2014 2.14 2.92 Email 64.79 64.79 65.59 65.59 65.59 65.59 65.59 65.59 65.59 65.59 65.59 65.59 65.59 65.59 65.59 65.30 65.30 57.59 65.30 57.59 65.30 57.59 54.19 65.30 57.59 54.19 54.05 57.59 54.19 54.59 55.59 555	12 1999 1999 100 10 10 10 10 10 10 10 10 10 10 10 10	Prevai 0.63 0.60 0.01 0.58 0.75 0.38 0.55 0.55	0.60° 0.60 0.60 10° 10° 10° 10° 10° 10° 10° 10	4 1995 are (%) % 11D 90 87 87 87 141 113 65 141 113 65 142 96 96 142 101 102 102 102 102 103 104 105 105 105 105 105 105 105 105	P-wai 0.55 0.68 0.42 0.40 0.01 0.42 0.03 0.73 0.55	120.27		
eff, Of Var (%) //w//w	Bource 955 764 1122 1177 100 100 100 100 100 100 100 100 10	4.49 581*** 14.97 19.74 19.74 19.76 19.96.81 19.99.23 19.99.24 19.748.53 19.748.53 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.69.24 19.748.53 19.748.55	7 5998 K (ppm) % 99 3% 99 3% 99 3% 99 3% 99 3% 99 3% 99 3% 90 3% 90 3% 90 3% 90 3% 90 3% 90 3% 90 3% 90 3% 90 3% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9% 9%	P-ysil 0.81 0.34 0.07 0.32 0.00 0.07 0.00 0.07 0.00 0.00 0.00 0.0	8 23 3 36" 670 54 804 54 670 54 804 54 670 54 804 54 807 54 8	13 1999 N (ppm) % 91 94 105 114 95 114 95 112 100 94 103 94 103 94 103 94 117 100 94 103 94 117 100 94 103 94 10 10 10 10 10 10 10 10 10 10 10 10 10	P-vail 0.59 0.20 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.4	8.60 1.01*** 2.13 3.17 Boltars Maan 0.001	13 1999 %		2011 2.14 2.82 Emet 64.79 61.79 61.79 61.79 61.69 65.96 65.96 65.96 65.90 65.90 65.90 65.90 65.90 65.90 65.90 65.90 65.90 65.90 65.90 65.90 65.90 77.09 71.09 70.04	12 1999 1999 100 11 10 10 10 10 10 10 10 10 10 10 10	Prevail 0.633 0.633 0.633 0.641 0.681 0.681 0.652 0.522 0.611 0.001 0.001 0.011 0.077 0.184 0.000 0.644	0.60 0.90 10 Mean 3.83 2.26 3.04 3.05 2.26 3.04 3.05 2.26 3.04 3.05 2.26 3.04 3.05 2.26 3.04 3.05 2.26 3.04 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 3.55 3.	4 1999 are (%) % 110 90 87 141 113 65 64 97 142 90 100 100 92 145 131 100	P-yeal 0.555 0.68 0.422 0.401 0.011 0.422 0.011 0.422 0.011 0.522 0.021 0.522 0.523 0.051 0.051 0.051 0.051 0.051 0.051 0.055 0.	120.27		
eff, Of Var (%) //W//W/ //W/	5000000 555 569 569 569 569 569 569 569	4.49 581*** 14.97 1974 1974 1996.61 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1999.23 1997.4	7 1998 K (ppm) % 99 103 94 186 07 94 186 07 97 76 70 07 97 76 100 00 100 100 100 100 100 100 100 100	P-val 0.81 0.24 0.07 0.22 0.00 0.01 0.02 0.00 0.01 0.23 0.20 0.25 0.55	8 23 3 36" 670 54 844 54 670 54 844 54 <b>Ann.</b> <b>Mean.</b> 252 241 252 252 252 252 252 252 252 252 253 253 264 54 265 255 266 255 267 52 267 52	13 1999 N (ppm) % 91 91 100 114 105 89 152 152 103 93 103 93 103 93 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 110 103 93 103 103 103 103 103 103 103 103 103 10	P-uni 0.119 0.200 0.331 0.49 0.69 0.60 0.50 0.51 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.3	8.60 1.01*** 0.13 0.17 Boltars Maan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	13 1999 %		2017 2,14 2,92 Emeil 64,79 64,79 64,79 65,157 71,09 65,05 65,05 65,06 65,38 65,3	12 1999 1997 10 10 10 10 10 10 10 10 10 10 10 10 10	P-val 0.63 0.60 0.01 0.55 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.77 0.77 0.77 0.74 0.78 0.77	1.807 0.60 0.90 11 Mean 3.83 3.92 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.05 2.28 3.04 3.05 2.28 3.05 3.05 3.55 3	6 1999 3% 1100 607 87 87 141 142 143 143 143 143 143 142 98 144 142 99 144 145 144 150 101 101 101 105 107 70	Presi 0.555 0.642 0.4000 0.4000 0.4000 0.4000 0.400000000	120.27		
eff, Of Var (%), //W/ inv LSD (0.05) inv LSD (0.05) inv LSD (0.01) inv inv inv inv inv inv inv inv	Bource 555 867 1122 1177 1081 106 106 106 106 106 106 106 10	4.49 51*** 14.97 1974 1996 61 1996 61 1996 61 1996 61 1996 65 1996 65 1996 65 1996 24 1865.56 1770,95 2098,67 1748 57 1671 31 1877,35 1977,131 1875,33 1865,65 1774,85 1967,41 1967,24 1967,41 1967,24 196	7 1998 K (ppm) % 9 103 94 94 94 94 94 94 94 94 94 94 96 90 100 100 100 100 100 100 100 100 100	P-yeal 0.551 0.740 0.027 0.020 0.021 0.020 0.0210000000000	8 23 3 38" 670 54 640 54 670 54 6	13 1999 N (ppnt) % 91 91 100 114 100 95 89 152 111 100 94 103 94 103 94 117 94 103 94 117 94 103 94 117 94 103 94 103 127 117 96 94 103 127 116 94 103 102 116 102 94 103 104 104 104 104 104 104 104 104 104 104	P-uni 0,1% 0,203 0,040 0,040 0,040 0,040 0,040 0,040 0,040 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,041 0,0400000000	8.66 1.01*** 0.13 0.17 Boltars Maen 0.200 0.001 0.	13 1999 %		297* 2.14 2.92 Email 64.79 64.79 65.57 61.57 71.09 65.98 84.48 65.59 65.90 64.79 65.95 65.95 65.95 71.62 65.95 71.62 65.95 71.62 85.95 76.32 85.15 70.05 85.15 71.05 85.15 71.05 85.15 71.05 85.15 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 71.05 85.95 85.95 71.05 85.95 85.95 85.95 71.05 85.95 71.05 85.95	12 1999 1999 100 112 112 100 112 100 102 102 102 103 102 104 104 104 104 107 107 107 107 107 107 107 107 107 107	Prvsl 0.000 0.001 0.000 0.001 0.0000 0.0000 0.0000 0.000000	LBC <sup>27</sup> 0.65 0.90 Tr Measu 3.53 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.04 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 3.05 2.28 3.05 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 2.28 3.55 3.55 2.28 3.55	6 1999 are (%) % 11D 00 87 141 113 157 141 113 157 142 142 142 142 142 142 142 142 142 142	Prevail 0.555 0.688 0.422 0.400 0.073 0.42 0.03 0.73 0.41 0.55 0.079 0.22 0.05 0.07 0.05 0.05 0.05 0.05 0.05 0.05	120.27		
eff, Of Var (%) //w/ //w/ //w/ //w/ //w/ //w/ //w/ ////////	85000000000000000000000000000000000000	4.49 51*** 14.97 19.74 19.74 19.74 19.76 19.76 19.66 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.97 19.77 19.77 19.77 19.77 19.77 19.97 20.98 27.90 19.67 19.97 19.	7 1998 K (ppm) 10 10 10 10 10 10 10 10 10 10	P-yeal 0.254 0.264 0.267 0.262	8 23 3 38" 670 54 804 54 670 54 804 54 670 54 804 54 805 54 8	13 1999 N (ppm) % 01 01 101 102 103 104 103 104 103 104 103 104 103 104 105 104 105 107 106 107 107 107 107 107 107 107 107	Pavel 0,19 0,230 0,046 0,066 0,000 0,100 0,100 0,100 0,100 0,100 0,0100 0,00000000	8.66 1.01*** 0.13 0.13 0.17 Boltars Maen 0.200 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000000	13 1999 %		297* 2.14 2.82 Email 64.79 61.577 71.09 85.98 85.98 85.98 85.99 85.19 85.19 85.48 85.99 85.19 85.19 85.48 85.99 85.19 85.19 85.43 85.95 85.13 85.43 85.95 85.13 85.95 85.13 85.95 85.13 85.95 85.13 85.95 85.13 85.95 85.9	12 1999 gence (% 5 1999 103) 42 103 42 103 103 42 103 45 103 46 103 104 46 46 46 46 46 46 46 46 46 46 46 46 46	Prval 0.65 0.00 0.01 0.09 0.01 0.59 0.52 0.52 0.52 0.52 0.52 0.52 0.55 0.52 0.55	1.807 0.65 0.90 1.1 Nosan 3.83 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.95	6 1993 are (%) 3% 1100 90 90 87 141 113 55 65 87 141 113 155 65 94 90 142 90 142 90 142 91 142 91 142 91 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 87 142 90 90 90 87 144 1113 142 90 90 87 144 1113 142 90 90 87 144 1113 142 90 90 90 90 90 90 90 90 90 90 90 90 90	Presi 0.555 0.625 0.622 0.001 0.73 0.011 0.555 0.011 0.555 0.011 0.555 0.011 0.555 0.011 0.555 0.011 0.555 0.022 0.055 0.021 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.055 0.022 0.055 0.0	120.27		
eff. Of Var (Ni) Taka an LSD (0.05) an LSD (0.01) a 3945 a 3945 a 3045 a 3054 b 3059 a 5014 a 5014 a 5014 a 5014 a 5014 a 5024 a 5026 a 5026	Source 555	4.49 51*** 74.97 19.74 19.74 19.74 19.74 19.74 19.74 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.90 1	7 1998 1997 100 100 100 100 100 100 100 10	P-vel 0.51 0.344 0.07 0.07 0.0000 0.0000 0.0000 0.000000	8 23 3 36" 670 54 844 54 670 54 844 54 670 54 846 54 670 54 847 54 752 24 752 252 252 252 252 252 252 252 253 253 264 11 265 253 267 56 268 55 268 55 267 52 267 56 267 52 267 56 267 52 267 52 267 56 267 52 267 52 207	13 1999 N (pps) 55 51 100 114 100 114 100 114 100 114 100 103 54 100 103 54 100 103 54 100 103 54 100 103 54 50 55 55	Persi 0,19 0,200 0,49 0,049 0,049 0,049 0,049 0,049 0,049 0,049 0,049 0,0400000000	8.66 1.01*** 2.13 2.17 Boltars Maan 0.0000 0.0000 0.0000 0.000000	13 1999 %		297* 2,14 2,92 Emeil 64,79 61,57 71,59 65,58 64,79 65,58 64,58 65,50 57,50 65,50 57,50 65,58 65,50 65,50 65,50 65,50 76,52 65,58 65,58 65,50 77,50 65,58 65,58 65,50 77,50 65,58 65,58 65,59 65,59 65,59 76,59 65,58 65,59 77,142 70,245	12 1999 1990 1990 1990 190 103 103 103 103 103 103 103 103 103 10	Prval 0.050 0.050 0.071 0.080 0.071 0.080 0.071 0.040 0.050 0.040 0.050 0.040 0.050 0.050 0.040 0.050 0.040 0.050 0.	1.80" 0.60 0.90 11 <b>Meson</b> 3.53 3.28 3.04 3.05 3.04 3.05 2.25 3.30 2.74 4.96 3.59 3.59 3.59 3.59 3.59 3.59 3.59 3.59	6 1999 are (%) 3% 1100 00 877 87 87 1411 1133 04 901 142 901 142 901 142 901 142 901 142 901 142 104 105 105 105 105 105 105 105 105 105 105	Presi 0.55 0.65 0.65 0.422 0.425 0.455	120.27		
eff. Of Var (Ni) Wa who iso LSD (0.05) an LSD (0.01) FY a 3945 a 3705 (M708) a 5014 a 5015 a 5016 a	Source 555	4.49 51*** 74.97 19.74 19.74 19.74 19.74 19.74 19.74 19.99 1	7 1998 K (ppm) 36 30 30 30 30 30 30 30 30 30 30	P-vial 0.81 0.34 0.07 0.34 0.02 0.00 0.02	8 23 3 36" 670 54 844 54 670 54 844 54 670 54 844 54 670 54 844 54 670 54 844 54 752 22 252 22 252 22 252 22 252 22 252 22 252 22 252 22 253 23 244 11 268 53 267 52 267 52 2	13 1999 N (ppm) 55 01 000 1141 95 1500 1500 1500 1500 1500 1500 1500	Persi 0,5% 0,0% 0,4%	8.66 101*** 0.13 0.17 Boltars Maan 0.00 0.	13 1999 %		297* 2.14 2.92 Email 64.79 64.79 65.57 71.99 65.50 65.00	12 1999 gence (%) % % 1031 103 805 1032 905 1032 905 1032 905 1032 905 1032 905 1032 905 1032 905 1032 1041 1042 1041 1042 1042	Presi 0.0500000000	1.60 <sup>-+</sup> 0.65 0.90 1.7 <b>Neson</b> 3.55 3.285 3.04 3.05 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.05 2.26 3.19 3.55 2.25 2.55 2.25 2.55 2.55 2.25 2.55	6 1995 35 100 87 100 87 141 103 103 103 103 103 103 103 103 103 10	P-vai 0.55 0.68 0.42 0.042 0.07	120.27		
eff. Of Var (%) with with the set LSD (10.05) an 1.5D (0.01) <b>77</b> <b>2.3945</b> <b>3.3945</b> <b>3.3945</b> <b>3.3945</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4705</b> <b>3.4</b>	Source 555 102 112 117 117 1001 465 500 118 500 118 500 1000 1000 1000 100	4.49 51*** 14.97 19.74 19.74 19.74 19.74 19.74 19.75 19.97 19.97 19.97 19.97 19.97 19.97 19.70 19.77 19.77 19.72 19.77 19.77 19.72 19.77 19.	7 599 64 (ppm) 56 599 503 50 50 50 50 50 50 50 50 50 50 50 50 50	P-val 0.813 0.214 0.007 0.	8 23 3 30°° 670 54 404 54 670 54 404 54 670 54 404 54 522 24 522 24 526 25 526 24 527 22 527 22 527 22 527 22 527 22 527 22 527 22 527 22 527 22 527 24 527 24	13 1999 N (ppm) 5 5 100 114 100 114 100 114 100 100 114 100 100	Presi 0.75 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.46	8.60 1.01*** 2.13 0.13 0.17 Boltars Maan 0.001 0.00	13 1999 %		297* 2.14 2.82 Email 64.79 61.577 71.09 65.98 84.46 65.30 65.50 65.50 65.50 65.20 65.00 65.20 65.00 65.20 65.00 65.2	12 1999 1997 1998 1997 1998 1997 100 112 100 100 100 100 100 100 100 100	Prvsi 0.552 0.059 0.050 0.	1807 0.65 0.90 Tr Mesen 3.53 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.04 3.03 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.55 2.28 3.04 3.55 2.28 3.05 2.28 3.04 3.55 3.55 2.28 3.05 2.28 3.04 3.55 3.55 2.28 3.55 3.55 2.28 3.55 3.55 2.28 3.55 3.55 2.28 3.55 3	4 1995 199	Pres) 0.555 0.668 0.450 0.001 0.72 0.000 0.71 0.000 0.71 0.000 0.71 0.000 0.000 0.72 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	120.27		
eff. Of Var (%) Take an LSD (0.05) an LSD (0.01) an LSD (0.01) an LSD (0.01) a 23945 a 2594 a 5053 a 6554 a 6553 a 6554 a 6553 a 6554 a 6553 a 6554 a 6555 a 7075 b	Source 555 112 117 112 112 117 112 112 112 112 112	4.49 51*** 74.97 19.74 19.74 19.74 19.74 19.74 19.75 19.96 19.99 19.99 19.90 19.	7 5998 56 (ppen)	P-val 0.851 0.344 0.070 0.342 0.000 0.422 0.442 0.4444 0.4444 0.4444 0.4444 0.4444 0.4444 0.4444 0.4444 0	8 23 3 30°° 670 54 Advi Dri Amn Masen 252 241 252 252 252 252 252 252 252 252 253 253 253 253 254 151 255 257 258 255 258 255 257 25 257 25 2	13 1999 N (ppm) 55 00 100 1144 08 80 100 1144 08 80 100 1140 100 100 100 100 100 100 100 1	Presi 0.76 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.46 0.46 0.06 0.46 0.06 0.46 0.06 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.31 0.46 0.46 0.31 0.46 0.476 0.46 0.476	8.60 1.01*** 9.13 0.13 0.17 Boltars Maan 0.000 0.00	13 1999 %		297* 2,14 2,82 Email 64,79 61,537 71,09 65,90 65,90 65,90 65,90 64,19 65,90 64,90 65,90 54,46 65,90 54,46 65,90 54,46 65,90 54,90 65,90 57,90 50,9	12 1999 1997 1998 1997 1997 1997 1997 100 101 102 102 102 102 102 102 102 102	Prvsi 0.650 0.020 0.	1.807 0.60 0.90 11 Mean 3.53 3.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.74 4.96 3.55 2.28 3.04 3.55 2.28 3.04 3.55 2.28 3.04 3.55 2.28 3.04 3.55 2.28 3.04 3.55 2.28 3.55 2.74 3.55 2.74 3.55 3	4 1995 35 110 100 57 57 57 57 57 57 57 57 57 57 100 100 100 100 100 100 100 100 100 10	Pres) 0.555 0.668 0.420 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.002 0.0050	120.27		
eff, Of Var (%), //w/ //w/ //w/ //w/ //w/ //w/ //w/ //w/ //w/ ////////	Bource 85: 112 117 112 117 112 117 118 118 109 109 109 109 109 109 109 109	4.49 51*** 14.97 19.74 19.74 19.76 19.966 61 19.966 61 19.966 61 19.966 61 19.966 61 19.966 61 19.966 61 19.966 62 19.966 63 19.966 63 19.974 85 17.70, 55 12.2049, 82 14.875, 33 14.875, 35 14.974, 34 19.977, 34 19.967, 41 19.962, 23 19.962, 63 19.962, 65 19.962, 63 19.962, 65 19.962, 65	7 1998 1999 16 (ppm) 16 (ppm) 16 (ppm) 17 10 17 10	P-vel 0.851 0.077 0.420 0.007 0.007 0.007 0.000 0.001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	8 23 3 38" 670 54 464 54 670 54 464 54 670 54 464 54 670 54 464 54 670 54 464 54 252 24 252 24 252 25 252 25 252 25 252 25 252 25 253 25 253 25 255 25	13 1999 N (ppm) 95 191 191 191 191 192 192 192 193 194 193 194 193 194 193 194 193 194 193 194 193 194 195 194 195 195 195 195 195 195 195 195 195 195	Persti 0.250 0.250 0.465 0.060 0.000 0.465 0.475 0	8.66 1.01*** 0.13 0.13 0.17 Boltars Maen 0.200 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000000	13 1999 %		297* 2.14 2.82 Email 64.79 61.577 71.09 85.98 85.9	12 1999 cmcc (%) % % % % % % % % % % % % %	Prval 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000	1.80" 0.65 0.90 1.1 Mean 3.53 2.26 3.03 2.26 3.03 2.26 3.03 2.26 3.03 2.26 3.03 2.26 3.03 2.26 3.03 2.26 3.03 2.26 3.03 2.26 3.05 2.25 3.00 2.74 4.96 3.19 3.22 4.96 3.19 3.22 4.96 3.19 3.22 4.96 3.19 3.22 4.96 3.19 3.22 4.96 3.19 3.22 4.96 3.19 3.22 4.96 3.19 3.22 4.96 3.22 4.96 3.19 3.22 4.96 3.22 4.96 3.22 4.96 3.22 4.96 3.19 3.22 4.96 3.22 4.96 3.22 4.96 3.22 4.96 3.20 4.96 3.20 3.20 2.74 4.96 3.22 3.50 3.20 3.00	4 1995 1995 1995 1995 199 190 10 10 10 10 10 10 10 10 10 10 10 10 10	Presi 0.555 0.688 0.642 0.422 0.447 0.422 0.447 0.427 0.447 0.427 0.447 0.447 0.427 0.447 0.447 0.427 0.447 0.	120.27		
eff, Of Var (%) //w//w	Bource 95- 112 117 112 117 112 117 112 117 112 117 118 118 118 118 118 118 118	4.49 51*** 14.97 19.74 19.76 19.96 61 19.96 61 19.73 0.65 61 19.73 0.55 19.73 0.65 61 19.73 0.55 19.74 85 19.74 85 19.77 0.55 20.98 60 19.67 62 20.75 82 19.67 62 20.75 82 20.75 82 19.67 62 20.75 82 19.67 62 20.75 82 20.75	7 1998 1997 1097	P-vel 0.813 0.417 0.	8 23 3 30" 670 54 464 54 57 57 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59	13 1999 N (ppm) 1995 1910 1910 1911 1911 1910 1911 1910 1911 1910 1911 1910 1911 1910 1917	Peesi 0.25 0.25 0.46 0.05 0.46 0.05 0.46 0.05 0.46 0.05 0.46 0.25 0.25	8.60 1.01*** 0.13 0.17 Boltars Maan 0.200 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000000	13 1999 %		297* 2.14 2.82 Email 64.79 61.577 71.09 85.98 85.9	12 1999 0 100 100 100 100 100 100 100 100 100 1	Prvsi 0.050 0.	1.80" 0.65 0.90 1.1 Neason 3.53 3.28 3.28 3.03 3.05 3.03 3.05 3.55	4 1995 1995 1995 1995 199 199 19 10 10 10 10 11 10 10 10 10 10 10 10 10	Presi 0.555 0.668 0.642 0.422 0.422 0.422 0.071 0.021 0.021 0.021 0.055 0.022 0.055 0.022 0.055 0.022 0.055 0.	120.27		
eff, Of Var (%) //W/ /axo LSD (0.05) ien LSD (0.05) ien LSD (0.01) ////////////////////////////////////	Source, 55 55 55 112 112 112 112 112 104 155 55 50 100 118 55 50 50 100 100 100 118 100 100 119 100 100 111 104 104 105 100 100 100 100 100 100 100 100 100	4.49 51*** 74.97 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.75 19.99 19.90 1	7 5988 6 (ppm) 16 50 50 50 50 50 50 50 50 50 50 50 50 50	P-vail 0.851 0.344 0.072 0.034 0.032 0.032 0.040 0.040 0.040 0.040 0.052 0.040 0.052 0.040 0.052 0.040 0.052 0.055 0	8 23 3 30°° 670 54 444 54 57 56 57 56 57 56 57 57 56 57 57 57 57 57 57 57 57 57 57 57 57 57	13 1999 5 5 5 100 100 100 100 100 100 100 100 1	Pauli 0.1% 0.20 0.20 0.46 0.47	8.66 1.01*** 0.13 0.17 Boltars Maan 0.00 0.	13 1999 %		297* 2.14 2.92 Emeil 64.79 61.57 71.09 65.58 64.79 65.58 65.00 65.00 65.38 65.00 65.38 65.00 65.38 65.39	12 1999 Centre (1) 5 % 1031 Centre (1) 1032 Centre (1	Prvel 0.650 0.5500 0.5500 0.5500 0.5500 0.5500 0.5500 0.5500 0.5500 0.55	1.807 0.69 0.90 1.07 <b>Meson</b> 3.55 3.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.04 3.05 2.28 3.00 2.74 4.96 3.59 2.55 2.55 2.55 2.55 3.50 2.28 3.50 2.28 3.50 2.55 2.	4 1995 1995 1995 1997 1990 190 190 190 190 190 190 110 190 110 190 110 100 10	Pres) 0.555 0.648 0.420 0.	120.27		
velf. Of Var (%) Valu san LSD (0.05) ten 1.50 (0.01) ten 1.50 (0.01)	Source 55	4.49 51*** 74.97 19.74 19.74 19.74 19.74 19.74 19.74 19.75 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.90 19.95 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 17.20 19.95 1	7 598 6 (ppm) 16 50 50 50 50 50 50 50 50 50 50 50 50 50	P-vail 0.851 0.344 0.072 0.030 0.342 0.030 0.032 0.460 0.032 0.460 0.032 0.460 0.032 0.460 0.032 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.332 0.460 0.558 0.460 0.558 0.558 0.558 0.558 0.558 0.558 0.558 0.5788 0.5788 0.5788 0.5788 0.5788 0.5788 0.5788 0.5788	8 23 3 30°° 670 54 444 54 484 54 484 54 484 54 484 54 484 54 485 52 252 22 252 252 252 252 252 252 252 252 252 252 252 252 253 254 255 252 255 252 257 257 257 257	13 1999 N (ppm) 5 1995 1995 1995 1995 1995 1995 1995 1	Pauli 0.1% 0.20 0.20 0.46	8.66 1.01*** 0.13 0.17 Boltars Maan 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000000	13 1999 %		297* 2.14 2.92 Emeil 64.79 61.57 71.09 64.79 64.79 64.598 64.68 64.79 64.58 64.68 65.56 65.50 65.56 65.58 65.58 65.26 65.2	12 1999 0 100 1999 0 100 100 100 100 100 100 100 100 100 1	Prvel 0.650 0.0500 0.050 0.0500 0.0500 0.0500 0.0500 0.0500000000	1.80" 0.69 0.90 1.0" 1.8% 1.3% 1.4% 1.3% 1.4%	4 1995 1995 1995 1990 100 100 100 100 101 101 10	Pres) 0.555 0.648 0.420 0.	120.27		
veff, GV Var (%) Valu valu	Bource 85: 112 117 112 117 112 117 112 117 117	4.49 51*** 14.97 19.74 19.74 19.74 19.74 19.76 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.96 19.97 19.43 10.97 19.43 10.97 19.43 10.97 19.43 10.97 19.10 19.74 19.	7 1998 1997 1097	P-vel 0.851 0.407 0.427 0.427 0.007 0.	8 23 3 30°° 670 54 444 54 57 56 57 56 57 56 57 57 56 57 57 57 57 57 57 57 57 57 57 57 57 57	13 1999 N (ppm) 1995 1995 191 191 191 193 193 193 193 193	Pausi 0.15 0.25 0.46 0.05 0.05	8.60 1.01*** 0.13 0.17 Boltars Maan 0.200 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000000	13 1999 %		297* 2.14 2.82 Email 64.79 61.577 71.09 85.98 85.9	12 1999 0 10 10 10 10 10 10 10 10 10 10 10 10 10	Prvsi 0.552 0.059 0.059 0.059 0.059 0.059 0.051 0.052 0.	1.80" 0.65 0.90 Tr Measn 3.83 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.95 3.55	4 1995 1995 1995 1995 1995 1995 199 199 1	Presi 0.555 0.668 0.452 0.452 0.452 0.452 0.001 0.752 0.001 0.752 0.552 0.552 0.005 0.	120.27		
eff. Of Var (%) value	Source 555 867 112 117 117 117 117 117 86 86 118 118 118 118 118 119 119 110 100 100 100 100 100 100 100	4.49 51*** 14.97 19.74 19.74 19.74 19.74 19.74 19.75 19.95 19.95 19.95 19.95 19.70 19.70 19.70 19.70 19.70 19.70 19.72 19.	7 1098 16 (ppm) 16 10 100 100 100 100 100 100 100 100 1	P-val 0.811 0.017 0.027 0.027 0.027 0.027 0.027 0.028 0.027 0.	8 233 3 30°° 6700 54 4844 54 7700 54 4844 54 7700 54 7770 54 7770 55 7770 55 777000 57700 5770000000000	13 1999 N (ppm) 1999 1999 1910 191 191 191 191	Presi 0.75 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.46 0.46 0.46 0.46 0.20 0.20 0.46 0.46 0.20 0.20 0.46 0.20 0.46 0.20 0.20 0.46 0.20 0.20 0.46 0.20 0.46 0.20 0.20 0.46 0.20 0.46 0.20 0.20 0.46 0.20 0.20 0.46 0.20 0.20 0.46 0.20	8.60 1.01*** 2.13 0.13 0.17 Boltars Maan 0.001 0.0	13 1999 %		297* 2.14 2.82 Email 64.79 61.577 71.090 85.98 85.99 85.	12 1999 0 10 10 10 10 10 10 10 10 10 10 10 10 10	Prvsi D651 D090 D090 D090 D090 D090 D090 D090 D09	180" 0.65 0.90 Tr Mosan 3.83 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.94 3.95 2.28 3.95 2.27 4.16 3.95 2.67 2.67 2.67 2.67 2.67 2.67 2.67 2.67 2.67 2.75 2	4 1995 25 1995 25 1995 25 199 25 19	Presi 0.555 0.666 0.452 0.	120.27		
eff. Of Var (%) Valu value (%) (%) (%) (%) (%) (%) (%) (%)	Bource 55- 55- 112 112 112 112 112 112 112 11	4.49 51*** 74.97 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.90 1	7 598 6 (ppm) 5 6 (ppm) 5 6 (ppm) 5 6 (ppm) 5 6 6 6 7 7 7 7 6 6 6 6 7 7 7 7 6 6 6 7 7 7 7 7 7 6 6 6 7	P-viii 0.81 0.34 0.07 0.34 0.02 0.00 0.01 0.00 0.02 0.00	8 23 3 36" 670, 54 844, 54 670, 54 844, 54 670, 54 844, 54 670, 54 844, 54 752, 252 252, 252 252, 252 252, 252 252, 252 253, 254 253, 253 254, 541 255, 255 255, 752 255, 255 257, 752 255, 255 255, 752 257, 752 2	13 1999 N (ppm) 55 1900 1900 1900 1900 1900 1900 1900 1	Pauli 0.76 0.20 0.46	8.66 101*** 2.13 0.13 0.13 0.13 0.13 0.13 0.000 0.00	13 1999 %		297* 2.14 2.92 Emed 64.79 64.79 64.79 65.50 65.000 65.000 65.000 65.0000 65.00000000000000000000000000	12 1999 0 1991 0 1993 0 1993 0 1993 0 1993 0 1993 0 1993 0 1993 0 1993 0 1993 0 1993 0 1994 0	Prvsi 0.050 0.057 0.050 0.057 0.	1.80 <sup>-+</sup> 0.65 0.90 1.1 <b>Meson</b> 3.55 2.28 3.04 3.05 2.28 3.05 2.28 3.04 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.28 3.05 2.26 3.30 2.74 4.96 3.55 2.25 3.30 2.74 4.96 3.55 2.25 3.30 2.74 4.96 3.55 2.25 3.55 3.5	4 1995 1995 1995 199 190 10 10 10 10 10 10 10 10 10 10 10 10 10	Presi 0.550 0.688 0.420 0.071 0.450 0.071 0.250 0.0510	120.27		
sef, Of Var (%) Valu sen LSD (0.05) sen LSD (0.01)	Bource 55- 55- 112 112 112 112 112 112 112 11	4.49 51*** 74.97 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.74 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 19.99 17.46 19.77 17.04 19.77 17.75 17.77 19.95 17.75 19.95 17.75 19.95 19.57 1	7 598 6 (ppm) 5 6 (ppm) 5 6 (ppm) 5 6 (ppm) 5 6 9 9 7 7 8 9 9 9 1 7 7 8 9 9 9 1 7 7 8 9 9 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-viii 0.61 0.34 0.07 0.24 0.00	8 23 3 36" 670, 54 404 54 404 54 404 54 404 54 404 54 404 54 404 54 404 54 404 54 404 54 404 54 55 52 52 52 52 52 52 52 52 52 52 52 52	13 1999 N (ppm) 55 1900 1900 1900 1900 1900 1900 1900 1	Pawii  D.19  0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.	8.66 101*** 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.000 0.00	13 1999 %		297* 2.14 2.82 Email 64.79 61.577 71.09 65.577 71.09 65.00 65.	12 1999 0 103 1999 0 103 103 103 103 103 103 103 103 103 10	Prvui 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000	1.807 0.65 0.90 1.07 Nean 3.553 3.285 3.041 3.052 3.051 3.054 3.055 3.0555 3.0555 3.0555 3.0555 3.0555 3.0555 3.05555	4 1995 1995 1995 1990 190 10 10 10 10 10 10 10 10 10 10 10 10 10	Presi 0.550 0.648 0.420 0.	120.27		
velf. Of Var (%) Valu sen LSD (0.05) sen LSD (0.05) sen LSD (0.01) dry da 3945 da 3945 da 4705 (M705) da 5204 da 5204 da 5205 da 5205	Bource 85 112 117 112 117 112 117 112 117 117	4.49 51*** 74.97 74.97 74.97 19.74 19.74 19.74 19.74 19.75 19.96 19.96 19.96 19.95 19.95 17.20 19.95 17.20 19.77 19.77 19.72 19.77 19.72 19.77 19.72 19.77 19.72 19.72 19.77 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.72 19.75 19.	7 598 6 (ppm) 5 6 (ppm) 5 6 (ppm) 5 6 (ppm) 5 6 9 9 7 7 8 9 9 9 1 7 7 8 9 9 9 1 7 7 8 9 9 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P-viii 0.61 0.34 0.07 0.24 0.00	8 233 3 36" 670 54 484 54 700 54 484 54 700 54 484 54 700 54 484 54 700 54 7000	13 1999 N (ppm) 55 1900 1900 1900 1900 1900 1900 1900 1	Pawii  D.19  0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.	8.66 101*** 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.000 0.00	13 1999 %	Avel	297" 2,14 2,82 Email 64,79 61,577 71,09 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,90 65,90 70,9	12 1999 0 103 1999 0 103 103 103 103 103 103 103 103 103 10	Prvsi 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000	180" 0 65 0 90 Tr Nosan 3 53 2 28 3 04 3 04 3 04 3 04 3 04 3 05 2 28 3 04 3 04 3 04 3 04 3 05 2 28 3 04 3 04 3 05 2 28 3 04 3 05 2 05 3 04 3 05 3	4 1995 1995 1995 1990 190 10 10 10 10 10 10 10 10 10 10 10 10 10	Presi 0.550 0.648 0.420 0.	120.27		

\* Significant at 5%. \*\* Significant at 1%. No Not Significant Mean LSD is only appropriate for comparing entry means with each other when F value is significant. 2nd column for each trait is percent of check. General Mean used as check. 3rd column for trait is probability that detection of a diff. (from check mean) of this size is due to chance.

#### American Crystal Sugar Co. - Technical Service Center Southern Minnesota Commercial Coded Trial - Lattice Trial 955604, DeCraft, MN Planting Date: 04/27/1999 Harvest Date: 10/01/1999 42 Entries & Replications 2 Rows/Plot 1 Samples/Plot

Entry	Source		1999 lec/T (lb			1995 c/A (lbs)		Loss to				1999 ield (T/A			1999 Sugar %	3		1999 a (ppm)
		Mean	%	P-val	Mean	%	P-val	Mean	%	P-val	Mean	5	P-val	Mean	5	P-val	Mean	*
Seta 3045	1 95	299.28	113	0.00	6574.72	112]	0.00	0.91	87	0.00	21.92	99	0.78	15.67	1110	00 52	520.50	751
leta 4705 (M705)	89	276.82	104	0.00		106	0.11	1.05	100	0.92	22.58	102	0.58	14.89	104 0	0.03 71	712.33	103
Seta 5014	112	274.00	103	0.14		95	0.73	1.06	101	0.73	21.16	26 39	0.21	14.77	103 0		773.53	111
Beta 5296 Beta 6863	117	287.49	108	0.00	6264.24	107	0.10	0.94	89	0.01	21.85	10	0.71	15.31	107 0		538.02	78
Jeta 0904		286.78	108	0.00		102	0.50	0.96	91	0.02	20.97	- 95	0.13	15.30	107 0		622.58	50
Beta M701	85	285.42	107	0.00		112	0.00	0.99	95	0.15	23.14	105	0.20	15.27	107 0		623.18	90
Seta M703	86	276.95	104	0.05	6249.69	106	0.11	1.02	58	0.55	22.54	102	0.61	14,87	104 0		662.45	95
Seta M706	106	270.61	1021	0.38		101	0.61	1.07	102	0.63	21.76	- 58	0.64	14.59	102 0		674.69	.97
Seta M811 Seta M846	118	268.91 265.57	101	0.56	6262.02	106	0.10	1.02	97	0.48	23.58	106	0.11	14.45	101 0	62 61	619.75	89
ieta M930	79	277.94	105	0.03	6339.63	108	0.05	1.06	101	0.85	22.87	103	0.35	14.96		02 64	643.81	100
Systal 205	101	245.60	92	0.00	5013.72	85	0.00	1.04	99	0.81	20.43	92	0.03	13.32		0.00 66	668.68	96
Systal 302	84	259.65	- 98	6.29	5952.71	101	0.76	1.02	56	0,54	23.01	164	0.26	14.D1	98 0		744,21	107
Aystal 309	116	268.31	101	0.64	5877.69	100	0.99	1.09	104	0.34	21.96	99	0.83	14.50	101 0		678.06	96
Systal 555 Systal 522	105	267.24	101	0.78	5669,55	96	0.36	1.00	95	0.24	21.14	87	0.000	14.35	100 0		542.51 675.28	78
rystal 9744	93	246.33	93	0.00	5439.60	92	0.06	1.08	103	0.43	21.79	58	0.65	13.41	94 0		758.26	109
IM 7057	120	277.04	104	0.04	6173.45	105	0.21	0.94	89	0.01	22.29	101	0.64	14.78	103 0		555.87	80
IM 7073	100	252.03	95	0.02	5127.76	87	0.00	1.15	109	0.02	20.44	92	0.03	13.74	96 0		863.66	124
iM Hector	103	269.10	101	0.54	5787.67	98	0.69	0.96	92	0.04	21.49	97	0.40	14.42	101 0		660.21	96
IM Resist IM Viking	88	265.37 266.80	100	0.96	5867.81 5579.32	100	0.95	1.03	98	0.67	22.14	100	0.99	14.50	100 0		747.21	108
tolly 98 Aph03	83	261.81	90	0.64	6045.60	103	0.48	1.00	103	0.73	20.89	104	0.11	14.41		55 69	729.60 695.52	105
folly 98HX806	114	264.70	100	0.87	6011.05	102	0.57	1.05	100	0.45	22.70	104	0.47	14.29		88 71	711.54	103
10/ly 96HX829	96	273.21	103	0.18	6417.62	109	0.02	0.99		0.12	23.50	106	0.08	14.66	102 0	22 56	565.45	#2
tolly 99HX933	90	264.08	99	0.78	\$704,95	99	0.71	1.13	107	0,06	22.01	- 95	0.66	14.32	100 0	1.98 79	793.58	114
telly 90HX941	108	241.69	91	0.00	5216.37 6618.51	89	0.00	1.17	111	0.00	21.55	. 97	0.45	13,26	93 0		944.62	136
100y 90HX942 100y 90HX957	115	264.81	100	0.85	6616.51	113	0.00	1.03	98 120	0.56	25.05	113	8.00	14.26	100 0	79 71	713.96	103
108y 99HX958	111	240.91	01	0.00	5225.92	89	0.00	1.20	116	0.00	21.66	56	0.01	13.25	92 0	00 98	983.66 983.64	142
folly Rival	91	245.32	92	0.00	5409.73	92	0.04	1.22	116	0.00	22.00	99	0.86	13.49	94 0	1.00 65	651,56	94
eedex SX Laser	110	261.02	99	0.51		-97	0.40	1.03	89	0.64	21,71	6.8	0.58	14.12	99 0		534.74	77
eedex SX1012 eedex SX1018	87	269.90	102	0.45		90	0.60	1.01	96	0.30	21.58	97	0.47	14.50	101 0		665.86	96
an der Have H40105	102	257 74	102	0.16	5301.42	109	0.01	0.98	107	0.07	20.69	93	0.05	14.01	98 0		649.24 565.66	94 82
an der Have H46140	110	279.42	105	0.02	5904.56	100	0.92	0.90		0.00	21.09		0.18	14.58	104 0		531.15	77
an der Have H46175	.82	229.75	86	0.00	4979.00	- 65	0.00	1.13	108	0.04	21.85	99	0.71	12.62	88 0		829,10	134
an der Have H46177	107	275.79	104	0.07		106	0.15	0.07	\$2	0.04	22.59	102	0.57	14.75		11 58	585,31	64
an der Have Histitüt	80	258.89	97	0.20		98	0.69	1.05	100	0.94	22.30	\$01	0.84	13.98		19.71	710.81	102
an der Have H68151 an der Have H68152	92	246.23	90	0.36		103	0.50	1,08	103	0.43	23.29	105	0.14	14.10	96 0	38 77	779.62	112
ander mare moona.	341	240.201	- 991	0.001	OUND DEL	1996.1	0.001	3,141	1691	0.002	64.041	1194	0.018	10,401	9410	040 031	000.001	1201
					a			1.05			22.14			14,33		69.00	693.75	
		265.65			5881,10						80.8			4.20		1.00	6.50	
coeff. Of Var (%)	20	4.89			8.98		156	9.24										
oeff. Of Var (%) Valu	3	4.89			8.98 3.84**	- 227		52**	100	ŝ	2.41**			6.66**	6.25		5.95**	2221
oeff. Of Var (%) Valu Isan LSD (0.05)	i.	4.89 5.87** 15.90	:		8.98 3.64** 650.13	11		0.11	.!!		2.41** 2.20	10		6.66** 0.74	5	14.00	0.14	20
oeff, Of Var (%) Valu Isan LSD (0.05) Isan LSD (0.01)	Source	4.89 5.87** 15.90 20.97	8 8 1999 C (ppm)		8.98 3.64** 650.13 857.67	11 15 1999 N (ppm)		0.11 0.15 Dolters	14		2.41** 2.20 2.90 Eme	13 1999 rgence (	(N)	6 66** 0.74 0.97	5 7 1999 are (%)	14.00 15.00		20 27
oeff. Of Var (%) Valu Itean LSD (0.05) Itean LSD (0.01)	Source	4.89 5.87** 15.90 20.97 Mean	6 1999 C (ppm) N	P-yal	8.98 3.84** 650.13 857.67 Am. Mean	15 1999 N (ppm) N	P-val	0.11 0.15 Bolters Mean	14	P-val	2.20 2.90 Eme Mean	13 1999 rgonce ( 54	(%) P-val	6.66** 0.74 0.97 <u>1</u> Mean	7 1999 are (%)	14.00 15.00 P-val	0.14	
oeff, Of Var (%) Valu Itean LSD (0.05) Itean LSD (0.01) Intry	20	4.89 5.57** 15.90 20.97 Mean 1343.33]	8 1999 (jppmi) %		8.98 3.64** 650.13 857.67	15 1999 <u>N (ppm)</u> % 81]	P-val	0.11 0.15 Dolters	14		2.20 2.90 Eme Mean 43.65	13 1999 rgence ( %	%) P-val 0.25	6 66** 0.74 0.97	7 1999 are (%) %	14.00 15.00 P-val	0.14	
oest. Of Var (%) Valu Itean LSD (0.05) Itean LSD (0.01) Intry Iteta 3945 Ieta 3945	Source	4.89 5.87** 15.90 20.97 Mean	6 1999 C (ppm) N	P-val	8.98 3.84** 650.13 857.67 Mean 158.73	15 1999 N (ppm) N	P-val	0.11 0.15 Bolters Mean	14		2.20 2.90 Eme Mean	13 1999 rgonce ( 54	(%) P-val	6.66** 0.74 0.97 T Mean	7 1999 are (%)	14.00 15.00 P-val 0.26 0.50	0.14	
Deeff, Of Var (%) Valu Baan LSD (0.05) Rean LSD (0.05) Rean LSD (0.01) Refer and the second second second Refer and the second s	Sourcel 95 09 112 117	4.89 5.87** 15.90 20.97 Mean 1343.33 1472.67 1367.17 1325.00	8 (ppm) % 53 102 96 92	P-val 0.05 0.59 0.25 0.02	8.98 3.84** 650.13 857.67 Mean 158.73 157.62 167.63 174.65	15 1999 N (ppm) % 91 95 100	P-wal 0.50 0.27 0.67 0.97	0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00	14		2.41** 2.20 2.90 Mean 43.65 59.33 41.18 46.42	13 1999 rgence % 00 123 65 96	%) P-val 0.28 0.01 0.10 0.65	6 66** 0.74 0.97 Mean 2.65 3.55 3.42 4.05	7 1999 are (%) % 65 105 102 121	14.00 18.00 P-val 0.26 0.68 0.50 0.15	0.14	
beff, 01 Var (%) Valu lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 3945 leta 3914 urta 5946 erta 6853	Source 95 99 112 117 104	4.89 5.87** 15.90 20.97 Mean 1343.33 1472.67 1387.17 1387.17 1385.00 1250.50	8 1999 % 53 102 95 95 92 87	P-yal 0.05 0.25 0.02 0.00	8.98 3.64** 650.13 857.67 Mean 158.73 157.62 167.63 174.66 175.77	15 1999 N (ppm) 5 91 96 100 101	P-wal 0.50 0.27 0.67 0.97 0.91	0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00	14		2.41** 2.20 2.90 <u>Eme</u> Mean 43,65 59,33 41,18 46,42 52,98	13 1999 rgence % 90 123 85 96 110	5) P-val 0.78 0.01 0.10 0.65 0.78	6 66** 0.74 0.97 Mean 2.65 3.55 3.42 4.05 3.25	7 1999 are (%) % 65 105 105 105 102 121 97	14.00 15.00 P-val 0.20 0.68 0.50 0.13 0.61	0.14	
bert: 01 Yar (%) Yalu tean LSD (0.05) tean LSD (0.01) intry teta 3945 teta 3945 teta 3951 teta 3951 teta 3951 teta 5951 teta 6953 teta 6954	Source 95 09 112 117 104 85	4.89 15.90 20.97 Mean 1343.33 1472.97 1367.17 1325.00 1354.00	8 1999 5 53 53 102 96 92 87 94	P-yal 0.05 0.59 0.25 0.02 0.00 0.11	8.98 3.64** 650.13 857.67 Mean 158.73 157.62 167.83 174.65 175.77 148.37	15 1999 N (ppm) 5 5 91 91 96 100 101 85	P-val 0.30 0.27 0.67 0.91 0.91	0.11 0.15 Beiters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00	14		2.41** 2.20 2.90 <u>Eme</u> Mean 43.65 59.33 41.65 59.33 41.65 55.65	13 1999 1000 123 000 123 000 123 000 123 000 123 000 123 000 123 123 123 123 123 123 123 123 123 123	5) P-val 0.28 0.01 0.10 0.66 0.28 0.09	6 66** 0.74 0.97 Mean 2.65 3.55 3.42 4.05 3.55 3.55 3.55	7 1999 are (%) % 65 105 105 102 121 97 106	14.00 15.00 P-val 0.26 0.66 0.50 0.13 0.61 0.66	0.14	
beff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.01) infry leta 3945 leta 3945 leta 3955 leta 5014 atta 5014 leta 6853 leta 6853 leta 6954 leta 6954	Source 95 09 112 117 104 05 07	4.89 187** 15.90 20.97 Mean 1343.33 1472.67 1387.17 1325.00 1250.00 1404.67	8 1999 % 53 102 95 95 92 87	P-yal 0.05 0.59 0.25 0.02 0.00 0.11 0.42	8.98 3.54** 650.13 857.67 Mean 158.73 157.62 167.83 174.65 175.77 148.37 170.18	15 1999 N (ppm) % 91 95 100 101 85 (8	P-val 0.30 0.27 0.67 0.67 0.91 0.06 0.91	0.11 0.15 Dolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41** 2.20 2.90 Eme Mean 43.65 59.33 41.18 46.42 52.98 55.65 47.02	13 1999 100 123 00 123 05 96 110 115 97	56) P-val 0.28 0.01 0.65 0.65 0.65 0.09 0.77	6 66** 0.74 0.97 Mean 2 65 3 55 3 42 4 05 3 255 3 255 3 355 3 30	7 1999 are (%) % 65 105 102 102 102 105 106 98	14.00 15.00 P-val 0.26 0.66 0.50 0.65 0.65 0.68	0.14	
beeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.01) infry leta 3945 leta 3945 leta 3955 leta 3014 lata 5014 lata 5014 lata 5014 lata 5014 lata 5014 lata 5054 leta 6853 leta 6853 leta 6954 leta MT03 leta MT03	\$900rcel 05 09 112 117 104 05 07 85	4.89 15.90 20.97 Mean 1343.33 1472.97 1367.17 1325.00 1354.00	8 (ppm) N 53 102 95 95 95 95 95 95 95 95 95 95 95 95 95	P-yal 0.05 0.59 0.25 0.02 0.00 0.11	8.98 3.64** 650.13 857.67 Mean 158.73 157.62 167.83 174.65 175.77 148.37	15 1999 N (ppm) 5 5 91 91 96 100 101 85	P-val 0.30 0.27 0.67 0.91 0.91	0.11 0.15 Beiters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00	14		2.41** 2.20 2.90 <u>Eme</u> Mean 43.65 59.33 41.65 59.33 41.65 55.65	13 1999 1000 123 000 123 000 123 000 123 000 123 000 123 000 123 123 123 123 123 123 123 123 123 123	5) P-val 0.28 0.01 0.10 0.66 0.28 0.09	6 66** 0.74 0.97 Mean 2.65 3.55 3.42 4.05 3.55 3.55 3.55	7 1999 are (%) % 65 105 105 102 121 97 106	14.00 15.00 P-val 0.26 0.66 0.50 0.13 0.61 0.66	0.14	
bert: 01 Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 4955 leta 4951 leta 4954 leta 4954 leta 6954 leta 6954 leta 6954 leta 6954 leta 6954 leta 6954 leta 6954 leta 6954	Source 95 09 112 117 107 05 07 05 106 118	4.85 6.87** 15.90 20.97 Mean 1343.33 1347.2.67 1347.2.67 1347.2.67 1357.00 1404.67 1354.00 1404.67 1354.67 1516.83 1430.87	8 (ppm) 3 53 102 95 95 95 95 95 95 95 95 95 95 95 95 95	P-yal 0.05 0.59 0.25 0.00 0.00 0.11 0.42 0.23 0.16 0.77	8.56 3.64" 650.13 657.67 Mean 158.73 157.62 167.63 174.65 176.83 174.65 176.83 174.83 176.83 174.83 176.83 175.32	15 1999 N (ppm) % 51 91 95 100 101 101 100 101	P-val 0.50 0.27 0.67 0.91 0.06 0.79 0.79 0.77 0.97 0.94	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41** 2.20 2.90 Mean 43,633 56,633 56,633 56,633 56,633 56,655 56,6555 56,6555 56,6555 56,65555 56,655555 56,655555555	13 1999 1999 10 10 123 05 96 110 115 97 91 112 99	5) P-val 0.28 0.01 0.10 0.28 0.28 0.28 0.28 0.28 0.23 0.77 0.31 0.18 0.95	6 66** 0.74 0.97 <b>Mean</b> 2.65 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3	7 1999 are (%) % 65) 105 102 121 977 106 965 145 102	14.00 15.00 0.241 0.66 0.50 0.51 0.66 0.88 0.66 0.66 0.66 0.091	0.14	
beff, 01 Yar (%) Yalu Isan LSD (0.05) Isan LSD (0.05) Isan LSD (0.01) Intry Ista 3545 Ista 3545 Ista 3545 Ista 3504 Ista 5064 Ista 5064 Ista 5064 Ista 5064 Ista 5064 Ista 5064 Ista 5064 Ista 5064 Ista 5076 Ista 5	Source 95 09 112 117 104 07 85 07 85 106 118 09	4.85 5.87 15.90 20.97 Mean 1343.33 1472.67 1347.67 1357.00 1250.50 1354.60 1354.67 1516.83 1436.87 1527.60	8 (ppm) 50 102 95 95 95 95 95 95 95 95 95 95 95 95 95	P-val 0.05 0.59 0.25 0.02 0.01 0.42 0.25 0.15 0.15 0.17 0.17	6.56 3.54" 650.13 857.67 Mean 156.73 157.62 157.62 157.62 157.62 157.63 176.45 176.73 176.73 176.73 176.73 176.73 176.33	15 1999 N (ppm) 5 81 91 100 101 85 68 103 100 101 101 101 101	P-val 0.30 0.27 0.67 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.9	52** 0.11 0.15 Beilers Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41** 2.20 2.90 Mean 40.65 59.33 41.16 59.33 44.64 52.58 55.55 47.02 43.83 54.17	13 1999 rgence 54 00 123 05 05 05 05 110 115 97 91 112	5) P-val 0.01 0.66 0.28 0.05 0.77 0.31 0.18	6 66** 0.74 0.97 Mean 2 65 3.55 3.55 3.55 3.42 4.65 3.25 3.25 3.55 3.55 3.55 3.55 3.55 3.5	7 1999 are (%) % 451 105 102 121 97 106 96 96 145	14.00 15.00 0.261 0.263 0.50 0.13 0.61 0.68 0.68 0.68 0.68 0.68	0.14	
beff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 4765 (M705) leta 4765 (M705) leta 4765 (M705) leta 5060 leta 5014 leta 5044 leta M703 leta M703 leta M703 leta M703 leta M703 leta M703 leta M703 leta M703 leta 4703 leta 4704 leta 4704 leta 4704 leta 4704 leta 4704 le	500rcel 98 99 112 117 104 85 106 118 97 79	4.89 6.87************************************	8 (ppm) % 93 102 95 92 87 94 07 06 105 106 106 106	P-yal 0.05 0.59 0.25 0.00 0.11 0.42 0.42 0.42 0.42 0.16 0.77 0.11 0.16 0.77	6.56 3.54" 650.13 857.57 Mean 150.75 157.62 157.63 157.63 174.65 174.65 176.83 176.83 176.83 176.83 176.83 176.83 175.72 230.49	15 1999 N (ppm) 5 81 96 100 101 85 68 103 100 101 101 101 107 110	P-val 0.50 0.27 0.67 0.91 0.91 0.91 0.91 0.75 0.77 0.07 0.07 0.07 0.007 0.25	52** 0.11 0.15 <b>Dotters</b> Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41** 2.20 2.90 Meán 40.65 30 41.18 46.42 55.55 55.65 47.02 43.83 55.43 55.43 55.65 55.65	13 1999 1999 1999 1999 100 1233 055 055 055 055 055 055 055 0	%) P-val 0.28 0.01 0.06 0.28 0.03 0.77 0.31 0.18 0.95 0.05	6 66** 0.74 0.97 <b>Mean</b> 2 65 3 555 3.42 4.05 3 255 3 .55 3 .	7 1999 are (%) % 65 105 105 105 105 97 106 96 96 145 102 96 96 56 145	14.00 15.00 0.261 0.663 0.663 0.651 0.664 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.655 0.5550 0.555 0.5550 0.5550 0.55500000000	0.14	
bert: 01 Yar (%) Yalu kan LSD (0.05) kan LSD (0.05) kan LSD (0.01) http: ieta 3945 ieta 3945 ieta 3955 ieta 4705 ieta 5096 ieta 6954 ieta 6955 ieta 69555 ieta 69555 ieta 69555 ieta 69555 ieta	Sourced 95 95 112 117 104 85 07 86 108 118 97 79 101	4.85 5.87 15.90 20.97 <b>Mean</b> 1343.33 1472.67 1387.17 1387.17 1387.17 1385.00 1505.00 1506.03 1556.03 1556.03 1534.67 1516.03 1430.67 1527.00 1491.83 1432.00	8 (ppm) 53 53 50 53 50 53 50 55 52 87 94 94 95 52 87 94 94 95 52 52 52 52 52 52 52 52 52 52 52 52 52	P-ysl 0.05 0.25 0.02 0.06 0.11 0.42 0.25 0.11 0.42 0.11 0.11 0.16 0.16	6.56 3.54" 653.13 657.67 Meen 156.73 157.62 167.63 176.65 176.65 176.65 176.63 176.63 176.53 176.53 176.53 176.53 176.54 176.54	15 1999 N (ppm) N (ppm) 5 91 95 100 101 101 101 100 101 101 10	P-val 0.50 0.27 0.67 0.91 0.06 0.75 0.91 0.06 0.75 0.97 0.94 0.66 0.25 0.94	52** 0.11 0.15 Beiters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41** 2.20 2.90 Mean 43,65 59,33 41,64 59,33 41,64 59,33 41,64 59,33 41,64 52,58 55,65 55,67	13 1999 100 123 00 123 05 96 110 115 97 112 99 74 111	5) P-val 0.24 0.01 0.05 0.28 0.08 0.07 0.31 0.15 0.05 0	6 66** 0.74 0.97 Mean 2.65 3.55 3.55 3.425 4.65 3.25 3.350 3.350 3.18 4.05 3.350 3.350 3.18 4.05 3.350 3.350 3.350 3.251	7 1999 are (%) % 65 105 105 105 105 97 106 96 96 145 102 96 96 56 145	14.00 15.00 0.24 0.24 0.50 0.15 0.65 0.66 0.68 0.66 0.68 0.66 0.091 0.43 0.74	0.14	
bert: 01 Yar (%) Yalu kean LSD (0.05) kean LSD (0.05) kean LSD (0.01) http: ieta 3545 ieta 3545 ieta 3505 ieta 4705 (kt705) ieta 4705 ieta 4705 ieta 4055 ieta 4055	500rcel 98 99 112 117 104 85 106 118 97 79	4.89 6.87************************************	8 (ppm) % 93 102 95 92 87 94 07 06 105 106 106 106	P-yal 0.05 0.59 0.25 0.00 0.11 0.42 0.42 0.42 0.42 0.16 0.77 0.11 0.16 0.77	6.56 3.54" 650.13 857.57 Mean 150.75 157.62 157.63 157.63 174.65 174.65 176.83 176.83 176.83 176.83 176.83 176.83 175.72 230.49	15 1999 N (ppm) 5 81 96 100 101 85 68 103 100 101 101 101 107 110	P-val 0.50 0.27 0.67 0.91 0.91 0.91 0.91 0.91 0.91 0.91 0.91	52** 0.11 0.15 <b>Dollers</b> Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41** 2.20 2.90 Meán 40.65 30 41.18 46.42 55.55 55.65 47.02 43.83 55.43 55.43 55.65 55.65	13 1999 1999 1999 1999 100 1233 055 055 055 055 055 055 055 0	%) P-val 0.28 0.01 0.06 0.28 0.03 0.77 0.31 0.18 0.95 0.05	6 66** 0.74 0.97 <b>Mean</b> 2 65 3 555 3.42 4.05 3 255 3 .55 3 .	7 1999 are (%) % 65) 105 102 121 977 106 965 145 102	14.00 15.00 0.261 0.663 0.663 0.651 0.664 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.665 0.655 0.5550 0.555 0.5550 0.5550 0.55500000000	0.14	
beeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.01) infry leta 3945 leta 3945 leta 4705 (M705) iata 5014 ata 504 leta 6853 leta 6853 leta 6853 leta 6854 leta M703 leta M703 leta M705 leta M950 leta M950 rystar 305 rystar 305 rystar 305 rystar 305 rystar 305	Sourcel 05 09 112 117 104 05 07 07 085 108 118 09 79 001 188 118 84 116 5105	4.85 .87** 15.90 20.97 Meen 1343.33 1472.67 1387.17 1325.00 1340.477 1326.50 1404.677 1516.83 1404.677 1516.83 1404.677 1527.60 1404.637 1527.60 1491.63 1436.63 1527.60 1492.63 1556.83 1383.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1385.65 1495.65 1	8 (ppm) % 53 102 96 92 87 87 94 67 94 67 94 06 105 105 105 105 106 98 98 95	P-yal 0.05 0.59 0.25 0.00 0.11 0.25 0.11 0.25 0.11 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.25 0.05 0.25 0.05 0.25 0.05 0.25 0.05 0.25 0.25 0.05 0.25 0.05 0.25 0.05 0.25 0.05 0.25 0.05	6.59 3.84** 650.13 857.57 Meen 156.73 157.62 167.63 176.73 176.77 176.77 176.73 175.72 176.73 177.53 175.52 176.43 176.43 176.43 176.43 176.43 176.43 176.43 176.43 176.43 176.43 176.43 176.43 176.44	15 1999 N (ppm) % 51 91 96 100 101 101 105 105 120	P-val 0.30 0.67 0.67 0.97 0.97 0.97 0.97 0.94 0.00 0.94 0.00 0.94 0.00 0.25 0.25 0.25 0.25 0.02	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 43.65 59.33 41.18 46.42 55.65 47.02 43.53 55.65 5	13 1999 1999 1999 1999 1999 1999 100 110 11	5%) P-val 0.28 0.05 0.66 0.26 0.77 0.77 0.77 0.77 0.75 0.15 0.95	6 66** 0.74 0.97 <b>Mean</b> 2 651 3 555 3 .42 4 .05 3 .25 3 .55 3 .55	7 1999 are (%) % 465 105 105 105 105 105 105 105 10	14.00 15.00 0.26 0.66 0.65 0.65 0.65 0.65 0.65 0.65 0.6	0.14	
bert: 01 Yar (%) Yalu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 4955 leta 4955 leta 4955 leta 4954 leta 4953 leta 4954 leta 4953 leta 4954 leta 4953 leta 4954 leta 4953 leta 4954 leta 4955 leta 4950 /ystal 305 /ystal 305 //ystal 305 //ystal 305 //ystal 305 //ystal 305 //ystal 305 //ystal 305 //ystal 305 //	\$purce 98 99 112 104 05 106 106 106 106 106 106 106 106	4.89 5.87 15.90 20.97 Mean 1343 33 1472.67 1387.17 1325.00 1325.00 1325.00 1354.67 1344.67 1344.67 1344.67 1344.67 1346.67 157.00 1491.63 1491.63 1491.63 1325.00 1356.83 1363.67 1368.67 1368.57	8 1999 5 50 102 96 927 94 97 94 97 94 07 94 105 105 106 106 106 108 108 108 108 108 108 108 108	P-val 0.05 0.25 0.02 0.02 0.05 0.02 0.05	6.59 3.54** 650.13 857.57 Mean 158.73 157.62 167.83 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.83 174.63 176.83 174.63 176.83 174.63 176.85	15 1999 N (ppm) 5 91 100 101 101 101 100 101 100	P-wat 0.50 0.27 0.67 0.91 0.08 0.79 0.91 0.90 0.77 0.97 0.97 0.97 0.97 0.97 0.97	52** 0.11 0.15 <b>Beiters</b> Mean 0.000 0.00 0.	14		2.41*** 2.20 2.90 Mean 43,65 45,65 45,65 45,65 45,65 47,02 43,95 47,02 43,95 55,65 47,02 43,95 35,65 55,65 55,65 55,65 55,65 55,65 55,67 55,77 55,67 5	13 1999 1990 199 100 120 100 110 115 97 97 91 112 99 74 111 118 87 66	%) P-val 0.28 0.01 0.10 0.28 0	6 66** 0.74 0.97 Mean 2.65 3.65 3.42 2.65 3.42 3.42 3.55 3.42 3.55 3.42 3.55 3.55 3.55 3.42 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.5	7 1999 are (%) 100 100 100 100 100 100 101 101 101 10	14.00 15.00 0.201 0.661 0.50 0.615 0.651 0.651 0.431 0.742 0.742 0.742 0.742 0.742	0.14	
oeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.01) ntry eta 3945 eta 4705 (M705) ata 5014 ata 5014 ata 5014 ata 5014 ata 5016 eta 6853 eta 6853 eta 6853 eta 6853 eta 6853 eta 6853 eta 6853 eta 6853 eta 6854 eta M703 eta M703 eta M703 eta M705 eta M705 eta M906 eta M906 eta M906 eta 9930 yata 306 yata 306 yata 305 yata 625 yata 625 yata 625	500rcd 98 09 112 117 104 85 97 85 108 118 118 118 97 95 101 84 116 105 105 50	4 45 57***********************************	6 1999 53 102 95 95 95 95 105 66 105 105 106 105 106 105 106 106 106 106 106 108 108 109 109 100 100 100 100 100 100	P-ysl 0.00 0.59 0.25 0.00 0.11 0.41 0.25 0.25 0.00 0.11 0.15 0.15 0.15 0.15 0.15 0.1	8,69 3,84** 650,13 857,67 Meen 156,73 157,62 157,62 157,62 157,62 157,62 157,62 157,62 157,62 157,62 157,62 176,73 177,75 176,73 176,73 176,73 176,73 177,75 176,73 177,75 176,73 177,75 176,73 177,75 177,75 176,73 177,75 176,73 177,75 176,73 176,73 176,73 176,73 177,75 176,73 177,75 176,73 176,75	15 1999 N (ppm) 5 81 91 100 101 85 100 101 101 100 101 101 100 101 100 101 100 101 100 10	P-val 0.50 0.27 0.67 0.97 0.97 0.97 0.97 0.97 0.97 0.94 0.05 0.25 0.25 0.25 0.25 0.25 0.53 0.02 0.53	52** 0.11 0.15  Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 43.65 59.30 41.18 44.42 52.59 55.65 47.02 35.90 55.65 47.02 35.90 53.67 55.55 5	13 1999 1999 1201 54 900 1201 1201 1201 956 1100 1115 971 1112 959 1112 959 1112 959 1110 1115 971 1116 877 811 1116 116 116 116 116 116 116 116 116 116 116 116 116 116 16	5) P-val 0.28 0.01 0.66 0.28 0.09 0.77 0.31 0.15 0.09 0.15 0.09 0.16 0.09 0.16 0.09 0	6 66** 0.74 0.97 Mean 2 651 3.555 3.42 3.555 3.555 3.555 3.42 3.555 3.555 3.555 3.555 3.555 3.555 3.42 3.5555 3.5555 3.5555 3.5555 3.5555 3.5555 3.55555 3.55555 3.55555 3.55555555	7 1999 are (%) % 45 100 100 100 100 100 100 100 100 100 10	14.00 15.00 0.24 0.66 0.50 0.51 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.6	0.14	
bert: 01 Yar (%) Yaki lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 3945 leta 4955 leta 4	\$purce 98 99 112 104 05 106 106 106 106 106 106 106 106	4.89 5.87 15.90 20.97 1343 33 1472 67 1387 17 1387 17 1387 17 1385 67 1556.83 1430.67 1556.83 1432.87 1556.83 1432.87 1556.83 1432.87 1538.65 1437.87 1383.67 1383.67 1383.67 1383.67 1383.67 1383.67 1383.65 1437.87 1383.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1487.65 1597.65 1487.65 1497	6 (spens) 53 102 96 92 87 94 67 94 67 94 105 66 105 56 105 105 108 108 96 96 910 90 96 910 90 95 92 90 90 90 90 90 90 90 90 90 90 90 90 90	P-yal 0.05 0.59 0.25 0.00 0.42 0.16 0.16 0.16 0.16 0.16 0.16 0.00 0.01 0.16 0.16 0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.05	6.59 3.64** 650.13 857.67 Meen 156.731 157.62 167.63 176.465 175.72 230.49 176.53 174.63 176.53 176.63 176.63 176.63 176.63 176.63 176.63 175.12 230.49 175.12 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.63 199.154 176.54 176.554 177.555 199.154 177.555 199.154 177.555 199.154 177.555 199.154 177.555 177.555 199.154 175.555 177.555 175.5555 175.5555 175.5555 175.5555 175.5555 175.5555 175.5555 175.5555 175.5555 1755	15 1999 N (ppm) 5 91 100 101 101 101 100 101 100	P-val 0.50 0.27 0.67 0.91 0.91 0.96 0.77 0.91 0.96 0.77 0.97 0.97 0.97 0.97 0.97 0.97 0.97	52** 0.11 0.15 <b>Beiters</b> Mean 0.000 0.00 0.	14		2.41*** 2.20 2.90 Erme Mean 43,65 59,53 59,53 41,18 46,42 55,268 55,65 55,65 55,67 55,57,57 55,57,57 55,575,57	13 1999 1990 199 100 120 100 110 115 97 97 91 112 99 74 111 118 87 66	7%) P-val 0.28 0.01 0.10 0.065 0.28 0.08 0.31 0.45 0.31 0.45 0.35 0.22 0.09 0.16 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.0000 0.0000000 0.00000000	6 66** 0.74 0.97 Mean 2 651 3.55 3.42 3.55 3.42 3.55 3.42 3.55 3.42 3.55 3.42 3.55 3.42 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3.5	7 1999 are (%) % 65 105 105 105 105 102 121 97 105 106 96 102 85 10 10 10 10 10 10 10 10 10 10 10 10 10	14.00 15.00 0.241 0.66 0.60 0.50 0.55 0.65 0.66 0.66 0.65 0.43 0.74 0.74 0.74 0.74 0.51 0.01 0.01 0.01	0.14	
beeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 4705 (M705) leta 6853 leta 6853 leta 6853 leta 6853 leta 6853 leta 6853 leta 6853 leta 6853 leta 6854 leta 6853 leta 6854 leta 68706 leta 68	5047cm	4 45 57***********************************	6 1999 53 102 95 95 95 95 105 66 105 105 106 105 106 105 106 106 106 106 106 108 108 109 109 100 100 100 100 100 100	P-ysl 0.00 0.59 0.25 0.00 0.11 0.41 0.25 0.25 0.00 0.11 0.15 0.15 0.15 0.15 0.15 0.1	8,69 3,84** 650,13 857,67 Meen 158,75 157,62 157,62 157,62 157,62 157,62 157,62 157,62 157,62 157,62 157,62 176,73 177,75 176,73 177,75 176,73 176,73 176,73 176,73 177,75 176,73 177,75 176,73 177,75 176,73 177,75 177,75 176,73 177,75 176,73 177,75 176,73 176,73 176,73 176,73 177,75 176,73 177,75 176,73 177,75 176,75	15 1999 N (ppm) 5 81 91 100 101 101 101 101 100 101 100 101 100 101 102 100 101 102 100 100	P-val 0.50 0.27 0.67 0.97 0.97 0.97 0.97 0.97 0.97 0.94 0.05 0.25 0.25 0.25 0.25 0.25 0.53 0.02 0.53	52** 0.11 0.15 0.00 0.00 0.00 0.00 0.00 0.00	14		2.41*** 2.20 2.90 Mean 43.465 59.33 41.18 45.9.33 41.18 45.9.33 41.18 45.9.35 45.55 55.55 47.02 43.25 55.55 55.55 55.57 55.55 55.55 55.57 55.55	13 1999 1999 120 120 120 120 120 120 110 115 99 91 112 99 74 111 115 87 81 100 112 99 74 113 113 113 113 112 113 113 113	5) P-val 0.28 0.01 0.66 0.28 0.09 0.77 0.31 0.15 0.09 0.15 0.09 0.16 0.09 0.16 0.09 0	6 66** 0.74 0.97 Mean 2 651 3.555 3.42 3.555 3.555 3.555 3.42 3.555 3.555 3.555 3.555 3.555 3.555 3.42 3.5555 3.5555 3.5555 3.5555 3.5555 3.5555 3.55555 3.55555 3.55555 3.55555555	7 1999 are (%) % 45 100 100 100 100 100 100 100 100 100 10	14.00 15.00 0.24 0.66 0.50 0.51 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.6	0.14	
bert: 01 Yar (%) Yalu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) Intry leta 3545 leta 3545 leta 3545 leta 3555 leta 4705 leta 6555 leta 4705 leta 4	Source 95 97 112 117 104 95 97 97 97 106 108 108 108 108 108 108 108 108	4.89 57************************************	8 1999 503 102 503 102 95 95 95 95 95 95 95 95 95 95	P-yal 0.05 0.25 0.02 0.00 0.11 0.23 0.11 0.23 0.11 0.36 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.23 0.00 0.23 0.00 0.25 0.02	8.59 3.54** 650.13 857.57 158.73 157.62 167.83 176.73 177.73 176.73 177.73 176.73 177.73 176.73 177.73 176.73 177.73 176.73 177.73 176.73 177.73 176.73 177.73 176.73 177.53 177.	15 1999 N (ppm) 5 91 95 95 100 101 101 103 100 101 103 100 101 102 105 100 107 110 102 102 102 100 107 100 107 100 107 100 107 100 100	P-val 0.50 0.277 0.677 0.977 0.991 0.992 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.991 0.992 0.991 0.992 0.991 0.992 0	52** 0.11 0.15 Bolters Mean 0.00 0.0	14		2.41*** 2.20 2.90 Mean 43.65 59.32 41.14 59.33 44.14 45.45 55.65 55.55 54.17 44.82 45.28 55.65 55.47 55.417 54.17 54.17 54.17 54.17 55.47 55.47 55.47 55.47 55.47 55.47 55.57	13 1999 rgence % % % % 900 5233 905 905 905 905 905 905 907 905 905 905 905 905 905 905 905 905 905	54) P-yal 0.24 0.01 0.66 0.28 0.28 0.28 0.28 0.28 0.25 0.22 0.09 0.18 0.00 0.32 0.09 0.18 0.00	6 66** 0.74 0.97 <b>Mean</b> 2 651 3 555 3 4 55 3 4 55 3 4 4 55 3 4 4 55 3 4 4 55 3 3 55 3 3 55 3 3 4 4 55 3 4 4 55 3 3 55 3 55 55 55 55 55 55 55 55 55 55 55 55 55	7 1929 are (%) % 65] 105 105 105 105 105 105 105 105 105 105	P-val 0.24 0.66 0.50 0.50 0.50 0.61 0.68 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.67 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.55 0.51 0.51 0.51 0.55	0.14	
beff, Of Var (%) Valu lean LSD (0.05) kean LSD (0.05) leta 30645 leta 30645 leta 30614 leta 3064 leta 4056 (M705) leta 5066 leta 6053 leta 6054 leta 6055 leta 6054 leta 6054 leta 6054 leta 6055 leta 6055 leta 6055 leta 6054 leta 6055 leta 6055	Source 98 99 112 117 104 85 105 105 105 105 105 105 105 105 105 10	4.89 5.87************************************	6 1999 5 5 5 5 5 5 5 5 5 5 5 5 5	P-yal 3,05; 0,25 0,02 0,00	8.69 3.84** 650.13 857.67 Mean 158.757 157.63 157.63 167.63 175.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.75 180.54 176.14 176.14 176.14 176.25 180.56 176.56 176.56 176.51 176.15 176.15 176.15 176.15 176.15 176.15 175.56 176.56 176.56 176.56 176.51 176.15 177.15 176.15 176.15 177.15 175.15 177.15 175.15 177.1	15 1999 N (ppm) % 91 95 100 101 85 100 101 101 101 102 101 102 101 102 101 102 100 101 102 100 101 102 100 101 100 101 100 101 100 100 101 100	P-val 0.50 0.27 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.9	52** 0.11 0.15 Belters Mean 0.00 0.06 0.06 0.06 0.06 0.06 0.06 0.0	14		2.41*** 2.20 2.90 Eme 43.65 59.33 41.18 46.42 55.65 55.65 47.02 43.83 55.65 55.65 47.02 43.83 55.65 55.65 42.70 55.65 43.87 55.65 43.87 55.65 43.87 55.65 43.87 55.65 43.87 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 43.65 55.65 55.65 43.65 55.77 55.65 55.65 55.65 55.55 55	13 1999 rgones % 00 1233 965 965 965 965 965 975 971 112 999 971 112 999 971 112 999 977 113 112 999 977 113 112 999 977 113 112 113 112 113 112 113 112 113 113	5%) P-val 0.28 0.01 0.610 0.065 0.02 0.077 0.77 0.77 0.73 0.31 0.48 0.955 0.055	6 66** 0.74 0.97 <b>Mean</b> 2.65 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3	7 1999 are (%) % 65 100 100 100 100 100 100 100 100 100 10	P-val 0.240 0.660 0.500 0.500 0.650 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.660 0.001 0.741 0.742 0.711 0.011 0.00100000000	0.14	
bert: 01 Yar (%) Yalu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 4955 leta 4955 leta 4955 leta 4955 leta 4955 leta 4954 leta M705 leta M	Source 985 999 1122 114 855 979 855 1065 118 979 855 1065 1065 1065 1065 1065 1065 1065 10	4.459 5.57***********************************	6 (jppre) (jpp	P-val 0.05 0.25 0.02 0.25 0.02 0.25 0.11 0.25 0.15 0.25 0.11 0.25 0.11 0.25	8.59 3.64** 650.13 857.67 156.73 157.62 157.62 176.73 176.78 175.72 230.49 176.73 176.53 174.63 176.53 176.53 176.53 176.53 175.22 230.49 176.53 175.14 176.53 175.14 176.53 175.14 176.53 175.14 176.54 176.54 175.54 176.55 174.54 176.55 174.55 174.55 174.55 174.55 174.55 174.55 174.41 177.44 177.14 177.	15 1999 N (ppm) 5 6 1001 1000 1001	P-val 0.50 0.27 0.67 0.41 0.79 0.97 0.97 0.07 0.79 0.07 0.56 0.25 0.56 0.25 0.56 0.25 0.56 0.25 0.56 0.25 0.56 0.25 0.57 0.07 0.07 0.07 0.07 0.07 0.07 0.0	52** 0.11 0.15  Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 43,651 55,655 47,52 44,642 45,656 44,52 45,656 55,655 55,655 55,655 55,655 55,655 55,655 55,655 55,655 51,988 40,523 55,5555 55,555555	13 1999 1999 1990 1990 1997 100 115 115 115 115 115 115 115	%)           P-val           0.28           0.010           0.66           0.08           0.016           0.02           0.016           0.02           0.02           0.03           0.03           0.03           0.03           0.03           0.03           0.03           0.03	6 66** 0.74 0.97 7 Mean 2 65 3 555 3 5555 3 555 3 5555 3 5555 3 5555 5555 5555 5555 55555 55555 555555	7 1999 4rg (%) % 465 102 102 102 102 102 104 105 60 60 60 60 60 60 60 75 103 75 75 75 103 65 75 75 56 60 60 65 75 75 75 65 75 75 65 75 75 75 65 75 75 75 75 75 75 75 75 75 75 75 75 75	14.00 13.00 <b>P-val</b> 0.24 0.663 0.651 0.651 0.651 0.651 0.643 0.643 0.643 0.643 0.643 0.643 0.644 0.644 0.644 0.651 0.661 0.651 0.661 0.651 0.651 0.651 0.651 0.651 0.651 0.651 0.6555 0.655 0.655 0.655 0.655 0.655 0.65	0.14	
beeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3765 (N705) ista 3014 ista 3016 ista 3016	Source 98 99 112 112 104 85 97 106 106 106 106 106 106 106 106 106 106	4.459 5.67************************************	6 1999 50 102 96 95 96 96 96 96 96 105 105 105 105 105 105 105 105	P-ysl 0.05 0.59 0.255 0.022 0.002 0.022 0.255 0.11 0.11 0.15 0.16 0.255 0.16 0.355 0.025 0.022 0.	8.59 3.84** 650.13 857.57 Mean 156.73 157.63 157.63 167.63 175.75 176.73 176.73 176.73 175.72 176.73 177.57 176.73 175.72 176.73 177.53 177.53 177.53 177.53 181.54 176.55 185.56 175.56 176.56 176.56 176.56 176.56 176.56 177.67 176.61 176.62 177.67 176.61 176.62 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.67 176.61 177.67 177.66 177.67 177.67 177.67 177.67 177.67 177.67 177.67 177.57 177.57 175.56 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.57	15 1999 N (ppm) 5 61 1001 1001 1001 101 100 1001 1	P-wall 0.50 0.27 0.97 0.97 0.91 0.91 0.91 0.91 0.94 0.02 0.03 0.04 0.05 0.04 0.75 0.02 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.05	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 4.0.455 59.53 41.18 459.33 41.18 45.95 55.55 47.02 45.25 55.55 47.02 45.25 55.55 55.55 55.55 55.55 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.55 55.5	13 1999 1999 1999 1999 1999 1997 1997 1007 1015 1015 1015 1017 10	%)           P-val           0.28           0.011           0.611           0.66           0.68           0.77           0.31           0.160           0.650           0.77           0.31           0.160           0.22           0.22           0.22           0.23           0.160           0.001           0.021           0.022           0.011           0.022           0.023           0.711           0.001           0.402           0.591           0.592           0.593           0.711           0.001           0.402           0.594           0.595	6 66** 0.74 0.97 Mean 2 651 3 555 3 405 2 405 3	7 1999 400 100 100 101 102 102 102 102 1	14.00 18.00 0.300 0.566 0.566 0.557 0.551 0.651 0.551 0.651 0.551 0.651 0.5550 0.5550 0.5510000000000	0.14	
bert. Of Var (%).) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 4955 leta 49555 leta 49555 leta 49555 leta 49555 leta 49555 leta 49555 le	Source 985 999 1122 114 855 979 855 1065 118 979 855 1065 1065 1065 1065 1065 1065 1065 10	4.459 5.57***********************************	6 1999 5(ppm) 5 102 96 102 96 102 96 105 105 105 105 105 105 105 105 105 105	P-yal 0.05 0.25 0.02 0.00 0.11 0.41 0.21 0.11 0.11 0.15 0.05	8.59 3.64** 650.13 857.67 156.73 157.62 157.62 176.763 174.65 175.72 230.49 176.73 176.53 174.63 176.63 176.63 176.63 176.63 176.63 176.63 176.63 176.63 175.12 176.14 176.14 176.54 175.54 175.54 175.54 175.54 175.55 174.65 174.65 174.65 174.65 175.62 175.55 174.65 174.65 175.55 174.65 174.65 175.55 174.65 175.55 174.65 174.65 175.55 174.65 174.65 175.55 174.65 174.65 174.65 175.55 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 174.65 175.55 174.65 175.55 174.65 174.65 175.55 174.65 175.55 174.65 175.55 175	15 1999 N (gem) 55 66 91 1001	P-val 0.30 0.27 0.67 0.67 0.91 0.091 0.76 0.76 0.77 0.07 0.54 0.55 0.54 0.55 0.54 0.55 0.54 0.52 0.54 0.52 0.52 0.52 0.52 0.52 0.55 0.55 0.55	52** 0.11 0.15  Beiters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 43,65) 59,933 44,64 55,65) 47,02 44,18 46,42 55,65) 47,02 44,18 46,42 55,65) 47,02 43,53 55,65) 55,65 47,02 43,53 55,65) 55,65 47,02 43,55) 55,65 47,02 43,55 55,65 47,02 43,55 55,65 47,02 43,55 55,65 47,02 43,55 55,65 47,02 43,55 55,65 55,555 55,555 55,555 55,555 55,5555 55,55555 55,555555	13 1999 1999 10 10 10 10 10 10 10 10 10 10	%) P-val 0.28 0.08 0.08 0.09 0.09 0.07 0.31 0.16 0.09 0.07 0.31 0.16 0.09 0.07 0.31 0.16 0.09 0	6 65** 0.74 0.97 <b>Mean</b> 2 65 3 555 3 5555 3 555 3 5555 3 555 3 5555 3 5555 3 5555 3 5555 3 5555 3 5555 3 555	7 1999 401 105 105 105 105 105 105 105 1	14.00 15.00 0.2m 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	0.14	
beeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 4705 (M705) iata 5014 iata 5014 iata 5014 iata 5014 leta 6853 leta 6853 leta 6853 leta 6853 leta 6853 leta 6854 leta M705 leta M705	Source 98 99 112 104 85 07 85 105 105 105 105 105 105 105 100 100 10	4.459 5.67************************************	6 1999 50 102 96 95 96 96 96 96 96 105 105 105 105 105 105 105 105	P-ysl 0.05 0.59 0.255 0.022 0.002 0.022 0.255 0.11 0.11 0.15 0.16 0.255 0.16 0.355 0.025 0.022 0.	8.59 3.84** 650.13 857.57 Mean 156.73 157.63 157.63 167.63 175.75 176.73 176.73 176.73 175.72 176.73 177.57 176.73 175.72 176.73 177.53 177.53 177.53 177.53 181.54 176.55 185.56 175.56 176.56 176.56 176.56 176.56 176.56 177.67 176.61 176.62 177.67 176.61 176.62 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.66 177.67 176.61 177.67 177.66 177.67 177.67 177.67 177.67 177.67 177.67 177.67 177.57 177.57 175.56 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.67 177.56 177.67 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.56 177.67 177.67 177.57	15 1999 N (ppm) 5 61 1001 1001 1001 101 100 1001 1	P-wall 0.50 0.27 0.97 0.97 0.91 0.91 0.91 0.91 0.94 0.02 0.03 0.04 0.05 0.04 0.75 0.02 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.05	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 4.0.455 59.53 41.18 459.33 41.18 45.95 55.55 47.02 45.25 55.55 47.02 45.25 55.55 55.55 55.55 55.55 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.57 55.55 55.5	13 1999 1999 1999 1999 1997 100 1015 102 1015 1015 1015 1015 1017	%)           P-val           0.28           0.011           0.611           0.66           0.68           0.77           0.31           0.160           0.650           0.77           0.31           0.160           0.22           0.22           0.22           0.23           0.160           0.001           0.021           0.022           0.011           0.022           0.023           0.711           0.001           0.402           0.591           0.592           0.593           0.711           0.001           0.402           0.594           0.595	6 66** 0.74 0.97 Mean 2 651 3 555 3 405 2 405 3	7 1999 400 100 100 101 102 102 102 102 1	14.00 18.00 0.300 0.566 0.566 0.557 0.551 0.651 0.551 0.651 0.551 0.651 0.5550 0.5550 0.5510000000000	0.14	
beeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 3954 leta 4705 (M705) leta 5014 leta 5014	\$000rcst 985 999 1122 1177 104 055 106 118 079 106 106 105 105 105 105 105 105 105 105	4.459 5.67************************************	6 1999 5 5 5 5 5 5 5 5 5 5 5 5 5	P-ysl 0.05 0.59 0.25 0.025 0.025 0.025 0.11 0.11 0.125 0.15 0.15 0.15 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.05 0	8.69 3.84** 650.13 857.67 Mean 156.75 157.62 157.62 167.63 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.55 176.45	15 1999 1997 5 5 6 1 9 9 1 100 101 101 100 100 1	P-val 0.30 0.27 0.67 0.97 0.94 0.97 0.94 0.97 0.94 0.97 0.94 0.97 0.94 0.97 0.96 0.97	52** 0.11 0.15  Beiters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 43.65 59.32 41.14 59.33 44.14 59.33 44.14 59.35 59.35 59.35 44.17 44.62 45.15 55.15 55.47 70 54.17 43.89 55.15 54.17 43.89 55.15 54.17 54.17 54.17 55.15 55.1	13 1999 1999 100 100 100 115 110 110 110 110	(%) P-val 0.28 0.011 0.102 0.66 0.28 0.05 0.77 0.31 0.103 0.102 0.76 0.76 0.76 0.222 0.68 0.001 0.622 0.001 0.66 0.001 0.66 0.001 0.66 0.001 0.66 0.001 0.000 0.001 0.000 0.001 0.000 0.000 0.001 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000000	6 66** 0.74 0.97 Mean 2 651 3 555 3 4.65 3 255 3 355 3 4.65 3 255 3 355 3 355 3 355 355	7 1996 461 100 100 100 100 100 100 100 100 100 1	14.00 15.00 0.20 0.20 0.50 0.51 0.51 0.51 0.51 0.51 0.51 0.5	0.14	
bert. Of Var (%).) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 39845 leta 4705 (M705) leta 4705 (M705) leta 4705 (M705) leta 4705 (M705) leta 4705 leta 4703 leta 4705 rystal 505 rystal 5	Source 98 99 112 117 107 86 106 106 118 99 100 118 99 100 118 99 100 109 109 100 109 100 100 100 100	4.459 5.57***********************************	6 1999 5 1 102 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	P-yal 0.05 0.25 0.02 0.25 0.00 0.11 0.42 0.25 0.15 0.16 0.35 0.16 0.35 0.16 0.35 0.35 0.16 0.35 0.35 0.35 0.00 0.35 0.00 0.35 0.00	8.69 3.84** 650.13 857.67 158.757 157.62 157.62 157.62 175.72 175.77 148.37 176.75 175.72 175.77 148.37 176.75 175.72 175.72 175.73 175.75 175.75 175.75 175.75 175.75 175.56 175.56 175.56 175.56 175.56 175.56 175.56 175.56 176.41 175.56 176.41 175.56 176.41 175.56 176.41 176.56 176.56 176.41 176.56 176.41 176.56 176.41 176.56 176.41 176.56 176.41 176.56 176.41 176.56 176.41 176.56 176.41 176.41 176.56 176.41 176.41 176.56 177.77 176.41 176.56 177.77 176.41 176.56 177.77 176.41 176.56 177.77 176.41 176.56 177.77 176.41 176.56 177.77 176.41 176.56 177.41 176.41 176.56 177.44 176.56 177.44 176.45 177.44 176.56 177.44 176.45 177.44 176.56 177.44 176.45 176.45 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 176.56 177.44 177	15 1999 N (ppm) N (ppm) 55 61 91 90 1001	P-val 0.300 0.277 0.677 0.647 0.790 0.790 0.790 0.790 0.790 0.790 0.790 0.790 0.790 0.790 0.790 0.790 0.255 0.022 0.040 0.022 0.040 0.022 0.040 0.022 0.041 0.022 0.041 0.022 0.041 0.022 0.0410	52** 0.11 0.15 Delters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme Meán 43,65 59,33 44,64 55,65 55,65 47,32 35,565 44,72 35,565 55,65 47,32 35,565 55,65 47,32 35,565 55,65 37,565 55,553 44,225 55,653 37,665 55,553 44,225 55,553 44,555 55,5555 55,5555 55,5555 55,5555 55,5555 55,5555 55,5555 55,5555 55,55555 55,55555 55,555555	13 1999 1999 1990 1990 1990 1990 1995 1970 1995 1970 1995 1970 1995 19	%)           P-val           0.38           0.611           0.612           0.631           0.65           0.77           0.77           0.77           0.77           0.77           0.78           0.48           0.54           0.54	6 65** 0.74 0.97 <b>Mean</b> 2.65 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3	7 1996 are (%) % 461 100 100 100 100 100 100 100 80 80 80 80 80 80 80 80 80 80 80 80 8	14.00 15.00 0.2m 0.2m 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	0.14	
beeff, Of Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 3945 leta 4705 (M705) leta 5096 leta 4905 leta 4905	\$000rcs 985 999 112 104 005 106 106 106 106 106 106 106 106	4.459 5.67************************************	6 (999) 503 503 503 503 503 503 503 503	P-441 5.05 0.59 0.25	8.69 3.84** 650.13 857.67 Mean 156.75 157.62 157.62 157.62 157.62 157.62 157.63 176.43 176.75 176.75 176.75 177.63 176.75 176.75 176.75 177.75 176.75 177.75 176.75 177.75 177.75 176.75 177.75 178.33 177.75 178.33 177.75 178.33 177.14 178.33 177.52 230.49 178.34 178.35 178.34 178.35 178.35 178.34 178.35	15 1999 N (ppm) 5 5 5 5 5 5 5 5 5 5 5 5 5	P-sel 0.50 0.27 0.67 0.95 0.02	52** 0.11 0.15  Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Mean 43,65,55,55,55,55,55,55,55,55,55,55,55,55,	13 1999 000 1203 100 100 100 100 100 100 100 100 100 1	%)           P-val           0.28           0.01           0.05           0.28           0.077           0.31           0.48           0.35           0.37           0.31           0.48           0.35           0.28           0.31           0.48           0.35           0.222           0.98           0.46           0.46           0.46           0.46           0.46           0.36           0.36           0.36           0.36           0.36           0.36           0.36           0.36           0.36	6 65** 0.74 0.97 <b>Mean</b> 2 651 3 555 3 556 3 5566 3 556 3 556 3 556 3 556 3 5566 3 556 3 556 3 5566 3 5566 3 5566 3	7 1996 1996 1996 1997 100 100 100 100 100 100 100 10	14.00 15.00 0.277 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61	0.14	
bert. Of Var (%). Valu lean LSD (0.05) kean LSD (0.05) lean LSD (0.01) intry leta 39645 leta 39545 leta 3954 leta 3955 rystal 305 rystal 3	Source 98 99 112 117 104 65 97 86 105 105 105 105 105 105 105 105 105 105	4.459 5.57***********************************	6 (ppm) 1998 (ppm) 5 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 103 (ppm) 104 (ppm) 105	P-yal 0.05 0.25 0.02 0.11 0.11 0.11 0.15 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.00 0.00 0.15 0.55	8.69 3.84** 650.13 857.67 Mean 158.757 157.62 167.63 176.763 176.763 176.757 176.83 177.465 177.64 176.75 176.75 176.75 176.75 176.75 176.75 185.56 175.56 176.57 176.57 176.57 176.57 176.56 176.57 1	15 1999 N (ppm) N (ppm) 55 51 51 100	P-val 0.300 0.277 0.677 0.647 0.647 0.770 0.94 0.770 0.94 0.770 0.94 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.027 0.9770 0.9770 0.9770 0.9770 0.9770 0.9770 0.9770 0.9770 0.9770 0.97700 0.97700 0.97700 0.9770000000000	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme Mean 43.65 59.33 43.65 59.33 41.18 46.42 55.65 47.02 43.80 55.65 47.02 35.50 55.65 42.20 35.52 55.65 42.20 35.62 55.65 42.20 55.65 43.80 43.80 55.65 43.80 43.80 55.65 44.85 55.65 44.85 55.65 44.85 55.65 44.85 55.65 55.53 44.85 55.65 55.53 55.53 55.53 55.53 55.55 55.53 55.55 55.53 55.55 55.53 55.55 55.53 55.55 55.	13 1999 1999 1990 1990 1990 1990 1990 1997 1997 1112 1997 1112 1997 1112 1111 1112 1111 1112 1111 1112 11	%)           P-val           0.38           0.611           0.620           0.08           0.77           0.31           0.16           0.86           0.77           0.31           0.18           0.95           0.16           0.09           0.16           0.09           0.16           0.09           0.16           0.09           0.16           0.30           0.32           0.11           0.09           0.30           0.32           0.31           0.32           0.32           0.32           0.34           0.300           0.34           0.34           0.34           0.70	6 66** 0.74 0.97 <b>Mean</b> 2.65 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3	7 1999 are (%) 100 100 100 100 100 100 100 100 100 10	14.00 15.00 0.2m 0.2m 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	0.14	
bert. Of Var (%).) Valu lean LSD (0.03) lean L	\$000rcs 985 999 112 104 005 106 106 106 106 106 106 106 106	4.459 5.67************************************	6 (5993) 50 50 50 50 50 50 50 50 50 50	P-yst 0.05 0.59 0.25	6.59 3.64** 650.13 857.67 156.73 157.62 157.62 167.63 174.65 176.73 174.65 176.73 174.65 176.73 176.73 176.73 176.73 176.73 176.53 176.43 176.53 176.43 176.53 175.43 175.43 176.53 175.43 176.53 175.43 176.53 176.54 175.55555555555555555555555555555555555	15 1998 N (ppm) 55 51 100 101 100 100 100 100	P-sel 0.30 0.27 0.67 0.97	52** 0.11 0.15  Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 <b>Eme</b> 43,651 55,933 41,163 45,651 55,655 47,52 45,525 55,655 55,655 55,655 55,555 55,555 55,555 44,523 39,000 55,588 40,522 55,555 55,555 44,555 55,555 44,555 55,555 44,555 55,555 44,555 55,555 44,555 55,555 55,555 55,555 55,555 56,555 56,555 56,555 56,555 56,555 56,555 57,5555 57,5555 57,5555 57,5555 57,5555 57,5555 57,5555 57,5555 57,5555 57,5555 57,55555 57,55555 57,55555555	13 1999 000 1203 100 100 100 100 100 100 100 100 100 1	%)           P-val           0.38           0.611           0.620           0.031           0.101           0.102           0.77           0.31           0.18           0.955           0.020           0.120           0.120           0.120           0.120           0.121           0.022           0.011           0.022           0.011           0.022           0.021           0.021           0.022           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.0221	6 65** 0.74 0.97 <b>Mean</b> 2 651 3 555 3 556 3 5566 3 556 3 556 3 556 3 556 3 5566 3 556 3 556 3 5566 3 5566 3 5566 3	7 1996 1996 1996 1997 100 100 100 100 100 100 100 10	14.00 15	0.14	
bert. Of Var (%).) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) Artry leta 3765 (0/75) leta 3765 (0/75) leta 3706 (0/75) leta 5014 arts 5014 arts 5014 arts 5014 arts 5014 arts 5016 arts 6053 leta 6054 leta 6053 leta 6053 leta 6054 leta 6053 leta 6053 leta 6054 leta 6055 leta 6054 leta 6055 leta 6054 leta 6055 leta 6054 leta 6055 leta 6055 leta 6054 leta 6055 leta 6055 leta 6054 leta 6055 leta 60555 leta 60555 leta 60555 leta 605555 leta 60555 leta 60555	Source 98 99 112 104 85 97 85 105 105 118 97 90 118 105 106 106 106 100 100 100 100 100 100 100	4 459 57" 15.90 20.97 15.90 1343 33 1472 67 1347 37 1325 00 1355 17 1325 00 1355 17 1325 00 1355 17 1325 00 1355 10 1357 17 1325 00 1358 10 1357 17 1326 10 1358 10 1357 17 1343 67 157 00 1491 63 1430 63 1491 63 1320 50 1349 63 1491 63 1368 50 1368 50 1455 50	6 (ppm) 1998 (ppm) 5 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 102 (ppm) 103 (ppm) 104 (ppm) 105	P-yal 0.05 0.25 0.02 0.11 0.11 0.11 0.15 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.00 0.00 0.15 0.55	8.59 3.64** 650.13 857.67 156.73 157.62 157.62 167.63 174.65 176.73 174.65 176.73 174.65 176.73 174.63 176.73 176.73 176.73 176.73 176.73 176.73 176.73 176.53 176.43 177.84 177.84 175.12 199.54 199.54 199.54 199.54 175.53 174.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.43 175.53 175.53 175.53 175.53 175.43 175.55 175.55 175.55 175.55 175.55 175.55 175.55 175.55 175.55 175.55 175.55 175.55 175.55 175.	15 1999 N (ppm) 55 91 91 95 95 100 101 101 100 100 100 100 10	P-sel 0.30 0.27 0.97	52** 0.11 0.15  Delters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme 9 Mean 43,65) 59,33 43,65) 59,33 43,46,45 59,65 47,02 44,64 55,66 55,65 47,02 43,53 55,47 26,63 27 26,63 28 50,54 27,60 51,98 26,028 50,54 24,23 26,028 50,54 24,23 26,028 50,54 24,23 26,028 50,54 24,23 26,028 26	13 1999 1999 1990 1997 1990 1997 1990 1990 1990 1990 1997 1990 1997 1990 1997 1990 1997 19	%)           P-val           0.28           0.010           0.66           0.031           0.165           0.031           0.165           0.031           0.165           0.031           0.165           0.031           0.165           0.031           0.162           0.061           0.062           0.061           0.000           0.314           0.000           0.362           0.362           0.362           0.362           0.362           0.362           0.364           0.362           0.364           0.362           0.364           0.364           0.364           0.370           0.370           0.371	6 65** 0.74 0.97 7 Mean 2 65 3 555 3 5555 3 555 3 555 3 5555 3 555 3 555 3 555 3 555 3 555	7 1996 1996 1996 1997 100 100 100 100 100 100 100 10	14.00 15.00 15.00 0.20 0.13 0.66 0.65 0.66 0.65 0.55 0.5	0.14	
beef. Of Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3756 (N705) ista 3014 ista 5014 ista 5014	Source 98 99 112 112 104 85 112 104 85 112 104 112 104 112 104 105 106 106 105 105 105 105 105 105 105 105 105 105	4,459 5,57***********************************	6 (1999 (50) (50) (50) (50) (50) (50) (50) (50)	P-441 0.05 0.59 0.25 0.025 0.025 0.025 0.11 0.11 0.125 0.11 0.11 0.15 0.16 0.25 0.11 0.11 0.15 0.16 0.25 0.06 0.05 0	8.69 3.84** 650.13 857.67 Mean 158.75 157.62 167.63 176.465 176.7	15 1999 1997 1997 1997 1997 1991 1001 1017 1001 1017 1001 10	P+rail 0.30 0.27 0.67 0.97 0.94 0.97 0.94 0.97 0.94 0.97 0.94 0.97 0.94 0.97 0.94 0.97 0.94 0.97	52** 0.11 0.15  Beiters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41** 2.20 2.90 <b>Eme</b> <b>Mean</b> 43.455 55.33 44.142 55.355 47.02 44.642 55.555 47.02 55.417 55.433 45.435 55.555 55.555 55.557 55.833 44.235 55.555 55.555 55.557 55.853 44.235 55.555	13 1999 1999 1999 1999 100 100 100	%)         P-val           0.28         0.01           0.10         0.66           0.28         0.05           0.66         0.28           0.28         0.77           0.31         0.16           0.85         0.28           0.29         0.28           0.20         0.71           0.30         0.62           0.000         0.000           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.70           0.47         0.27           0.47         0.27           0.48         0.06	6 66** 0.74 0.97 <b>Mean</b> 2 651 3 555 3 425 3 445 3 455 3 4555 3 4555 3 4555 3 4555 3 45555 3 45555555555	7 1999 are (%) % 46] 46] 100 100 100 100 100 100 100 100 100 10	14.00 15.00 P-val 0.370 0.551 0.552 0.552 0.551 0.552 0.	0.14	
beeff, Of Var (%).) Valui lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3045 leta 4705 (M705) leta 4705 (M705) leta 4705 (M705) leta 5014 leta 5014 let	Source 98 99 112 117 107 106 106 118 09 106 118 09 106 118 09 100 100 100 100 100 100 100 100 100	4.459 5.57***********************************	6 1998 5 5 5 5 5 5 5 5 5 5 5 5 5	P-yal 0.05 0.25 0.02 0.11 0.41 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.15 0.05	8.69 3.84** 650.13 857.67 158.757 157.62 157.62 157.62 175.72 175.77 148.37 176.75 175.72 175.77 148.37 176.75 175.72 175.72 175.73 175.75 175.75 175.75 175.75 175.75 175.75 175.56 175.57 175.57 175.57 175.57 175.57 175.57 175.57 175.57 175.56 175.56 175.56 175.56 175.56 175.56 175.57 176.57 177.57 176.57 176.57 176.57 176.57 176.57 176.57 177.57 176.57 177.57 176.57 177.57 176.57 177	15 1999 N (ppm) 5 91 91 95 95 1001 1002 1001 1002 1001 1002 1001 1002 1001 1002	P-val 0.300 0.277 0.677 0.677 0.647 0.760 0.760 0.760 0.760 0.259 0.022 0.041 0.259 0.022 0.041 0.259 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.041 0.025 0.022 0.025 0.022 0.025 0.022 0.025 0.022 0.025 0.022 0.025 0.022 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.025 0.021 0.021 0.025 0.021 0.	52** 0.11 0.15  Deliters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme 43,65 59,933 44,64 55,65 55,65 47,02 43,55 55,65 47,02 43,55 55,65 47,02 43,55 55,65 47,02 43,55 55,65 55,555 55,5555 55,5555 55,5555 55,5555 55,5555 55,55555 55,55555 55,555555	13 1999 (gence 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	%)           P-val           0.38           0.611           0.612           0.631           0.48           0.77           0.731           0.48           0.47           0.47           0.47           0.47           0.47           0.47           0.47           0.47           0.47           0.47           0.47           0.47	6 65** 0.74 0.97 7 Mean 2.65 3.55 3.55 3.55 3.55 3.55 3.55 3.55 3	7 1996 are (%) % 65] 66 100 102 102 102 102 102 102 102 102 103 102 103 103 103 103 103 103 103 103 103 103	14.00 15	0.14	
beef, Of Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3945 leta 3945 leta 5014 ista 5	\$000000 985 995 112 1177 1104 955 979 1066 1185 979 1065 1065 1065 1065 1065 1065 100	4.459 5.67************************************	6 (5999) (50) (50) (50) (50) (50) (50) (50) (50	P-4481 0.05 0.59 0.25 0.55	8.69 3.84** 650.13 857.67 Mean 150.73 157.62 167.63 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.57 177.57 176.57 177.57	15 1999 N (ppm) 5 5 5 6 1001 1011 1002 1001 1001 1001 1002 1001 1001 1002 1002 1001 1002 1001 1002 1002 1001 1002 1002 1001 1002 1002 1001 1002 1002 1001 1002 100 100	P++++ 0.30 0.27 0.67 0.97 0.94 0.97 0.94 0.90 0.95 0.92 0.97 0.94 0.97 0.94 0.97 0.94 0.92 0.97	52** 0.11 0.15  Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme Mean 43.65 59.32 41.14 59.32 44.14 55.55 55.55 47.70 43.83 54.17 43.83 54.17 43.83 54.17 43.83 55.45 75.58 55.55 47.82 43.83 55.45 43.83 55.55 44.22 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.23 55.58 44.53 55.58 44.53 55.58 54.55 55.58 54.55 55.58 54.55 55.58 55.	13 1999 1990 1990 1990 100 100 110 11	%)         P-val           0.28         0.01           0.10         0.66           0.28         0.05           0.66         0.28           0.05         0.77           0.31         0.16           0.85         0.77           0.31         0.16           0.122         0.68           0.222         0.68           0.100         0.62           0.11         0.000           0.22         0.69           0.101         0.000           0.56         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.36           0.36         0.70           0.477         0.27           0.277         0.27           0.277         0.27           0.277         0.27           0.79         0.77	6 65** 0.74 0.97 7 Mean 2 651 3 555 3 425 3 4455 3 4455 3 4455 3 4455 3 4455 3 4455 3 4455 3 355 3 355 3 4455 3 355 3 357 3 357 3 357 357	7 1999 40 1990 40 100 100 100 100 100 100 100 100 100	14.00 15.00 15.00 0.72 0.61 0.54 0.61 0.54 0.55 0.55 0.62 0.55 0.62 0.62 0.62 0.62 0.62 0.62 0.63 0.62 0.63 0.62 0.63 0.63 0.62 0.63 0.63 0.63 0.62 0.63 0.53 0.55 0.5	0.14	
beeff, Of Var (%) Valui lean LSD (0.05) kean LSD (0.05) lean LSD (0.01) intry lean 255 (0.05) lean 4755 (0.0755) iela 4755 (0.0755) iela 4755 (0.0755) iela 5014 uits 5066 uits 5064 lean M703 lean M704 M Tests M Tests M Tests M Viking logy 98HX829 logy 98HX841 logy 98HX829 logy 98HX841 logy 98HX8429 logg 98HX8429 logg 98HX8429 logg 98HX8429 logg 98HX844 logg 98HX844	Source 98 99 112 117 104 65 97 86 105 105 105 105 105 105 105 105 105 105	4.459 5.57***********************************	6 (ppm) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	P-yal 0.05 0.25 0.02 0.11 0.11 0.15 0.16 0.15 0.16 0.16 0.16 0.00 0.36 0.16 0.00 0.36 0.16 0.00 0.36 0.00 0.36 0.00 0.36 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000000	8.69 3.84** 650.13 857.67 156.73 157.63 157.63 175.763 175.763 175.763 176.763 176.763 176.763 176.763 176.753 176.753 176.753 176.75 176.75 176.75 176.75 176.75 176.75 176.75 186.56 176.56 1	15 1999 N (ppm) 5 5 5 5 5 5 5 5 5 5 5 5 5	P-val 0.300 0.277 0.677 0.647 0.647 0.790 0.997 0.944 0.629 0.097 0.997 0.94 0.629 0.097 0.927 0.997 0.9	52** 0.11 0.15 0.001 0.00 0.00 0.00 0.00 0.0	14		2.41*** 2.20 2.90 Eme Mean 43.65 59.33 43.65 59.33 41.18 46.42 55.65 47.02 43.50 55.65 47.02 43.50 55.65 47.02 45.55 55.65 47.02 45.55 55.65 55.58 46.55 55.58 55.	13 1999 34 900 1223 999 100 1155 997 115 997 74 115 997 74 115 997 74 115 997 74 115 997 74 115 997 74 115 997 74 115 115 115 997 74 115 997 115 115 115 115 115 115 115 115 115 11	%)           P-val           0.38           0.611           0.626           0.031           0.31           0.31           0.326           0.31           0.326           0.77           0.31           0.326           0.31           0.322           0.16           0.000           0.301           0.422           0.110           0.000           0.326           0.301           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327           0.327	6 65** 0.74 0.97 <b>Mean</b> 2.65 3.55 3.	7 1996 are (%) % 65] 66 100 102 102 102 102 102 102 102 102 103 102 103 103 103 103 103 103 103 103 103 103	14.00 15	0.14	
beef. Of Var (%) Valu lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) intry leta 3756 (M705) idta 3014 idta 3014	\$000000 985 995 112 1177 1104 955 979 1066 1185 979 1065 1065 1065 1065 1065 1065 100	4.459 5.67************************************	6 (5999) (50) (50) (50) (50) (50) (50) (50) (50	P-4481 0.05 0.59 0.25 0.55	8.69 3.84** 650.13 857.67 Mean 150.73 157.62 167.63 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.45 176.57 177.57 176.57 177.57	15 1999 N (ppm) 5 5 5 61 1001 1011 1011 1002 1001 1001 1002 1001 1001 1002 1001 1002 1002 1001 1002 1002 1001 1002 1002 1001 1002 1002 1001 1002	P-val 0.300 0.277 0.677 0.697 0.991 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.097 0.097 0.094 0.095 0.094 0.095 0.094 0.095 0.094 0.095 0.005 0.095	52** 0.11 0.15  Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme Mean 43.65 59.33 43.65 59.33 41.18 46.42 55.65 47.02 43.50 55.65 47.02 43.50 55.65 47.02 45.55 55.65 47.02 45.55 55.65 55.58 46.55 55.58 46.55 55.58 46.55 55.58 46.55 55.10 46.55 55.10 55.58 46.55 55.10 55.58 55.10 55.58 55.	13 1999 (gence ' 1997) 100 100 100 100 100 100 100 100 100 10	%)           P-val           0.38           0.611           0.620           0.031           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.11           0.18           0.195           0.20           0.11           0.12           0.16           0.091           0.11           0.001           0.22           0.11           0.001           0.22           0.11           0.001           0.22           0.11           0.001           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22           0.22 </td <td>6 65** 0.74 0.97 <b>Mean</b> 2.65 3.55 3.</td> <td>7 1999 are (%) 100 100 100 100 100 100 100 100 100 10</td> <td>14.00 15</td> <td>0.14</td> <td></td>	6 65** 0.74 0.97 <b>Mean</b> 2.65 3.55 3.	7 1999 are (%) 100 100 100 100 100 100 100 100 100 10	14.00 15	0.14	
Deck of Var (%) Coeff, Of Var (%) Valu lean LSD (0.03) lean LSD (0.03)	Source 985 999 1122 117 1104 855 979 979 1055 1055 1055 1055 1055 1055 1055 105	4.459 5.67************************************	6 1999 503 1025 1026 1026 1026 1027 1027 1027 1028	P-444 5.05 0.59 0.25 0.55	8.69 3.84** 650.13 857.67 Mean 156.75 157.62 157.62 167.63 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.75 176.75 177.75 176.75 177.75 177.75 176.75 177.75	15 1999 N (ppm) 5 5 5 5 5 5 5 5 5 5 5 5 5	P-sel 0.50 0.27 0.67 0.97	52** 0.11 0.15  Boilters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme Mean 43,65) 559,33 44,642 552,66 47,50 45,55,65 47,50 45,55,65 47,50 45,55,65 47,50 45,55,65 46,23 35,56,17 55,58 46,23 35,56,53 46,23 35,56,53 46,55 37,66) 55,58 46,55 37,66) 55,58 46,55 35,56 35,56 34,45,55 35,56 35,56 34,45,55 35,56 35,56 34,45,55 35,56 35,56 34,45,55 35,56 35,56 34,45,55 35,56 35,56 34,45,55 35,56 35,56 35,56 34,45,55 35,56 35,	13 1999 1997 1999 1997 1999 1997 1999 1997 1999 1997 1998 19	%)           P-val           0.78           0.01           0.01           0.05           0.077           0.31           0.160           0.95           0.777           0.31           0.160           0.95           0.222           0.091           0.101           0.001           0.102           0.103           0.104           0.105           0.105           0.106           0.107           0.107           0.101           0.101           0.101           0.101           0.101           0.101           0.101           0.101           0.101           0.102           0.101           0.102           0.102           0.101           0.102           0.102           0.102           0.102           0.102           0.102           0.102           0.102           0.102 <td>6 65** 0.74 0.97 7 Mean 2 65 3 555 3 556 3 5566 3 556 3 556 3 556 3 556 3 556 3 556 3 556 3 556</td> <td>7 1996 are (%) % 65] % 65] 100 102 121 106 102 121 106 102 105 106 105 106 107 129 108 10 107 129 108 10 107 108 10 107 108 100 103 103 103 103 103 103 103 103 103</td> <td>14.00 15.00 15.00 0.279, 0.431 0.431 0.433 0</td> <td>0.14</td> <td></td>	6 65** 0.74 0.97 7 Mean 2 65 3 555 3 556 3 5566 3 556 3 556 3 556 3 556 3 556 3 556 3 556 3 556	7 1996 are (%) % 65] % 65] 100 102 121 106 102 121 106 102 105 106 105 106 107 129 108 10 107 129 108 10 107 108 10 107 108 100 103 103 103 103 103 103 103 103 103	14.00 15.00 15.00 0.279, 0.431 0.431 0.433 0	0.14	
oeff, 01 Var (%) Valui lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) mtry eta 3756 (M705) dla 5014 eta 4756 (M705) dla 5014 eta 4756 (M705) dla 5014 eta 5046 eta 4050 eta 4051 eta 4001 eta 4011 eta 4010 eta	Source 985 999 1122 117 1104 855 979 979 1055 1055 1055 1055 1055 1055 1055 105	4.459 5.67************************************	6 1998 5 5 5 5 5 5 5 5 5 5 5 5 5	P-443 0.05 0.255 0.022 0.06 0.11 0.42 0.255 0.11 0.11 0.15 0.16 0.255 0.02 0.06 0.02 0.05 0.11 0.15 0.16 0.15 0.16 0.255 0.02 0.05 0.05 0.11 0.15 0.15 0.15 0.16 0.15 0.16 0.05	8.69 3.84** 650.13 857.67 158.757 157.857 157.857 157.857 157.857 157.857 157.857 157.857 157.857 157.857 157.857 157.857 157.857 157.85 155.62 155.62 155.62 155.62 156.6	15 1999 N (ppm) N (ppm) 55 5 5 5 1001 1002 1001 1002 1001 1001 1002 1001 1002 1001 1002 1001 1002 1001 1002 1001 1002 1002 1001 1002 1002 1001 1002 1002 1001 1002 10	P-val 0.300 0.277 0.677 0.697 0.991 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.097 0.097 0.094 0.095 0.094 0.095 0.094 0.095 0.094 0.095 0.005 0.095	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme 9 Mean 43,65) 59,33 43,65) 59,33 41,18 46,42 52,66) 53,67 47,02 45,52,65 55,65 47,02 45,52 55,65 47,02 55,18 46,62 50,65 51,93 56,25 50,54 56,25 50,54 56,25 50,54 56,25 50,54 56,25 50,55 56,25 5	13 1999 (gence ' 1997) 100 100 100 100 100 100 100 100 100 10	%)           P-val           0.38           0.611           0.620           0.031           0.10           0.10           0.10           0.10           0.10           0.10           0.10           0.11           0.18           0.195           0.20           0.11           0.12           0.16           0.091           0.11           0.001           0.22           0.11           0.001           0.22           0.11           0.001           0.22           0.11           0.001           0.22           0.16           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27           0.27 </td <td>6 65** 0.74 0.97 <b>Mean</b> 2 65 3 555 3 5</td> <td>7 1999 are (%) 100 100 100 100 100 100 100 100 100 10</td> <td>14.00 15</td> <td>0.14</td> <td></td>	6 65** 0.74 0.97 <b>Mean</b> 2 65 3 555 3 5	7 1999 are (%) 100 100 100 100 100 100 100 100 100 10	14.00 15	0.14	
oeff, Of Var (%) Valui lean LSD (0.05) lean LSD (0.05) eta 3945 eta 3945 eta 3945 eta 3945 eta 4705 (N705) ida 3014 ida 5014 ida 5014	\$000000 985 989 1122 104 865 105 106 106 106 106 106 106 106 106	4.459 5.67************************************	6 1998 5 5 5 5 5 5 5 5 5 5 5 5 5	P-443 0.05 0.255 0.022 0.06 0.11 0.42 0.255 0.11 0.11 0.15 0.16 0.255 0.02 0.06 0.02 0.05 0.11 0.15 0.16 0.15 0.16 0.255 0.02 0.05 0.05 0.11 0.15 0.15 0.15 0.16 0.15 0.16 0.05	8.69 3.84** 650.13 857.67 Mean 158.75 157.62 157.62 176.733 177.733 17	15 1999 N (ppm) N (ppm) 55 5 5 5 1001 1002 1001 1002 1001 1001 1002 1001 1002 1001 1002 1001 1002 1001 1002 1001 1002 1002 1001 1002 1002 1001 1002 1002 1001 1002 10	P-val 0.300 0.277 0.677 0.697 0.991 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.097 0.097 0.094 0.095 0.094 0.095 0.094 0.095 0.094 0.095 0.005 0.095	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14		2.41*** 2.20 2.90 Eme 43.65 59.30 41.16 59.30 44.14 59.30 59.30 44.14 59.30 59.30 44.14 59.30 59.30 44.12 44.64 59.55 55.55 54.17 43.83 54.17 54.17 54.17 54.17 54.17 55.55 55	13 1999 1997 1999 1997 1999 1997 1999 1997 1999 1997 1998 19	%)           P-val           0.78           0.01           0.01           0.05           0.077           0.31           0.160           0.95           0.777           0.31           0.160           0.95           0.222           0.091           0.101           0.001           0.102           0.103           0.104           0.105           0.105           0.106           0.107           0.107           0.101           0.101           0.101           0.101           0.101           0.101           0.101           0.101           0.101           0.102           0.101           0.102           0.102           0.101           0.102           0.102           0.102           0.102           0.102           0.102           0.102           0.102           0.102 <td>6 65** 0.74 0.97 Mean 2 651 3 555 3 455 3 455 3 455 3 4455 3 4455 3 4455 3 4455 3 4455 3 355 3 356 3 357 3 357</td> <td>7 1996 are (%) % 65] % 65] 100 102 121 106 102 121 106 102 105 106 105 106 107 129 108 10 107 129 108 10 107 108 10 107 108 100 103 103 103 103 103 103 103 103 103</td> <td>14.00 15.00 15.00 0.279, 0.431 0.431 0.433 0</td> <td>0.14</td> <td></td>	6 65** 0.74 0.97 Mean 2 651 3 555 3 455 3 455 3 455 3 4455 3 4455 3 4455 3 4455 3 4455 3 355 3 356 3 357 3 357	7 1996 are (%) % 65] % 65] 100 102 121 106 102 121 106 102 105 106 105 106 107 129 108 10 107 129 108 10 107 108 10 107 108 100 103 103 103 103 103 103 103 103 103	14.00 15.00 15.00 0.279, 0.431 0.431 0.433 0	0.14	
oeff, Of Var (%). Valui lean LSD (0.05) lean LSD (0.05) lean LSD (0.05) lean LSD (0.01) http: elfa 39645 elfa 4705 (M705) elfa 4705 (M705) elfa 5014 atta 5016 etta 4705 etta 6863 etta 6904 etta M703 etta M705 rystal 505 rystal 505 rystal 505 rystal 505 rystal 902 rystal	\$000000 985 989 1122 104 865 105 106 106 106 106 106 106 106 106	4.459 5.57***********************************	6 (ppm) 1998 (ppm) 5 (ppm)	P-443 0.05 0.255 0.022 0.06 0.11 0.42 0.255 0.11 0.11 0.15 0.16 0.255 0.02 0.06 0.02 0.05 0.11 0.15 0.16 0.15 0.16 0.255 0.02 0.05 0.05 0.11 0.15 0.15 0.15 0.16 0.15 0.16 0.05	8.69 3.84** 650.13 857.67 156.757 156.753 157.62 157.62 176.753 177.753 177.75	15 1999 N (ppm) 91 91 95 91 100 100 100 100 100 100 100	P-val 0.300 0.277 0.677 0.697 0.991 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.994 0.097 0.097 0.097 0.094 0.095 0.094 0.095 0.094 0.095 0.094 0.095 0.005 0.095	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14	P-sal	2.41*** 2.20 2.90 Eme Meán 43,65) 59,33 44,642 55,65 55,65 47,02 44,18 46,42 55,65 55,65 47,02 44,18 46,42 35,56 47,32 44,18 46,42 35,56 47,32 44,18 46,42 35,56 47,22 35,56 55,565 55,56 55,56 55,565 55,565 55,565 55,	13 1999 1997 1999 1997 1999 1997 1999 1997 1999 1997 1998 19	%)           P-val           0.38           0.611           0.612           0.31           0.48           0.31           0.31           0.32           0.31           0.48           0.49           0.10           0.31           0.48           0.49           0.10           0.11           0.02           0.01           0.02           0.16           0.00           0.41           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.35           0.35           0.35           0.35           0.35           0.35           0.35           0.35	6 65** 0.74 0.97 <b>Mean</b> 2 65 3 355 3 3	7 1996 are (%) % 65] 56 66] 100 102 1021 106 102 102 104 105 105 105 105 105 105 105 105 105 105	14.00 15.00 15.00 0.279, 0.431 0.431 0.433 0	0.14	
oeff, Of Var (%) Valui lean LSD (0.05) lean LSD (0.05) eta 3945 eta 3945 eta 3945 eta 3945 eta 4705 (N705) ida 3014 ida 5014 ida 5014	\$000000 985 989 1122 104 865 105 106 106 106 106 106 106 106 106	4.459 5.67************************************	6 1998 5 5 5 5 5 5 5 5 5 5 5 5 5	P-443 0.05 0.255 0.022 0.06 0.11 0.42 0.255 0.11 0.11 0.15 0.16 0.255 0.02 0.06 0.02 0.05 0.11 0.15 0.16 0.15 0.16 0.255 0.02 0.05 0.05 0.11 0.15 0.15 0.15 0.16 0.15 0.16 0.05	8.69 3.84** 650.13 857.67 Mean 158.75 157.62 157.62 176.733 177.733 17	15 1999 N (ppm) N (ppm) 55 5 5 5 1001 1002 1001 1002 1001 1001 1002 1001 1002 1001 1002 1001 1002 1001 1002 1001 1002 1002 1001 1002 1002 1001 1002 1002 1001 1002 10	P-val 0.300 0.277 0.677 0.947 0.944 0.007 0.944 0.007 0.944 0.007 0.944 0.007 0.955 0.048 0.025 0.048 0.055 0.055 0.055 0.057 0.	52** 0.11 0.15 Bolters Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	14	P-sal	2.41*** 2.20 2.90 Eme 43.65 59.30 41.16 59.30 44.14 59.30 59.30 44.14 59.30 59.30 44.14 59.30 59.30 44.12 44.64 59.55 55.55 54.17 43.83 54.17 54.17 54.17 54.17 54.17 55.55 55	13 1999 1997 1999 1997 1999 1997 1999 1997 1999 1997 1998 19	%)           P-val           0.38           0.611           0.612           0.31           0.48           0.31           0.31           0.32           0.31           0.48           0.49           0.10           0.31           0.48           0.49           0.10           0.11           0.02           0.01           0.02           0.16           0.00           0.41           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.34           0.00           0.35           0.35           0.35           0.35           0.35           0.35           0.35           0.35	6 65** 0.74 0.97 Mean 2 651 3 555 3 455 3 455 3 455 3 4455 3 4455 3 4455 3 4455 3 4455 3 355 3 356 3 357 3 357	7 1996 are (%) % 65] 56 66] 100 102 1021 106 102 102 104 105 105 105 105 105 105 105 105 105 105	14.00 15.00 15.00 0.279, 0.431 0.431 0.433 0	0.14	

## American Crystal Sugar Co. - Technical Service Center Southern Minnesota Commercial Coded Trial - Lattice Location SMSC - Four Trials Trials 99501 99502 995002 995004 42 Entries 24 Raps X Loc 2 Rows/Piot 1 Samples/Piot

|  |  |  | 1999  
  |  
   
   |   | 1999  |   
  | e un comp   | 1999           |        |   | 1999   | 1.14  
  | - I   | 1999   |   
  |                  | 1999          |       |
|--|--|--
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--|---|---|--
---|----------------|--------|---|--
--|---|--
--|------------------|---------------|-------|
| Entry  | Source   | Mean   | Nec/T (ibs  
  | P-val  
   
   | Mean  | sc/A (lbs)  | P-val   
  | Loss to<br>Mean   | %              | P-val  | Mean  | st (TIA)   | P-val   
  | Mean  | N N  | P-val   
  | Mean             | 4a (ppm)<br>N | P-val |
| ACH 205  | 101  | 272.83   | 98  
  | 0.02   
   
   |   | 94  | 0.02  
  | 1.19  | 99             | 0.47   | 21.92   | 96   | 0.66  
  | 14.83   | 98   | 0.01  
  | 453.52           | 90            | 0,17  |
| ACH 302  | 84   | 272.83<br>278.63   | 100   
  | 0.72   
   
   | 8465.22   | 101   | 0.66  
  | 1.28  | 107            | 0.00   | 23.18   | 101  | 0.56  
  | 15.22   | 100  | 0.86  
  | 515.26           | 106           | 0.27  |
| ACH 309<br>ACH 555   | 116  | 281.20 282.71  | 101   
  | 0.63   
   
   |   | 90  | 0.75  
  | 1.18  | 103            | 0.11   | 22.58   | 99   | 0.60  
  | 15.31   | 101  | 0.40  
  | 392.23           | 80            | 0.00  |
| ACH 922  | 109  | 251.00   | 100   
  | 0.67   
   
   | 5962.73   | 93  | 0.01  
  | 1.09  | 91             | 0.00   | 21.18   | 93   | 0.00  
  | 15.14   | 100  | 0.73  
  | 446.29           | 91            | 0,10  |
| ACH 9744<br>Beta 2945  | C9<br>29   | 273.92 308.06  | 98<br>110   
  | 0.06   
   
   |   | 95  | 0.07  
  | 1.16  | 96<br>94       | 0.06   | 22.16   | 97<br>95   | 0.20  
  | 16.53   | 98   | 0.00  
  | 386.61           | 79            | 0.20  |
| Beta 4705 (M705)   | . 49   | 286.07   | 102   
  | 0.04   
   
   | 6362.98   | 100   | 0.86  
  | 1.23  | 102            | 0.23   | 22.25   | 97   | 0.26  
  | 15.54   | 102  | 0.02  
  | 505.93           | 104           | 0.47  |
| Beta 5014<br>Beta 5296   | 112  | 292.86<br>292.46   | 105   
  | 0.00   
   
   | 6217.87   | 97<br>90  | 0.29  
  | 1.17  | \$7<br>\$6     | 0.12   | 21,26   | 93<br>92   | 0.00  
  | 15.81   | 104  | 0.00  
  | 519.50           | 84            | 0,21  |
| Beta 6553  | 104  | 302.31   | 108   
  | 0.00   
   
   | 6100.79   | .95   | 0.08  
  | 1.08  | 90             | 0.00   | 20.18   | 88   | 0.00  
  | 16.20   | 107  | 0.00  
  | 407.23           | 82            | 0.00  |
| Beta 6904<br>Beta M701   | - 65<br>97   | 299.39 294.10  | 107   
  | 0.00   
   
   | 6491.38<br>7036.47  | 102   | 0.55  
  | 1.12  | 90<br>97       | 0.00   | 21.68<br>23.91  | 95   | 0.03  
  | 16.09   | 106  | 0.00  
  | 460.52           | 94            | 0.28  |
| Beta M700  | 86   | 293,40   | 105   
  | 0.00   
   
   | 7219.08   | 113   | 0.00  
  | 1.17  | 97             | 0.12   | 24.57   | 107  | 0.00  
  | 15.84   | 104  | 0.00  
  | 470.80           | 97            | 0.50  |
| Beta M706<br>Beta M811   | 106  | 282.31<br>280.06   | 101   
  | 0.39   
   
   |   | 102   | 0.55  
  | 1.26  | 104            | 0.03   | 22.92   | 100  | 0.92  
  | 15.27   | 101  | 0.21  
  | 493.17           | 101           | 0.63  |
| Beta M\$46   | 991  | 278.67   | 100   
  | 0.73   
   
   | 6196.15   | 97  | 0.24  
  | 1.27  | 106            | 6.00   | 22.25   | 97   | 0.25  
  | 15.21   | 100  | 0.91  
  | 494.36           | 101           | 0.60  |
| Beta M930<br>HM 7057   | 79   | 282.41 286.31  | 101   
  | 0.38   
   
   | 6421.93   | 100   | 0.86  
  | 1.15  | 96             | 0.04   | 22.74   | 99<br>94   | 0.82  
  | 15.28   | 101  | 0.53  
  | 464,23           | 95            | 0.05  |
| H54 7073   | 100  | 276.31   | 99  
  | 0.26   
   
   | 5800.18   | 91  | 0.00  
  | 1.25  | 104            | 0.04   | 20.99   | 92   | 0.00  
  | 15.06   | 99   | 0.37  
  | 540.78           | \$11          | 0.04  |
| HM Hector<br>HM Resist   | 103  | 267,73   | 103   
  | 0.01   
   
   | 6748.85   | 98/   | 0.34  
  | 1.17  | 97             | 0.10   | 21,64<br>23,63  | 96<br>103  | 0.03  
  | 15.56   | 102  | 0.01  
  | 437.47           | 105           | 0.05  |
| HM Viking  | 81   | 275.74   | 99  
  | 0.19   
   
   | 6004.71   |   | 0.02  
  | 1.28  | 106            | 0.00   | 21.74   | 95   | 0.04  
  | 15.06   | 99   | 0.37  
  | 552.13           | 113           | 0.01  |
| Holly 98 Aph03<br>Holly 98HX806  | 83   | 270.62 276.74  | 97  
  | 0.00   
   
   | 6616.20 6390.81   | 103   | 0.18  
  | 1.32  | 110            | 0.00   | 24.40   | 107  | 0.01  
  | 14.85   | 98<br>99   | 0.02  
  | 531.09           | 109           | 0.09  |
| Holly 96HX829  | 96   | 287.80   | 103   
  | 0.01   
   
   | 7060.22   | 111   | 0.00  
  | 1.12  | 93             | 0.00   | 24.58   | 107  | 0.00  
  | 15.51   | 102  | 0.03  
  | 413.03           | 851           | 0.00  |
| Holly 99HX933  | 90   | 261.96 252.57  | 101   
  | 0.45   
   
   | 6300.67   | 99<br>97  | 0.58  
  | 1.24  | 103            | 0.12   | 22.32<br>24.60  | 98   | 0.00  
  | 15.34   | 101  | 0.31  
  | 501.78           | 103           | 0.58  |
| Holy 99HX941<br>Holy 99HX942   | 115  | 273 39   | 90  
  | 0,04   
   
   | 6218.08<br>6810.74  | 107   | 0.01  
  | 1.20  | 99             | 0.72   | 24.96   | 109  | 0.00  
  | 14.87   | 98   | 0.02  
  | 505.64           | 104           | 0.48  |
| Holy 99HX957<br>Holy 99HX958   | 98   | 261.49   | 93<br>92  
  | 0.00   
   
   | 6426.26   | 101   | 0.84  
  | 1.37  | 113            | 0.00   | 24.58<br>24.76  | 107  | 0.00  
  | 14.44   | 98   | 0.00  
  | 664.34<br>683.59 | 135           | 0.00  |
| Hoty Rival   | 91   | 290.61   | 53  
  | 0.00   
   
   | 5586.07   | 87  | 0.00  
  | 1.36  | 113            | 0.00   | 21.40   | 94   | 0.01  
  | 14.30   | 105  | 0.00  
  | 437.97           | 90            | 6.05  |
| Soddex SX Laser<br>Seedex SX1012   | 119  | 270.82<br>282.47   | 97  
  | 0.00   
   
   | 5948.30<br>6157.70  | 93<br>96  | 0.01  
  | 1.10  | 99             | 0.57   | 21.04   | 86<br>86   | 0.04  
  | 14.73   | 97<br>101  | 0.00  
  | 396,77 455.25    | 81            | 0.00  |
| Seedex SX1018  | 102  | 271,38   | 97  
  | 0.01   
   
   | 6188.32   | 97  | 0.22  
  | 1,26  | 104            | 0.02   | 22.77   | 100  | 0.861   
  | 14,83   | 58   | 0.01  
  | 470.68           | 90            | 0.46  |
| Van per Have H46109<br>Van per Have H46140   | 94<br>110  | 290.00   | 104   
  | 0.00   
   
   | 7083.17<br>6554.04  | 111   | 0.00  
  | 1.13  | 13<br>90       | 0.00   | 24.43   | 107  | 0.00  
  | 15.63   | 103  | 0.00  
  | 300.50           | 80            | 0.00  |
| Van der Have H46175  | 82   | 253.12   | 90  
  | 0.00   
   
   | 6390.83   | 100   | 0.35  
  | 1,21  | 101            | 0.78   | 25.19   | 110  | 0.00  
  | 13.87   |  | 0.00  
  | 601.66           | 123           | 0.00  |
| Van der Have H46177  | 1078   | 290.56   | 104   
  | 0.00   
   
   | 6807.36<br>6622.19  | 105   | 0.01  
  | 1.11  | 92             | 0.00   | 25.19<br>23.35<br>24.54   | 102  | 0.37  
  | 15.64   | 103  | 0.00  
  | 391.72           | 80            | 0.00  |
| Van der Have H68108<br>Van der Have H68151   | 113  | 259.41   | 90  
  | 0.00   
   
   | 6531.67   | 104   | 0.41  
  | 1.30  | 108            | 0.00   | 24.05   | 105  | 0.03  
  | 14.83   | 98   | 0.01  
  | 549.48           | 113           | 0.01  |
| Van der Have H68152  | 9/2  | 263.53   | 94  
  | 0.00   
   
   | 6582.68   | 105   | 0.08  
  | 1,28  | 106            | 0.00   | 25.32   | 111  | 2.00  
  | 14.46   | 95   | 0.00  
  | 610.46           | 123           | 0.00  |
| Check of Mean  |  | 279.72   |   
  |  
   
   | 6393.20   |   | | | |
  | 1.21  |                |        | 22.87   |  |   
  | 15.19   |  |   
  | 487.87           |               |       |
| Coeff. Of Var (%)<br>F Value   |  | 4.54   |   
  |  
   
   | 9.05  | à   | | | |
  | 8.55  | ÷              |        | 8.13<br>6.38 **   |  |   
  | 3.86  | ÷  |   
  | 18.90<br>10,10   |               |       |
| Mean LSD (0.05)  |  |  |   
  |  
   
   |   |   | | | |
  |   |                |        |   |  |   
  |   |  |   
  |                  |               |       |
|  |  | 8.58   | 3   
  |  
   
   | 469.77  |   | | | |
  | 0.05  | 5              |        | 1.53  | 7  |   
  | 0.40  | 3  |   
  | 70.65            | 14            |       |
| Mean LSO (0.01)  |  |  |   
  |  
   
   |   |   | | | |
  |   |                |        |   | 7  |   
  | 0.40  | 4  |   
  | 70.65            |               |       |
| Mean LSO (0.01)  | Source   | 8.58<br>11.34  | 3   
  |  
   
   | 469.77<br>620.89  |   | | | |
  | 0.05  | 5<br>7<br>1999 | 1      | 1.53<br>2.02  | 9<br>1999<br>gance (%  |   
  | 0.53  |  |   
  | 70.65            | 14            |       |
| Mean LSO (0.01)  | Source   | 8.58<br>11.34  | 3<br>4<br>1999  
  | P-val  
   
   | 469.77<br>620.89  | 7<br>10<br>1999   | P-val   
  | 0.05  | 5<br>7<br>1999 | P-val  | 1.53<br>2.02  | 9<br>1999<br>gance (%  | P-val   
  | 0.53  | 4<br>1999  | F-val   
  | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205  | 101  | 8.58<br>11.34<br>Mean<br>1823.05   | 3<br>4<br>1999<br>K (ppm)<br>%  
  | 0.61   
   
   | 469.77<br>620.89<br>Am<br>Mean<br>270.00  | 7<br>10<br>1999<br><u>- N (ppm</u><br>%   | P-val<br>0.74   
  | 0.05<br>0.09<br>Bolter<br>Mean  | 5<br>7<br>1999 | Pval   | 1.53<br>2.02<br>Emer<br>Mean<br>52.68   | 9<br>1999<br>gance (%<br>%   | 0.20  
  | 0.53<br>T.<br>Mean<br>5.37  | 4<br>1995<br>are (%)<br>%  | 0.00  
  | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 200<br>ACH 302   | 101  | 8.58<br>11.34<br>Mean<br>1823.05<br>1942.04  | 3<br>4<br>1999<br>K (ppm)<br>%<br>90<br>106   
  | 0.51   
   
   | 469.77<br>620.89<br>Am<br>Mean<br>270.00<br>291.64  | 7<br>10<br>1999<br>N (ppm<br>%  | P-val<br>0.74<br>0.02   
  | 0.05<br>0.09<br>Bolter<br>Mean<br>0.00<br>0.00  | 5<br>7<br>1999 | P-val  | 1.53<br>2.02<br>Emer<br>Mean<br>52.65<br>58.21  | 0<br>1999<br>gance (%<br>%<br>106<br>117   | 0.20<br>0.00  
  | 0.53<br>T.<br>Mean<br>5.37<br>4.65  | 4<br>1999<br>200 (%)<br>%<br>131<br>114  | 0.00  
  | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 200<br>ACH 300<br>ACH 555   | 101<br>84<br>116<br>105  | 8.58<br>11.34<br>Maan<br>1823.05<br>1942.04<br>1970.01<br>1730.81  | 3<br>4<br>1999<br>K (ppm)<br>%<br>%<br>99<br>106<br>107<br>94   
  | 0.51<br>0.00<br>0.00<br>0.00   
   
   | 469.77<br>620.89<br>Mean<br>270.03<br>291.64<br>269.70<br>307.70  | 7<br>10<br>1999<br>N (ppm<br>%<br>101<br>101<br>101<br>115  | P-val<br>0.74<br>0.02<br>0.77<br>0.00   
  | 0.05<br>0.09<br>Belter<br>Mean<br>0.00<br>0.00<br>0.07<br>0.00  | 5<br>7<br>1999 | P-val  | 1.53<br>2.02<br>Emer<br>Mean<br>52.65<br>58.21<br>54.06<br>51.77  | 9<br>1999<br>gance (%<br>5<br>106<br>117<br>109<br>104   | 0.20<br>0.00<br>0.06<br>0.37  
  | 0.53<br>T.<br>Mean<br>5.37<br>4.65<br>4.01<br>5.64  | 4<br>1999<br>200 (%)<br>%<br>131<br>114<br>56<br>135   | 0.00  
  | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 300<br>ACH 300<br>ACH 555<br>ACH 922  | 101<br>84<br>116<br>105<br>109   | 8.58<br>11.34<br>Mean<br>1823.05<br>1982.04<br>1990.01<br>1730.81<br>1730.81   | 3<br>4<br>1999<br>K (ppm)<br>%<br>%<br>98<br>106<br>107<br>94<br>92   
  | 8.51<br>0.00<br>0.00<br>0.00   
   
   | 469.77<br>520.89<br>Mean<br>270.03<br>291.64<br>269.70<br>307.70<br>234.18  | 7<br>10<br>1999<br>N (ppm<br>%<br>101<br>101<br>115<br>88   | P-val<br>0.74<br>0.02<br>0.77<br>0.00<br>0.00   
  | 0.05<br>0.09<br>Bolter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  | 5<br>7<br>1999 | P-val  | 1.53<br>2.02<br>Emer<br>Mean<br>52.65<br>55.21<br>54.06<br>51.77<br>50.21   | 9<br>1999<br>gence (%<br>%<br>106<br>117<br>109<br>104<br>101  | 0.20<br>0.00<br>0.06<br>0.37<br>0.84  
  | 0.53<br>T.<br>Mean<br>5.37<br>4.85<br>4.01<br>5.64<br>4.83  | 4<br>1999<br>200 (%)<br>%<br>131<br>114<br>56<br>138<br>138  | 0.00<br>0.18<br>0.85<br>0.00<br>0.00  
  | 70.65            | 14            |       |
| Mean LSO (0.01)<br>Entry<br>ACH 205<br>ACH 302<br>ACH 300<br>ACH 555<br>ACH 922<br>ACH 922<br>ACH 922<br>ACH 924<br>Berta 3145   | 101<br>84<br>116<br>105<br>109<br>93<br>93   | 8.58<br>11.34<br>Mean<br>1823.05<br>1942.04<br>1942.04<br>1942.04<br>1970.01<br>1730.81<br>1730.81<br>1894.34<br>1810.88<br>1806.85  | 3<br>4<br>1995<br>K (ppm)<br>%<br>90<br>106<br>107<br>90<br>107<br>94<br>92<br>98<br>98   
  | 0.61<br>0.00<br>0.00<br>0.00<br>0.00<br>0.39<br>0.32   
   
   | 469.77<br>620.89<br>Mean<br>270.03<br>291.64<br>289.70<br>307.70<br>234.50<br>253.51<br>254.50  | 7<br>10<br>1999<br>N (ppm<br>%<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>1  | P-val<br>0.74<br>0.02<br>0.77<br>0.00<br>0.00<br>0.00<br>0.20<br>0.24   
  | 0.05<br>0.09<br>Boltar<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00  | 5<br>7<br>1999 | Pval   | 1.53<br>2.02<br>Emet<br>Mean<br>52.65<br>58.21<br>54.06<br>51.77<br>50.21<br>63.23<br>46.79   | 9<br>1999<br>gance (%<br>5)<br>106<br>117<br>109<br>104<br>105<br>127<br>94  | P-val<br>0.20<br>0.09<br>0.06<br>0.37<br>0.84<br>0.00<br>0.20   
  | 0.53<br>T.<br>Mean<br>5.37<br>4.85<br>4.01<br>5.64<br>4.83<br>4.83<br>4.95<br>3.81  | 4<br>1999<br>are (%)<br>55<br>131<br>114<br>96<br>136<br>136<br>136<br>136<br>55   | 0.00  
  | 70.65            | 14            |       |
| Mean LSO (0.01)<br>Entry<br>ACH 205<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 555<br>ACH 555<br>ACH 555<br>ACH 522<br>ACH 522<br>ACH 5744<br>Beta 3702 (M705)  | 101<br>64<br>116<br>105<br>109<br>93<br>95<br>85   | 8.58<br>11.34<br>1823.05<br>1942.04<br>1970.01<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>17594.04<br>1759   | 3<br>4<br>1999<br>((ppm))<br>106<br>107<br>94<br>94<br>95<br>95<br>98<br>98<br>98<br>98   
  | 0.81<br>0.00<br>0.00<br>0.00<br>0.39<br>0.32<br>0.01   
   
   | 469.77<br>620.89<br>Am<br>270.03<br>291.64<br>289.70<br>307.70<br>234.18<br>253.51<br>254.50<br>256.50  | 7<br>10<br>1999<br>N (ppm<br>5<br>101<br>101<br>101<br>115<br>885<br>95<br>95   | P-val<br>0.74<br>0.02<br>0.77<br>0.90<br>0.90<br>0.90<br>0.20<br>0.24<br>0.33   
  | 0.05<br>0.09<br>Balter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.  | 5<br>7<br>1999 | P-yal  | 1.53<br>2.02<br>Emer<br>Mean<br>52.68<br>58.21<br>54.06<br>51.77<br>50.21<br>63.23<br>46.79<br>40.36  | 9<br>1999<br>gance (N<br>%<br>506<br>117<br>109<br>104<br>101<br>103<br>103<br>103<br>103<br>103<br>103<br>103   | P-ral<br>0.20<br>0.09<br>0.06<br>0.37<br>0.84<br>0.00<br>0.20<br>0.00   
  | 0.53<br>T.<br>Mean<br>5.37<br>4.65<br>4.01<br>5.64<br>4.63<br>4.63<br>4.63<br>5.64<br>3.61<br>3.61<br>3.63  | 4<br>1999<br>210 (%)<br>%<br>131<br>131<br>131<br>135<br>138<br>138<br>138<br>138<br>138<br>138<br>121<br>85<br>594  | 0.00<br>0.18<br>0.85<br>0.00<br>0.08<br>0.04<br>0.26<br>0.56  
  | 70.65            | 14            |       |
| Mean LSO (0.01)<br>Entry<br>ACH 205<br>ACH 302<br>ACH 300<br>ACH 555<br>ACH 922<br>ACH 922<br>ACH 922<br>ACH 9744<br>Berta 3145  | 101<br>84<br>116<br>105<br>109<br>93<br>46<br>59<br>112<br>117   | 6.55<br>11.34<br>Mean<br>1823.05<br>1942.64<br>1940.01<br>1730.81<br>1894.34<br>1854.34<br>1856.65<br>1933.59<br>1733.14   | 3<br>4<br>1999<br>5<br>6<br>00<br>106<br>106<br>107<br>94<br>92<br>94<br>94<br>95<br>94<br>95<br>94<br>95<br>94   
  | 0.61<br>0.00<br>0.00<br>0.00<br>0.00<br>0.39<br>0.32   
   
   | 469.77<br>620.89<br>Mean<br>270.03<br>291.64<br>289.70<br>307.70<br>234.50<br>253.51<br>254.50  | 7<br>10<br>1999<br>N (ppm<br>%<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>1  | P-val<br>0.74<br>0.02<br>0.77<br>0.60<br>0.60<br>0.20<br>0.24<br>0.35<br>0.29<br>0.36   
  | 0.06<br>0.09<br>Bolter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.  | 5<br>7<br>1999 | P-131  | 1.53<br>2.02<br>Emer<br>Mean<br>52.68<br>56.21<br>54.06<br>51.77<br>50.21<br>63.23<br>46.79<br>40.36<br>56.70<br>55.40  | 9<br>1999<br>gance (%<br>%<br>106<br>117<br>109<br>104<br>105<br>127<br>94<br>81<br>114<br>115   | P-yral<br>0.20<br>0.06<br>0.06<br>0.37<br>0.84<br>0.00<br>0.20<br>0.00<br>0.00<br>0.00  
  | 0.53<br>T.<br>Mean<br>5.377<br>4.65<br>4.05<br>5.64<br>4.65<br>4.65<br>3.64<br>3.63<br>4.05<br>3.61<br>3.63<br>4.05<br>3.65<br>3.65<br>3.65<br>3.65<br>3.65<br>3.65<br>3.65<br>3.6  | 4<br>1999<br>are (%)<br>%<br>1311<br>114<br>98<br>138<br>138<br>138<br>138<br>121<br>85<br>94<br>94<br>96<br>96<br>68  | 0.00<br>0.18<br>0.85<br>0.00<br>0.08<br>0.04<br>0.26  
  | 70.65            | 14            |       |
| Mean LSO (0.01)<br>Entry<br>ACH 205<br>ACH 300<br>ACH 555<br>ACH 922<br>ACH 555<br>ACH 922<br>ACH 9744<br>Beta 2045<br>Beta 2050<br>Beta 2050<br>Beta 2050   | 101<br>84<br>116<br>105<br>109<br>93<br>46<br>59<br>112<br>117   | 6.55<br>11.34<br>Mean<br>1623.05<br>1942.04<br>1970.01<br>1730.81<br>1610.81<br>1610.85<br>1931.39<br>1733.14<br>1733.14<br>1733.14  | 3<br>4<br>1995<br>((ppm)<br>%<br>106<br>107<br>94<br>96<br>94<br>96<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98   
  | 0.81<br>0.00<br>0.00<br>0.39<br>0.32<br>0.01<br>0.00<br>0.00<br>0.00   
   
   | 469.77<br>620.89<br>Mean<br>270.03<br>291.64<br>299.70<br>234.18<br>253.51<br>254.50<br>255.54<br>276.05<br>255.54<br>276.02<br>262.43  | 7<br>10<br>1999<br>N (ppm<br>5%<br>101<br>105<br>105<br>105<br>105<br>105<br>105<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95  | P-val<br>0.74<br>0.02<br>0.77<br>0.60<br>0.60<br>0.20<br>0.24<br>0.24<br>0.23<br>0.29<br>0.35<br>0.88   
  | 0.05<br>0.09<br>Balter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00      | 5<br>7<br>1999 | P-131  | 1.53<br>2.02<br>Mean<br>52.68<br>53.211<br>54.05<br>51.77<br>50.211<br>63.23<br>40.79<br>40.36<br>56.70<br>55.670<br>55.670   | 9<br>1995<br>gance (%<br>506<br>117<br>109<br>104<br>103<br>1227<br>944<br>81<br>115<br>79   | 0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20  
  | 0.53<br>T<br>Mean<br>5.37<br>4.65<br>4.01<br>5.64<br>4.83<br>4.83<br>4.83<br>3.61<br>3.63<br>3.65<br>3.65<br>4.36   | 4<br>1999<br>310 (%)<br>%<br>1311<br>114<br>386<br>1315<br>138<br>118<br>121<br>85<br>94<br>94<br>95<br>94<br>95<br>95<br>107  | 0.00<br>0.18<br>0.00<br>0.06<br>0.04<br>0.26<br>0.26<br>0.56<br>0.55<br>0.65<br>0.55  
  | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 200<br>ACH 200<br>ACH 300<br>ACH 300<br>ACH 555<br>ACH 922<br>ACH 922<br>ACH 922<br>ACH 974<br>Beta 200<br>Beta 200<br>Beta 200<br>Beta 200<br>Beta 200<br>Beta 663<br>Beta 604<br>Beta 604  | 101<br>84<br>116<br>108<br>109<br>93<br>46<br>59<br>112<br>117<br>104<br>85<br>97  | 6.56<br>11.34<br>Mean<br>1823.05<br>1942.64<br>19942.64<br>19942.64<br>19942.64<br>19942.64<br>19942.64<br>19942.64<br>19943.40<br>19943.40<br>19913.59<br>1733.11<br>1613.97<br>1733.11<br>1613.97<br>1753.68<br>1776.52  | 3<br>4<br>1999<br>( <u>(ppm)</u><br>5<br>106<br>107<br>106<br>107<br>94<br>94<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98<br>98   
  | 851<br>600<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   
   
   | 469.77<br>620.89<br>Mean<br>270.031<br>291.64<br>249.70<br>307.70<br>234.16<br>253.51<br>254.50<br>295.59<br>276.60<br>276.00<br>262.43<br>276.00<br>262.43<br>277.44<br>275.20   | 7<br>10<br>1999<br>N (ppm<br>5,<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10  | Presi<br>874<br>0.02<br>0.70<br>0.00<br>0.20<br>0.24<br>0.35<br>0.29<br>0.35<br>0.29<br>0.36<br>0.68<br>0.00<br>0.40  
  | 0.06<br>0.09<br>Balter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.  | 5<br>7<br>1999 | P-ys1  | 1.53<br>2.02<br>Mean<br>52.68<br>54.06<br>51.77<br>50.21<br>46.79<br>40.38<br>46.79<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55. | 9<br>1999<br>gance (%<br>106<br>117<br>109<br>104<br>101<br>127<br>94<br>81<br>114<br>115<br>76<br>68<br>85  | P-val<br>0.20<br>0.06<br>0.06<br>0.37<br>0.84<br>0.00<br>0.20<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  
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0.53<br>Mean<br>5.377<br>4.65<br>4.01<br>5.64<br>4.65<br>3.61<br>3.61<br>3.61<br>3.65<br>4.05<br>3.61<br>3.61<br>3.65<br>4.05<br>3.61<br>3.65<br>4.05<br>3.65<br>3.65<br>4.05<br>3.65<br>4.05<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37 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  | 0.00<br>0.18<br>0.85<br>0.00<br>0.05<br>0.04<br>0.26<br>0.56<br>0.56<br>0.56<br>0.56<br>0.56<br>0.56<br>0.52<br>0.52<br>0.52  
  | 70.65            | 14            |       |
| Mean LSO (0.01)<br>Entry<br>ACH 205<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 355<br>ACH 3744<br>Bet3 2745<br>Bet3 2745<br>Bet3 2745<br>Bet3 2745<br>Bet3 2745<br>Bet3 2614<br>Bet3 275<br>Bet3 663<br>Bet3 663<br>Bet3 670<br>Bet3 670  | 101<br>84<br>116<br>109<br>93<br>45<br>59<br>112<br>117<br>104<br>85<br>97<br>86   | 6.55<br>11.34<br>Mean<br>1823.05<br>1942.04<br>1942.04<br>1942.04<br>1940.01<br>1730.81<br>19970.01<br>1730.81<br>19971.39<br>1933.34<br>1733.34<br>1733.34<br>1753.31<br>1615.07<br>1755.83<br>1775.83<br>1776.83   | 3<br>4<br>1999<br>K (ppm)<br>%<br>90<br>106<br>107<br>94<br>92<br>94<br>95<br>94<br>95<br>94<br>95<br>94<br>95<br>94<br>95<br>94<br>95<br>94<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95  
  | 8.81<br>6.00<br>0.00<br>0.00<br>0.00<br>0.39<br>0.32<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  
   
   | 469.77<br>620.89<br>270.03<br>291.64<br>289.70<br>307.70<br>223.51<br>224.16<br>253.51<br>226.59<br>226.59<br>226.54<br>226.24<br>227.44<br>227.44<br>227.44<br>227.44  | 7<br>10<br>1999<br>5<br>101<br>101<br>105<br>105<br>105<br>115<br>385<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>98<br>98<br>98<br>98<br>98<br>106  | Presi<br>0.74<br>0.02<br>0.77<br>0.00<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20   
  | 0.06<br>0.09<br>Balter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.  | 5<br>7<br>1999 | P-ys1  | 1.53<br>2.02<br>Mean<br>52.68<br>55.21<br>55.25<br>55.21<br>55.25<br>55.21<br>55.25<br>55.21<br>55.25<br>55.21<br>55.25<br>55.21<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>555 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   | 70.65            | 14            |       |
| Mean LSO (0.01)<br>Entry<br>ACH 205<br>ACH 202<br>ACH 302<br>ACH 302<br>Beta 504<br>Beta 504<br>Beta 504<br>Beta 504<br>Beta 504<br>Beta 504<br>Beta 504<br>Beta 504<br>Beta 504<br>Beta 500<br>Beta 500<br>Bet | 101<br>54<br>116<br>105<br>109<br>93<br>46<br>55<br>112<br>112<br>117<br>104<br>85<br>97<br>86<br>106<br>118   | 6.58<br>11.34<br>1823.05<br>1942.04<br>1942.04<br>1940.01<br>1940.01<br>1940.01<br>1940.01<br>1940.01<br>1940.01<br>1950.04<br>1931.39<br>1933.34<br>1733.31<br>1613.97<br>1753.31<br>1613.97<br>1755.32<br>1696.94<br>1930.94<br>1767.34  | 3<br>4<br>1999<br>K (ppm)<br>7<br>90<br>100<br>100<br>94<br>92<br>95<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96   | 8.81<br>0.00<br>0.00<br>0.00<br>0.39<br>0.32<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   
   
  | 469.77<br>620.89<br><b>Am</b><br>270.00<br>291.64<br>299.70<br>307.70<br>204.16<br>253.51<br>254.50<br>276.50<br>265.54<br>276.50<br>262.43<br>267.74<br>277.520<br>261.72<br>278.22<br>278.22   
  | 7<br>10<br>1999<br>%<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>1  | P-val<br>0.74<br>0.02<br>0.77<br>0.50<br>0.20<br>0.24<br>0.30<br>0.24<br>0.35<br>0.29<br>0.36<br>0.68<br>0.00<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.58<br>0.00<br>0.29<br>0.56<br>0.00<br>0.29<br>0.50<br>0.29<br>0.50<br>0.29<br>0.24<br>0.35<br>0.29<br>0.24<br>0.35<br>0.29<br>0.24<br>0.35<br>0.29<br>0.24<br>0.35<br>0.29<br>0.24<br>0.35<br>0.29<br>0.29<br>0.24<br>0.35<br>0.29<br>0.24<br>0.35<br>0.29<br>0.24<br>0.35<br>0.29<br>0.58<br>0.58<br>0.58<br>0.58<br>0.40<br>0.40<br>0.29<br>0.58<br>0.58<br>0.40<br>0.40<br>0.58<br>0.40<br>0.58<br>0.40<br>0.40<br>0.58<br>0.40<br>0.58<br>0.58<br>0.40<br>0.40<br>0.58<br>0.58<br>0.40<br>0.58<br>0.58<br>0.40<br>0.58<br>0.40<br>0.58<br>0.58<br>0.58<br>0.40<br>0.58<br>0.40<br>0.58<br>0.40<br>0.58<br>0.40<br>0.58<br>0.40<br>0.58<br>0.40<br>0.58<br>0.40<br>0.58<br>0.40<br>0.40<br>0.58<br>0.40<br>0.40<br>0.58<br>0.40<br>0.40<br>0.58<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40  | 0.06<br>0.09<br>Bolter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.  
   | 5<br>7<br>1999 | Pvsl   | 1.53<br>2.02<br>Mean<br>52.68<br>55.21<br>54.06<br>55.21<br>54.23<br>46.23<br>46.23<br>46.25<br>56.70<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.50<br>57.40<br>57.40<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57. | 9<br>1999<br>gance (%<br>106<br>117<br>109<br>104<br>101<br>127<br>94<br>81<br>114<br>115<br>76<br>68<br>85  | P-val<br>0.20<br>0.06<br>0.06<br>0.37<br>0.84<br>0.00<br>0.20<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0   |
0.53<br>Mean<br>5.377<br>4.65<br>4.01<br>5.64<br>4.65<br>3.61<br>3.61<br>3.61<br>3.65<br>4.05<br>3.61<br>3.61<br>3.65<br>4.05<br>3.61<br>3.65<br>4.05<br>3.65<br>3.65<br>4.05<br>3.65<br>4.05<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37<br>5.37 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  | 0.00<br>0.18<br>0.85<br>0.00<br>0.05<br>0.04<br>0.26<br>0.56<br>0.56<br>0.56<br>0.56<br>0.56<br>0.56<br>0.52<br>0.52<br>0.52   | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 555<br>ACH 9744<br>Beta 205<br>Beta    | 101<br>54<br>116<br>105<br>109<br>93<br>112<br>112<br>117<br>104<br>59<br>97<br>86<br>106<br>108<br>108<br>99  | 6.58<br>11.34<br>1823.05<br>1942.04<br>1942.04<br>1940.01<br>1730.84<br>1804.34<br>1804.34<br>1806.85<br>1733.14<br>1733.14<br>1753.31<br>1755.68<br>1755.68<br>1775.58<br>1768.59<br>1768.59<br>1768.59<br>1787.20  | 3<br>4<br>1599<br>5<br>991<br>106<br>107<br>107<br>107<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>94<br>95<br>94<br>94<br>95<br>94<br>95<br>94<br>95<br>94<br>95<br>94<br>95<br>94<br>97<br>105<br>94<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>97<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105   | 0.81<br>0.00<br>0.00<br>0.32<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  
   
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469.77<br>620.89<br>Am<br>Mean<br>270.031<br>291.64<br>299.70<br>233.51<br>253.51<br>255.45<br>276.00<br>295.54<br>276.00<br>297.44<br>2775.20<br>297.44<br>2775.20<br>297.44<br>2775.20<br>297.44<br>2775.20<br>297.44<br>2775.20<br>297.44<br>2775.20<br>297.44<br>2775.20<br>297.44<br>2775.20<br>297.44<br>297.52<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55<br>201.55           | 7<br>10<br>1999<br>5<br>101<br>103<br>103<br>103<br>103<br>103<br>103<br>103<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>95<br>104<br>104<br>105<br>106<br>106<br>106<br>106<br>106<br>106<br>106<br>106<br>107<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | P-val<br>0.74<br>0.02<br>0.77<br>0.60<br>0.20<br>0.20<br>0.24<br>0.25<br>0.26<br>0.56<br>0.66<br>0.66<br>0.66<br>0.14<br>0.26<br>0.60<br>0.60  | 0.06<br>0.09<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.  
   | 5<br>7<br>1999 | Pvpl   | 1.53<br>2.02<br>Mean<br>52.68<br>55.211<br>54.06<br>51.77<br>50.211<br>63.23<br>46.79<br>46.26<br>56.70<br>55.40<br>56.70<br>55.40<br>56.70<br>55.40<br>56.70<br>55.40<br>46.21<br>46.21<br>46.21<br>46.21<br>46.21<br>57.01<br>55.23<br>3  | 9<br>1993<br>gence (%<br>%<br>106<br>1177<br>109<br>104<br>103<br>104<br>103<br>104<br>103<br>104<br>103<br>104<br>103<br>104<br>103<br>104<br>105<br>104<br>117<br>104<br>117<br>109<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>104<br>117<br>105<br>117<br>104<br>117<br>105<br>117<br>104<br>117<br>105<br>117<br>104<br>117<br>105<br>117<br>104<br>117<br>105<br>117<br>104<br>117<br>105<br>117<br>105<br>117<br>104<br>117<br>117<br>105<br>117<br>104<br>117<br>115<br>115<br>115<br>115<br>115<br>115<br>115  | P-est<br>0.20<br>0.06<br>0.06<br>0.37<br>0.84<br>0.00<br>0.20<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.000<br>0.00<br>0.00<br>0.00<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.00000<br>0.0000<br>0.00000<br>0.00000<br>0.000000<br>0.00000000  
                       | 0.53<br>Mean<br>5.377<br>4.65<br>5.64<br>4.651<br>5.64<br>4.651<br>3.651<br>3.655<br>4.660<br>3.885<br>4.360<br>4.051<br>3.885<br>4.360<br>4.051<br>3.885<br>4.051<br>3.255<br>3.877<br>4.033<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031<br>4.031  | 4<br>1999<br>are (%)<br>5%<br>1311<br>114<br>586<br>138<br>1211<br>855<br>598<br>685<br>685<br>685<br>685<br>685<br>685<br>685<br>68   | 0.00<br>0.18<br>0.00<br>0.06<br>0.06<br>0.56<br>0.56<br>0.55<br>0.55<br>0.55   | 70.65            | 14            |       |
| Mean LSD (0.01) Entry ACH 200 ACH 300 ACH 300 ACH 300 ACH 355 ACH 302 ACH 555 ACH 922 ACH 955 Beta 200 (M706) Beta 201 Beta 200 (M706) Beta 201 Beta 200 Beta 201 Beta 200 Beta 4700 Beta M701 Beta M01 Beta M46 Beta M46 Beta M460 Beta M460 Beta M460 Beta M900  | 101<br>54<br>116<br>105<br>109<br>93<br>46<br>55<br>112<br>112<br>117<br>104<br>85<br>97<br>86<br>106<br>118   | 6.58<br>11.34<br>1823.05<br>1942.04<br>1942.04<br>1940.01<br>1940.01<br>1940.01<br>1940.01<br>1940.01<br>1940.01<br>1950.01<br>1931.39<br>1933.34<br>1733.31<br>1613.97<br>1753.31<br>1613.97<br>1755.32<br>1696.94<br>1930.94<br>1767.34  | 3<br>4<br>1999<br>K (ppm)<br>7<br>90<br>100<br>100<br>94<br>92<br>95<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96<br>96  
  | 8.81<br>0.00<br>0.00<br>0.00<br>0.39<br>0.32<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  
   
   | 469.77<br>620.89<br><b>Am</b><br>270.00<br>291.64<br>299.70<br>307.70<br>204.16<br>253.51<br>254.50<br>276.50<br>265.54<br>276.50<br>262.43<br>267.74<br>277.520<br>261.72<br>278.22<br>278.22  | 7<br>10<br>1999<br>%<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>1  | Presi<br>0.74<br>0.02<br>0.77<br>0.00<br>0.20<br>0.20<br>0.24<br>0.35<br>0.29<br>0.56<br>0.60<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.4  
  | 0.06<br>0.09<br>Bolter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.  | 5<br>7<br>1999 | P-ysl  | 1.53<br>2.02<br>Mean<br>52.68<br>55.21<br>54.06<br>55.21<br>54.23<br>46.23<br>46.23<br>46.25<br>56.70<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.40<br>57.50<br>57.40<br>57.40<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57.50<br>57. | 9<br>1999<br>games (%<br>%<br>106<br>117<br>109<br>104<br>117<br>109<br>103<br>127<br>94<br>113<br>114<br>114<br>115<br>85<br>66<br>97<br>115  |
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   | 70.65            | 14            |       |
| Mean LSD (0.01) Entry ACH 200 ACH 300 ACH 300 ACH 300 ACH 555 ACH 555 ACH 522 ACH 522 ACH 522 ACH 524 Berg 3045 Berg 3045 Berg 3045 Berg 4000 Berg   | 1011<br>841<br>1061<br>1095<br>933<br>405<br>209<br>1122<br>1127<br>1127<br>1127<br>1127<br>1127<br>1127<br>112  | 8.58<br>11.34<br>1823.05<br>1942.04<br>1942.04<br>1942.04<br>1940.01<br>1730.81<br>1890.86<br>1931.58<br>1933.54<br>1930.54<br>1930.54<br>1930.54<br>1930.54<br>1930.54<br>1930.54<br>1930.54<br>1930.54<br>1930.54  | 3<br>4<br>1999<br>5%<br>900<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000  | 0.81<br>0.00<br>0.00<br>0.32<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  
   
   
 469.77<br>620.89<br><b>Am</b><br><b>Mean</b><br>270.031<br>291.64<br>293.70<br>307.70<br>294.166<br>295.35<br>1254.50<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.7620<br>295.74<br>295.762<br>201.72<br>295.762<br>201.72<br>295.762<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>201.72<br>200 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1.53<br>2.02<br>Emet<br>Mean<br>52.68<br>53.20<br>54.06<br>51.77<br>54.05<br>51.77<br>55.23<br>40.36<br>55.70<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.40<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.50<br>55.5 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P-est<br>0.20<br>0.05<br>0.06<br>0.06<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.00<br>0.20<br>0.00<br>0.20<br>0.00<br>0.20<br>0.00<br>0.20<br>0.00<br>0.20<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00 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0.53<br>Mean<br>5.37<br>4.65<br>4.61<br>5.64<br>4.63<br>4.63<br>4.63<br>4.63<br>3.68<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.65<br>3.88<br>4.55<br>3.88<br>4.55<br>3.88<br>4.55<br>3.88<br>4.55<br>3.88<br>4.55<br>3.88<br>4.55<br>3.88<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55<br>4.55      | 4<br>1995<br>210 (%)<br>55<br>1311<br>114<br>133<br>118<br>1211<br>85<br>94<br>95<br>95<br>95<br>95<br>95<br>95<br>107<br>86<br>95<br>95<br>107<br>107<br>107<br>107<br>107<br>107<br>107<br>107   | 0.000<br>0.18<br>0.051<br>0.054<br>0.054<br>0.054<br>0.054<br>0.055<br>0.844<br>0.055<br>0.844<br>0.051<br>0.954<br>0.051<br>0.954<br>0.051<br>0.954<br>0.051  
   | 70.65            | 14            |       |
| Mean LSD (0.01) Entry ACH 200 ACH 300 ACH 300 ACH 300 ACH 555 ACH 555 ACH 552 ACH 522 ACH 522 ACH 522 Beta 4700 (MT05) Beta 5016 Beta 5026 Beta 50   | 1011<br>84<br>116<br>1095<br>1099<br>112<br>85<br>85<br>1177<br>104<br>105<br>1177<br>104<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105<br>105  | 8.58<br>11.34<br>1623.05<br>1942.04<br>1990.01<br>1730.81<br>1894.34<br>1810.88<br>1931.39<br>1733.11<br>1613.97<br>1733.14<br>1753.14<br>1753.14<br>1755.68<br>1778.23<br>1666.94<br>1793.14<br>1755.23<br>1666.94<br>1793.25<br>1865.54<br>1793.27<br>1885.57  | 3<br>4<br>1995<br>(1000)<br>106<br>107<br>106<br>107<br>92<br>98<br>98<br>106<br>98<br>98<br>106<br>98<br>106<br>98<br>106<br>98<br>106<br>97<br>88<br>106<br>94<br>97<br>97<br>97<br>97<br>97   | 0.81<br>0.00<br>0.00<br>0.39<br>0.32<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  
   
   
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   | 70.65            | 14            |       |
| Mean LSD (0.01) Entry ACH 205 ACH 205 ACH 302 ACH 302 ACH 302 ACH 555 ACH 974 Seta 705 (MT05) Beta 501   | 1011<br>541<br>1051<br>1091<br>933<br>593<br>1094<br>933<br>1094<br>104<br>863<br>1066<br>1166<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1066<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1067<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068<br>1068 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8.58<br>11.34<br><b>Mesen</b><br>1823.05<br>1942.04<br>1959.01<br>1730.81<br>1894.34<br>1864.34<br>1806.85<br>1933.59<br>1733.14<br>1753.01<br>1755.63<br>1775.35<br>1665.94<br>1787.20<br>1665.94<br>1787.20<br>1786.51<br>1930.94<br>1786.51<br>1952.20<br>1756.63<br>1775.63<br>1775.63<br>1775.63<br>1775.63<br>1775.63<br>1775.54<br>1805.57<br>1756.54<br>1792.05<br>1756.55<br>1792.05<br>1756.55<br>1792.05<br>1756.55<br>1792.05<br>1756.55<br>1792.05<br>1756.55<br>1792.05<br>1756.55<br>1792.05<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>1795.55<br>175 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469.77<br>620.89<br>Am<br>Mean<br>270.001<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>293.65<br>292.64<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>293.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65<br>200.65 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  | 0.53<br>Mean<br>5.377<br>4.85<br>4.01<br>5.64<br>4.83<br>4.95<br>5.64<br>4.83<br>4.95<br>5.64<br>4.83<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.95<br>5.64<br>4.05<br>5.88<br>4.05<br>5.88<br>4.05<br>5.887<br>4.05<br>5.877<br>4.05<br>5.877<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.977<br>4.05<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779<br>5.779  | 4<br>1999<br>319 (%)<br>3%<br>331<br>133<br>133<br>133<br>133<br>133<br>133<br>133<br>133  | 0.00<br>0.18<br>0.85<br>0.05<br>0.04<br>0.25<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55   | 70.65            | 14            |       |
| Mean LSD (0.01) Entry ACH 205 ACH 205 ACH 302 ACH 302 ACH 555 ACH 555 ACH 552 ACH 552 ACH 522 ACH 574 Beta 4705 (04705) Beta 4705 Beta   | 1011<br>84<br>105<br>109<br>93<br>46<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45<br>45   | 8.56<br>11.34<br>1823.05<br>1542.04<br>15970.01<br>1730.81<br>17940.01<br>1730.81<br>17940.34<br>1894.34<br>1890.38<br>1806.38<br>17733.14<br>1753.13<br>1755.08<br>17753.21<br>1695.94<br>1780.54<br>17952.17<br>1696.54<br>1992.17<br>1952.80<br>1756.69<br>1771.85  | 3<br>4<br>1999<br>% (ppm)<br>%<br>901<br>902<br>904<br>904<br>904<br>904<br>904<br>904<br>904<br>904<br>904<br>904   | 0.81<br>0.00<br>0.00<br>0.39<br>0.32<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00   
   
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469.77<br>620.89<br>Mean<br>270.03<br>259.54<br>299.64<br>299.70<br>200.70<br>224.16<br>255.54<br>200.70<br>225.54<br>200.70<br>225.54<br>200.70<br>225.54<br>200.70<br>225.54<br>200.70<br>225.54<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>200.70<br>2000        | 7<br>10<br>1999 - 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0.53<br>T.<br>Mean<br>5.377<br>4.851<br>4.851<br>4.851<br>4.853<br>4.925<br>3.641<br>3.644<br>4.925<br>3.864<br>4.925<br>3.863<br>4.925<br>4.900<br>4.125<br>4.900<br>4.125<br>4.900<br>4.125<br>4.900<br>4.125<br>4.900<br>4.925<br>3.757<br>4.900<br>4.925<br>3.757<br>4.900<br>4.925<br>3.864<br>4.925<br>3.864<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925  | 4<br>1999<br>2010<br>111<br>114<br>114<br>114<br>114<br>114<br>114   | 0.000<br>0.18<br>0.05<br>0.06<br>0.04<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05<br>0.05  
   | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 205<br>ACH 202<br>ACH 202<br>ACH 202<br>ACH 202<br>ACH 504<br>BER 205<br>BER 20   | 1011<br>641<br>1055<br>1095<br>699<br>1095<br>699<br>1056<br>1187<br>1066<br>1188<br>999<br>799<br>1200<br>1005<br>861<br>1035<br>861<br>813<br>813<br>813<br>813<br>814<br>865<br>815<br>815<br>815<br>815<br>815<br>815<br>815<br>81   | 8.56<br>11.34<br><b>Mean</b><br>1823.05<br>1942.54<br>1942.54<br>1942.54<br>1942.54<br>1942.54<br>1950.01<br>1730.81<br>1750.83<br>1953.14<br>1753.14<br>1755.63<br>1775.32<br>1775.32<br>1755.63<br>1775.22<br>1685.51<br>1956.53<br>1956.53<br>1966.51<br>1956.55<br>1966.57<br>1966.57  | 3<br>4<br>1999<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0  
   
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469.77<br>620.89<br>Am<br>Mean<br>270.001<br>289.70<br>289.70<br>289.70<br>289.70<br>289.70<br>291.64<br>254.50<br>295.64<br>295.64<br>295.65<br>295.65<br>295.65<br>295.65<br>295.74<br>295.74<br>295.75<br>207.65<br>295.75<br>207.65<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>295.20<br>20<br>295.20<br>20<br>295.20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2  | 7<br>1999<br>1999<br>1001<br>1005<br>1005<br>1005<br>1005<br>1005   | P-val<br>0.74<br>0.02<br>0.77<br>0.00<br>0.00<br>0.24<br>0.35<br>0.29<br>0.35<br>0.29<br>0.35<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.40<br>0.4   |
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   | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 555<br>ACH 922<br>ACH 92   | 101<br>84<br>1161<br>125<br>109<br>93<br>93<br>112<br>117<br>108<br>112<br>117<br>108<br>112<br>117<br>108<br>112<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108  | 8.56<br>11.34<br><b>Mean</b><br>1823.05<br>1542.04<br>1542.04<br>1542.04<br>1542.04<br>1540.01<br>1730.81<br>1663.07<br>1750.68<br>1933.15<br>1613.07<br>1755.68<br>1935.04<br>1930.04<br>1775.21<br>1695.68<br>1930.04<br>1775.21<br>1695.57<br>1965.57<br>1962.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952.23<br>1952  | 3<br>4<br>1999<br>5<br>100<br>100<br>100<br>100<br>100<br>100<br>100   |
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   | 469.77<br>620.89<br>Am<br>Mean<br>270.031<br>291.64<br>299.70<br>307.70<br>224.16<br>253.51<br>254.50<br>275.54<br>276.00<br>295.54<br>276.00<br>295.54<br>276.00<br>295.74<br>2775.20<br>295.74<br>2775.20<br>295.74<br>2775.20<br>295.74<br>2775.20<br>295.25<br>200.55<br>277.53<br>200.55<br>278.15<br>278.05<br>278.15<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>279.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>279.25<br>278.25<br>279.25<br>278.25<br>279.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>278.25<br>279.25<br>278.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279        | 7<br>10<br>1999 - N (ppem)<br>1001 - 1001<br>1001 - 1001<br>115<br>15<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   | P-val<br>8.74<br>6.02<br>9.77<br>0.500<br>0.500<br>0.500<br>0.500<br>0.500<br>0.229<br>0.24<br>0.550<br>0.560<br>0.560<br>0.560<br>0.600<br>0.229<br>0.560<br>0.600<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.560<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550<br>0.550  |
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| Menan LSD (0.01)  Entry ACH 205 ACH 205 ACH 202 ACH 202 ACH 555 ACH 555 ACH 555 ACH 522 ACH 574 Beta 5705  | 101<br>84<br>116<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108<br>108   | 8.56<br>11.34<br><b>Mean</b><br>1823.05<br>1734.254<br>1942.04<br>1940.01<br>1730.81<br>1894.34<br>1810.88<br>1933.19<br>1750.88<br>1933.19<br>1750.88<br>1933.19<br>1750.88<br>1933.19<br>1750.88<br>1935.20<br>1605.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1930.94<br>1950.95<br>1952.83<br>1952.83<br>1952.93<br>1955.90<br>1952.83<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>1955.90<br>195  | 3 4<br>1999 % (ppm)<br>% (ppm)<br>%<br>991 000<br>100 4<br>903 000<br>904 000<br>904 000<br>904 000<br>905 000<br>907 0000<br>907 0000<br>907 0000<br>907 0000<br>907 0000<br>907 0000<br>907 0000<br>900   | 8 st 1<br>0 000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 00000<br>0 0000  
   
  | 469.77<br>620.89<br>Mean<br>270.031<br>291.64<br>299.76<br>293.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.27<br>293.92<br>293.92<br>293.92<br>293.92<br>293.92<br>297.82<br>297.82<br>297.82<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>200.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207.85<br>207        | 7<br>10<br>1999<br>%<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>103<br>103   
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0.53<br>Mean<br>5.377<br>4.85<br>4.05<br>3.64<br>4.85<br>3.64<br>4.85<br>3.64<br>4.95<br>3.64<br>4.95<br>3.64<br>4.95<br>3.64<br>4.95<br>3.64<br>4.95<br>3.63<br>4.95<br>3.64<br>4.95<br>3.64<br>4.95<br>3.64<br>4.95<br>3.64<br>4.95<br>3.64<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.65<br>4.95<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.25<br>3.55<br>4.03<br>3.25<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>4.03<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57<br>3.57     | 4<br>1996<br>1996<br>1311<br>114<br>135<br>135<br>135<br>135<br>135<br>135<br>135<br>135  
  | 0.000<br>0.118<br>0.661<br>0.061<br>0.041<br>0.061<br>0.552<br>0.681<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.651<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.555<br>0.655<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.   | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 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                  | 1011<br>841<br>1028<br>1029<br>1029<br>1029<br>1029<br>1020<br>1020<br>1020<br>1020  | 8.56<br>11.34<br><b>Mean</b><br>1823.05<br>1730.51<br>1542.24<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>1590.04<br>1590.04<br>1590.04<br>1733.14<br>1613.07<br>1775.20<br>1695.94<br>1775.20<br>1695.94<br>1776.20<br>1756.90<br>1771.85<br>1995.24<br>1995.24<br>1995.25<br>1995.24<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995.25<br>1995 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   | 469.77<br>620.89<br>Am<br>Mean<br>270.001<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>291.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64<br>292.64         | 7<br>10<br>1999<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100   | 8743           8744           0.02           0.02           0.02           0.02           0.02           0.02           0.02           0.02           0.02           0.02           0.22           0.22           0.22           0.22           0.22           0.23           0.24           0.25           0.26           0.26           0.26           0.26           0.26           0.000           0.22           0.000  |
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0.53<br>Mean<br>5.37<br>4.85<br>4.07<br>5.64<br>4.07<br>5.64<br>4.05<br>3.63<br>4.05<br>3.64<br>4.05<br>3.64<br>4.05<br>3.64<br>4.05<br>3.64<br>4.05<br>3.63<br>4.05<br>3.64<br>4.05<br>3.64<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>3.65<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>4.05<br>3.65<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.75<br>4.05<br>3.15<br>5.75<br>4.05<br>3.15<br>5.75<br>4.05<br>3.15<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5.75<br>5 | 4<br>1996<br>3%<br>1311<br>1341<br>134<br>138<br>138<br>138<br>138<br>138<br>138<br>138<br>138   | 0.000<br>0.118<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.000000  
   | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 555<br>ACH 555<br>ACH 522<br>ACH 525<br>Bela 525   | 1011<br>843<br>1028<br>923<br>1028<br>945<br>1028<br>945<br>1028<br>945<br>1028<br>945<br>1028<br>945<br>1028<br>1028<br>1028<br>1028<br>1028<br>1029<br>1020<br>1020<br>1020<br>1020<br>1020<br>1020<br>1020  | 8.56<br>11.34<br><b>Mean</b><br>1823.05<br>1730.61<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>15942.04<br>1590.04<br>1590.04<br>1733.14<br>1613.07<br>1775.20<br>1695.94<br>1775.20<br>1695.94<br>1776.20<br>1776.20<br>1792.05<br>1792.07<br>1866.51<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1992.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>1994.94<br>199     | 3 4<br>1999 % (ppm)<br>% (ppm)<br>% 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0.53<br>Mean<br>5.377<br>4.851<br>4.851<br>4.851<br>4.851<br>4.852<br>3.641<br>4.833<br>4.925<br>3.861<br>3.265<br>3.863<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.925<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.935<br>4.9356<br>4.9356<br>4.9356<br>4.9356<br>4.9356<br>4.9356<br>4.9356<br>4.9356<br>4.93576<br>4.93576<br>4.93576<br>4.93576<br>4.93576<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.935776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.9357776<br>4.93577776<br>4.935777777777777777777777777777777777777 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  | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 374<br>Beta 300<br>Beta 300   | 1011<br>843<br>1029<br>933<br>1029<br>935<br>1020<br>935<br>1020<br>1020<br>1020<br>1020<br>1020<br>1020<br>1020<br>102  | 8.56 11.34 <b>Mean 18</b> (23.05) 17942.244 150/0.01 1730.81 1730.81 1730.81 1730.81 1730.139 1733.14 1755.63 1931.39 1775.32 1768.531 1769.20 1886.577 1782.20 1886.577 1782.20 1886.577 1782.20 1886.577 1782.20 1886.577 1782.20 1886.577 1782.20 1886.577 1962.33 1657.40 1952.20 1785.20 1785.20 1785.20 1785.20 1785.20 1785.20 1785.20 1785.20 1785.20 1785.20 1785.20 1793.45 2007.26 21722.66 1733.65 175   | 3 4<br>1999<br>4 (ppm)<br>107 16<br>107 16<br>109 108<br>109 109<br>109 109<br>100 100<br>100 100<br>10  | 8 81<br>0 000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 00000<br>0  
   
  | 469.77<br>620.89<br>Am<br>Mean<br>270.03<br>291.64<br>299.64<br>299.70<br>224.18<br>2253.51<br>254.50<br>276.00<br>2255.54<br>275.55<br>255.54<br>276.00<br>295.54<br>275.20<br>295.54<br>275.20<br>295.24<br>295.24<br>297.82<br>206.54<br>297.82<br>206.54<br>297.82<br>206.55<br>206.55<br>206.55<br>206.55<br>207.55<br>200.50<br>206.55<br>207.55<br>200.55<br>207.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55<br>200.55        | 7<br>10<br>1999<br>1001<br>1001<br>1001<br>1001<br>1001<br>1001  
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| Mean LSD (0.01) Entry ACH 205 ACH 205 ACH 205 ACH 302 ACH 302 ACH 302 ACH 555 ACH 370 Beta 501 Beta 50   | 1011<br>644<br>1165<br>1009<br>933<br>950<br>939<br>950<br>950<br>950<br>965<br>965<br>965<br>965<br>965<br>965<br>965<br>970<br>970<br>970<br>970<br>970<br>970<br>970<br>970<br>970<br>970   | 8.56 11.34 <b>Mean 18</b> (23.05) 17942.04 150/0.01 1730.81 1730.81 1730.81 1730.81 1730.139 1733.14 1735.15 1755.62 1775.32 1768.54 1775.22 1768.5 1778.22 1768.5 1778.22 1782.23 1685.51 1782.23 1685.51 1755.26 1778.22 1685.51 1992.14 2037.08 2037.08 2172.30 1855.70 1944.14 2037.08 1732.45 2037.08 2037.08 2172.30 1855.70 1944.14 2037.08 2037.08 2172.30 1855.70 1944.14 2037.08 1733.54   | 3 4<br>1999<br>( (ppm)<br>10<br>100<br>107<br>108<br>107<br>108<br>108<br>109<br>109<br>109<br>109<br>109<br>109<br>109<br>109   | 8 81<br>6 000<br>6 000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 00000<br>0   
   
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469.77<br>620.89<br>Am<br>Mean<br>270.031<br>291.64<br>299.70<br>224.16<br>253.54<br>200.72<br>224.16<br>253.54<br>275.20<br>224.16<br>275.20<br>224.16<br>275.20<br>224.16<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20<br>275.20         | 7<br>10<br>1999<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 8743           874           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.022           0.020           0.021           0.022           0.022           0.021           0.022           0.021           0.022           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.045           0.011   |
0.06<br>6.09<br>Balter<br>Mean<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00      | 5<br>7<br>1999 | P-ys   | 1.53<br>2.02<br>Emer<br>Mean<br>52 68<br>55 221<br>55 2   | 9 1999 (%) 1999 (%) 1999 (%) 1999 (%) 199 1904 1991 1904 1901 1904 1901 1904 1904  | 92-val<br>0 200<br>0 600<br>0 600<br>0 75<br>0 | 0.53<br>Mean<br>5.377<br>4.85<br>4.01<br>5.64<br>4.83<br>4.95<br>3.61<br>3.85<br>4.95<br>3.61<br>3.85<br>4.95<br>3.81<br>3.85<br>4.95<br>3.83<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>3.85<br>4.95<br>4.95<br>3.85<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>5.95<br>4.12<br>4.05<br>5.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>3.95<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11 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  | 70.65            | 14            |       |
| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 555<br>ACH 555<br>ACH 522<br>ACH 555<br>ACH 522<br>ACH 525<br>Bela 525<br>Be   | 1011<br>644<br>1025<br>1029<br>933<br>952<br>953<br>955<br>955<br>955<br>955<br>955<br>955<br>955<br>955<br>955  | 8.56<br>11.34<br><b>Mean</b><br><b>1823.05</b><br>1542.04<br>1542.04<br>1542.04<br>15942.04<br>15942.04<br>1592.04<br>1592.04<br>1593.15<br>1730.68<br>1933.15<br>1750.68<br>1933.15<br>1750.68<br>1935.06<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08<br>1935.08 | 3 4<br>1999 % (ppm)<br>% (ppm)<br>% 1000<br>1007 %<br>903 %<br>904 %<br>904 %<br>904 %<br>905 %<br>905 %<br>905 %<br>905 %<br>905 %<br>905 %<br>907 %   | 8 81<br>6 000<br>6 000<br>6 000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 0000<br>0 00000<br>0 0000<br>0 0000<br>0 0000<br>0 00000<br>0 00000<br>0   
   
   | 469.77<br>620.89<br>Am<br>Mean<br>270.031<br>291.64<br>299.70<br>307.70<br>224.16<br>253.54<br>202.65<br>226.59<br>275.60<br>275.5.04<br>275.5.04<br>275.5.04<br>275.20<br>275.20<br>275.23<br>202.65<br>275.23<br>202.65<br>275.23<br>202.65<br>275.23<br>202.65<br>275.23<br>202.65<br>275.23<br>202.55<br>202.65<br>275.23<br>202.55<br>202.65<br>275.23<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>202.55<br>2        | 7<br>10<br>1999<br>%<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>1  
   | 8743           874           0.021   | 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  | 70.65            | 14            |       |
| Mean LSD (0.01) Entry ACH 205 ACH 205 ACH 302 ACH 302 ACH 302 ACH 555 ACH 9744 Beta 205 Beta  | 1011<br>644<br>1165<br>933<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950   | 8.56 11.34 <b>Mass 18</b> 23.05 15942.04 15942.04 15942.04 15942.04 15940.01 17730.81 1730.81 1730.81 1730.31 1750.68 1931.59 1755.68 1731.59 1755.68 17576.20 1755.68 17576.20 1756.69 1751.66 51 1950.57 1756.59 1757.69 1855.70 1855.71 1855.71 1855.71 1855.72 1855.7 1855.7 1855.7 1855.7 1855.7 1855.7 1855.7 1855.7 1855.7 1855.7 1   | 3 4<br>1999 % (ppm)<br>% (ppm)<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10  | 8.81         0.000           0.000
<td>469.77<br/>620.89<br/>Am<br/>Mean<br/>270.031<br/>251.64<br/>289.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>307.70<br/>234.16<br/>254.50<br/>256.60<br/>276.60<br/>276.20<br/>276.20<br/>277.44<br/>276.00<br/>276.20<br/>277.45<br/>276.20<br/>277.45<br/>278.15<br/>278.15<br/>278.15<br/>278.15<br/>278.15<br/>278.15<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>278.25<br/>278.15<br/>279.25<br/>278.15<br/>279.25<br/>278.15<br/>279.25<br/>278.15<br/>279.25<br/>278.15<br/>279.25<br/>278.15<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25<br/>279.25</td> <td>7<br/>10<br/>1099<br/>1099<br/>1001<br/>1001<br/>1001<br/>1001<br/>1001</td> <td>8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     &lt;</td> <td>0.06<br/>8.09<br/>Bolter<br/>Mean<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>5<br/>7<br/>1999</td> <td>P-vs1</td>
<td>1.53<br/>2.02<br/>Emet<br/>Mean<br/>52.68<br/>55.21<br/>55.07<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.2</td> <td>9<br/>1995 (1995)<br/>1006 (1997)<br/>1007 (1997)<br/>10</td> <td>P-val 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td> <td>0.53<br/>T.<br/>Mean<br/>5.37<br/>4.85<br/>4.07<br/>5.64<br/>5.64<br/>4.05<br/>4.02<br/>3.63<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.05<br/>4.03<br/>4.05<br/>4.03<br/>4.05<br/>4.03<br/>4.05<br/>4.03<br/>4.05<br/>4.03<br/>4.05<br/>4.03<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05<br/>4.05</td> <td>4<br/>1996<br/>3<br/>5<br/>1311<br/>1144<br/>133<br/>138<br/>1131<br/>1144<br/>139<br/>138<br/>1131<br/>1144<br/>139<br/>138<br/>1131<br/>1144<br/>139<br/>138<br/>1131<br/>1144<br/>139<br/>139<br/>139<br/>139<br/>139<br/>139<br/>139<br/>139</td> <td>0.000<br/>0.118<br/>0.661<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.060<br/>0.061<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.</td> <td>70.65</td> <td>14</td> <td></td>   
  | 469.77<br>620.89<br>Am<br>Mean<br>270.031<br>251.64<br>289.70<br>307.70<br>307.70<br>307.70<br>307.70<br>307.70<br>307.70<br>307.70<br>307.70<br>307.70<br>307.70<br>307.70<br>234.16<br>254.50<br>256.60<br>276.60<br>276.20<br>276.20<br>277.44<br>276.00<br>276.20<br>277.45<br>276.20<br>277.45<br>278.15<br>278.15<br>278.15<br>278.15<br>278.15<br>278.15<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>278.25<br>278.15<br>279.25<br>278.15<br>279.25<br>278.15<br>279.25<br>278.15<br>279.25<br>278.15<br>279.25<br>278.15<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25<br>279.25         | 7<br>10<br>1099<br>1099<br>1001<br>1001<br>1001<br>1001<br>1001   | 8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     <   |
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| 9<br>1995 (1995)<br>1006 (1997)<br>1007 (1997)<br>10   | P-val 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.0   |
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| Mean LSD (0.01)<br>Entry<br>ACH 205<br>ACH 205<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 302<br>ACH 312<br>Beta 4705 (04705)<br>Beta 4705 (04705)<br>Beta 4705 (04705)<br>Beta 5014<br>Beta 5014<br>B   | 1011<br>644<br>1165<br>933<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950   | 8.56 11.34 <b>Mass 18</b> 23.05 1582.04 1990.01 1750.81 1990.4 1970.81 1990.4 1970.8 1931.9 1750.6 1931.9 1750.6 1931.9 1750.6 1933.1 1750.6 1930.5 1755.6 1930.5 1755.6 1930.5 1755.6 1930.5 1755.6 1930.5 1950.   | 3 4<br>1999 % (ppm)<br>% (ppm)<br>% 1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000 | a sti     c 000     c  
   
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| Mean LSD (0.01) Entry ACH 205 ACH 205 ACH 205 ACH 205 ACH 202 ACH 302 ACH 302 ACH 302 ACH 324 BER 201  | 1011<br>644<br>1165<br>933<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950   | 8.56 11.34 <b>Mean 1823.05</b> 1594.2.04 1594.2.04 1594.0.01 1594.2.04 1594.0.01 1594.2.04 1597.0.01 1594.2.04 1507.05 1606.56 1800.57 17920.17 1750.63 1776.30 1776.30 1776.30 1776.30 1776.30 1776.30 1796.0 1805.0 1  | 3 4<br>1999 % (ppm)<br>% (ppm)<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10  | 8.81         0.000           0.000         0.000          
0.000 <td>469.77<br/>620.89<br/>Am<br/>Mean<br/>270.03<br/>270.43<br/>291.64<br/>290.97<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.24<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>295.25<br/>2</td> <td>7<br/>10<br/>1099<br/>1099<br/>1001<br/>1001<br/>1001<br/>1001<br/>1001</td> <td>8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     &lt;</td> <td>0.06<br/>8.09<br/>Bolter<br/>Mean<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>5<br/>7<br/>1999</td> <td>P-vs</td>
<td>1.53<br/>2.02<br/>Mean<br/>52.65<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.25.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.255</td> <td>9<br/>1995 (1995)<br/>1006 (1997)<br/>1007 (1997)<br/>10</td> <td>P-val 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td> <td>0.53<br/>T.<br/>Mean<br/>5.377<br/>4.85<br/>4.01<br/>5.64<br/>4.02<br/>3.61<br/>3.65<br/>4.02<br/>3.63<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>3.88<br/>4.03<br/>4.03<br/>3.88<br/>4.03<br/>4.03<br/>3.85<br/>4.03<br/>3.75<br/>4.12<br/>4.03<br/>3.75<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.75<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>3.577<br/>4.12<br/>3.577<br/>4.12<br/>3.577<br/>4.12<br/>3.05<br/>3.577<br/>4.12<br/>3.05<br/>3.577<br/>4.12<br/>3.05<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>4.03<br/>3.577<br/>4.12<br/>3.577<br/>5.127<br/>5.477<br/>5.477<br/>5.477<br/>5.477<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407</td> <td>4<br/>1996<br/>3<br/>5<br/>1311<br/>1144<br/>133<br/>138<br/>1131<br/>1144<br/>139<br/>138<br/>1131<br/>1144<br/>139<br/>138<br/>1131<br/>1144<br/>139<br/>138<br/>1131<br/>1144<br/>139<br/>139<br/>139<br/>139<br/>139<br/>139<br/>139<br/>139</td> 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  | 469.77<br>620.89<br>Am<br>Mean<br>270.03<br>270.43<br>291.64<br>290.97<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.24<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>295.25<br>2     | 7<br>10<br>1099<br>1099<br>1001<br>1001<br>1001<br>1001<br>1001   | 8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     <   |
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1.53<br>2.02<br>Mean<br>52.65<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.21<br>55.25.21<br>55.25<br>55.21<br>55.25<br>55.21<br>55.25<br>55.21<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.25<br>55.255    | 9<br>1995 (1995)<br>1006 (1997)<br>1007 (1997)<br>10   | P-val 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.0   |
0.53<br>T.<br>Mean<br>5.377<br>4.85<br>4.01<br>5.64<br>4.02<br>3.61<br>3.65<br>4.02<br>3.63<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>4.03<br>3.88<br>4.03<br>4.03<br>3.88<br>4.03<br>4.03<br>3.85<br>4.03<br>3.75<br>4.12<br>4.03<br>3.75<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.75<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>3.577<br>4.12<br>3.577<br>4.12<br>3.577<br>4.12<br>3.05<br>3.577<br>4.12<br>3.05<br>3.577<br>4.12<br>3.05<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>4.03<br>3.577<br>4.12<br>3.577<br>5.127<br>5.477<br>5.477<br>5.477<br>5.477<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407<br>5.407 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  | 70.65            | 14            |       |
| Mean LSD (0.01) Entry ACH 205 ACH 205 ACH 205 ACH 302 ACH 302 ACH 302 ACH 302 ACH 555 ACH 9744 Beta 3705 Beta 9704 Beta 3705 Beta 9704 Beta 9704 Beta 9705 Beta 9704 Beta 9705 Beta 9704 Beta 9705 B   | 1011<br>644<br>1165<br>933<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950   | 8.56 11.34 1823.05 1823.05 1942.54 1970.01 1730.81 1994.54 1970.01 1730.81 1894.34 1970.01 1730.81 1894.34 1970.52 1615.07 1806.55 1972.17 1666.51 1962.33 1696.54 1966.51 1962.33 1856.01 185   | 3 4<br>1999 % (ppm)<br>% (ppm)<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10  | 8.81         0.000           0.000         0.000          
0.000         0.000           0.000         0.000           0.000         0.000           0.000 <td>469.77<br/>620.89<br/>Mean<br/>270.03<br/>270.03<br/>270.43<br/>289.76<br/>291.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.54<br/>295.55<br/>295.55<br/>295.54<br/>295.54<br/>295.55<br/>295.55<br/>295.55<br/>295.54<br/>295.54<br/>295.55<br/>295.55<br/>295.55<br/>295.55<br/>295.55<br/>295.24<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>297.85<br/>2</td> <td>7<br/>1099<br/>11999<br/>11999<br/>1109<br/>1109<br/>1109<br/>1109<br/>1</td> <td>8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     &lt;</td> <td>0.06<br/>8.09<br/>Bolter<br/>Mean<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>5<br/>7<br/>1999</td> <td>P-vs</td>
<td>1.53<br/>2.02<br/>Emet<br/>Mean<br/>52.63<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.21<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.25<br/>55.2</td> <td>9 1999 1999 1999 1999 1999 1999 199 199</td> <td>P-val 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td> <td>0.53<br/>T.<br/>Mean<br/>5.37<br/>4.85<br/>4.01<br/>5.64<br/>4.02<br/>3.64<br/>4.02<br/>3.64<br/>4.02<br/>3.64<br/>4.02<br/>3.64<br/>4.02<br/>3.64<br/>4.02<br/>3.65<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>4.03<br/>5.77<br/>4.12<br/>3.775<br/>4.12<br/>3.577<br/>4.12<br/>3.577<br/>4.12<br/>3.05<br/>3.577<br/>4.12<br/>3.05<br/>3.577<br/>4.12<br/>3.05<br/>3.577<br/>4.12<br/>3.05<br/>3.577<br/>4.12<br/>3.05<br/>3.221<br/>5.11<br/>5.11<br/>5.12<br/>5.41<br/>3.99<br/>5.42<br/>4.03<br/>3.577<br/>4.12<br/>5.05<br/>3.577<br/>4.12<br/>5.12<br/>5.12<br/>5.12<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.41<br/>5.42<br/>5.41<br/>5.42<br/>5.41<br/>5.42<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407<br/>5.407</td> <td>4<br/>1996<br/>1997<br/>1311<br/>1144<br/>1998<br/>138<br/>138<br/>138<br/>138<br/>138<br/>138<br/>138<br/>13</td> 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<td>70.65</td> <td>14</td> <td></td>  
  | 469.77<br>620.89<br>Mean<br>270.03<br>270.03<br>270.43<br>289.76<br>291.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.54<br>295.55<br>295.55<br>295.54<br>295.54<br>295.55<br>295.55<br>295.55<br>295.54<br>295.54<br>295.55<br>295.55<br>295.55<br>295.55<br>295.55<br>295.24<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>297.85<br>2   | 7<br>1099<br>11999<br>11999<br>1109<br>1109<br>1109<br>1109<br>1  | 8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     <   
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| Mean LSO (0.01) Entry ACH 205 ACH 302 ACH 302 ACH 302 ACH 302 ACH 555 ACH 9744 Brta 555 ACH 9744 Brta 504 Brta 705 Brta  | 1011<br>644<br>1165<br>933<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950<br>950   | 8.56<br>11.34<br>Mean<br>1823.05<br>1942.04<br>1942.04<br>1940.01<br>1730.81<br>1969.434<br>1970.81<br>1969.434<br>1973.15<br>1969.65<br>1975.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03<br>1775.03   | 3 4<br>1999 % (ppm)<br>% (ppm)<br>% 500<br>1007 94<br>903 95<br>1005 94<br>904 95<br>907 95<br>1005 94<br>907 95<br>1007 90<br>907 95<br>1007 90<br>1007 1007<br>1007 1007 1007<br>1007 10   | 8.81         0.000           0.000 <td>469.77<br/>620.89<br/>Am<br/>Mean<br/>270.031<br/>291.64<br/>299.70<br/>201.64<br/>299.70<br/>224.16<br/>295.54<br/>276.00<br/>224.16<br/>275.26<br/>275.26<br/>275.26<br/>275.26<br/>275.26<br/>275.26<br/>275.27<br/>201.77<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275.27<br/>275</td> <td>7<br/>1099<br/>1099<br/>1099<br/>1091<br/>1095<br/>1091<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1096<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1095<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1097<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>1005<br/>100</td> <td>8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     &lt;</td> <td>0.06<br/>8.09<br/>Bolter<br/>Mean<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00<br/>0.00</td> <td>5<br/>7<br/>1999</td> <td>P vys</td> <td>1.53<br/>2.02<br/>Emer<br/>Mean<br/>52 68<br/>55 21<br/>55 2</td> <td>9 1999 (%) 1999 (%) 1999 (%) 1999 (%) 199 1904 1991 1904 1901 1904 1901 1904 1901 1904 190 1904 190 190 190 190 190 190 190 190 190 190</td> <td>P-val 0.20 0.00 0.00 0.00 0.00 0.00 0.00 0.0</td> <td>0.53<br/>T.<br/>Mean<br/>5.377<br/>4.85<br/>4.01<br/>5.64<br/>4.83<br/>4.83<br/>4.83<br/>4.83<br/>4.83<br/>4.85<br/>3.84<br/>4.85<br/>3.84<br/>4.85<br/>3.84<br/>4.95<br/>3.83<br/>4.95<br/>3.83<br/>4.95<br/>3.83<br/>4.95<br/>3.83<br/>4.95<br/>3.83<br/>4.95<br/>3.85<br/>3.85<br/>3.85<br/>4.95<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.85<br/>3.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>4.95<br/>5.95<br/>3.25<br/>5.11<br/>3.25<br/>5.11<br/>3.25<br/>5.11<br/>3.25<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.12<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.11<br/>5.12<br/>5.11<br/>5.12<br/>5.11<br/>5.12<br/>5.11<br/>5.12<br/>5.12<br/>5.12<br/>5.11<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5.12<br/>5</td> <td>4<br/>1996<br/>3%<br/>1311<br/>1311<br/>131<br/>131<br/>131<br/>131<br/>13</td> <td>0.000<br/>0.118<br/>0.661<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.061<br/>0.060<br/>0.061<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.060<br/>0.</td> <td>70.65</td> <td>14</td> <td></td> | 469.77<br>620.89<br>Am<br>Mean<br>270.031<br>291.64<br>299.70<br>201.64<br>299.70<br>224.16<br>295.54<br>276.00<br>224.16<br>275.26<br>275.26<br>275.26<br>275.26<br>275.26<br>275.26<br>275.27<br>201.77<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275.27<br>275 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 | 8743           874           0.02           0.02           0.02           0.02           0.02           0.02           0.000           0.001           0.002           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.002           0.002           0.001           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.002           0.003           0.004           0.005           0.005           0.005           0.005           0.005           0.005           0.006           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.007           0.008           0.008     <   | 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0.53<br>T.<br>Mean<br>5.377<br>4.85<br>4.01<br>5.64<br>4.83<br>4.83<br>4.83<br>4.83<br>4.83<br>4.85<br>3.84<br>4.85<br>3.84<br>4.85<br>3.84<br>4.95<br>3.83<br>4.95<br>3.83<br>4.95<br>3.83<br>4.95<br>3.83<br>4.95<br>3.83<br>4.95<br>3.85<br>3.85<br>3.85<br>4.95<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.85<br>3.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>4.95<br>5.95<br>3.25<br>5.11<br>3.25<br>5.11<br>3.25<br>5.11<br>3.25<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.12<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.11<br>5.12<br>5.11<br>5.12<br>5.11<br>5.12<br>5.11<br>5.12<br>5.12<br>5.12<br>5.11<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5.12<br>5 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  | 70.65            | 14            |       |

\* Significant at 5%. \*\* Significant at 1%. Ns Not Significant Mean LSD is only appropriate for comparing entry means with each other when F value is significant. 3rd column for trait is probability that detection of a cliff. (from check mean) of this size is due to chance.

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# American Crystal Sugar Co. - Technical Service Center Southern Minnesota Semi Commercial Coded Trial - Lattice Trial 995611, Hector, MN Planting Date: 04/28/1999 Harvest Date: 10/08/1999 30 Entries 6 Reps X Loc 2 Rows/Plot 1 Samples/Plot

Entry	Source	R	1999 ic/T (lbs	)	R	1999 ec/A (Ibs	s)	Lor	1999 ss to Mo	- 1	Y	1999 eld (T/A	1	5	1999 Sugar %	1	N	1999 la (ppm)	i
		Mean	%	P-val	Mean	.%	P-val	Mean	*	P-val	Mean	%	P-val	Mean	%	P-val	Mean	5	P-va
ACH 309	220	272.13	95	0.01	5984.28	95	0.13	1.32	105	0.09	22.11	100	1.00	14.93	96	0.01	299.54	97	0
ACH 921	234	296.44	104	0.03		104	0.26	1.24	99	0.73	22.11	100	0.90	16.05	103	0.02	331.01	107	0
ACH 952	214	303.16	106	0.00	7134.73	113	0.00	1.21	96	0.19	23.58	107	0.03	16.37	105	0.00	281.22	91	0.
ACH 953	230	294.82	103	0.06		104	0.29	1.38	110	0.00	22.32	101	0.77	16.12	104	0.01	334 15	108	0.
Contract of the local division of the local	222	295.54	103	0.04		115	0.00	1.25	99	0.75	24.58	111	0.00	16.02	103	0.03	301.72	98	0
ACH 999										0.82		98	0.47	15.54	100	0.99	395.25	128	0
Beta 6904	233	285.86	100	0.96		98	0.57	1.27	101		21.62								
Beta M5216	224	277.27	97	0.09		89	0.00	1.38	109	0.00	20.10	91	0.00]	15.23	98	0.17	328.32	107	0.
Beta M813	221	302.15	106	0.00	6911.42	109	0.01	1.28	102	0.59	22,78	103	0.33	16.37	105	0.00	270.58	86	0.
Beta M814	239	313.57	110	0.00	7052.56	112	0.00	1.14	91	0.00	22.50	102	0.57	16.83	108	0.00	254.91	83	.0.
Beta M815	217	289.99	102	0.37	6507.00	103	0.35	1.26	100	0.99	22.43	101	0.64	15.77	101	0.31	335.26	109	0.
Beta M931	231	277.26	97	0.09	5916.07	194	0.07	1.26	100	0.95	21,30	96	0.23	15.12	97	0.06	374.77	122	0.
Beta M932	237	302.41	106	0.00	6529.63	103	0.33	1.26	100	0.95	21.65	96	0.49	16.38	105	0.00	337.63	110	0
Filler 1	240	289.43	101	0.44	5517.25	87	0.00	1.13	90	0.00	19.06	86	0.00	15.62	100	0.73	252.72	82	0.
Filler 2	241	285.53	100	0.98	5661.25	93	0.05	1.27	101	0.67	20.61	93	0.03	15.55	100	0.97	309.95	101	0.1
Filler 3	242	258.89	91	0.00	5426.15	66	0.00	1.30	104	0.24	20.96	95	0.09	14.25	92	0.00	347.99	113	0.0
HM 1642	228	281.17	98	0.36	7479.00	118	0.00	1.26	100	0.96	26.57	120	0.00	15.30	. 98	0.29	301.30	98	0.1
HM 1643	238	296.73	104	0.02	6361.95	101	0.84	1.06	84	0.00	21.47	97	0.34	15.89	102	0.12	309.88	101	0.1
	223		95				0.10		119				0.00		97				0.
HM 1845		271.22		0.00	6681.10	106		1.49		0.00	24.60	111		15.05		0.03	280 75	91	
HM 7083	215	277.55	97	0.10	6289.75	100	0.90	1.34	106	0.04	22.61	102	0.47	15.22	98	0.16	400.15	130	0.
HM 7089	216	285.90	100	0.96	7165.29	113	0.00	1.22	97	0.31	25.04	113	0.00	15.50	100	0.87	238.62	77	0
HM 7097	227	279.97	98	0.25	6526.05	103	0.34	1.21	96	0.18	23.26	105	0.09	15.20	98	0.13	253.12	82	0
HM 7100	236	278.48	97	0.14	6407.15	101	0.68	1.22	97	0.33	22.97	104	0.21	15.15	97	9.08	253.63	82	0.
HM 7101	232	282.63	99	0.54	6565.90	104	0.25	1.19	94	0.07	23.25	105	0.10	15.33	99	0.34	239.39	78	.0.
HM E26	235	279.98	98	0.25	5642.59	89	0.00	1.15	92	0.01	20.22	91	0.01	15.10	98	0.09	355.06	115	0.
HM E38	219	281.51	99	0.40	6047.36	96	0.21	1.30	103	0.31	21.50	97	0.36	15.37	99	0.44	304.11	99	0.
HM Hector	226	288.05	101	0.62	6061.21	96	0.28	1.28	102	0.53	21.12	95	0.14	15.68	101	0.53	326.14	106	0.4
HM RH5	213	283.55	90	0.67	5658.83	93	0.04	1.20	95	0.111	20.67	93	0.03	15.38	99	0.46	358.09	116	0.0
Seedex Laser	229	276.10	97	0.05	5332.47	84	0.00	1.31	104	0.17	19.27								
												87	0.00	15.12	97	0.06	279.48	91	0.1
Seedex SX 1017	218	289.53	101	0.43	5726.13	91	0.01	1.21	96	0.18	19.87	90	0.00	15.68	101	0.53	253.89	82	0.0
Van der Have H66454	225	272.50	95	0.01	0300.02]	101	0.82	1.36	108]	0.01	23:43	106	0.06	14.98	96	0.01	335.04	109	0.
Check of Mean		285.64			6318.27			1.26			22.12			15.54			308.16		
		4.18			8.54			7.09			7.56		1	3.51			16.8		
					an inches						3.33**			.80**			4.17**		
F Value		5.48**			6.76**			4.95**											
F Value Mean LSD (0.05)		5.48** 13.89	5		615.51	10	3	0.11	9	4	1.93	9		0,63	4		62.27	20	
F Value Mean LSD (0.05)		5.48**	5 6			10 13	3		9 11	1		9 12			4 5			20 27	
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry	Source	5.48 <sup>++</sup> 13.89 18.34 K			615.51 812.85		N	0.11 0.14			1.93 2.55			0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01)		5.48** 13.89 18.34	6 1999	P-val	615.51 812.85	13 1999		0.11 0.14	11 1999	P-val	1.93 2.55	12 1999	P-val	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309	Source	5.48** 13.89 18.34 K Mean 2302.57	6 1999 (ppm) % 111	P-val	615.51 812.85 Am Mean 306.74	13 1999 N (ppm %	N	0.11 0.14 Bo	11 1999 Alters %		1 93 2.55 Tr	12 1999 are (%)		0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309	Source	5.48** 13.69 18.34 K Mean 2302.57 2093.30	6 1999 (ppm) %	P-val	615.51 812.85 Am Mean	13 1999 N (ppm %	n) P-val	0.11 0.14 Bo Mean	11 1999 Alters %		1.93 2.55 Tr Mean	12 1999 tre (%)	P-val	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309	Source	5.48** 13.89 18.34 K Mean 2302.57	6 1999 (ppm) % 111	P-val	615.51 812.85 Am Mean 306.74	13 1999 N (ppm %	n) P-val 0.85	0.11 0.14 Bo Mean	11 1999 Alters %		1 93 2 55 T: Mean 5 89	12 1999 are (%) %	P-val 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952	Source 220 234	5.48** 13.69 18.34 K Mean 2302.57 2093.30	6 (ppm) 76 111 101	P-val 0.00 0.83	615.51 812.85 Am Mean 306.74 288.75	13 1999 N (ppm % 99 93	n) P-val 0.85 0.23]	0.11 0.14 Bo Mean	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3.41	12 1999 are (%) % 111 64 77	P-val 0.55 0.05 0.20	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 953	Source 220 234 214 230	5.48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2349.87	6 (ppm) % 111 101 08 113	P-val 0.00 0.83 0.55 0.00	615.51 812.85 Am Mean 306.74 289.75 293.12 325.27	13 1999 N (ppm % 99 03 94 105	P-val 0.85 0.23 0.34 0.40	0.11 0.14 Bo Mean 0.00 0.00 0.00	11 1999 Alters %		1 93 2 55 Tr Mean 5.89 3.41 4.08 4.08	12 1999 are (%) % 111 64 77 77	P-val 0.55 0.05 0.20 0.20	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 999	Source 220 234 214 230 222	5.48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2349.87 2145.49	6 (ppm) % 111 101 98 113 103	P-val 0.00 0.83 0.55 0.00 0.32	615.51 812.85 Am 306.74 2893.12 325.27 285.17	13 1999 N (ppm % 99 03 94 105 92	P-val 0.85 0.23 0.34 0.40 0.16	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00	11 1999 Alters %		1 93 2 55 T: Mean 5.89 3.41 4.08 4.08 4.39	12 1999 are (%) 111 64 77 77 83	P-val 0.55 0.05 0.20 0.20 0.34	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 952 ACH 990 Beta 990	Source 220 234 214 230 222 233	5.48** 13.89 18.34 K Mean 2302.57 2093.30 2093.55 2349.87 2145.49 1991.06	6 1999 (ppm) 55 111 101 98 113 103 96	P-val 0.00 0.83 0.55 0.00 0.32 0.19	615.51 812.85 Am 306.74 288.75 293.52 325.27 285.17 305.19	13 1999 N (ppm 54 99 93 94 105 92 98	P-val 0.85 0.23 0.34 0.40 0.16 0.78	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00	11 1999 Alters %		1 93 2 55 Tr Mean 5.89 3.41 4.08 4.08 4.39 6.00	12 1999 are (%) % 111 64 77 77 83 113	P-val 0.55 0.05 0.20 0.20 0.34 0.47	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 952 ACH 953 ACH 999 Bets M5216	Source 220 234 214 230 222 222 223 222 223	5.48** 13.09 18.34 K Mean 2302.57 2063.30 2038.55 2349.87 2145.49 1991.08 2234.61	6 1999 (ppm) 54 111 101 98 113 103 96 108	P-val 0.00 0.63 0.55 0.00 0.32 0.19 0.02	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 362.92	13 1999 N (ppm 54 09 03 94 105 02 98 114	n) P-val 0.85 0.23 0.34 0.40 0.165 0.78 0.02	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00	11 1999 Alters %		1 93 2 55 Tr Mean 5.89 3.41 4.08 4.08 4.08 4.39 6.00 6.00	12 1999 are (%) % 111 64 77 77 83 113 113	P-val 0.55 0.20 0.20 0.20 0.20 0.20 0.47 0.47	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 990 Beta 9604 Beta M5216 Beta M513	Source 220 234 214 230 222 234 222 234 224 221	5.48** 13.89 18.34 K Mean 2302.57 2002.50 2003.55 2349.87 2145.49 1991.06 1292.60 2234.61 2205.07	6 (ppm) 54 111 08 113 103 06 108 106	P-val 0.00 0.93 0.55 0.00 0.32 0.19 0.02 0.02	615.51 812.85 Am 306.74 289.35 299.32 325.27 285.17 305.19 352.92 303.23	13 1999 N (ppm 54 99 94 105 92 98 114 98	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.70 0.70	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3.41 4 08 4 08 4 39 6 00 6 0.00 4 11	12 1999 are (%) 55 111 64 77 77 83 113 113 77	P-val 0.55 0.20 0.20 0.34 0.47 0.47 0.21	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 3009 ACH 921 ACH 952 ACH 953 ACH 953 ACH 993 Beta 990 Beta M5216 Beta M516 Beta M514	Source 220 234 214 230 222 233 224 221 221 221 239	5.48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2340.87 2145.49 1991.08 2234.61 2205.07 1992.73	6 (ppm) 74 111 101 08 113 103 96 108 108 108 91	P-wal 0.00 0.83 0.55 0.00 0.32 0.19 0.06 0.06 0.01	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 305.29 303.23 291.51	13 1999 N (ppm 54 99 93 105 92 98 114 98 94	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.70 0.30	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1.93 2.55 Tr Mean 5.89 3.41 4.08 4.08 4.08 4.39 6.00 6.00 6.00 6.00 4.11 4.53	12 1999 are (%) 111 64 77 77 83 113 113 77 85	P-val 0.55 0.06 0.20 0.34 0.47 0.47 0.21 0.21	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 952 ACH 952 ACH 999 Beta 5004 Beta M5216 Beta M513 Beta M515	Source 220 234 214 233 222 233 224 221 239 229 217	5 48** 13.89 18.34 K Mean 2302.57 2093.55 2340.87 2145.49 1991.06 2234.61 2205.07 1892.73 1944.60	6 (ppm) 76 111 101 103 103 103 106 106 91 91 94	P-val 0.00 0.65 0.05 0.19 0.02 0.06 0.01 0.05	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 305.19 305.29 305.29 305.29 305.63	13 1999 N (ppm 54 99 93 94 105 92 98 914 98 98 98 94 108	n) P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.02 0.70 0.30 0.30 0.36	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1.93 2.55 Mean 5.89 3.41 4.08 4.08 4.08 4.08 4.08 6.00 6.00 6.00 4.11 4.53 4.30	12 1999 are (%) 111 64 77 77 83 113 113 77 85 81	P-val 0.55 0.20 0.20 0.20 0.20 0.20 0.20 0.20	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 990 Beta M51 Beta M515 Beta M515 Beta M515 Beta M931	Source 2201 234 214 230 2322 233 224 221 233 224 221 233	5.48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2340.87 2145.49 1991.08 2234.61 2205.07 1892.73 1944.60 2089.25	6 (ppm) 55 111 101 08 103 06 108 108 108 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.32 0.99 0.02 0.06 0.01 0.05 0.87	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 352.52 291.51 335.63 283.64	13 1999 N (ppm % 99 03 94 105 92 98 114 98 98 94 108 94	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.02 0.70 0.30 0.30 0.30 0.14	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1.93 2.55 Tr Mean 5.89 3.41 4.08 4.08 4.08 4.39 6.00 6.00 6.00 6.00 4.11 4.53	12 1999 are (%) 111 64 77 77 83 113 113 77 85	P-val 0.55 0.06 0.20 0.34 0.47 0.47 0.21 0.21	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 990 Beta M5216 Beta M5216 Beta M515 Beta M615 Beta M615 Beta M631 Beta M631	Source 220 234 214 230 222 233 224 221 239 221 239 217 217 237	5 48** 13.89 18.34 K Mean 2302.57 2063.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.07 1994.40 2208.23 1944.00 2089.25 2105.30	6 (ppm) 74 111 101 08 113 103 06 108 108 108 106 91 94 101 101	P-val 0 00 0 83 0 55 0 00 0 32 0 09 0 02 0 09 0 00 0 00 0 00 0 05 0 85 0 89	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 352.92 303.23 291.51 335.63 283.64 293.94	13 1999 N (ppm 54 99 93 94 105 92 98 914 98 98 98 94 108	n) P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.02 0.70 0.30 0.30 0.36	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1.93 2.55 Mean 5.89 3.41 4.08 4.08 4.08 4.08 4.08 6.00 6.00 6.00 4.11 4.53 4.30	12 1999 are (%) 111 64 77 77 83 113 113 77 85 81	P-val 0.55 0.20 0.20 0.20 0.20 0.20 0.20 0.20	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 922 ACH 952 ACH 952 ACH 999 Beta M52 Beta M52 Beta M515 Beta M515 Beta M53 Beta M53 Beta M53	Source 2201 234 214 230 2322 233 224 221 233 224 221 231	5.48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2340.87 2145.49 1991.08 2234.61 2205.07 1892.73 1944.60 2089.25	6 (ppm) 55 111 101 08 103 06 108 108 108 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.32 0.99 0.02 0.06 0.01 0.05 0.87	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 352.52 291.51 335.63 283.64	13 1999 N (ppm % 99 03 94 105 92 98 114 98 98 94 108 94	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.02 0.70 0.30 0.30 0.30 0.14	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1.93 2.55 Mean 5.89 3.41 4.08 4.39 6.00 6.00 4.11 4.63 4.30 6.00 0.11	12 1999 are (%) 111 64 113 113 113 113 113 113 113 113 113 11	P-val 0.55 0.05 0.20 0.34 0.47 0.21 0.21 0.21 0.29 0.41	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 922 ACH 952 ACH 952 ACH 999 Beta M52 Beta M52 Beta M515 Beta M515 Beta M53 Beta M53 Beta M53	Source 220 234 214 230 222 233 224 221 239 221 239 217 237	5 48** 13.89 18.34 K Mean 2302.57 2063.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.07 1994.40 2208.23 1944.00 2089.25 2105.30	6 (ppm) 74 111 101 08 113 103 06 108 108 108 106 91 94 101 101	P-val 0 00 0 83 0 55 0 00 0 32 0 09 0 02 0 09 0 00 0 00 0 00 0 05 0 85 0 89	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 352.92 303.23 291.51 335.63 283.64 293.94	13 1999 N (ppm 5% 99 03 94 105 02 98 114 98 94 108 94 05	P-val 0.85 0.23 0.40 0.16 0.78 0.78 0.78 0.70 0.30 0.14 0.36	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 08 4 08 4 08 4 08 6 00 6 00 6 00 6 00 6 00 6 00 6 00 6	12 1999 are (%) 111 64 77 77 83 113 113 113 113 77 85 81 115 72	P-val 0.55 0.20 0.20 0.20 0.34 0.47 0.47 0.47 0.41 0.29 0.41 0.29 0.41 0.12	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 922 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 Beta M51 Beta M513 Beta M515 Beta M515 Beta M515 Beta M515 Filer 1 Filer 1 Filer 2	Source 220 234 214 230 222 233 224 221 233 224 217 233 237 237 237 240	5 48** 13.89 18.34 K Mean 2302.57 2038.55 2349.87 2145.49 1991.06 2234.61 2234.61 2234.61 2234.61 2234.61 2234.61 2234.61 1991.66 2105.30	6 (ppm) 75 1111 101 08 113 103 96 106 106 91 94 101 101 101 101	P-val 0.00 0.85 0.00 0.32 0.06 0.01 0.05 0.87 0.69 0.02 0.37	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 335.252 291.51 335.63 283.64 293.64 293.64 293.64 293.64 336.36	13 1999 N (ppm 54 99 94 105 92 98 94 105 98 94 108 98 94 108 91 98 94	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.02 0.76 0.02 0.70 0.36 0.14 0.36 0.027	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3 41 4 08 4 08 4 08 4 08 4 08 4 08 4 08 4 08	12 1999 3re (%) % 111 64 77 77 77 83 113 113 113 113 113 85 81 115 72 85 81 115 72 104 165	P-val 0.55 0.20 0.20 0.34 0.47 0.47 0.21 0.41 0.21 0.41 0.21 0.41 0.12 0.41 0.12 0.00	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 3009 ACH 921 ACH 952 ACH 952 ACH 953 ACH 999 Beta M5216 Beta M5216 Beta M515 Beta M515	Source 220 234 214 230 222 233 222 233 224 237 239 217 239 241 237 240 241 241 241	5 48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.07 1991.06 2234.61 2205.07 1991.69 2019.53 1916.69 2019.51	6 (ppm) % 111 101 08 113 103 108 108 108 108 108 108 108 108 108 101 94 101 101 94 101	P-val 0 00 0 83 0 55 0 00 0 32 0 19 0 02 0 06 0 01 0 05 0 87 0 89 0 02 0 37 0 20 0 32	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.77 305.19 335.63 285.63 291.51 335.63 283.64 293.94 277.66 338.36 307.46	13 1999 N (ppm 54 09) 03 94 105 98 114 98 94 105 98 114 98 991 95 90 109	P-val 0.55 0.23 0.34 0.40 0.76 0.76 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.30 0.44 0.70	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 09 6 00 6 00 6 00 6 00 6 00 6 00 6 00 4 11 4 53 4 30 6 54 8 74 8 74 8 74 8 74 8 74	12 1999 are (%) % 111 64 77 77 77 77 83 83 113 113 113 77 85 81 115 72 104 165 156	P-val 0.55 0.20 0.20 0.20 0.34 0.47 0.47 0.47 0.41 0.29 0.41 0.24 0.41 0.24 0.41 0.24 0.41 0.24 0.41 0.26 0.20	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 922 ACH 952 ACH 952 ACH 999 Beta M52 Beta M52 Beta M515 Beta M515 Beta M515 Beta M532 Filler 3 Filler 3	Source 2201 234 236 2302 2222 233 2224 2211 2309 217 233 224 2217 233 224 2217 233 224 241 223 241 241 2225	5 48** 13.89 18.34 K Mean 2302.57 2093.55 2349.87 2145.49 1991.06 2234.61 2205.07 1994.60 2095.30 2105.30 2105.30 2105.50 2105.02 2076.09	6 1999 (ppm) 54 111 101 08 113 103 96 108 91 94 101 102 97 104 101 102 97 104 100 100 100 100 100 100 100	P-val 0.00 0.83 0.55 0.00 0.02 0.09 0.02 0.06 0.05 0.87 0.69 0.02 0.37 0.20 0.37	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 335.25 291.51 335.25 291.51 335.64 293.64 293.64 293.64 335.63 293.64 335.63 307.46 307.46	13 1999 N (ppm 54 99) 93 94 105 92 98 94 105 98 94 108 94 108 94 108 94 108 94 108 94	P-eal 0.85 0.23 0.34 0.40 0.16 0.78 0.70 0.30 0.16 0.02 0.70 0.30 0.14 0.36 0.36 0.14 0.36 0.36 0.14 0.36 0.45	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 00 4 11 3 80 6 11 3 80 6 11 3 85 4 8 74 8 8 74 8 29 3 51	12 1999 are (%) 111 64 77 77 83 113 113 113 113 113 85 81 115 85 81 115 66	P-val 0.55 0.05 0.20 0.34 0.47 0.21 0.21 0.29 0.41 0.29 0.41 0.29 0.41 0.20 0.41 0.20 0.41 0.20 0.41 0.20 0.000 0.00	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 922 ACH 922 ACH 952 ACH 952 ACH 953 ACH 953 Beta M513 Beta M513 Beta M515 Beta M515 Beta M515 Beta M515 Filer 1 Filer 2 Filer 3 HM 1642 HM 1642	Source 2201 234 214 222 233 222 233 224 221 239 217 237 241 241 241 241 241 241 241 241 241 241	5.48** 13.89 18.34 <b>Mean</b> 2302.57 2093.30 2038.55 2340.87 2145.49 1991.08 2234.61 2205.07 1892.73 1946.60 2089.25 2105.30 1946.60 2089.25 2105.30 1946.60 2019.51 2165.02 2076.05 1677.24	6 1999 (ppm) % 111 101 08 103 968 108 108 108 108 108 108 108 10	P-val 0.00 0.83 0.55 0.00 0.02 0.06 0.01 0.05 0.87 0.69 0.02 0.37 0.20 0.37 0.20 0.97 0.07	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 352.52 291.51 335.63 283.64 293.64 293.64 293.64 293.64 293.64 293.64 293.64 297.68 338.56 207.46 331.46 207.46 201.61 207.46	13 1999 N (ppm 54 99 94 105 92 98 114 94 108 94 108 94 108 94 108 94 108 94 108 94 108 94	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.23 0.23 0.24 0.02 0.23 0.24 0.42 0.25 0.23 0.24 0.42 0.25 0.23 0.24 0.25 0.23 0.24 0.25 0.25 0.23 0.24 0.25	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3 41 4 08 4 08 4 39 6 00 6 00 6 00 4 11 4 53 4 30 6 00 6 11 3 80 6 54 4 30 6 11 3 80 6 574 8 74 8 74 8 74 8 74 8 74 8 08	12 1999 are (%) % 111 64 77 83 113 113 113 113 113 85 81 115 72 104 165 166 115	P-val 0.55 0.06 0.20 0.34 0.47 0.47 0.47 0.47 0.41 0.49 0.41 0.29 0.41 0.20 0.41 0.20 0.41 0.20 0.41 0.20 0.00 0.41 0.20 0.00 0.21 0.21 0.21 0.21 0.21 0.2	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 3009 ACH 921 ACH 952 ACH 952 ACH 953 ACH 999 Beta M5216 Beta M5216 Beta M515 Beta M515	Source 220 224 214 233 222 233 222 233 224 237 237 240 237 241 242 225 242 225 8 223	5 48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.55 7349.87 2145.49 1991.05 2015.30 1916.69 2016.50 2016.50 2016.50 2016.50 2016.724 2038.85 2017.24 2038.85 2018.50	6 1999 (ppm) 34 111 101 103 103 106 106 106 91 101 101 101 101 101 101 101	P-val 0.00 0.83 0.55 0.00 0.32 0.19 0.02 0.06 0.01 0.05 0.07 0.69 0.02 0.37 0.20 0.37 0.59 0.02 0.55 0.00 0.02 0.55 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.05 0.02 0.05	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.77 305.19 303.23 291.51 335.63 283.64 293.94 203.94	13 1999 N (ppm % 99 03 94 105 92 98 105 92 94 105 92 94 105 92 94 105 92 94 105 92 94 105 92 94 105 94 105 92 94 105 92 94 105 90 109 90 109 90 109 109 109 1	P-val 0.55 0.23 0.34 0.40 0.76 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.30 0.44 0.36 0.70 0.72 0.70 0.72 0.75 0.72 0.75 0.72 0.75 0.72 0.75 0.72 0.75 0.72 0.75 0.72 0.72 0.75 0.72 0.75 0.72	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 08 4 09 6 00 6 00 6 00 6 00 6 00 6 00 6 00 6	12 1999 370 (%) 111 64 113 113 113 777 83 113 113 777 85 81 81 81 81 81 85 165 156 66 60 115 94	P-val 0.55 0.20 0.20 0.20 0.34 0.47 0.47 0.41 0.29 0.41 0.41 0.12 0.81 0.00 0.00 0.00 0.00 0.00 0.76	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 922 ACH 952 ACH 952 ACH 952 ACH 952 Beta M5216 Beta M513 Beta M513 Beta M515 Beta	Source 2201 234 2300 2222 2330 2224 2330 2224 2337 2411 2411 2411 2411 2412 2411 2412 2411 2412 2412 2412 2412 2412 2414 2417 2414 2417 2417	5 48** 13.89 18.34 K Mean 2302.57 2093.55 2038.55 2038.55 2038.55 2038.55 2038.55 2038.55 2038.55 2038.55 2038.55 2048.61 2204.61 2204.61 2204.61 2048.65 2056.09 1944.60 2016.50 2016.50 1946.60 2016.50	6 1999 (ppm) 75 111 101 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.02 0.02 0.05 0.87 0.65 0.87 0.69 0.02 0.37 0.02 0.37 0.02 0.37 0.00 0.02 0.37 0.00 0.02 0.37 0.00 0.02 0.37 0.00 0.02 0.05 0.87 0.00 0.02 0.05 0.87 0.00	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 335.63 283.64 293.64 203.64	13 1999 N (ppm % 99) 03 94 105 02 98 94 105 02 98 94 105 94 108 99 100 89 91 100 89 97 100	P-eal 0.85 0.23 0.34 0.40 0.16 0.78 0.70 0.30 0.16 0.02 0.70 0.30 0.14 0.36 0.36 0.14 0.36 0.44 0.36 0.44 0.45 0.40 0.45 0.40 0.45 0.42 0.45 0.40 0.45 0.42 0.45 0.42 0.45 0.42 0.45 0.42 0.45 0.42 0.45 0.42 0.45 0.42 0.45 0.42 0.45 0.42 0.45	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 00 4 11 4 53 4 30 6 00 4 11 3 80 6 11 3 80 6 11 3 85 4 8 74 8 74 8 74 8 74 8 74 8 74 8 74 8	12 1999 are (%) % 111 64 77 77 81 113 113 113 113 85 81 113 113 113 113 113 113 113	P-val 0.55 0.05 0.20 0.34 0.47 0.21 0.21 0.29 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.20 0.41 0.00 0.00 0.00 0.00 0.00 0.41 0.00 0.00 0.00 0.00 0.00 0.41 0.00	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 963 ACH 999 Beta 0904 Beta 0904 Beta 0904 Beta 0904 Beta 0904 Beta 0904 Beta 0904 Beta 0905 Beta 0915 Beta	Source 220 234 214 222 223 223 223 223 223 223 224 221 239 241 241 241 241 241 241 241 241 241 241	5 48** 13.89 18.34 <b>Mean</b> 2302.57 2093.30 2038.55 2340.87 2145.49 1991.06 2234.61 2205.07 1892.73 1944.90 2089.25 2105.30 1994.90 2089.25 2105.30 1996.85 2076.09 1077.24 2076.09 1077.24 2026.85 2218.33	6 1999 (ppm) 54 1111 101 103 96 108 108 108 108 108 108 109 94 1011 1011 1011 1011 1011 1011 1011 1011 1011 1011 1015 108 95 108 108 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.02 0.06 0.01 0.06 0.01 0.06 0.01 0.06 0.03 0.69 0.03 0.20 0.37 0.20 0.000 0.00 0.00 0.00 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.0000000 0.00000000	615.51 812.85 Am 306.74 288.75 293.12 325.27 305.19 352.62 285.17 303.23 335.63 291.51 335.64 293.64	13 1999 N (ppm % 99] 94 94 105 62 98 94 105 62 98 94 105 94 94 94 94 105 94 94 94 94 94 94 94 94 94 94 94 94 94	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.02 0.70 0.36 0.14 0.36 0.14 0.36 0.14 0.36 0.14 0.46 0.14 0.36 0.14 0.46 0.14 0.36 0.56 0.56 0.56 0.56 0.02 0.02 0.56 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3 41 4 08 4 08 4 08 4 08 4 08 4 08 4 08 4 08	12 1999 are (%) 1111 64 1117 77 777 777 83 1133 1133 1133 113 1135 72 104 1055 156 660 115 156 156 660 115 156 84	P-val 0.55 0.06 0.20 0.34 0.47 0.47 0.41 0.29 0.41 0.21 0.41 0.29 0.41 0.12 0.41 0.20 0.00 0.00 0.41 0.20 0.20 0.34 0.41 0.21 0.21 0.21 0.21 0.21 0.21 0.20 0.20 0.20 0.20 0.34 0.41 0.21	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 300 ACH 300 ACH 921 ACH 921 ACH 921 ACH 921 ACH 990 Beta M52 Beta M52 Beta M515 Beta M	Source 220 224 214 233 222 233 224 237 237 240 247 237 240 241 237 241 242 228 242 223 241 242 225 245 245 245 245 245 245 245 245	5 48** 13.89 18.34 K Mean 2302.57 2062.30 2038.55 2340.87 2145.49 1991.06 2234.61 2208.55 1991.06 2234.61 2205.07 1994.60 2019.25 2105.30 1916.69 2019.51 2015.20 1916.69 2019.51 2015.20 1916.69 2019.51 2017.24 2058.55 2218.53 2008.61 2019.20 2009.20 2019.20 2009.20 2019.20 2009.20 2009.20 2019.20 2009.20 2009.20 2019.20 2009.20	6 1999 (ppm) 76 1111 1011 008 113 108 108 108 108 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.32 0.19 0.02 0.06 0.01 0.05 0.07 0.69 0.02 0.37 0.20 0.37 0.20 0.37 0.20 0.37 0.30 0.32 0.55 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.00 0.02 0.05 0.02 0.03 0.05 0.02 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 303.23 291.51 335.63 283.64 293.94 293.94 293.94 293.94 293.94 293.94 293.94 293.94 293.94 293.94 293.94 293.94 293.94 207.68 338.36 307.46 311.49 201.10 351.42 306.17	13 1999 N (ppm 5% 99) 94 94 95 94 105 98 94 105 98 94 114 98 94 105 90 109 96 90 109 96 90 90 90 90 90 90 90 90 90 90 90 90 91 94 91 94 94 91 94 94 94 94 94 94 94 94 94 94 94 94 94	P-val 0.55 0.23 0.34 0.40 0.76 0.76 0.70	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 08 4 39 6 00 6 00 6 00 6 00 6 00 6 00 6 00 6 0	12 1999 are (%) % 111 64 77 77 81 113 113 113 113 85 81 115 66 155 156 66 115 104 106	P-val 0.55 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.41 0.41 0.29 0.41 0.44	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 921 ACH 952 ACH 952 ACH 953 Beta M5216 Beta M513 Beta M513 Beta M513 Beta M515 Beta M516 Beta M516 Beta M516 Beta M517 Beta M518 Beta M518 Bet	Source 2201 234 236 230 2222 233 2224 233 2224 237 241 237 241 241 241 241 241 241 241 241 241 241	5 48** 13.89 18.34 <b>Mean</b> 2302.57 2093.30 2038.55 2340.87 2145.49 1991.06 2234.61 2203.655 2340.87 2145.49 1991.06 2234.61 2203.65 2195.30 1991.69 2015.30 2165.02 2076.09 1977.24 2038.55 2218.33 2020.19 2008.81 2008.01	6 1999 (ppm) 74 111 101 008 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.02 0.02 0.05 0.87 0.65 0.87 0.69 0.02 0.37 0.02 0.03 0.02 0.37 0.02 0.37 0.02 0.03 0.02 0.37 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.03 0.02 0.37 0.00 0.05 0.03 0.05 0.05 0.02 0.05	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 335.63 283.64 293.94 335.63 283.64 293.94 293.64 293.94 293.64 293.94 293.64	13 1999 N (ppr 99 93 94 94 94 94 105 92 94 94 94 105 94 94 94 105 90 99 90 100 84 113 97 100 89 90 100 80 80 80 80 80 80 80 80 80 80 80 80 8	P-real 0.85 0.23 0.34 0.40 0.16 0.78 0.70 0.30 0.14 0.36 0.14 0.36 0.14 0.36 0.14 0.36 0.44 0.01 0.64 0.64 0.64 0.65 0.64 0.65 0.64 0.65 0.65 0.65 0.65 0.70 0.72 0.64 0.64 0.65 0.64 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.55	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 00 4 11 4 53 4 30 6 00 4 11 3 80 6 11 3 80 6 11 3 85 4 8 74 8 74 8 74 8 74 8 74 8 74 8 74 8	12 1999 are (%) % 1111 64 64 77 77 77 81 3 113 113 113 77 85 81 115 85 81 115 66 66 115 96 84 108 84 108 109 109 100 100 100 100 100 100 100 100	P-val 0.55 0.05 0.20 0.34 0.47 0.21 0.29 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.20 0.41 0.29 0.41 0.20 0.37 0.37	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 963 ACH 990 Beta M513 Beta M516 Beta M513 Beta M514 Beta M514 Beta M514 Beta M515 Beta M	Source 220 234 214 222 223 223 224 221 239 224 221 239 241 239 241 241 241 242 241 241 241 241 241 241	5 48** 13.89 18.34 <b>Mean</b> 2302.57 2093.30 2038.55 2340.87 2145.49 1991.06 2234.61 2205.07 1892.73 1944.00 2089.25 2105.30 1991.69 2018.51 2105.02 2076.09 1677.24 2636.85 2218.33 2105.02 2020.19 2020.01 1972.59	6 1999 (ppm) 74 111 101 08 113 96 91 103 96 91 103 96 91 103 96 91 104 101 104 104 104 104 97 97 97 97 97 97 97 97 95	P-val 0.00 0.83 0.55 0.00 0.02 0.05 0.55	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 335.252 285.64 293.74 293.7	13 1999 N (ppm 5% 99) 03 94 105 62 99 91 114 94 94 108 94 94 108 94 109 91 90 95 90 90 90 90 90 90 90 100 90 100 90 100 10	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.02 0.88 0.44 0.44 0.44 0.45 0.25 0.70 0.36 0.02 0.70 0.36 0.02 0.70 0.16 0.76 0.02 0.70 0.16 0.02 0.02 0.02 0.05 0.02 0.05 0.02 0.02 0.02 0.05 0.02 0.02 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 08 4 39 6 00 6 00 6 00 6 00 6 00 6 00 6 00 6 0	12 1999 are (%) % 111 64 777 77 83 113 113 113 115 65 85 81 115 156 66 66 66 84 196 84 96	P-val 0.55 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.41 0.41 0.29 0.41 0.44	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 3009 ACH 921 ACH 921 ACH 921 ACH 952 ACH 993 Beta M5216 Beta M5216 Beta M513 Beta M515 Beta M515	Source 220 234 214 233 222 233 222 233 224 237 237 240 241 237 241 242 228 240 241 237 241 242 228 246 242 255 215 215 227 236 227 235	5 48** 13.89 18.34 K Mean 2302.57 2062.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.55 1991.06 2234.61 2208.55 1991.06 2234.61 2208.55 1991.69 2015.30 1916.69 2016.51 2017.09 1677.24 2638.85 2218.33 2008.81 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 2008.95 2008.95 2015.30 2015.30 2015.30 2015.30 2015.30 2015.30 2015.30 2016.51 2016.51 2016.51 2016.51 2016.51 2017.51 2018.55 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2015.55	6 1999 (ppm) 74 111 101 008 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.02 0.02 0.05 0.87 0.65 0.87 0.69 0.02 0.37 0.02 0.03 0.02 0.37 0.02 0.37 0.02 0.03 0.02 0.37 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.03 0.02 0.37 0.00 0.05 0.03 0.05 0.05 0.02 0.05	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 303.23 291.51 305.29 303.23 291.51 305.63 293.94 293.64 293.94 297.68 307.46	13 1999 N (ppr 99 93 94 94 94 94 105 92 94 94 94 105 94 94 94 105 90 99 90 100 84 113 97 100 89 90 100 80 80 80 80 80 80 80 80 80 80 80 80 8	P-real 0.85 0.23 0.34 0.40 0.16 0.78 0.70 0.30 0.14 0.36 0.14 0.36 0.14 0.36 0.14 0.36 0.44 0.01 0.64 0.64 0.64 0.65 0.64 0.65 0.64 0.65 0.65 0.65 0.65 0.70 0.72 0.64 0.64 0.65 0.64 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.55	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	11 1999 Alters %		1 93 2 55 Tr Mean 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 00 4 11 4 53 4 30 6 00 4 11 3 80 6 11 3 80 6 11 3 85 4 8 74 8 74 8 74 8 74 8 74 8 74 8 74 8	12 1999 are (%) % 1111 64 64 77 77 77 81 3 113 113 113 77 85 81 115 85 81 115 66 66 115 96 84 108 84 108 109 109 100 100 100 100 100 100 100 100	P-val 0.55 0.05 0.20 0.34 0.47 0.21 0.29 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.20 0.41 0.29 0.41 0.20 0.37 0.37	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 952 ACH 952 ACH 952 ACH 952 ACH 953 Beta M5216 Beta M513 Beta M514 Beta M515 Beta M516 Beta M516 Beta M516 Beta M517 Beta M517 Beta M518 Beta M518 B	Source 220 234 214 233 222 233 222 233 224 237 237 240 241 237 241 242 228 240 241 237 241 242 228 246 242 255 215 215 227 236 227 235	5 48** 13.89 18.34 <b>Mean</b> 2302.57 2093.30 2038.55 2340.87 2145.49 1991.06 2234.61 2205.07 1892.73 1944.00 2089.25 2105.30 1991.69 2018.51 2105.02 2076.09 1677.24 2636.85 2218.33 2105.02 2020.19 2020.01 1972.59	6 1999 (ppm) 74 111 101 08 113 96 91 103 96 91 103 96 91 103 96 91 104 101 104 104 104 104 97 97 97 97 97 97 97 97 95	P-val 0.00 0.83 0.55 0.00 0.02 0.05 0.55	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 335.252 285.64 293.74 293.7	13 1999 N (ppm 5% 99) 03 94 105 62 99 91 114 94 94 108 94 91 90 91 90 99 90 90 90 90 90 90 90 90 90 90 90	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.02 0.88 0.44 0.44 0.44 0.45 0.25 0.70 0.36 0.02 0.70 0.36 0.02 0.70 0.16 0.76 0.02 0.70 0.16 0.02 0.02 0.02 0.05 0.02 0.05 0.02 0.02 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 <b>Mean</b> 5 89 3 41 4 08 4 08 4 08 4 08 4 08 4 08 4 08 4 08	12 1999 2re (%) 111 64 77 73 113 113 113 115 72 104 105 105 105 105 66 61 105 105 105 105 115 115 115 105 10	P-val 0.55 0.20 0.20 0.20 0.34 0.47 0.47 0.41 0.21 0.41 0.21 0.41 0.22 0.41 0.12 0.41 0.20 0.41 0.21 0.41 0.20 0.34 0.41 0.21 0.41 0.21 0.41 0.22 0.34 0.41 0.21 0.41 0.21 0.41 0.21 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.41 0.41 0.42 0.41 0.42 0.41 0.42 0.41 0.42 0.41 0.42 0.41 0.42 0.41 0.42 0.44 0.41 0.42 0.44 0.41 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.44 0.42 0.42 0.43 0.42 0.43 0.42 0.42 0.43 0.37 0.37 0.34 0.36 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.37 0.36 00 0.36 0.36 0.36 00 0.36 0.36	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 952 ACH 952 ACH 952 ACH 952 ACH 953 Beta M5216 Beta M513 Beta M514 Beta M515 Beta M516 Beta M516 Beta M516 Beta M517 Beta M517 Beta M518 Beta M518 B	Source 220) 234 236 230 222 233 224 230 227 237 241 237 241 241 241 241 241 241 241 241 241 241	5 48** 13.89 18.34 K Mean 2302.57 2062.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.55 1991.06 2234.61 2208.55 1991.06 2234.61 2208.55 1991.69 2015.30 1916.69 2016.51 2017.09 1677.24 2638.85 2218.33 2008.81 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 1972.50 2008.91 2008.95 2008.95 2015.30 2015.30 2015.30 2015.30 2015.30 2015.30 2015.30 2016.51 2016.51 2016.51 2016.51 2016.51 2017.51 2018.55 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2019.55 2008.85 2015.55	6 1999 (ppm) 76 1111 1011 008 113 108 108 108 108 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.00 0.02 0.09 0.02 0.06 0.01 0.05 0.87 0.69 0.02 0.37 0.09 0.02 0.37 0.00 0.02 0.37 0.00 0.02 0.37 0.00 0.02 0.37 0.02 0.00 0.02 0.37 0.02 0.03 0.02 0.05 0.87 0.02 0.02 0.05 0.02 0.05 0.87 0.02 0.02 0.05 0.05 0.02 0.05	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 335.63 283.64 293.54 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 297.55 207.55	13 1999 N (ppr 99 93 94 94 94 105 92 94 94 94 105 94 94 94 105 90 99 90 100 100 84 113 97 100 89 90 100 100 80 80 100 100 100 100 100 100	P-eal 0.85 0.23 0.34 0.40 0.16 0.78 0.70 0.30 0.70 0.30 0.14 0.36 0.14 0.36 0.14 0.36 0.44 0.01 0.61 0.59 0.99 0.09	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	11 1999 Alters %		1 93 2 55 <b>Mean</b> 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 00 4 11 4 53 4 30 6 00 4 11 3 80 6 11 3 80 6 11 3 85 4 8 74 8 29 3 51 6 08 5 54 4 4 4 5 54 6 08 6 00 6 11 7 11 7 11 7 11 7 11 7 11 7 11 7 11	12 1999 are (%) % 1111 64 777 773 831 113 113 113 85 85 81 115 66 66 66 66 115 106 84 108 108 84 108 84 108 85 104 105 105 105 105 105 105 105 105	P-val 0.55 0.05 0.20 0.34 0.47 0.21 0.29 0.41 0.37 0.37 0.37 0.84 0.37 0.85 0.85 0.55 0.55 0.55 0.45 0.55 0.45 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 953 ACH 990 Bata M51 Bata M515 Bata M516 Bata M516 Bata M516 Bata M516 Bata M517 Bata M516 Bata M517 Bata M516 Bata M517 Bata	Source 220 234 244 227 223 223 224 221 229 217 231 224 221 239 241 241 241 241 241 241 241 241 241 241	5 48** 13.89 18.34 K Mean 2302 57 2093 30 2038 55 2349 87 2349 85 2349 85 2320 9 2020 19 2020 89 2020 80 2020 80 2020 80 2020 80 2020 80 2020 85 2020 80 2020 80 2020 85 2020 85 2036 85	6 1999 (ppm) 74 111 101 008 113 008 911 103 905 901 1007 1007 907 905 855 805 908 805 805 805 805 805 805 805 8	P-val 0.00 0.83 0.55 0.00 0.02 0.05 0.55	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 335.252 283.64 293.74 293.75 293.7	13 1999 N (ppm 99) 03 94 105 62 99 94 105 92 94 109 94 109 91 94 109 91 90 91 109 90 109 91 109 91 109 91 114 91 91 105 91 114 91 91 114 91 91 91 91 91 91 91 91 91 91	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.02 0.70 0.36 0.14 0.36 0.01 0.26 0.65 0.65 0.65 0.65 0.65 0.01 0.02 0.65 0.95	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 08 4 08 4 08 4 08 4 08 4 08	12 1999 111 5% 111 64 77 77 83 113 113 113 115 72 104 105 106 116 116 116 116 116 116 116	P-val 0.55 0.06 0.20 0.34 0.47 0.47 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.20 0.34 0.41 0.29 0.41 0.30 0.37 0.42 0.37 0.37 0.37 0.36 0.37 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.37 0.36 0.37 0.36 0.36 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.37 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.37 0.36 0.36 0.55 0.36 0.554 0.600 0.554 0.556 0.	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 3009 ACH 921 ACH 921 ACH 921 ACH 921 ACH 992 Beta M52 Beta M52 Beta M53 Beta M515 Beta	Source 220 234 214 230 222 233 222 223 224 221 223 223 224 221 223 224 224 223 224 224 223 225 215 216 227 225 225 225 225 225 225 225 225 225	5 48** 13.89 18.34 <b>Mean</b> 2302.57 2062.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.55 2349.87 2145.49 1991.06 2234.61 2208.55 2105.30 1916.69 2016.51 2017.09 1677.24 2638.85 2218.33 2008.81 2008.81 2008.81 2008.81 2008.81 2008.85 1972.50 2075.91 2035.85 1950.85	6 1999 (ppm) 74 111 08 113 101 008 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.12 0.12 0.06 0.02 0.05 0.87 0.66 0.69 0.60 0.02 0.37 0.20 0.02 0.02 0.03 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.63 285.63 285.64 291.61 336.563 285.64 291.64 291.64 291.64 291.64 291.64 307.46 307.56 307.5	13 1999 N (ppm 5% 99) 94 93 94 105 94 105 94 114 98 94 114 98 91 114 98 91 114 95 90 109 109 109 109 109 105 105 105 105 105 105 105 105	P-vai           0.85           0.23           0.340           0.16           0.702           0.700           0.700           0.700           0.700           0.701           0.702           0.702           0.703           0.704           0.705           0.705           0.706           0.707           0.708           0.709           0.700           0.701           0.712           0.888           0.641           0.590           0.961           0.961           0.961           0.961           0.961           0.791	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 08 4 08 4 08 4 08 4 08 4 08	12 1999 111 111 64 777 77 83 113 113 113 115 156 66 66 66 115 156 156 1	P-val 0.55 0.20 0.20 0.20 0.20 0.20 0.20 0.47 0.47 0.47 0.41 0.29 0.41 0.41 0.29 0.41 0.41 0.29 0.34 0.41 0.29 0.34 0.41 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 309 ACH 952 ACH 952 ACH 952 ACH 953 ACH 953 Beta M514 Beta M515 Beta M516 Beta M515 Beta M516 Beta M516 Beta M517 Beta M518 Beta M518	Source 220) 234 236) 236) 230) 2222 233) 224 230) 241 237) 241 241 241 241 241 241 241 241 241 241	5 48** 13.89 18.34 Mean 2302.57 2093.30 2038.55 2340.87 2145.49 1991.06 2234.61 22038.55 2340.87 2145.49 1991.06 2234.61 22038.55 2105.30 1916.69 2016.51 2165.02 1916.69 2016.51 2165.02 1916.69 2018.51 2076.09 1677.24 2638.85 2008.81 1922.50 21781.63 2020.81 1922.50 1781.63 2020.81 1925.85 1950.89 1950.85 1950.85 1950.89 1950.89 1950.85 1950.85 1950.89 1950.85	6 1999 (ppm) 56 1111 1011 080 103 103 103 103 103 103 103 10	P-val 0.00 0.93 0.55 0.00 0.02 0.05 0.87 0.69 0.02 0.37 0.09 0.02 0.37 0.20 0.57 0.20 0.57 0.20 0.57 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.000000 0.00000000	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 335.63 283.64 291.51 335.63 283.64 291.51 335.63 283.64 291.61 336.83 283.64 291.61 336.83 283.64 291.61 336.83 201.61 311.49 201.62 338.36 307.46 338.36 307.46 331.142 301.10 310.74 308.69 309.24 297.55 332.65 279.355	13 1999 N (ppn % 99 94 105 92 94 94 105 92 94 94 105 94 94 105 94 94 105 99 94 94 114 105 99 99 100 100 100 100 100 100	P-eal 0.85 0.23 0.34 0.40 0.16 0.75 0.76 0.75 0.76 0.75 0.76 0.75	0.11 0.14 Bo Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	11 1999 Alters %		1 93 2 55 <b>Mean</b> 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 00 4 11 4 53 4 30 6 00 4 11 3 80 6 11 3 85 4 87 4 829 3 51 6 08 5 54 8 74 8 87 4 829 3 51 6 08 8 54 8 74 8 74 8 74 8 56 8 56 8 74 8 74 8 74 8 74 8 74 8 74 8 74 8 74	12 1999 are (%) % 1111 64 777 777 851 113 113 113 851 1156 666 1166 1666 666 1166 1	P-val 0.55 0.05 0.20 0.34 0.47 0.21 0.47 0.21 0.41 0.29 0.41 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.37 0.37 0.36 0.37 0.36 0.55 0.37 0.37 0.36 0.55 0.37 0.37 0.36 0.55 0.55 0.55 0.37 0.37 0.36 0.55 0.55 0.37 0.37 0.36 0.55 0.55 0.55 0.37 0.37 0.36 0.55 0.55 0.55 0.37 0.37 0.36 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.37 0.37 0.36 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 ACH 953 ACH 953 ACH 999 Bets M516 Bets M516 Bets M516 Bets M515 Bets M515 Bets M515 Bets M515 Bets M515 Bets M515 Bets M515 Bets M515 Bets M516 Bets M516 Bets M517 Bets ACH 999 HM 1642 HM 1642 HM 1645 HM 1645 HM 100 HM 7001 HM 7001 HM 7001 HM 7100 HM 7105 HM 7105	Source 220 234 214 222 223 223 224 221 229 217 230 241 229 241 241 241 241 242 241 241 241 241 241	5 48** 13.89 18.34 Mean 2302.57 2093.30 2038.55 2340.87 2145.49 1991.06 2234.61 22038.55 2340.87 2145.49 1991.06 2234.61 22038.55 2105.30 1916.69 2016.51 2165.02 1916.69 2016.51 2165.02 1916.69 2018.51 2076.09 1677.24 2638.85 2008.81 1922.50 21781.63 2020.81 1922.50 1781.63 2020.81 1925.85 1950.89 1950.85 1950.85 1950.89 1950.89 1950.85 1950.85 1950.89 1950.85	6 1999 (ppm) 74 111 08 113 101 008 108 108 108 108 108 108	P-val 0.00 0.83 0.55 0.12 0.12 0.06 0.02 0.05 0.87 0.66 0.69 0.69 0.62 0.37 0.20 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02 0.05 0.02	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.63 285.63 285.64 291.61 336.563 285.64 291.64 291.64 291.64 291.64 291.64 307.46 307.56 307.5	13 1999 N (ppm 5% 99) 94 93 94 105 94 105 94 114 98 94 114 98 91 114 98 91 114 95 90 109 109 109 109 109 105 105 105 105 105 105 105 105	P-vai 0.85 0.23 0.34 0.40 0.16 0.70 0.72 0.85 0.64 0.95	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 08 4 08 4 08 4 08 4 08 4 08	12 1999 111 111 64 777 77 83 113 113 113 115 156 66 66 66 115 156 156 1	P-val 0.55 0.20 0.20 0.20 0.20 0.20 0.20 0.47 0.47 0.47 0.41 0.29 0.41 0.41 0.29 0.41 0.41 0.29 0.34 0.41 0.29 0.34 0.41 0.29 0.34 0.41 0.29 0.20 0.00 0.00 0.00 0.00 0.00 0.03 0.37 0.37 0.36 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 921 ACH 921 ACH 952 ACH 953 ACH 999 Beta M5216 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 Beta M514 Beta M515 Beta M513 Beta M513 Beta M513 Beta M514 Beta M513 Beta M5	Source 220 234 214 222 223 223 224 221 229 217 230 241 229 241 241 241 241 242 241 241 241 241 241	5 48** 13.89 18.34 Mean 2302.57 2093.30 2038.55 2349.87 2145.49 1991.06 2234.61 2208.65 2349.87 2145.49 1991.06 2234.61 2208.55 2105.30 1992.73 1944.60 2098.51 2165.02 2076.09 1971.63 2008.81 1972.50 1781.63 2008.81 1920.885 1960.89 2122.09 2035.06 2222.79	6 1999 (ppm) 74 111 101 108 113 96 91 103 96 91 108 91 108 91 108 91 108 91 109 94 100 108 91 101 101 101 102 95 97 97 97 97 97 97 97 97 97 97	P+val 0.00 0.83 0.55 0.00 0.02 0.06 0.01 0.05 0.05 0.07 0.69 0.037 0.20 0.07 0.20 0.07 0.20 0.07 0.20 0.07 0.20 0.07 0.20 0.07 0.00 0.02 0.05 0.55	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 335.63 283.64 291.51 335.63 283.64 291.51 335.63 283.64 291.61 336.63 283.64 291.61 336.63 201.64	13 1999 N (ppm 99) 03 94 105 92 91 114 95 94 105 90 91 114 95 90 91 91 91 95 90 91 105 90 90 91 91 91 91 91 91 91 91 91 91	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.02 0.85 0.014 0.02 0.85 0.95	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 <b>Mean</b> 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 00 4 11 3 854 8 74 8 29 3 51 6 08 5 54 8 74 8 29 3 51 6 08 5 54 8 74 8 29 3 51 6 08 5 54 8 74 8 74 8 74 8 74 8 74 8 74 8 74 8 7	12 1999 1re (%) 111 64 77 73 113 113 113 115 72 104 105 106 116 116 116 116 105 107 140 91	P-val 0.55 0.06 0.20 0.34 0.47 0.41 0.21 0.41 0.22 0.41 0.22 0.41 0.12 0.41 0.12 0.41 0.12 0.41 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.21 0.41 0.21 0.41 0.21 0.41 0.20 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.42 0.37 0.37 0.37 0.36 0.55 0.55 0.36 0.55 0.37 0.36 0.55 0.55 0.37 0.36 0.55 0.55 0.55 0.55 0.37 0.36 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 952 ACH 952 ACH 952 ACH 952 ACH 953 ACH 953 Bets M51 Bets M516 Bets M516 Bets M515 Bets M515 Bets M531 Bets M531 Bets M531 Bets M531 Bets M532 Filer 1 Filer 3 HM 1642 HM 1642 HM 1643 HM 1645 HM 16	Source 220 234 214 222 223 223 224 221 229 217 230 241 229 241 241 241 241 242 241 241 241 241 241	5 48** 13.89 18.34 K Mean 2302 57 2093 30 2038 55 2340 87 2145 40 2205 67 2145 40 2204 67 2245 67 2098 25 2010 530 1910 69 2098 25 2015 30 1910 69 2018 51 2018 51 2020 191 2018 51 2020 191 2028 61 2020 191 2028 51 2020 191 2028 51 2020 191 2028 51 2020 191 2038 85 2020 50 2038 85 2038 85 2	6 1999 (ppm) 74 111 101 108 113 96 91 103 96 91 108 91 108 90 91 100 108 91 100 91 101 101 101 100 90 91 101 10	P+val 0.00 0.83 0.55 0.00 0.02 0.06 0.01 0.05 0.05 0.07 0.69 0.037 0.20 0.07 0.20 0.07 0.20 0.07 0.20 0.07 0.20 0.07 0.20 0.07 0.00 0.02 0.05 0.55	615.51 812.85 Am 306.74 288.75 293.12 325.27 285.17 305.19 335.93 291.51 335.93 283.64 293.74 293.74 293.64 293.74 293.54 293.54 293.64 293.74 293.54 293.54 293.54 293.54 293.54 293.54 293.54 293.54 293.54 293.55	13 1999 N (ppm 99) 03 94 105 92 91 114 95 94 105 90 91 114 95 90 91 91 91 95 90 91 105 90 90 91 91 91 91 91 91 91 91 91 91	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.02 0.85 0.014 0.02 0.85 0.95	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %		1 93 2 55 Mean 5 89 3 41 4 08 4 08 5 00 6 00 7 000 7 000 7 000 7 000 7 000 7 000 7 00000 7 0000000000	12 1999 111 111 64 77 73 113 113 113 115 72 104 105 105 105 105 105 105 105 105	P-val 0.55 0.06 0.20 0.34 0.47 0.41 0.21 0.41 0.22 0.41 0.22 0.41 0.12 0.41 0.12 0.41 0.12 0.41 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.21 0.41 0.21 0.41 0.21 0.41 0.20 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.42 0.37 0.37 0.37 0.36 0.55 0.55 0.36 0.55 0.37 0.36 0.55 0.55 0.37 0.36 0.55 0.55 0.55 0.55 0.37 0.36 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 009 ACH 021 ACH 021 ACH 021 ACH 021 ACH 099 Beta M52 Beta M52 Beta M53 Beta M53 Beta M515 Beta M515	Source 220) 234 214 230) 222 223 224 221 223 224 227 231 224 224 225 240 241 241 244 241 244 242 225 240 241 244 241 244 244 244 244 244 244 244	5 48** 13.89 18.34 K Mean 2302.57 2063.30 2038.55 2340.87 2145.49 1991.06 2234.61 2205.07 1991.06 2234.641 2205.07 1994.60 208.51 2105.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2008.61 1972.50 1781.63 2078.91 2035.06 2122.09 2035.06 2122.09 2035.06 2122.09 2036.85 1950.89 1222.09 2035.06 2122.09 2038.68 7.59	6 1999 (ppm) 74 111 101 108 113 96 91 103 96 91 108 91 108 90 91 100 108 91 100 91 101 101 101 100 90 91 101 10	P-val 0.00 0.83 0.55 0.00 0.32 0.10 0.02 0.06 0.65 0.87 0.65 0.87 0.22 0.37 0.20 0.02 0.37 0.20 0.02 0.37 0.20 0.02 0.37 0.20 0.02 0.55 0.65 0.55	615.51 812.85 Am 306.74 298.75 298.17 205.12 305.12 305.29 303.23 291.51 352.92 303.23 291.61 352.92 303.23 291.64 355.63 307.46 291.64 291.64 291.64 291.64 307.45 307.45 307.46 307.45	13 1999 N (ppm 99) 03 94 105 92 91 114 95 94 105 90 91 114 95 90 91 91 91 95 90 91 105 90 90 91 91 91 91 91 91 91 91 91 91	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.02 0.85 0.014 0.02 0.85 0.95	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %	P-vgl	1 93 2 55 <b>Mean</b> 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 6 00 4 11 3 80 6 54 4 30 6 54 4 30 6 54 8 29 3 51 6 08 5 54 8 29 5 56 8 55 8 55 8 55 8 55 8 55 8 55 8 55	12 1999 111 111 64 77 73 113 113 113 115 72 104 105 105 105 105 105 105 105 105	P-val 0.55 0.06 0.20 0.34 0.47 0.41 0.21 0.41 0.22 0.41 0.22 0.41 0.12 0.41 0.12 0.41 0.12 0.41 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.21 0.41 0.21 0.41 0.21 0.41 0.20 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.42 0.37 0.37 0.37 0.36 0.55 0.55 0.36 0.55 0.37 0.36 0.55 0.55 0.37 0.36 0.55 0.55 0.55 0.55 0.37 0.36 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 922 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 Beta M513 Beta M514 Beta M515 Beta M516 Beta M515 Beta M516 Beta M516 Beta M516 Beta M517 Beta M517 Van der Have H66454 Check of Mean Check of Mean Check of Mean	Source 220) 234 214 230) 222 223 224 221 223 224 227 231 224 224 225 240 241 241 244 241 244 242 225 240 241 244 241 244 244 244 244 244 244 244	5.48** 13.89 18.34 K Mean 2302.57 2093.30 2038.55 2340.87 2145.49 1991.06 2234.61 22038.55 2340.87 2145.49 1991.06 2234.61 22038.55 1916.69 2078.09 1677.24 2638.85 1916.69 2098.81 1972.50 1781.63 2008.81 1972.50 1781.63 2008.81 1972.50 1781.63 2008.85 1950.89 2122.09 2038.65 7.59 2078.66 7.59 2078.66 7.59 2078.66 7.59 2078.65	6 1999 (ppm) 54 111 101 085 103 103 103 103 103 103 103 103	P-val 0.00 0.83 0.55 0.00 0.32 0.10 0.02 0.06 0.65 0.87 0.65 0.87 0.22 0.37 0.20 0.02 0.37 0.20 0.02 0.37 0.20 0.02 0.37 0.20 0.02 0.55 0.65 0.55	615.51 812.85 Am 306.74 298.75 293.12 325.27 285.17 305.19 335.63 283.64 291.51 335.63 283.64 291.51 335.63 283.64 291.61 335.63 283.64 291.61 336.63 283.64 291.61 336.63 201.64	13 1999 N (ppm 99) 03 94 105 62 98 94 94 94 94 94 94 94 98 94 94 109 90 00 109 90 00 109 109 100 100 100	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.02 0.85 0.014 0.02 0.85 0.95	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %	P-vgl	1 93 2 55 Mean 5 89 3 41 4 08 4 08 4 39 6 00 4 11 4 53 4 30 6 11 3 854 6 00 4 11 4 53 6 00 4 11 3 854 8 74 8 29 3 51 6 08 5 09 5 64 4 45 5 11 6 19 5 564 4 445 5 11 8 76 8 74 8 75 8 74 8 75 8 76 8 77 8 76 8 77 8	12 1999 are (%) 111 64 77 77 83 113 113 113 113 113 113 113	P-val 0.55 0.06 0.20 0.34 0.47 0.41 0.21 0.41 0.22 0.41 0.22 0.41 0.12 0.41 0.12 0.41 0.12 0.41 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.21 0.41 0.21 0.41 0.21 0.41 0.20 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.42 0.37 0.37 0.37 0.36 0.55 0.55 0.36 0.55 0.37 0.36 0.55 0.55 0.37 0.36 0.55 0.55 0.55 0.55 0.37 0.36 0.55	0,63			62.27		
F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 009 ACH 021 ACH 021 ACH 021 ACH 021 ACH 099 Beta M52 Beta M52 Beta M53 Beta M53 Beta M515 Beta M515	Source 220) 234 214 230) 222 223 224 221 223 224 227 231 224 224 225 240 241 241 244 241 244 242 225 240 241 244 241 244 244 244 244 244 244 244	5 48** 13.89 18.34 K Mean 2302.57 2063.30 2038.55 2340.87 2145.49 1991.06 2234.61 2205.07 1991.06 2234.641 2205.07 1994.60 208.51 2105.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2015.30 1916.69 2018.51 2008.61 1972.50 1781.63 2078.91 2035.06 2122.09 2035.06 2122.09 2035.06 2122.09 2036.85 1950.89 1222.09 2035.06 2122.09 2038.68 7.59	6 1999 (ppm) 74 111 101 108 113 96 91 103 96 91 108 91 108 90 91 100 108 91 100 91 101 101 101 100 90 91 101 10	P-val 0.00 0.83 0.55 0.00 0.32 0.10 0.02 0.06 0.65 0.87 0.65 0.87 0.22 0.37 0.20 0.02 0.37 0.20 0.02 0.37 0.20 0.02 0.37 0.20 0.02 0.55 0.65 0.55	615.51 812.85 Am 306.74 298.75 298.17 205.12 305.12 305.29 303.23 291.51 352.92 303.23 291.61 352.92 303.23 291.64 355.63 307.46 291.64 291.64 291.64 291.64 307.45 307.45 307.46 307.45	13 1999 N (ppm 99) 03 94 105 92 91 114 95 94 105 90 91 114 95 90 91 91 91 95 90 91 113 97 90 90 90 91 94 91 91 94 91 94 91 94 91 94 91 94 91 94 91 94 91 94 91 94 91 94 91 94 94 94 94 94 94 94 94 94 94	P-val 0.85 0.23 0.34 0.40 0.16 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.02 0.85 0.014 0.02 0.85 0.95	0.11 0.14 Bo 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	11 1999 Alters %	P-vgl	1 93 2 55 <b>Mean</b> 5 89 3 41 4 08 4 08 4 39 6 00 6 00 4 11 4 53 4 30 6 6 00 4 11 3 80 6 54 4 30 6 54 4 30 6 54 8 29 3 51 6 08 5 54 8 29 5 56 8 55 8 55 8 55 8 55 8 55 8 55 8 55	12 1999 111 111 64 77 73 113 113 113 115 72 104 105 105 105 105 105 105 105 105	P-val 0.55 0.06 0.20 0.34 0.47 0.41 0.21 0.41 0.22 0.41 0.22 0.41 0.12 0.41 0.12 0.41 0.12 0.41 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.21 0.41 0.21 0.41 0.21 0.41 0.20 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.22 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.20 0.34 0.41 0.42 0.37 0.37 0.37 0.36 0.55 0.55 0.36 0.55 0.37 0.36 0.55 0.55 0.37 0.36 0.55 0.55 0.55 0.55 0.37 0.36 0.55	0,63			62.27		

\* Significant at 5%. \*\* Significant at 1%. Ns Not Significant 2nd column for each trait is percent of check. General Mean used as check. 3rd column for trait is probability that detection of a diff. (from check mean) of this size is due to chance. Mean LSD is only appropriate for comparing entry means with each other when F value is significant.

# American Crystal Sugar Co. - Technical Service Center Southern Minnesota Semi Commarcial Coded Trial - Lattice Trial 995612, Lake Lillian, MN Planting Date: 04/28/1999 Harvest Date: 10/06/1999 30 Entries 6 Reps X Loc 2 Rows/Piot 1 Samples/Piot

Entry	Source		1999 Rec/T (I	bs)	í I	1999 Rec/A (Ib	\$1	5	1999 Loss to	Mol.	) n	1999 eld (T/A		5	1999 Sugar %		N	1999 a (ppm)	
		Mean	%	P-val	Mean	%	P-val	Mean	%	P-val	Mean	*	P-yal	Mean	%	P-val	Mean	%	P-val
ACH 309	220	277.17	97	0.10	5480.39	101	0.81	1,31	110	0.01	23.37	104	0.27	15.17	98	0.21	421.42	103	0.70
ACH 921	234	290.16	102	0.37	6725.01	105	0.24	1.23	103	0.41	23.17	103	0.39	15.74	102	0.26	460.65	113	0.11
ACH 952	214	296.99	104	0.03	7456.68	116	0.00	1.21	102	0.66	25.13	112	0.00	16.00	104	0.01	460.12	113	0.11
ACH 953	230	290.20	102	0.37	6734.79	105	0.23	1.25	105	0.17	23.15	103	0.40	15.76	102	0.23	469.48	115	0.05
ACH 999	222	292.89	103	0.15	7427.58	116	0.00	1.27	106	0.07	25.29	113	0.00	15.92	103	0.06	398.28	97	0.74
Beta 6904	233	295.75	104	0.05	5983.36	93	0.10	1.16	97	0.39	20.22	90	0.01	15.95	103	0.05	454.64	111	0.15
Beta M5216	224	282.57	. 99	0.56	5636.98	88	0.00	1.12	93	0.05	19.94	89	0.00	15.24	99	0.33	362.40	89	0.15
Beta M813	221	283.79	99	0.73	6629.27	103	0.42	1,15	96	0.26	23.30	104	0.31	15.34	99	0.57	422.79	103	0.67
Beta M814	239	287.90	101	0.65	6526.18	102	0.68	1.20	100	0.96	22.66	101	0.80	15.59	101	0.62	412.46	101	0.91
Beta M815	217	294.17	103	0.09	6242.23	97	0.50	1,14	96	0.20	21.18	94	0.13	15.85	102	0.11	407.21	100	0.96
Beta M931	231	302 34	106	0.00	7449.85	116	0.00	1.18	99	0.73	24.63	110	0.01	16.30	105	0.00	400.76	98	0.80
Beta M932	237	300.80	105	0.00	6585.23	103	0.52	1.12	94	0.07	21.83	97	0.46	16.16	104	0.00	438.14	107	0.37
Filler 1	240	304.02	106	0.00	5982.92	93	0.10	1.08	90	0.01	19.77	88	0.00	16.28	105	0.00	290.78	71	0.00
Filler 2	241	279.97	90	0.28	6178.81	96	0.36	1.24	104	0.28	22.12	99	0.70	15.24	98	0.33	478.21	117	0.03
Filler 3	242	238.10	63	0.00	5058,68	79	0.00	1.40	117	0.00	21.28	95	0.16	13.30	86	0.00	557.75	136	0.00
HM 1642	228	291.37	102	0.26	7252.83	113	0.00	1.12	94	0.07	24.90	111	0.00	15.69	101	0.36	402.43	98	0.84
HM 1643	238	282.94	99	0.61	6588.81	103	0.51	1.21	101	0.82	23.33	104	0.30	15.35	99	0.60	474.32	116	0.04
HM 1645	223	267.43	94	0.00	6042.54	94	0.15	1.28	107	0.03	22.55	100	0.91	14.65	95	0.00	422.16	103	0.68
HM 7083	215	284.78	100	0.88	6385 26	991	0.90	1.23	103	0.36	22.47	100	0.99	15.47	100	0.991	423.03	103	0.66
HM 7089	216	292.60	102	0.17	5608.27	87	0.00	1.15	96	0.29	19.11	85	0.00	15.78	102	0.19	358.24	88	0.12
HM 7097	227	284.83	100	0.89	6796.48	106	0.15	1.20	101	0.83	23.84	106	0.10	15.45	100	0.91	312.88	77	0.00
HM 7100	236	281.55	99	0.45	6390.22	100	0.921	1.21	101	0.75	22.73	101	0.74	15.29	99	0.43	328.46	80	0.01
HM 7101	232	289.53	101	0.44	7188.78	112	0.00	1.18	90	0.77	24.83	111	0.01	15.66	101	0.43	320.58	78	0.01
HM E26	235	278.68	98	0.18	5993.49	93	0.11	1.15	95	0.22	21.50	96	0.25	15.08	97	0.10	430.47	105	0.51
HM E38	2191	284.22	100	0.79	6164.16	96	0.37	1.15	95	0.22	21.77	97	0.42	15.36	99	0.62	355.47	87	0.10
HM Hector	226	291.78	102	0.23	6556.43	102	0.60	1.20	101	0.88	22.61	101	0.84	15.79	102	0.191	380.07	93	0.37
HM RH5	213	284.15	100	0.78	6239.86	97	0.50	1.53	94	0.09	21.98	98	0.57	15.33	99	0.55	433.13	106	0.45
Seedex Laser	229	264.77	93	0.00	5005.59	78	0.00	1.27	108	0.09	18.77	84	0.00	14.51	94	0.00	439.67	107	0.34
Seedex SX 1017	218	281.63	99	0.44	6275.38	98	0.59	1.15	96	0.28	22.28	99	0.84	15.23	98	0.31	347.34	85	0.06
Van der Have H6645	225	289.91	102	0.40	6916.41	108	0.06	1.18	96	0.64	23.82	100	0.10	15.68	101	0.40	406.45	99	0.94
Check of Mean Coeff. Of Var (%)		285.57 4.31			6417.35 9.65			1.2			22.45 8.88			15.47			408.99 18.93		
F Value	1	5.90**			5.45**			2.65**			4.17**			5.95**			3.12**		
Mean LSD (0.05) Mean LSD (0.01)		14.53 19.19	5		742.51 980.75	12 15		0.12	10 13		2.37 3.13	11 14		0.67	4		91.58 120.95	22 30	
Entry	Source		1999 K (ppm)	Ĩ	An	1999 1. N (ppm)	1	в	1999 olters %	a i	T	are (%)		i i					

Entry	Source		(ppm)		Am	N (ppr	n)	В	olters 1	•		are (%)	
	-	Mean	%	P-val	Mean	%	P-val	Mean	5	P-val	Mean	%	P-val
ACH 309	220	2077.91	116	0.00	310.49	103	0.65	0.00			4.83	119	0.13
ACH 921	234	1764.81	99	0.75	315.20	104	0.47	0,00			5.16	127	0.03
ACH 952	214	1791.33	100	0.92	298.11	98	0.79	0:00			3.34	82	0.15
ACH 953	230	1931.29	108	0.03	284.55	94	0.29	0.00			3.76	92	0.54
ACH 999	222	1862.85	104	0.23	342.70	113	0.02	0.00			3.38	83	0.17
Beta 6904	233	1688.80	95	0.14	280.30	93	0.19	0,00			3.83	94	0.64
Beta MS216	224	1857.59	104	0.27	239.02	79	0.001	0.00			4.71	116	0.20
Beta M813	221	1781.50	100	0.96	261.95	87	0.02	0.00			3.64	.90	0.40
Beta M814	239	1766.26	90	0.77	306.78	101	0.81	0.00			3.74	92	0.52
Beta M815	217	1689.15	. 95	0.14	284.93	94	0.30	0.00			3.94	97	0.80
Beta M931	231	1793.20	100	0.90	294.42	97	0.63	0.00	1		3.46	85	0.23
Beta M932	237	1671.51	94	0.08	263.03	57	0.02	0.00	1.1	1.0	4.15	102	0.87
Filler 1	240	1630.46	.91	0.02	300.88	- 99	0.91	0.00			5.07	125	0.05
Filler 2	241	1792.61	100	0.91	309.20	102	0.71	0.00			3.58	68	0.33
Filler 3	242	2003.68	112	0.00	348.38	115	0.01	0.00			3.05	75	0.04
HM 1642	228	1744.65	- 98	0.53	258.18	85	0.01	0.28			3.39	83	0.18
HM 1643	238	1611.70	90	0.01	336.13	111	0.05	0.00			4.78	118	0.15
HM 1645	223	2032.63	114	0.00	301.25	100	0.93	0.00	-		3,26	80	0.11
HM 7083	215	1838.16	103	0.41	315.75	104	0.45	0.00			3.01	74	0.04
HM 7089	216	1751.24	98	0.60	294.80	97	0.64	0.00			4.08	100	0.97
HM 7097	227	1766.80	-99	0.78	349.05	115	0.01	0.00	1		4.28	105	0.66
HM 7100	236	1835.08	103	0.44	330.57	109	0.11	0.00	-		2.97	73	0.03
HM 7101	232	1682.98	94	0.12	352.67	116	0.00	0.00			4.66	115	0.24
HM E26	235	1622.97	91	0.01	296.22	98	0.70	0.00			5.62	138	0.00
HM E38	219	1700.22	95	0.19	305.48	101	0.87	0.00			5.55	137	0.00
HM Hector	226	1823.49	102	0.56	310.30	103	0.66	0.00			4.22	104	0.76
HM RH5	213	1730.04	97	0.40	255.73	84	0.01	0.00			5.19	128	0.03
Seedex Laser	229	1838.47	103	0.41	331.09	109	0.10	0.00		-	3.75	92	0.53
Seedex SX 1017	218	1687 05	95	0.13	317.31	105	0.40	0.00	-		4.29	106	0.65
Van der Have H6645	225	1785.90	100	0.99	287.48	95	0.38	0.00			3.28	81	0.11

Check of Mean	1785.14		302.73		4.07	
Coeff. Of Var (%)	8.76		13.00		30.52	
F Value	3.05**		2.79**		2.33**	
Mean LSD (0.05)	184.32	10	48.76	16	1.42	35
Mean LSD (0.01)	243,45	14	64.39	21	1.57	46

\* Significant at 5%. \*\* Significant at 1%. Ns Not Significant 2nd column for each trail is percent of check. General Mean used as check. 3rd column for trait is probability that detection of a diff. (from check mean) of this size is due to chance. Mean LSD is only appropriate for comparing entry means with each other when F value is significant.

# American Crystal Sugar Co. - Technical Service Center Southern Minnesota Sami Commercial Coded Trial - Lattice Trial 995613, Clara City, MN Planting Date: 04/28/1999 Harvest Date: 10/03/1999 30 Entries 6 Reps X Loc 2 Rows/Plot 1 Samples/Plot

Entry	Source	Re	1999 c/T (lbs	a	Re	1999 c/A (lbs	0	Los	1999 ss to Mo	6	Y	1999 eld (T/A)	I	s	1999 Sugar %		1	1999 la (ppm)	E
		Mean	5	P-val	Mean	N	P-val	Mean	8	P-val	Меал	%	P-val	Mean	%	P-val	Mean	*	P-v
ACH 309	220	306.67	100	0.99	7422.25	109	0.07	1.16	106	0.17	24.19	109	0.05	16.50	100	0.78	339,34	95	
ACH 921	234	315.33	103	0.09	7524.28	110	0.03	1.18	108	0.06	24.00	108	0.07	16.95	103	0.03	401.51	113	(
ACH 952	214	318.98	104	0.02	7212.90	106	0.23	1.16	106	0.16	22.66	102	0.68	17.10	104	0.00	424.12	119	
ACH 953	230	305.71	100	0.64		109	0.05	1.18	107	0.07	24.31	109	0.04	16.46	100	0.91	491.84	138	(
ACH 999	222	307.54	100	0.88		120	0.00	1,13	103	0.44	26.57	119	0.00	16.52	101	0.72	400.35	112	
Beta 6904	233	319.95	104	0.01		101	0.83	1,14	103	0.40	21.59	97	0.49	17.14	104	0.00	411.16	115 97	(
Beta M5210 Beta M813	224	303.35 313.45	99 102	0.50		87	0.01	1.24	113	0.00	19.44 25.06	113	0.00	16.41	100	0.13	352.58	97	-
Beta M814	239	318.92	102	0.02	7483.51	110	0.04	1.05	96	0.28	23.64	106	0.00	16.99	102	0.02	319.79	90	-
Beta M815	217	314.41	102	0.13	6664.12	98	0.60	1.03	94	0.14	21.14	95	0.25	16.74	102	0.19	344.53	97	
Beta M931	231	314.16	102	0.15		105	0.33	1.04	94	0.16	22.77	102	0.60	16.74	102	0.20	357.53	100	
Beta M932	237	318.30	104	0.02	7195.67	105	0.26	1.10	100	1.00	22.53	101	0.78	17.01	103	0.01	377.53	106	
Filler 1	240	307.39	100	0.90	6350.48	93	0.13	1.00	91	0.03	20.76	93	0.12	16.35	100	0.80	319.11	90	-
Filer 2	241	314.15	102	0.15		103	0.51	1.06	96	0.38	22.35	100	0.93	16.77	102	0.15	307.51	86	-
Filler 3	242	277.90	91	0.00		93	0.15	1,14	103	0.42	22.90	103	0.51	15.04	.91	0.00	400.14	112	
HM 1642	228	309.14	101	0.64	and the second	97	0.59	1.08	99	0.72	21.71	98	0.57	16.54	101	0.67	342.62	96	
HM 1643	238	312.46	102	0.26		111	0.02	1,01	92	0.05	24.21	109	0.05	16.64	101	0.38	361.15	101	1
HM 1645 HM 7083	223	278.56	91	0.00		97	0.49	1.28	117	0.00	23.91	107	0.09	15.21	93	0.00	442,63 420.72	124	
HM 7083	215	291.40	95	0.00	6023.09	88	0.01	1.13	103	0.48	20.76	109	0.05	15.69		0.00	303.66	118	
HM 7085	216	308.64	101	0.34		102	0.61	1.02	93	0.39	22.62	102	0.05	16.49	101	0.44	266,16	85	-
HM 7100	236	304.39	99	0.64		93	0.12	1.07	97	0.51	20.72	93	0.11	16.29	99	0.52	248.51	70	-
HM 7101	232	308.71	101	0.70	6580.15	96	0.43	1.04	95	0.19	21.40	96	0.37	16.47	100	0.87	265.43	75	
HM E26	235	308.72	101	0.70	6325.35	93	0.11	1.01	92	0.05	20.39	92	0.05	16.44	100	1.00	318.80	80	1
HM E38	219	299.45	88	0.15	6159,24	90	0.04	1.05	96	0.34	20.51	92	0.07	16.03	98	0.08	350.25	98	8 - SI
HM Hector	226	308.43	101	0.74	6006.09	68	0.01	1.10	100	0.94	19.36	87	0.00	16.52	101	0.71	348.63	98	
HM RH5	213	301.16	98	0.27	6013.42	68	0.01	1.10	100	0.96	20.06	90	0.02	16,15	98	0,21	422.62	119	
Seedex Laser	229	298.68	97	0.11	6192.88	91	0.05	1.12	102	0.70	20.62	93	0.09	16.06	98	0.10	298.01	84	
Seedex SX 1017	218	302.21	99	0.37	6351.12	93	0.13	1.08	98	0.67	21.00	94	0.19	16.20	99	0.30	345.94	97	
Van der Have H6645	54 225	302.97	99	0.46	6751.89	99	0.60	1.10	100	0.95	22.47	101	0.83	16.25	99	0.42	361.16	101	1
		306.76			6832.12			9.51			22.26			16.44 3.36			356.27 20.21		
					11.23														
Coeff. Of Var (%)	а	3.95			11.23		- 123				3 28**				62 - C				
Coeff. Of Var (%) F Value	a	3.95 3.96**	5		3.74° *	13	- 33	2.18**	11		3.28**	12	3	4.39* *	4		3.10**	24	
Coeff, Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01)	Source	3.96 3.96** 14.44 19.07	5 () 1999 (ppm)		3.74° ° 905.9 1196.46	13 18 1999 N (ppr		0.13 0.17	11 15 1999 piters %		2.75	12 16 1999 are (%)	ĩ		4 5			24 32	
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01)		3.96 3.96** 14.44 19.07	0 1999	P-val	3.74° ° 905.9 1196.46	18 1999		0.13 0.17	15 1999	P-val	2.75	16 1999	P-val	4.39* *			3.10** 86.74		
Check of Mean Coeff, Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry	Source	3.95 3.96** 14.44 19.07 K	6 1999 (ppm)	P-val	3.74" * 905.9 1196.46 Am. Mean	18 1999 N (ppr %	n) P-val	2.18** 0.13 0.17 Bo Mean	15 1999 piters %		2.75 3.63 T.	16 1999 are (%) %	P-val	4.39* *			3.10** 86.74		
Coeff, Of Var (%) P Value Mean LSD (0.05) Mean LSD (0.01) Entry ACM 309	Source	3.95 3.96** 14.44 19.07 K Mean 2084.96	() 1999 (ppm) % 112	P-val 0.00	3.74° ° 905.9 1196.46 Am. Mean 220.01	18 1999 N (ppr % 06	n) P-val 0.63	0.13 0.17 Be Mean	15 1999 piters %		2.75 3.63 T. Mean 3.60	16 1999 are (%) % 117	P-val 0.18	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309	Source	3.95 3.96** 14.44 19.07 K	6 1999 (ppm)	P-val	3.74" * 905.9 1196.46 Am. Mean	18 1999 N (ppr %	n) P-val	2.18** 0.13 0.17 Bo Mean	15 1999 piters %		2.75 3.63 T.	16 1999 are (%) %	P-val	4.39* *			3.10** 86.74		
Coeff. Of Var (%) T Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 321 ACH 952	Source 220 234	3.95 3.96** 14.44 19.07 K Mean 2084.96 1799.75	6 1999 (ppm) % 112 97	P-val 0.00 0.42	3.74° 905.9 1196.46 Am. <u>Mean</u> 220.01 293.50	18 1999 N (ppn % % 96 128	n) P-val 0.63 0.00	0.13 0.17 Be Maan 0.00 0.00	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11	16 1999 are (%) % 117 101	P-val 0.18 0.92	4.39* *			3.10** 86.74		
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 921 ACH 952 ACH 953 ACH 995	Source 220 234 214 230 222	3.96 3.96** 14.44 19.07 K Mean 2084.96 1799.75 1939.26 1945.97 1945.97	6 (ppm) % 112 97 105 105 105	P-val 0.00 0.42 0.20 0.17 0.32	3.74* 905.9 1196.46 Am. 220.01 293.50 228.46 215.53 224.07	18 1999 N (ppn % 06 128 99 94 99	n) P-val 0.63 0.00 0.93 0.44 0.75	0.13 0.17 Be Maan 0.00 0.00 0.00 0.00 0.00	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11 2.25 2.18 3.00	16 1999 are (%) % 117 101 73	P-val 0.18 0.02 0.04 0.03 0.95	4.39* *			3.10** 86.74		
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 953 ACH 995 Beta 6904	Source 220 234 214 230 222 233	3.95 3.96** 14.44 19.07 K Mean 2084.96 1799.75 1939.26 1945.97 1921.18 1940.70	6 1999 (ppm) % 112 97 105 105 105	P-val 0.00 0.42 0.20 0.171 0.32 0.16	3.74* 905.9 1196.46 Am. 220.01 293.50 228.46 215.53 224.07 213.55	18 1999 N (ppn % 96 128 99 94 99 94 97 93	n) 0.63 0.00 0.93 0.44 0.75 0.38	0.13 0.13 0.17 Be Mean 0.00 0.00 0.00 0.00 0.00 0.00	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11 2.25 2.18 3.00 2.82	16 1999 are (%) % 117 101 73 71 101 02	P-val 0.18 0.92 0.04 0.03 0.95	4.39* *			3.10** 86.74		
Coeff. Of Var (%) P Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 953 ACH 999 Beta 6904 Beta 5216	Source 220 234 214 230 222 233 224	3.96************************************	6 1999 (ppm) % 112 97 105 105 105 104 105 108	P-val 0.00 0.42 0.20 0.12 0.32 0.32 0.16 0.02	3.74* 905.9 1196.46 Am. 220.01 293.50 228.46 215.53 224.07 213.55 299.63	18 1999 N (ppn % 96 128 99 94 97 93 130	n) P-val 0.63 0.00 0.93 0.44 0.75 0.38 0.00	2.16** 0.13 0.17 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11 2.25 2.18 3.00 2.82 3.72	16 1999 are (%) % 117 101 73 71 101 92 121	P-val 0.18 0.92 0.04 0.03 0.05 0.54	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 995 ACH 952 ACH 953 ACH 953 ACH 953 ACH 995 Beta 0004 Beta M513	Source 220 234 214 230 222 233 224 221	3.96************************************	6 1999 (ppm) 5 105 105 105 104 105 104 106 95	P-val 0,00 0,42 0,20 0,17 0,32 0,12 0,12	3.74* 905.9 1196.46 Am. 220.01 293.50 228.46 228.46 228.53 224.07 213.55 299.63 299.63	18 1999 N (ppn % 128 99 94 97 93 130 117	n) P-val 0.63 0.00 0.93 0.44 0.75 0.30 0.00 0.00 0.04	2.16** 0.13 0.17 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.00 3.11 2.25 2.18 3.00 2.82 3.72 2.68	16 1999 are (%) % 117 101 101 73 71 101 02 121 87	P-val 0.18 0.92 0.04 0.03 0.95 0.54 0.11 0.31	4.39* *			3.10** 86.74		
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 996 Beta M5216 Beta M513 Beta M514	Source 220 234 214 233 222 233 224 224 221 229	3.96 3.96" 14.44 19.07 <b>Mean</b> 2004.96 1799.75 1932.56 1945.97 1921.18 1945.97 1942.70 2010.66 1752.31 1775.231	6 (ppm) 5 112 97 105 105 105 104 104 105 108 95 96	P-val 0.00 0.42 0.20 0.17 0.17 0.32 0.13 0.20 0.13 0.20	3.74° 905.9 1196.46 Am. 220.01 223.50 228.46 215.53 224.07 2213.55 299.63 269.00 227.75	18 1999 N (ppn % 06 128 99 94 94 97 93 130 117 90	n) P-val 0.63 0.00 0.93 0.44 0.75 0.38 0.00 0.04 0.00	2.16** 0.13 0.17 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11 2.25 2.18 3.00 2.82 3.72 2.66 2.73	16 1999 are (%) % 117 101 73 73 71 101 101 92 121 87 89	P-val 0.18 0.02 0.04 0.03 0.54 0.54 0.11 0.31	4.39* *			3.10** 86.74		
Coeff. Of Var (%) P Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 952 ACH 953 ACH 953 ACH 953 Beta 995 Beta 995 Beta M515 Beta M515	Source 220 234 214 220 223 223 223 224 223 223 224 229 229 2217	3.96 3.96 1.96 1.90 1.90 1.90 1.90 1.90 1.90 1.93 2.06 1.93 2.06 1.93 2.01 1.94 2.01 1.93 2.01 1.94 2.01 1.93 2.01 1.94 2.01 1.93 2.01 1.94 2.01 1.94 2.01 1.93 2.01 1.94 2.01 1.94 2.01 1.93 2.01 1.94 2.01 1.93 2.01 1.94 1.94 1.94 1.94 1.94 1.94 1.94 1.9	6 (ppm) % 112 97 105 105 105 105 105 105 105 105 105 105	P-val 0.00 0.42 0.20 0.32 0.32 0.13 0.13 0.13 0.13 0.13 0.13	3.74* 905.9 1196.46 Am. 220.01 290.50 228.46 215.53 224.07 213.53 224.07 213.53 229.63 299.63 299.63 299.63 209.61 215.15	18 1999 N (ppn % 06 128 99 94 93 130 117 90 93	n) P-val 0.63 0.00 0.33 0.44 0.75 0.38 0.00 0.64 0.00 0.64 0.00 0.64 0.00 0.43	2.16** 0.13 0.17 Be Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11 2.25 2.18 3.00 2.82 3.72 2.66 2.73 2.64	18 1999 are (%) % 117 101 73 71 101 02 121 121 87 89 86	P-val 0.18 0.92 0.04 0.03 0.95 0.54 0.11 0.31 0.31 0.39 0.29	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 Beta 0004 Beta M515 Beta M515 Beta M515	Source 220 234 214 220 222 233 224 221 229 221 229 221 221 221 221	3.96 3.96*** 14.44 19.07 ** ** ** ** ** ** ** ** ** ** ** ** **	6 (ppm) % 112 97 105 105 105 105 105 105 105 105 105 105	P-val 0.00 0.42 0.17 0.32 0.16 0.02 0.02 0.03 0.02 0.03 0.02	3.74° 905.9 1196.46 Am. 220.91 229.50 228.46 224.07 2215.53 224.07 224.07 224.07 224.07 224.07 224.07 224.07 224.07 225.52 226.00 227.75 226.00 227.75 226.42	18 1999 N (ppr % 96 128 99 94 97 93 130 117 117 90 93 91	n) P-val 0.63 0.00 0.93 0.44 0.75 0.38 0.38 0.00 0.04 0.00 0.04 0.43 0.43 0.28	2.16** 0.13 0.17 Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11 2.25 2.82 3.70 2.82 2.66 2.73 2.66 2.73 2.66 2.73	18 1999 are (%) 117 101 73 71 101 92 121 121 87 89 86 92	P-val 0.18 0.02 0.03 0.05 0.54 0.11 0.31 0.39 0.29 0.29 0.54	4.39* *			3.10** 86.74		
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 Beta 4613 Beta M515 Beta M515 Beta M515 Beta M515 Beta M515 Beta M515 Beta M515	Source 220 234 214 233 222 233 224 224 224 239 217 239 217 237	3.96 3.96" 14.44 19.07 <b>Mean</b> 2004.96 1799.75 1799.75 1921.18 2010.66 1725.25 1725.25 1778.56 1725.54 1725.24 1755.24	6 (ppm) 54 112 97 105 105 105 105 105 104 104 106 96 95 95 90 90 90 90 90	P-val 0.00 0.42 0.20 0.12 0.12 0.12 0.13 0.20 0.03 0.03 0.03	3.74* 905.9 1196.46 Am. <u>Mean</u> 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 215.53 299.63 299.63 299.63 2217.03	18 1999 N (ppr % 128 99 94 97 93 130 117 90 93 91 94	n) P-val 0.63 0.03 0.93 0.44 0.75 0.38 0.00 0.44 0.00 0.43 0.26 0.49 0.49	2.16** 0.13 0.17 Be Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> <u>3.00</u> 3.11 2.25 2.18 3.00 2.82 3.72 2.66 2.73 2.66 2.73 2.66 2.248	16 1999 are (%) % 117 101 73 71 101 101 101 101 101 102 121 87 89 89 86 80 86	P-val 0.18 0.92 0.04 0.03 0.54 0.11 0.31 0.39 0.29 0.54 0.14	4.39* *			3.10** 86.74		
Coeff. Of Var (%) P Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 952 ACH 953 ACH 953 ACH 958 Beta M513 Beta M515 Beta M515 Beta M515 Beta M532 Filer 1	Source 220 234 230 222 233 224 223 224 221 223 224 221 231 221 231 231 237 240	3.96 3.96" 14.44 19.07 <b>K</b> <b>Mean</b> 2084.96 1799.75 1939.26 1945.67 1921.18 1939.26 1945.67 1921.18 1939.26 1945.70 2010.66 1755.31 1778.56 1775.54 1778.54 1778.54 1778.54 1778.54	6 (ppm) % 112 97 105 105 105 105 105 105 105 105 105 105	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.02 0.03	3.74* 905.9 1196.46 Am. 220.01 220.01 223.60 228.66 215.53 224.07 215.53 229.63 269.60 227.76 209.62 215.15 209.42 217.03 214.71	18 1999 N (ppn % 96 128 99 94 94 93 130 117 90 93 93 93 93 94 94	n) P-val 0.63 0.00 0.43 0.00 0.00 0.00 0.00 0.00 0.00 0.04 0.00 0.43 0.20 0.42	2.16** 0.13 0.17 Be Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. 3.60 3.11 2.25 2.25 2.25 2.25 2.25 2.25 2.26 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 3.00	16 1999 are (%) % 117 101 73 71 101 02 121 87 89 89 89 89 81 101	P-val 0.18 0.02 0.04 0.03 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.16 0.54	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 ACH 953 Beta M515 Beta M515 Bet	Source 220 234 214 233 222 233 224 224 224 239 217 239 217 237	3.96 3.96" 14.44 19.07 <b>Mean</b> 2004.96 1799.75 1799.75 1921.18 2010.66 1725.25 1725.25 1778.56 1725.54 1725.24 1755.24	6 (ppm) 54 112 97 105 105 105 105 105 104 104 106 96 95 95 90 90 90 90 90	P-val 0.00 0.42 0.20 0.12 0.12 0.12 0.13 0.20 0.03 0.03 0.03	3.74* 905.9 1196.46 Am. <u>Mean</u> 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 215.53 299.63 299.63 299.63 2217.03	18 1999 N (ppr % 128 99 94 97 93 130 117 90 93 91 94	n) P-val 0.63 0.03 0.93 0.44 0.75 0.38 0.00 0.44 0.00 0.43 0.26 0.49 0.49	2.16** 0.13 0.17 Be Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> <u>3.00</u> 3.11 2.25 2.18 3.00 2.82 3.72 2.66 2.73 2.66 2.73 2.66 2.248	16 1999 are (%) % 117 101 73 71 101 101 101 101 101 102 121 87 89 89 86 80 86	P-val 0.18 0.92 0.04 0.03 0.54 0.11 0.31 0.39 0.29 0.54 0.14	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 Beta 6004 Beta M5216 Beta M514 Beta M514 Beta M515 Beta	Source 220 224 214 230 222 233 223 221 221 221 239 217 231 231 231 241 241	3.96 3.96" 14.44 19.07 84 84 2084.96 1799.75 1039.26 1945.07 1921.16 1940.70 2010.66 1752.54 1775.54 1775.54 1775.54 1775.54 1775.24	6 (ppm) % 112 97 105 105 105 105 105 105 105 105 96 95 96 95 96 90 90 90	P-val 0.00 0.42 0.20 0.12 0.13 0.20 0.13 0.20 0.00 0.00 0.013 0.93 0.93 0.075	3.74° 905.9 1196.46 Am. 220.01 220.01 220.50 228.46 224.67 215.53 224.07 215.53 224.07 215.53 226.00 227.51 209.42 217.75 209.42 217.73 209.42 217.73	18 1999 N (ppn % 56 128 99 94 97 03 130 94 94 97 03 117 117 95 91 91 94 91 90 83 91	n) P-val 0.653 0.00 0.933 0.44 0.00 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.46 0.44 0.44 0.45 0.46 0.44 0.45	2.16** 0.13 0.17 Be Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	15 1999 piters %		2.75 3.63 T. <u>Mean</u> 3.60 3.11 2.25 2.82 3.70 2.82 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 3.35	16 1999 are (%) % 117 101 73 71 101 92 121 87 89 89 86 92 89 101 101 109	P-val 0.18 0.92 0.04 0.03 0.54 0.11 0.31 0.39 0.29 0.29 0.29 0.54 0.14 0.49 0.64 0.64	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 921 ACH 952 ACH 999 Beta 4053 ACH 999 Beta 4053 Beta 40513 Beta 40514 Beta 40514 B	Source 220 234 214 200 222 233 224 237 237 237 237 237 240 241 241 241 242	3.96 3.96" 14.44 19.07 <b>Mean</b> 2004.96 1799.75 1932.26 1945.97 1942.70 1942.70 1942.70 1752.31 1778.56 1725.54 1755.24 1757.24	6 (ppm) 5 112 97 105 105 105 105 105 106 95 95 100 95 100 99 105	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.13 0.20 0.00 0.13 0.93 0.01 0.75 0.75	3.74* 905.9 1196.46 Am. <u>Mean</u> 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 215.53 220.91 215.53 299.63 209.63 209.63 209.63 211.55 209.63 211.55 209.63 211.55 209.63 211.55 211.55 209.63 211.55 211.55 209.63 211.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 21.55 2	18 1999 N (ppn % 06 128 99 94 97 93 94 97 93 130 117 117 90 93 91 94 93 91 94 93 95	n) P-val 0.63 0.03 0.93 0.44 0.75 0.38 0.00 0.44 0.00 0.43 0.25 0.49 0.49 0.42 0.80 0.59	2 18** 0.13 0.17 Be Mean 0.00	15 1999 piters %		2.75 3.63 7. <u>Mean</u> <u>3.00</u> 3.11 2.25 2.18 3.00 2.82 3.72 2.66 2.73 2.66 2.73 2.66 2.73 2.64 2.248 3.09 3.33 3.33 3.23 2.89	16 1999 are (%) % 117 101 73 71 101 101 92 121 87 89 86 92 86 92 81 109 94	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.39 0.29 0.54 0.14 0.96 0.66	4.39* *			3.10** 86.74		
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 309 ACH 309 ACH 309 Beta 409 Beta 4004 Beta 405 Beta 405 Beta 40515 Beta 40515 Beta 40515 Beta 40515 Filer 2 Filer 2 Filer 3 HM 1642 HM 1645	Source 220 234 214 230 222 233 224 233 224 237 237 237 240 241 237 240 241 242 228 248 228 228 228 228 228	3.96 3.96" 14.44 19.07 <b>Mean</b> 2004.96 1799.75 1939.26 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1949.70 1752.11 1859.60 1671.01 1832.22 1859.60 1671.01 1832.23 1972.11 1644.48	6 (ppm) 5 112 97 105 105 105 105 105 106 95 96 95 90 90 90 90 905 106	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.02	3.74* 905.9 1196.46 Am. 220.01 220.01 220.01 223.60 225.53 224.07 215.53 224.07 215.53 299.63 266.00 227.75 215.15 209.42 217.03 214.71 225.42 214.71 225.42 219.72	18 1999 N (ppn % 96) 128 99 94 93 130 117 96 93 130 117 94 93 93 93 93 93 93 94 94 96 83	n) P-val 0.63 0.00 0.93 0.44 0.75 0.38 0.00 0.42 0.49 0.49 0.49 0.49 0.49 0.49 0.59 0.05 0.55 0	2 16** 0,13 0,17 Be Mean 0,000 0,00 0,000	15 1999 piters %		2.75 3.63 T. 3.60 3.11 2.25 2.25 2.25 2.26 2.73 2.64 2.27 2.66 2.73 2.66 2.73 2.66 2.273 3.35 2.66 3.335 2.00 3.320	16 1999 are (%) % 117 101 73 73 73 73 73 73 73 101 101 101 109 89 86 89 87 89 86 81 101 100 94 104	P-val 0.18 0.92 0.04 0.03 0.05 0.54 0.11 0.31 0.39 0.54 0.14 0.14 0.39 0.54 0.49 0.66 0.74	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 953 ACH 998 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 HI 15 Beta M513 HI 15 Beta M513 HI 1643 HI 1645 HI 1645 HI 1645 HI 1645 HI 1645 HI 1645 HI 1645 HI 1645 HI 1643 HI 1645 HI 1645 HI 1645 HI 1643 HI 1645 HI 1645 H	Source 220 234 230 222 223 223 224 221 223 224 221 231 231 231 231 240 241 241 242 228 228 228 228 228 228 223	3.96 3.96" 14.44 19.07 <b>Mean</b> 2084.96 1799.75 1939.26 1936.97 1946.67 1945.67 1945.67 1945.63 1775.219 1859.60 1671.01 1852.22 1942.93 1972.11 1844.48 2243.58 1941.39	6 1999 (ppm) 112 97 105 104 105 96 96 96 96 95 96 106 95 90 95 100 105 108 89 91 211 105	P-val 0.00 0.42 0.20 0.17 0.32 0.02 0.13 0.02 0.02 0.02 0.03 0.93	3.74* 905.9 1196.46 Am. 220.01 210.02 210.01 210.01 200.01 210.01 200.01 210.00	18 1999 N (ppn % 96 128 99 130 130 130 94 97 99 93 330 130 99 94 90 96 83 99 95 90 90 90	n) P-val 0.63 0.00 0.43 0.20 0.04 0.00 0.43 0.20 0.43 0.42 0.40 0.42 0.60 0.55 0.55 0.55 0.55	2 16** 0,13 0,17 Mean 0,000 0,000 0,	15 1999 piters %		2.75 3.63 T. 3.60 3.11 2.25 2.25 2.26 2.73 2.64 2.26 2.73 2.64 2.26 2.73 2.64 2.26 2.26 3.30 2.64 2.26 2.26 3.33 3.00 2.62 2.26 3.35 2.69 3.35 3.20 4.24 4.24 4.24 4.12	10 1999 are (%) 117 101 107 107 101 101 101 101	P-val 0.18 0.92 0.04 0.03 0.95 0.54 0.11 0.31 0.39 0.54 0.49 0.64 0.49 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.57 0.57 00 0.57 0.57 0.57 00 0.57 0.57	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Valve Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 Beta 0004 Beta 0004 Beta 0004 Beta 0004 Beta 00516 Beta 00515 Beta 0	Source 220 204 214 203 202 202 203 202 203 203 203 203 203	3.96 3.96" 14.44 19.07 <b>Mean</b> 2084.96 1799.75 1039.26 1945.97 1921.18 1940.70 2010.66 1725.54 1775.21 1775.54 1775.24 1942.25 1945.25 1947.25	6 1999 (ppm) 112 97 105 105 105 105 105 105 105 105 90 90 90 90 90 90 90 90 90 90 90 90 9105 80 108 90 90 90 90 90 90 90 90 90 90 90 90 90	P*val 0.00 0.42 0.20 0.12 0.13 0.20 0.02 0.03 0.013 0.00 0.03 0.000 0.03 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000000	3.74* 905.9 1196.46 Mean 220.011 293.50 212.53 224.66 215.53 224.66 215.53 224.66 213.55 213.55 296.60 227.76 213.55 214.71 226.42 217.03 214.71 226.42 217.03 214.71 226.42 219.83 214.71 226.42 219.83	18 1999 N (ppn % 96) 128 994 97 93 94 97 93 93 94 97 93 93 94 96 95 96 83 95 95 96 90 90 90 90 90 90 90 90 90 90 90 90 90	n) P-val 0.653 0.00 0.933 0.44 0.105 0.28 0.49 0.42 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.55 0.80 0.55 0.80 0.55 0.80 0.55 0.80 0.55 0.80 0.55 0.65 0.65 0.00 0.93 0.00 0.93 0.00 0.93 0.00 0.93 0.00 0.93 0.00 0.93 0.00 0.00 0.93 0.00 0.00 0.93 0.00	2 18** 0.13 0.17 Be Mean 0.00	15 1999 piters %		2.75 3.63 T. 3.60 3.11 2.25 2.82 3.00 2.82 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.42 2.82 2.48 3.35 2.89 3.35 2.89 3.35 2.89 3.20 4.24 2.22 2.20 2.40 2.40 2.40 2.40 2	18 1999 are (%) 5% 117 101 101 101 101 102 87 87 87 86 86 86 86 81 100 104 104 104 138 94 134	P-val 0.18 0.92 0.04 0.03 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.99 0.29 0.54 0.14 0.99 0.29 0.54 0.14 0.99 0.29 0.54 0.18 0.99 0.29 0.54 0.18 0.99 0.29 0.54 0.18 0.99 0.29 0.54 0.18 0.99 0.29 0.54 0.18 0.99 0.29 0.54 0.18 0.99 0.29 0.54 0.18 0.29 0.29 0.54 0.18 0.29 0.54 0.66 0.66 0.67 0.04 0.66 0.67 0.04 0.67 0.04 0.67 0.04 0.67 0.04 0.67 0.04	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 Beta 4051 Beta 4	Source 220 234 214 230 222 233 224 221 223 224 221 237 240 241 240 241 242 240 241 242 242 240 241 242 240 241 241 241 241 241 241 241 241 241 241	3.96 3.96" 14.44 19.07 <b>Mean</b> 2004.96 1799.75 1932.65 1945.97 1921.18 1945.70 1945.70 1921.18 1945.70 1921.18 1945.70 1922.13 1775.54 1775.54 1775.54 1775.54 1775.54 1775.54 1775.29 1922.11 1644.48 1942.93 1972.11 1644.48 1944.40 1744.60	6 1999 (ppm) 7 102 17 105 105 105 106 96 95 100 105 105	P-val 0.00 0.42 0.27 0.32 0.13 0.20 0.06 0.02 0.06 0.03 0.01 0.75 0.09 0.08 0.00 0.00 0.19 0.19 0.19 0.19 0.00 0.00 0.13 0.00 0.13 0.000 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000000 0.00000000	3.74* 905.9 1196.46 Am. Mean 220.91 220.91 220.91 220.91 223.66 215.53 224.07 213.55 299.63 209.00 213.55 299.63 209.00 213.51 213.55 209.42 217.05 214.71 225.42 217.72 219.83 191.72 219.83 219.82 209.77 221.65 239.62 209.77 223.66	18 1999 N (ppm N (ppm 128) 999 944 977 933 933 933 933 933 939 945 939 945 945 945 945 945 945 945 945 945 94	n) P-val 0.63 0.00 0.93 0.44 0.75 0.44 0.75 0.44 0.75 0.44 0.45 0.44 0.45 0.44 0.49 0.42 0.69 0.05 0.51 0.51 0.55 0	2 16** 0.13 0.17 Be Mean 0.00	15 1999 piters %		2.75 3.63 T. Mean 3.00 3.11 2.25 2.83 3.00 2.82 2.72 2.66 2.72 2.66 2.72 2.66 2.72 2.66 3.00 3.35 2.82 3.00 3.35 3.20 4.24 4.20 4.20 4.12 2.22 3.75	18 1999 are (%) 117 101 101 101 101 101 102 121 89 86 81 101 100 100 92 92 85 81 101 100 100 94 94 94 94 134 72 2122	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.54 0.49 0.66 0.74 0.067 0.071 0.07 0.071 0.07 0.09	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Valvid Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 Beta M515 Beta M5	Source 220 234 214 230 222 233 224 221 233 224 237 231 237 240 241 240 241 241 242 228 228 228 228 228 228 228 223 215 220 241 227 228 228 228 228 228 229 229 229 229 229	3.96 3.96" 14.44 19.07 <b>Mean</b> 2084.96 199.75 1939.26 1945.07 1921.16 1945.07 1925.19 1945.07 1925.19 1952.01 1752.19 1859.60 1972.11 1832.22 1972.93 1973.95 1975.95 1	6 1999 (ppm) 112 97 105 105 105 105 106 96 96 99 90 90 90 90 90 105 108 89 121 105 105 108 105 90 90 90 90 90 90 90 90 90 90 90 90 90	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.02 0.13 0.20 0.02 0.13 0.92 0.13 0.93	3.74* 905.9 1196.46 Mean 220.01 215.53 200.00 221.55 200.01 221.55 200.00 221.55 201.55 201.05 200.05 201.05 200.0	18 1999 N (ppn % 128 99 94 128 99 94 93 130 117 70 90 93 95 94 94 96 83 99 96 83 99 90 104 101	n) P-val 0.63 0.00 0.33 0.44 0.75 0.38 0.00 0.04 0.00 0.43 0.28 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.55 0.55 0.55 0.55 0.55 0.65 0.55 0.65 0.55 0.65 0	2 16** 0,13 0,17 Mean 0,000 0,000 0,0	15 1999 piters %		2.75 3.63 T. 3.60 3.11 2.25 2.25 2.26 2.73 2.64 2.26 2.73 2.64 2.26 2.73 2.64 2.26 2.73 2.64 2.26 2.73 2.64 2.26 2.26 2.73 2.64 2.26 2.26 2.26 2.26 2.26 2.26 2.26	18 1999 are (%) 117 101 101 101 101 101 101 102 87 89 81 101 109 92 81 101 109 92 81 101 109 92 81 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.03 0.54 0.11 0.31 0.39 0.54 0.49 0.64 0.66 0.64 0.66 0.66 0.66 0.66 0.67 0.67 0.05 0.64 0.000 0.64 0.000 0.64 0.000 0.64 0.000 0.64 0.000 0.64 0.000 0.64 0.000 0.64 0.000 0.64 0.000 0.64 0.64 0.65 0.54 0.64 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.54 0.65 0.65 0.65 0.65 0.65 0.55 0.65 0.55 0.	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Valve Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 Beta 0004 Beta 0004 Beta 0004 Beta 00516 Beta M515 Beta M5	Source 220 204 214 214 222 223 224 221 223 224 221 223 224 221 239 241 241 241 241 242 241 241 241 241 241	3.96 3.96" 14.44 19.07 <b>Mean</b> 2084.96 1799.75 1039.26 1945.97 1921.18 1940.70 2010.66 1725.54 1775.21 1775.54 1775.24 1775.24 1775.24 1775.24 1775.24 1775.24 1775.24 1775.24 1775.24 1775.24 1775.24 1942.93 1972.11 1684.48 2243.58 1972.11 1644.48 1941.39 1974.69 1841.11 1777.89	6 1999 (ppm) 5 102 5 105 105 106 95 96 100 06 0 95 100 105 106 106 106 106 106 95 95 100 105 106 106 99 95 121 105 100 94 95 94 100 96 96 96 96 96 96 96 96 96 96 96 96 96	P-val 0.00 0.42 0.20 0.12 0.13 0.02 0.03 0.05 0.03 0.05 0.03 0.05	3.74* 905.9 1196.46 Mean 220.011 293.50 223.61 213.55 224.67 213.55 226.60 227.75 213.55 226.60 227.75 214.71 226.92 227.76 215.15 209.62 227.76 217.03 214.71 226.42 217.03 214.71 225.42 219.83 191.72 226.42 217.62 226.42 217.03 214.71 225.42 219.83 214.71 225.42 219.83 219.75 226.46 229.62 229.64 24.64 24.64 24.64 24.64 24.64 24.64 24.64 24.64 24.64 24.64 24.64 2	18 1999 N (ppn 965 1255 999 94 1300 1300 1177 993 994 993 993 993 993 993 993 995 903 995 995 995 995 995 905 995 905 995 905 90	n) P-val 0.63 0.00 0.93 0.43 0.43 0.40 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.55 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.64 0.65 0	2 18** 0.13 0.17 Be Mean 0.00	15 1999 piters %		2,75 3,63 T. 3,60 3,11 2,25 2,18 3,00 2,82 2,73 2,66 2,73 2,55 2,69 3,35 2,69 3,35 2,55 2,55 2,55 2,55 2,55 2,55 2,55	18 1999 are (%) 117 101 73 71 101 101 101 101 101 102 89 86 81 101 104 94 104 94 138 94 138 94 138 81	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.99 0.54 0.14 0.99 0.54 0.14 0.99 0.66 0.49 0.66 0.66 0.67 0.07 0.04 0.06 0.65 0.54 0.09 0.54 0.09	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 321 ACH 392 ACH 392 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 Beta 4004 Beta 4013 Beta 4014 Beta 4014 Beta 4014 Beta 4014 Beta 4014 Beta 4014 Beta 4014	Source 220 204 214 200 222 222 222 223 224 221 223 224 221 223 224 221 223 224 221 223 224 224 223 224 228 228 228 228 228 228 228 228 227 228 228	3.96 3.96" 14.44 19.07 14.44 19.07 14.07 19.07 1	6 1999 (ppm) 7 102 17 105 105 105 106 96 95 100 105 105	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.20 0.13 0.20 0.20 0.20 0.13 0.20 0.20 0.20 0.13 0.20 0.20 0.20 0.13 0.20 0.000 0.00 0.00 0.00 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.0000 0.00000 0.00000 0.0000 0.00000000	3.74* 905.9 1196.46 <b>Mean</b> 220.91 220.91 220.91 220.90 223.46 215.53 296.63 209.60 213.55 299.63 209.00 213.55 299.63 209.00 213.55 209.42 217.75 219.63 214.71 227.75 219.63 214.71 219.72 219.72 219.65 239.66 232.96 233.96 235.96 235.97 235.96 295.96 205.96 205	18 1999 N (ppn 76 128 99 128 99 04 128 99 04 1300 94 99 90 94 90 90 95 104 101 117 107 107 107	n) P-val 0.63 0.00 0.43 0.75 0.34 0.75 0.34 0.42 0.43 0.28 0.43 0.49 0.49 0.49 0.49 0.49 0.55 0.55 0.55 0.55 0.55 0.55 0.65 0.42 0.63 0.42 0.65 0.43 0.42 0.65 0.43 0.43 0.44 0.44 0.55 0.43 0.44 0.44 0.45 0.44 0.45 0.44 0.45 0.55 0.55 0.65 0	2 16** 0.13 0.17 Be Mean 0.00	15 1999 piters %		2.75 3.63 T. Mean 3.00 3.11 2.25 2.83 3.00 2.82 2.64 2.82 2.64 2.82 2.64 2.82 2.64 2.82 2.64 2.82 2.64 2.82 2.83 3.00 3.35 2.89 3.20 4.24 4.24 4.24 2.25 3.00 4.12 2.55 3.00 3.30 3.55 3.00 3.50 3.50 3.50 3	18 1999 are (%) 117 101 101 101 101 101 101 102 121 89 86 81 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.03 0.95 0.54 0.11 0.30 0.54 0.66 0.64 0.66 0.66 0.66 0.67 0.071 0.07 0.071 0.00 0.88 0.15 0.55	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Valva Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 Beta M515 Beta M516 Beta M516 Beta M516 Beta M516 Beta M517 Beta M516 Beta M517 Beta M517 Beta M517 Beta M518 Beta M517 Beta M517 Beta M518 Beta M517 Beta M518 Beta M517 Beta M518 Beta M517 Beta M518 Beta M517 Beta M518 Beta M517 Beta M518 Beta M518 Bet	Source 220 234 214 230 222 233 224 221 233 224 237 231 237 240 241 241 241 241 241 241 241 241 241 241	3.96 3.96" 14.44 19.07 84 2084.96 1799.75 1939.26 1945.07 1921.16 1921.16 1945.07 1924.57 1925.19 1925.19 1752.19 1859.60 1077.0.1 1832.22 1942.93 1972.93 1972.93 1972.93 1972.93 1942.93 1972.93 1943.94 1943.95 1943.94 1943.95 1943.95 1943.95 1943.95 1943.95 1943.95 1943.95 1945.95 194	6 1999 (ppm) 5 102 5 105 105 105 105 105 105 106 95 90 95 100 105 108 89 95 121 100 108 89 95 94 100 96 96 99 91 105 94 96 96 96 96 91 91 91 91 91 91 91 91 91 91 91 91 91	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.03 0.03 0.03 0.03 0.03 0.03 0.05 0.19 0.06 0.00 0.00 0.00 0.019 0.10 0.00	3.74* 905.9 1196.46 Mean 220.01 215.53 200.00 227.75 200.01 227.75 201.01 201.01 201.01 201.01 200.01 200.01 227.75 201.01 201.01 201.01 200.0	18 1999 N (ppn % 96) 128 999 94 128 999 94 130 130 137 991 933 931 933 931 933 933 935 100 955 100 956 100 100 100 100 100 100 100 10	n) P-val 0.63 0.00 0.33 0.44 0.75 0.38 0.00 0.04 0.00 0.43 0.28 0.43 0.43 0.43 0.43 0.43 0.43 0.55 0.55 0.55 0.55 0.55 0.65 0.55 0	2 16** 0,13 0,17 Mean 0,000 0,000 0,0	15 1999 piters %		2 75 3.63 T. Mean 3.00 3.11 2 25 2 25 2 26 2 73 2 66 2 73 2 60 3 355 2 89 3 35 2 89 3 35 2 89 3 35 2 89 3 35 2 89 3 35 2 89 3 35 3 75 3	18 1999 are (%) % 117 101 101 101 101 101 101 102 87 87 87 87 87 87 80 80 92 92 81 101 109 92 81 101 109 82 81 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.03 0.54 0.11 0.31 0.39 0.54 0.49 0.64 0.64 0.64 0.66 0.74 0.001 0.67 0.67 0.67 0.04 0.04 0.05 0.74 0.001 0.49 0.64 0.001 0.49 0.64 0.001 0.49 0.64 0.001 0.54 0.64 0.54 0.64 0.65 0.54 0.64 0.64 0.65 0.54 0.64 0.64 0.65 0.54 0.64 0.65 0.54 0.64 0.65 0.54 0.64 0.65 0.54 0.64 0.65 0.54 0.64 0.65 0.64 0.64 0.05 0.54 0.64 0.05 0.54 0.64 0.05 0.54 0.64 0.05 0.54 0.54 0.57 0.54 0.57 0.75 0.75 0.75 0.75 0.75 0.75 0.57 0.57 0.75 0.57 0.75 0.57 0.57 0.75 0.57 0.75 0.57 0.75 0.57 0.75 0.57 0.57 0.75 0.57 0.75 0.57 0.75 0.57 0.75 0.57 0.75	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Valve Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 Beta 0004 Beta 0004 Beta 0004 Beta 00515 Beta M515 Beta M5	Source 220 204 214 200 222 222 222 223 224 221 223 224 221 223 224 221 223 224 221 223 224 224 223 224 228 228 228 228 228 228 228 228 227 228 228	3.96 3.96" 14.44 19.07 14.44 19.07 14.07 19.07 1	6 1999 (ppm) 7 102 17 105 105 105 106 96 95 100 105 105	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.20 0.13 0.20 0.20 0.20 0.13 0.20 0.20 0.20 0.13 0.20 0.20 0.20 0.13 0.20 0.000 0.00 0.00 0.00 0.0000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.0000 0.00000 0.00000 0.0000 0.00000000	3.74* 905.9 1196.46 <b>Mean</b> 220.91 220.91 220.91 220.90 223.46 215.53 296.63 209.60 213.55 299.63 209.00 213.55 299.63 209.00 213.55 209.42 217.75 219.63 214.71 227.75 219.63 214.71 219.72 219.72 219.65 239.66 232.96 233.96 235.96 235.97 235.96 295.96 205.96 205	18 1999 N (ppn 76 128 99 128 99 04 128 99 04 1300 94 99 90 94 90 90 95 104 101 117 107 107 107	n) P-val 0.63 0.00 0.93 0.43 0.43 0.43 0.49 0	2 18** 0.13 0.17 Be Mean 0.00	15 1999 piters %		2.75 3.63 T. 3.60 3.11 2.25 2.82 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.73 2.66 2.82 2.66 2.73 2.66 2.82 2.82 2.82 2.82 2.82 2.82 2.82	18 1999 are (%) % 117 101 73 71 101 101 101 92 89 81 101 100 94 104 104 104 104 104 104 104 10	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.49 0.66 0.54 0.14 0.49 0.66 0.66 0.74 0.00 0.66 0.74 0.00 0.65 0.05	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 321 ACH 392 ACH 392 ACH 392 ACH 392 Beta 4004 Beta 4004 Beta 4013 Beta 4014 Beta	Source 220 204 214 200 222 222 222 223 224 221 223 224 221 223 224 221 223 224 221 223 224 224 223 224 223 224 228 228 227 228 227 228 227 228 229 229 229 229 229 229 229 229 229	3.96 3.96" 14.44 19.07 14.907 14.44 19.07 14.07 14.07 19.07	6 1999 (ppm) 112 97 105 106 106 95 96 95 95 100 06 0 95 105 106 105 106 105 106 95 95 95 100 0 95 95 100 0 95 95 100 0 95 95 100 0 95 100 0 95 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P-val 0.00 0.42 0.20 0.13 0.02 0.03 0.05 0.03 0.05 0.03 0.05 0.03 0.05	3.74* 905.9 1196.46 Mean 220.011 290.50 215.53 224.01 212.55 215.53 226.60 227.75 215.53 226.60 227.75 215.53 226.90 227.75 215.53 226.90 227.75 217.03 214.71 226.92 209.42 217.03 214.71 225.42 219.83 219.83 211.75 239.62 226.92 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 239.62 226.94 217.75 226.94 217.75 226.94 217.75 226.94 217.75 226.94 217.75 226.94 217.55 226.94 227.75 226.94 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 226.94 227.75 227.75 226.94 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 227.75 226.94 225.24 225.21 225.222 225.222 225.222 225.2222 225.2222 225.22222 225.22222222	18 1999 N (ppn 76 128 128 96 128 96 97 93 1300 97 93 1300 96 96 96 96 95 96 95 95 95 104 96 95 104 97 97 97 97 97 91 97 91 97 91 97 91 97 91 97 91 97 91 97 97 97 97 97 97 97 97 97 97 97 97 97	n) P-val 0.63 0.00 0.33 0.44 0.75 0.38 0.00 0.04 0.00 0.43 0.28 0.43 0.43 0.43 0.43 0.43 0.43 0.55 0.55 0.55 0.55 0.55 0.65 0.55 0	2 16** 0,13 0,17 Mean 0,000 0,000 0,0	15 1999 piters %		2 75 3.63 T. Mean 3.00 3.11 2 25 2 25 2 26 2 73 2 66 2 73 2 60 3 355 2 89 3 35 2 89 3 35 2 89 3 35 2 89 3 35 2 89 3 35 2 89 3 35 3 75 3	18 1999 are (%) % 117 101 101 101 101 101 101 102 87 87 87 87 87 87 80 80 92 92 81 101 109 92 81 101 109 82 81 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.03 0.95 0.54 0.11 0.31 0.29 0.54 0.49 0.649 0.649 0.649 0.649 0.649 0.665 0.74 0.007 0.07	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 Beta M514 Beta M513 Beta M514 Beta M515 Beta M515 Beta M515 Beta M514 Beta M515 Beta M515 Beta M515 Beta M516 Beta M516 Beta M516 Beta M516 Beta M516 Beta M516 Beta M517 Beta M518 Beta M518 B	Source 220 204 214 203 202 202 203 203 203 203 203 203 203	3.96 3.96" 14.44 19.07 14.90 19.07 19.07 19.07 19.07 19.03 19.03 26 19.45.97 19.25 1	6 1999 (ppm) 7 102 17 105 105 105 106 96 95 96 90 105 100 105 100 105 100 105 100 105 100 105 100 99 105 100 105 100 99 105 100 90 90 90 90 90 90 90 90 90 90 90 90 9	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.02 0.13 0.02 0.06 0.03 0.03 0.03 0.05 0.05 0.05 0.000 0.00 0.00 0.00 0.0000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.0000 0.000000 0.0	3.74* 905.9 1196.46 <b>Mean</b> 220.91 220.91 220.90 223.46 215.53 224.07 213.55 299.63 209.63 209.63 209.63 209.63 209.63 214.71 213.55 209.42 214.71 214.71 225.42 214.71 215.42 209.72 214.71 215.53 214.71 215.53 209.63 214.71 215.53 209.63 214.71 215.53 209.63 214.71 215.53 209.63 214.71 215.55 214.71 215.55 214.71 214.71 217.75 217	18 1999 N (ppn 76 96) 128 99 94 99 94 93 1300 94 93 94 93 94 94 95 95 104 96 95 104 96 93 95 94 95 96 99 94 99 90 94 90 90 94 90 90 94 90 90 90 90 90 90 90 90 90 90	n) P-val 0.63 0.00 0.43 0.44 0.75 0.36 0.44 0.43 0.28 0.43 0.28 0.43 0.49 0.43 0.49 0.43 0.28 0.43 0.43 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.65 0.42 0.65 0.42 0.65 0.42 0.65 0.42 0.65 0.42 0.65 0.42 0.65 0.42 0.65 0.43 0.44 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.55 0.65 0	2 16** 0.13 0.17 Mean 0.00	15 1999 piters %		2.75 3.63 T. Mean 3.00 3.11 2.25 2.64 2.62 2.64 2.62 2.64 2.64 2.62 2.64 2.64	18 1999 are (%) 117 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.49 0.66 0.54 0.14 0.49 0.66 0.66 0.74 0.00 0.66 0.74 0.00 0.65 0.05	4.39* *			3.10** 86.74		
Coeff Of Var (%) T Value Weah LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 309 ACH 952 ACH 952 ACH 952 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 Beta 6904 Beta 6904 Beta 6904 Beta 7516 Beta M515 Beta M515 B	Source 220 204 214 203 202 202 203 203 203 203 203 203 203	3.96 3.96" 14.44 19.07 14.44 19.07 14.90 1799.75 1939.26 1939.	6 1999 (ppm) 5 102 5 105 105 105 105 105 105 106 95 95 95 95 100 00 00 99 105 106 89 95 94 100 108 89 96 95 94 100 100 96 95 94 100 101 96 95 91 101 100 96 95 91 101 100 96 95 91 101 90 96 95 91 101 90 96 95 95 95 95 95 95 95 95 95 95 95 95 95	P-val 0.00 0.42 0.20 0.17 0.12 0.13 0.22 0.13 0.02 0.13 0.03 0.03 0.03 0.04 0.05 0.19 0.06 0.00 0.00 0.019 0.10 0.19 0.10 0.19 0.10 0.019 0.10 0.019 0.10 0.019 0.10 0.019 0.10 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.05 0.019 0.05 0.019 0.05 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.0000000 0.00000000	3.74* 905.9 1196.46 Mean 220.01 220.01 220.01 220.05 224.65 224.65 224.67 224.67 2215.53 224.67 2215.53 226.60 2215.53 224.67 2215.15 209.63 227.75 215.15 209.63 214.71 227.75 214.71 227.76 232.66 233.66 233.66 232.66 232.66 232.66 232.66 232.66 245.64 225.64 226.83 208.67 226.64 226.64 226.64 226.83 208.67 226.64 226.64 226.83 208.67 226.64 226.64 226.64 226.83 208.67 226.64 226.64 226.83 208.67 226.64 226.64 226.83 208.67 226.64 226.83 226.64 226.64 226.83 226.64 226.83 226.64 226.64 226.83 226.64 226.64 226.85 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.64 226.65 226.65 226.65 226.65 226.65 226.65 226.65 227.75 209.65 227.75 209.65 200.65 2	18 1999 N (ppn % 96) 128 999 94 128 999 94 130 130 137 991 933 931 933 931 933 931 933 935 130 043 935 949 957 957 957 957 957 957 957 95	n) P-val 0.63 0.00 0.33 0.44 0.75 0.38 0.00 0.42 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.44 0.59 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.64 0.42 0.63 0.42 0.63 0.42 0.63 0.42 0.65 0.55 0.64 0.42 0.65 0.65 0.55 0	2 16** 0,13 0,17 Mean 0,000 0,00 0,00	15 1999 piters %		2 75 3.63 T. Mean 3.00 3.11 2 25 2 25 2 73 2 66 2 73 2 66 3 355 2 89 3 355 2 89 3 355 2 89 3 30 3 355 2 89 3 30 3 35 3 20 3 35 3 20 3 35 2 89 3 30 3 35 2 89 3 30 3 35 2 89 3 30 3 35 2 89 3 30 3 35 3 20 3 30 3 35 3 20 3 30 3 20 3 30 3 30 3 30 3 30 3 30 3 20 3 20	18 1999 are (%) % 117 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.03 0.54 0.11 0.31 0.39 0.54 0.49 0.64 0.66 0.49 0.66 0.64 0.00 0.66 0.76 0.66 0.66 0.76 0.00 0.68 0.05 0.00 0.64 0.00 0.65 0.00 0.49 0.64 0.00 0.65 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.54 0.00 0.66 0.00	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Valve Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 Beta 0004 Beta 0004	Source 220 204 214 203 202 202 203 203 203 203 203 203 203	3.96 3.96" 14.44 19.07 14.90 19.07 19.07 19.07 19.07 19.03 19.03 26 19.45.97 19.25 1	6 1999 (ppm) 5 102 5 105 106 95 96 100 05 106 95 95 100 06 0 105 106 99 95 121 100 96 91 100 96 101 90 91 101 99 91 101 99 96 96 96 96 96 96 96 96 96 96 96 96	P-val 0.00 0.42 0.20 0.13 0.02 0.13 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.05 0.000 0.00 0.00 0.00 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.000000 0.00000000	3.74* 905.9 1196.46 Mean 220.91 220.91 220.91 220.40 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 220.91 221.76 220.98 221.76 221.76 229.62 229.63 226.42 217.03 214.71 209.42 217.03 214.71 226.42 219.83 219.83 219.62 229.67 226.67 221.66 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.69 221.95 221.69 221.69 221.95 221.69 225.69 225.69 225.69 225.69 225.69 225.69 225.69 225.69 227.75 229.60 226.69 226.69 227.75 229.60 226.69 227.75 229.60 226.69 226.69 227.75 229.60 226.69 226.69 226.69 227.75 229.60 226.69 226.69 227.75 229.60 229.60 226.69 226.69 226.69 227.75 229.60 226.69 226.69 227.75 229.60 229.60 229.60 227.75 229.60 229.60 229.60 227.75 229.60 229.60 229.60 229.60 229.60 229.60 220.60 227.75 229.60 220.60 227.75 229.60 220.60 227.75 220.60 227.75 229.60 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 227.75 220.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.60 225.20 20.20 20.20 20.20 20.20 20	18 1999 N (ppn 76 128 993 128 993 94 1300 993 1300 993 1300 993 995 995 995 104 995 104 995 104 107 94 107 94 107 94 107 94 107 94 107 94 107 95 107 95 108 108 108 108 108 108 108 108	n) P-val 0.633 0.00 0.933 0.44 0.75 0.38 0.00 0.04 0.49	2 16** 0.13 0.17 Be Mean 0.00	15 1999 piters %		2,75 3,63 T. 3,60 3,11 2,25 2,82 2,66 2,73 2,66 2,73 2,82 2,66 2,73 2,82 2,66 2,73 2,82 2,66 2,73 2,82 2,66 2,73 2,82 2,82 2,82 2,82 2,82 2,82 2,82 2,8	18 1999 are (%) % 117 101 73 71 101 101 101 92 89 81 101 100 94 104 104 104 105 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.49 0.66 0.49 0.66 0.67 0.07 0.07 0.04 0.09 0.64 0.09 0.54 0.19 0.29 0.54 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.00 0.07 0.75 0.07 0.75	4.39* *			3.10** 86.74		
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 909 ACH 921 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 ACH 953 Beta 4004 Beta 4013 Beta 4014 Beta 4014	Source 220 204 214 200 222 223 223 224 221 223 224 223 224 223 224 223 224 224 223 224 224	3.96 3.96*** 14.44 19.07 ** ** ** ** ** ** ** ** ** ** ** ** **	6 1999 (ppm) 5 102 5 105 106 95 96 100 05 106 95 95 100 06 0 105 106 99 95 121 100 96 91 100 96 101 90 91 101 99 91 101 99 96 96 96 96 96 96 96 96 96 96 96 96	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.02 0.13 0.02 0.06 0.03 0.03 0.06 0.03 0.06 0.05 0.00 0.13 0.02 0.13 0.02 0.06 0.13 0.02 0.06 0.02 0.06 0.13 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.00 0.06 0.00 0.06 0.05 0.05 0.00 0.06 0.00 0.05	3.74* 905.9 1196.46 <b>Mean</b> 220.91 220.91 220.90 223.66 215.53 224.07 213.55 299.63 209.60 215.53 299.63 209.00 213.55 299.63 209.00 213.55 209.42 217.75 213.55 209.42 217.75 219.83 191.72 219.83 191.72 219.65 239.62 200.77 221.765 239.62 200.77 221.65 239.62 200.77 221.65 239.62 200.77 221.65 239.62 200.77 221.65 239.62 200.77 221.65 200.77 200.77 21.55 200.77 21.55 200.77 21.55 200.77 21.55 200.77 21.55 200.77	18 1999 N (ppn 76 128 993 128 993 94 1300 993 1300 993 1300 993 995 995 995 104 995 104 995 104 107 94 107 94 107 94 107 94 107 94 107 94 107 95 107 95 108 108 108 108 108 108 108 108	n) P-val 0.633 0.00 0.933 0.44 0.75 0.38 0.00 0.04 0.49	2 16** 0.13 0.17 Be Mean 0.00	15 1999 piters %	Presi	2.75 3.63 T. Mean 3.00 3.111 2.215 2.215 2.25 2.25 2.72 2.64 2.82 2.82 2.82 2.64 2.82 2.82 2.64 2.82 2.84 2.82 2.85 2.80 3.35 2.80 3.35 2.80 3.30 2.80 2.80 3.35 2.50 3.00 3.20 3.20 3.20 3.20 3.20 3.20 3.2	18 1999 are (%) % 117 101 73 71 101 101 101 92 89 81 101 100 94 104 104 104 105 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.49 0.66 0.49 0.66 0.67 0.07 0.07 0.04 0.09 0.64 0.09 0.54 0.19 0.29 0.54 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.00 0.07 0.75 0.07 0.75	4.39* *			3.10** 86.74		
Coeff. Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 953 ACH 953 ACH 953 Beta M513 Beta M515 Beta M516 Beta M516 B	Source 220 204 214 200 222 223 223 224 221 223 224 223 224 223 224 223 224 224 223 224 224	3.96 3.96************************************	6 1999 (ppm) 5 102 5 105 105 105 105 105 106 95 95 95 95 95 95 95 95 95 95 95 95 95	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.02 0.13 0.02 0.06 0.03 0.03 0.06 0.03 0.06 0.05 0.00 0.13 0.02 0.13 0.02 0.06 0.13 0.02 0.06 0.02 0.06 0.13 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.00 0.06 0.00 0.06 0.05 0.05 0.00 0.06 0.00 0.05	3.74* 905.9 1196.46 <b>Mean</b> 220.01 230.50 228.46 215.53 224.07 2215.53 224.67 213.55 299.63 266.00 2215.53 299.63 266.00 2215.53 299.63 209.63 209.63 209.63 209.63 209.63 214.21 209.63 214.21 209.63 214.21 209.63 214.21 209.67 217.76 239.62 200.77 221.76 239.62 200.67 245.64 225.54 215.00 245.64 215.00 253.39 236.22 100.15 200.87	18 1999 N (ppn % 128) 999 94 128 999 94 130 93 93 93 93 93 93 93 93 93 93	n) P-val 0.633 0.00 0.933 0.44 0.75 0.38 0.00 0.04 0.49	2 16** 0.13 0.17 Be Mean 0.00	15 1999 piters %	Presi	2 75 3.63 T. Mean 3.00 3.11 2 25 2 25 2 73 2 66 2 73 2 66 2 72 2 66 2 73 2 60 3 355 2 69 2 73 2 60 3 355 2 69 2 73 2 60 3 355 2 69 3 20 3 30 3 30 3 30 3 30 3 30 3 35 2 69 2 72 3 75 3 00 3 20 3 30 3 35 2 69 2 72 3 75 3 00 3 20 3 35 2 69 2 72 3 75 3 07 3 2 79 3 07 3 2 9 1 03 <sup>1</sup>	18 1999 are (%) % 117 101 73 71 101 102 101 102 80 80 81 104 108 81 124 109 92 80 81 109 94 101 109 92 80 80 80 80 80 80 80 80 80 80	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.49 0.66 0.49 0.66 0.67 0.07 0.07 0.04 0.09 0.64 0.09 0.54 0.19 0.29 0.54 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.00 0.07 0.75 0.07 0.75	4.39* *			3.10** 86.74		
Coeff Of Var (%) F Value Mean LSD (0.05) Mean LSD (0.05) Mean LSD (0.01) Entry ACH 309 ACH 921 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 ACH 952 ACH 953 Beta M514 Beta M514 Beta M513 Beta M514 Beta M513 Beta M514 Beta M513 Beta M513 Beta M514 Beta M513 Beta M514 Beta M513 Beta M514 Beta M513 Beta M514 Beta M513 Beta M513 Beta M514 Beta M513 Beta M514 Beta M513 Beta M514 Beta M513 Beta M514 Beta M513 Beta M514 Beta M514 Beta M515 Beta M514 Beta M515 Beta M514 Beta M515 Beta M516 Beta M516 Beta M516 Beta M516 Beta M517 Check of Mean Coeff, Of Var (?b)	Source 220 204 214 200 222 223 223 224 221 223 224 223 224 223 224 223 224 224 223 224 224	3.96 3.96*** 14.44 19.07 ** ** ** ** ** ** ** ** ** ** ** ** **	6 1999 (ppm) 5 102 5 105 106 95 96 100 05 106 95 95 100 06 0 0 105 106 99 95 121 100 96 91 100 96 101 90 91 101 99 91 101 99 96 96 96 96 96 96 96 96 96 96 96 96	P-val 0.00 0.42 0.20 0.17 0.32 0.13 0.20 0.02 0.13 0.02 0.06 0.03 0.03 0.06 0.03 0.06 0.05 0.00 0.13 0.02 0.13 0.02 0.06 0.13 0.02 0.06 0.02 0.06 0.13 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.02 0.06 0.00 0.06 0.00 0.06 0.05 0.05 0.00 0.06 0.00 0.05	3.74* 905.9 1196.46 <b>Mean</b> 220.91 220.91 220.90 223.66 215.53 224.07 213.55 299.63 209.60 215.53 299.63 209.00 213.55 299.63 209.00 213.55 209.42 217.75 213.55 209.42 217.75 219.83 191.72 219.83 191.72 219.65 239.62 200.77 221.765 239.62 200.77 221.65 239.62 200.77 221.65 239.62 200.77 221.65 239.62 200.77 221.65 239.62 200.77 221.65 200.77 200.77 21.55 200.77 21.55 200.77 21.55 200.77 21.55 200.77 21.55 200.77	18 1999 N (ppn 76 128 993 128 993 94 1300 993 1300 993 1300 993 995 995 995 104 995 104 995 104 107 94 107 94 107 94 107 94 107 94 107 94 107 95 107 95 108 108 108 108 108 108 108 108	n) P-val 0.633 0.00 0.933 0.44 0.75 0.38 0.00 0.04 0.49	2 16** 0.13 0.17 Be Mean 0.00	15 1999 piters %	Presi	2.75 3.63 T. Mean 3.00 3.111 2.215 2.215 2.25 2.25 2.72 2.64 2.82 2.82 2.82 2.64 2.82 2.82 2.64 2.82 2.84 2.82 2.85 2.80 3.35 2.80 3.35 2.80 3.30 2.80 2.80 3.35 2.50 3.00 3.20 3.20 3.20 3.20 3.20 3.20 3.2	18 1999 are (%) % 117 101 73 71 101 101 101 92 89 81 101 100 94 104 104 104 105 101 101 101 101 101 101 101	P-val 0.18 0.92 0.04 0.05 0.54 0.11 0.31 0.39 0.29 0.54 0.14 0.49 0.66 0.49 0.66 0.67 0.07 0.07 0.04 0.09 0.64 0.09 0.54 0.19 0.29 0.54 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.06 0.09 0.00 0.07 0.75 0.07 0.75	4.39* *			3.10** 86.74		

\* Significant at 5%. \*\* Significant at 1%. Ns Not Significant 2nd column for each trait is percent of check. General Mean used as check. 3rd column for trait is probability that detection of a diff. (from check mean) of this size is due to chance. Mean LSD is only appropriate for comparing entry means with each other when F value is significant.

# American Crystal Sugar Co. - Technical Service Center Southern Minnesota Semi Commercial Coded Trial - Lattice Trial 995614, Degraff, MN Planting Date: 04/28/1999 Harvest Date: 10/03/1999 30 Entries 6 Reps X Loc 2 Rows/Plot 1 Samples/Plot

Entry	Source	R	1999 ec/T (ibs	)	R	1999 c/A (lbt	10	Lo	1999 ss to Mo	я.	Ŷ	1999 eld (T/A		s	1999 lugar %	8	N	1999 (a (ppm)	8
		Mean	%	P-val	Mean	\$	P-val	Mean	%	P-val	Mean	%	P-val	Mean	%	P-val	Mean	%	P-val
ACH 309	220	275.32	99	0.53	5773.72	103	0.62	1.03	105	0.20	20.94	104	0.34	14.79	99	0.61	623.94	107	0.35
ACH 921	234	290.29	104	0.07	5720.37	102	0.76	1.02	104	0.34	19.66	98	0.61	15.52	104	0.045	613.37	106	0.48
ACH 952	214	295.82	106	0.01	6309.82	112	0.02	1.04	106	0.15	21.11	105	0.25	15.82	106	0.00	628.46	108	0.30
ACH 953	230	274.82	98	0.48	5451.68	97	0.55	1.05	108	0.05	19.82	99	0.74	14.80	99	0.63	729.54	126	0.00
ACH 999	222	287,73	103	0.16	6006 96	107	0.20	0.95	97	0.51	20.64	103	0.54	15.35	103	0.15	545.30	94	0.44
Beta 6904	233	278.41	100	0.90	5469.04	97	0.59	0.98	101	0.85	19.80	99	0.73	14.90	100	0.90	672.31	116	0.05
Beta M5216	224		97	0.16	5212.54	93	0.16	1.00	103	0.53	19.28	96	0.35	14.55	97	0.17	627.47	108	0.31
Bela M813	221		102	0.44	5941.66	106	0.29	0.99	101	0.75	20.95	104	0.33	15.18	102	0.39]	590.49	102	0.83
Beta M814	239	290.12	104	0.08	5564.74	99	0.83	0.95	97	0.52	19.21	96	0.31	15.45	104	0.06	546.20	94	0.46
Beta M815	217	286.52	103	0.23	5501.24	98	0.66	0.90	.92	0.05	19.35	96	0.30	15.22	102	0.31	527.84	91	0.25
Beta M931	231	270.20	97	0.14	5484.98	97	0.62	1.00	102	0.62	20.26	101	0.85	14.51	97	0.13	632.97	109	0.26
Beta M932	237	293.90	105	0.02	6133.11	109	0.09	0.90	93	0.07	20.94	104	0.34	15.50	104	0.02	565.61	97	0.75
Filler 1	240	285.13	102	0.33	5558.91	99	0.81	0.92	94	0.14	19.55	97	0.53	15.16	102	0.42	468.21	81	0.02
Filler 2	241	286.33	103	0.24	5742.21	102	0.70	0.94	96	0.36	20.02	100	0.93	15.26	102	0.26	547.39	94	0.47
Filler 3	242	260.10	93	0.00	5084.06	90	0.07	1.07	109	0.02	19.22	96	0.31	14.06	94	0.00	618.66	107	0.41
HM 1642	228	276.63	99	0.68	6081.65	108	0.12	0.98	100	0.98	21.61	109	0.05	14.00	99	0.64	641.25	110	0.19
HM 1643	238	278.98	100	0.97	5753.31	102	0.67	0.92	94	0.14	20.47	102	0.67	14.86	100	0.80	659.73	114	0.09
HM 1645	223	247.33	89	0.00	4850.34	86	0.01	1.25	128	0.00	10.34	96	0.38	13.61	91	0.001	719.95	124	0.00
HM 7083	215	269.71	67	0.12	5472.70	97	0.60	1.02	105	0.27	20.38	101	0.77	14.50	97	0.13	701.39	121	0.01
H\$4 7089	216		101	0.59	6579.46	117	0.00	0.88	90	0.01	23.19	115	0.00	15.01	100	0.79	486.51	84	0.04
HM 7097	227	291.26	104	0.05		109	0.10	0.90	92	0.04	20.99	104	0.31	15.46	103	0.07	379.80	65	0.00
HM 7100	236	287.46	103	0.18	6129.35	109	0.09	0.93	95	0.25	21.39	106	0.14	15.31	102	0.19	476.94	82	0.03
HM 7101	232	286.96	103	0.20	5533.48	98	0.75	0.95	97	0.45	19.47	97	0.47	15.30	102	0.20	414.45	71	0.00
HM E26	235	277.92	100	0.84		80	0.00	0.95	68	0.00	16.24	81	0.00	14,77	991	0.56	554.07	95	0.57
HM E38	219	277.54	99	0.79	5662.72	101	0.91	0.97	99	0.87	20.18	100	0.93	14.85	90	0.75	531.84	92	0.29
HM Hector	226	272.71	98	0.29	5189.91	92	0.14	0.98	100	0.94	18.76	93	0.13	14.62	98	0.27	609.91	105	0.52
HM RH5	213	285.57	102	0.30	6064.07	108	0.14	0.90	92	0.05	21.00	104	0.30	15.17	102	0.40	\$19.62	90	0.19
Seedex Laser	229	258.70	93	0.00	5001.29	89	0.03	1.05	108	0.061	19.46	97	0.465	13.99	94	0.00	634.42	109	0.24
Seedex 5X 1017	218	277.51	99	0.78		98	0.67	1.01	104	0.34	19.67	98	D.62	14.89	100	0.85	535.18	92	0.33
Van der Have H66454		275.23	99	0.52	5472.14	97	0.59	0.99	101	0.82	19.95	991	0.69	14.76	99	0.53	612.64	106	0.49
Check of Mean		279.18			5628.86			0.98			20.10			14.94			580.51		
Coeff. Of Var (%)		5.15			12.11			10.16			10.23		0.5	4.44		5.5	18.53		
F Value		3.18**	1.20		2.33**		-	3.50**			1.81*	1.02		3.07**	23	- 23	3.18**	1227	
Mean LSD (0.05)		17.37	6		833.85	15		0.11	12		2.47	12		0.8	5		130.7	23	
Mean LSD (0.01)		22.94	в		1101.69	20		0.15	15		3.27	16		1.06	7		172.68	30	
Entry			1999			1999			1999			1999							
	Source	,	(ppm)	- 1	Am	N (ppn	n)	8	otters %		т	are (%)							
	Source	Mean	( (ppm) %	P-val	Am Mean	N (ppn	P-val	Mean	%	P-val	Mean	are (%) %	P-val						
		Mean	\$		Mean	%	P-val	Mean			Mean	%							
ACH 309	220	Mean 1538.50	% 108]	0.03	Mean 150.21	%	P-val 0.63	Mean 0.00]			Mean 3.08	% 109	0.59						
ACH 309 ACH 921	220	Mean 1538.50 1447.00	% 108 102	0.03	Mean 159.21 171.19	% 96] 104	P-val 0.63 0.64	Mean 0.00 0.00			Mean 3.08 3.17	% 109 112	0.59						
ACH 309 ACH 921 ACH 952	220 234 214	Mean 1538.50 1447.00 1471.00	% 108 102 103	0.03	Mean 150.21 171.19 167.12	% 96 104 101	P-val 0.63 0.64 0.88	Mean 0.00 0.00 0.00			Mean 3.08 3.17 3.16	% 109 112 112	0.59 0.46 0.46						
ACH 309 ACH 921 ACH 952 ACH 953	220 234 214 230	Mean 1538.50 1447.00 1471.00 1531.50	% 108 102 103 107	0.03 0.67 0.37 0.04	Mean 150.21 171.19 167.12 146.45	% 96 104 101 89	P-val 0.63 0.64 0.88 0.13	Mean 0.00 0.00 0.00 0.00			Mean 3.08 3.17 3.16 2.60	% 109 112 112 94	0.59 0.46 0.46 0.71						
ACH 309 ACH 921 ACH 921 ACH 953 ACH 953 ACH 959	220 234 214 230 222	Mean 1538.50 1447.00 1471.00 1531.50 1385.33	108 102 103 107 97	0.03 0.67 0.37 0.04 0.44	Mean 150.21 171.19 167.12 146.45 159.92	96 104 101 89 97	P-yal 0.63 0.64 0.88 0.13 0.67	Mean 0.00 0.00 0.00 0.00 0.00			Mean 3.08 3.17 3.16 2.60 2.28	% 109 112 112 94 80	0.50 0.46 0.46 0.71 0.23						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 959 Bega 6904	220 234 214 230 222 233	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67	% 108 102 103 107	0.03 0.67 0.37 0.04 0.44 0.06	Mean 150.21 171.19 167.12 146.45 159.92 161.78	% 96 104 101 89 97 98	P-val 0.63 0.64 0.88 0.13 0.67 0.78	Mean 0.00 0.00 0.00 0.00 0.00			Mean 3.08 3.17 3.16 2.66 2.28 3.90	% 109 112 112 112 94 80 138	0.59 0.46 0.46 0.71 0.23 0.02						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 959 Beig 9004 Beig 9004 Beig M5210	220 234 214 230 222 233 224	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83	% 108 102 103 107 97 93 105	0.03 0.67 0.37 0.04 0.44 0.06 0.16	Mean 150.21 171.19 167.12 146.45 159.92 161.78 161.31	% 96 104 101 89 97 98 98 98	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80	% 109 112 112 112 94 80 138 99	0.59 0.46 0.46 0.71 0.23 0.02 0.95						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 953 Bela 9904 Bela M6216 Bela M613	220 234 214 230 222 233 224 221	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83 1505.83	108 102 103 107 97 93	0.03 0.67 0.37 0.04 0.44 0.06 0.16 0.12	Mean 150.21 171.19 167.12 146.45 159.02 161.78 161.31 147.31	% 104 101 89 97 98 98 98 98	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80 2.80 2.48	% 109 112 112 94 80 138 99 88	0.59 0.46 0.46 0.71 0.23 0.02 0.95 0.45						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 959 Beta 9004 Beta 90516 Beta 9014	220 234 214 230 222 233 224 221 239	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83	% 108 102 103 107 97 93 105 106	0.03 0.67 0.37 0.04 0.44 0.06 0.16	Mean 150.21 171.19 167.12 146.45 159.92 161.78 161.31	% 96 104 101 89 97 98 98 98 98 98 98 90	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.50	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80 2.40 2.25	% 109 112 112 94 80 138 99 88 80	0.59 0.46 0.46 0.71 0.23 0.02 0.95 0.45 0.21						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 953 Bela 9094 Bela M5216 Bela M613 Bela M614 Bela M615	220 234 214 230 222 233 224 221	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83 1505.83 1399.67	\$6 108 102 103 107 97 93 105 105 105	0.03 0.67 0.37 0.04 0.44 0.06 0.16 0.12 0.62	Mean 159.21 171.19 167.12 146.45 159.92 161.78 161.31 147.31 173.71	% 104 101 89 97 98 98 98 98	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80 2.80 2.80 2.25 2.78	% 109 112 112 94 80 138 99 88	0.59 0.46 0.71 0.23 0.02 0.95 0.45 0.21 0.91						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 953 Beta 999 Beta 9904 Beta M6216 Beta M813 Beta M815 Beta M815 Beta 9031	220 234 214 230 222 233 224 221 239 217	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1399.67 1400.17	% 108 102 103 107 97 93 105 105 106 98 98	0.03 0.67 0.37 0.04 0.44 0.06 0.15 0.12 0.62 0.63	Mean 150.21 171.19 167.12 146.45 159.92 161.78 161.31 147.31 173.71 135.30	% 96 104 101 89 97 96 98 89 105 82	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.50 0.02	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80 2.40 2.25	% 109 112 112 94 80 138 99 88 80 99 98	0.59 0.46 0.46 0.71 0.23 0.02 0.95 0.45 0.21						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 959 Beta M5216 Beta M5216 Beta M513 Beta M514 Beta M515 Beta M515 Beta M515	220 234 214 230 222 233 233 224 221 239 217 231	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1509.67 1400.17 1445.67	% 108 102 103 107 93 105 106 98 98 98 101	0.03 0.67 0.37 0.04 0.44 0.06 0.15 0.12 0.62 0.63 0.69	Mean 159.21 171.19 167.12 146.45 159.92 161.78 161.31 147.31 173.71 135.30 163.00	% 96 104 101 89 97 98 98 89 105 82 99	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.50 0.02 0.86	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80 2.40 2.25 2.78 2.78 2.80 2.66	% 109 112 112 94 80 138 99 88 80 99 99	0.59 0.46 0.46 0.71 0.23 0.02 0.05 0.45 0.21 0.91 0.95						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 959 Bela 904 Bela 904 Bela M613 Bela M613 Bela M615 Bela M931 Bela M932 Filier 1	220 234 214 230 222 233 224 221 239 217 231 231	Mean 1538,50 1447,00 1531,50 1385,33 1326,67 1496,83 1505,83 1399,67 1400,17 1445,67 1445,67 1373,43	% 108 102 103 107 97 93 105 106 98 98 98 101 96	0.03 0.67 0.37 0.04 0.04 0.06 0.16 0.16 0.62 0.62 0.63 0.69 0.31	Mean 159.21 171.19 167.12 146.45 159.92 161.78 161.31 147.31 147.31 173.71 135.30 103.00 126.39	% 96 104 101 89 97 96 88 89 105 82 99 76	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.50 0.02 0.86 0.00	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80 2.48 2.48 2.25 2.78 2.80	% 109 112 112 94 80 138 80 99 88 80 99 99 94	0.59 0.46 0.46 0.71 0.23 0.02 0.95 0.25 0.21 0.91 0.95 0.71						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 959 Bela M5216 Bela M5216 Bela M515 Bela M515 Bela M515 Bela M515 Filter 1 Filter 2	220 234 214 213 222 233 224 221 230 217 231 237 231 237 240	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1505.83 1505.83 1399.67 1400.17 1445.67 1373.43	% 108 102 103 107 97 93 105 106 98 98 58 101 06 101	0.03 0.67 0.37 0.04 0.44 0.06 0.15 0.62 0.62 0.63 0.63 0.69 0.31 0.80	Mean 159.21 171.19 167.12 146.45 159.92 161.78 161.31 147.31 173.71 135.30 163.00 126.39 161.82	% 96 104 101 89 97 96 68 89 105 62 99 76 58	P-val 0.63 0.64 0.88 0.18 0.78 0.78 0.78 0.15 0.50 0.02 0.86 0.00 0.78	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			Mean 3.08 3.17 3.16 2.28 2.28 2.80 2.40 2.40 2.48 2.25 2.78 2.80 2.60 3.27	% 109 112 112 94 80 138 99 88 80 99 98 99 94 116	0.59 0.46 0.46 0.71 0.23 0.95 0.45 0.21 0.91 0.95 0.71 0.95 0.71 0.94 0.71						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 958 Beta M5216 Beta M5216 Beta M513 Beta M514 Beta M515 Beta M515 Beta M515 Filer 1 Filer 2 Filer 3	220 234 214 230 222 233 224 221 239 217 239 217 237 237 237 240 241	Mean 1538.50 1447.00 1471.00 1531.50 1535.67 1496.83 1505.83 1505.83 1599.67 1400.17 1400.17 1445.67 1373.43 1387.00	% 108 102 103 107 97 93 105 106 98 98 98 98 101 96 101 97	0.03 0.67 0.37 0.44 0.44 0.06 0.18 0.62 0.62 0.63 0.06 0.31 0.80 0.31	Mean 159.21 171.19 167.12 146.45 159.92 161.78 161.31 147.31 173.71 135.30 163.00 163.00 163.92 161.52	% 96 104 104 97 98 98 89 105 82 99 96 76 98 98 98	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.50 0.02 0.02 0.06 0.00 0.00 0.78 0.78	Mean 0.00			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.80 2.48 2.25 2.78 2.60 2.60 3.27 3.18 2.51	% 109 112 112 94 80 138 99 88 80 98 80 98 80 99 99 94 115 113	0.50 0.46 0.46 0.71 0.23 0.02 0.95 0.45 0.21 0.91 0.95 0.71 0.95 0.71 0.95						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 959 Bela 0904 Bela 06216 Bela 06216 Bela 0613 Bela 0615 Bela 0615 Bela 0932 Filler 1 Filler 2 Filler 3 Filler 3 Filler 3	220 234 214 230 223 223 224 221 233 224 221 233 217 231 237 240 241 241 242	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1326.67 1496.83 1399.67 1496.83 1399.67 1400.17 1445.67 1373.43 1437.03 1387.03 1387.03 1387.03 1387.03 1387.03 1387.03 1387.03 1387.03 1387.03 1387.03 1387.03 1387.03 1445.07 1373.43 1387.03 1387.03 1387.03 1445.07 1445.07 1373.43 1387.03 1387.03 1445.07 1445.07 1373.43 1387.03 1387.03 1445.07 1445.07 1445.07 1373.43 1387.03 1387.03 1457.03 1507.03 1507.03 1507.03 1507.03 1507.03 1507.03 1507.03 1507.03 1457.03 1507.0	% 108 102 103 107 97 93 105 106 98 98 101 98 98 101 96 101 97 105	0.03 0.07 0.37 0.04 0.44 0.06 0.15 0.12 0.62 0.63 0.09 0.31 0.80 0.46 0.14	Mean 150.21 171.19 167.12 146.45 159.02 161.31 147.31 173.71 135.30 126.39 163.00 126.39 161.62 101.55	% 96 104 101 89 97 98 98 89 105 82 99 96 82 99 76 88 98 98 115	P-val 0.63 0.64 0.88 0.13 0.67 0.76 0.75 0.15 0.55 0.00 0.02 0.86 0.00 0.78 0.78 0.00 0.78 0.00 0.78 0.00	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.68 2.28 3.90 2.60 2.48 2.25 2.78 2.60 2.60 2.60 2.25 2.78 2.60 2.60 3.27 3.18	% 109 112 112 94 80 138 99 98 88 80 99 94 116 113 99	0.59 0.46 0.46 0.71 0.23 0.95 0.45 0.21 0.91 0.95 0.71 0.95 0.71 0.94 0.71						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 959 Beta M613 Beta M613 Beta M613 Beta M615 Beta M615 Beta M615 Beta M032 Filler 1 Filler 2 Filler 3 HM 1642 HM 1642 HM 1643	220 234 214 233 222 233 224 239 217 239 217 231 237 240 241 242 248 241 238	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1505.83 1505.83 1505.83 1507.83 1507.83 1507.83 1507.83 1507.83 1507.83 1507.83 1507.85 1507.8	% 108 102 103 107 93 105 106 98 98 98 98 98 101 98 101 96 101 97	0.03 0.67 0.37 0.04 0.44 0.06 0.15 0.62 0.62 0.63 0.69 0.31 0.60 0.44 0.31	Mean 150.21 171.19 167.12 146.45 150.02 161.76 161.31 147.31 147.31 147.31 135.30 163.30 163.30 164.62 161.62 161.52 191.15 143.09	% 96 104 101 89 97 96 89 105 82 99 76 82 99 76 98 98 116 87	P-val 0.53 0.64 0.88 0.15 0.78 0.75 0.55 0.55 0.55 0.50 0.62 0.86 0.00 0.78 0.78 0.78 0.75 0.50 0.50 0.78 0.75 0.50 0.78 0.75 0.78 0.75 0.75 0.78 0.75 0.78 0.78 0.75 0.78 0.75 0.78 0.78 0.78 0.78 0.78 0.78 0.75 0.78 0.78 0.78 0.78 0.78 0.75 0.78 0.78 0.75 0.78 0.78 0.75 0.78 0.78 0.75 0.78 0.78 0.75 0.78 0.78 0.75 0.78 0.78 0.75 0.78 0.78 0.78 0.78 0.75 0.78 0.08	Mean 0.00			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.40 2.48 2.25 2.78 2.80 2.66 3.27 3.18 2.66 3.27 3.18 2.51 2.51 3.00	% 109 112 112 94 80 138 90 88 80 99 94 116 113 99 106	0.59 0.46 0.46 0.71 0.23 0.05 0.45 0.45 0.45 0.95 0.71 0.95 0.71 0.34 0.97 0.71						
ACH 309 ACH 921 ACH 921 ACH 952 ACH 953 ACH 958 Beta M5216 Beta M516 Beta M516 Beta M516 Beta M515 Beta M515 Beta M515 Beta M515 Beta M515 Filler 1 Filler 2 Filler 3 HM 1542 HM 1643 HM 1645	220 234 214 230 222 233 224 239 217 239 217 231 239 241 241 242 228 241 242 228 238 223	Mean 1538.50 1447.00 1471.00 1531.50 1385.33 1595.83 1595.83 1595.83 1596.67 1496.83 1596.67 1496.83 1597.83 1390.67 1496.83 1390.67 1496.13 1397.60 1501.42 1379.50	% 108 102 103 107 93 105 106 98 98 98 98 98 101 96 101 97 105 97 80	0.03 0.67 0.37 0.04 0.44 0.06 0.12 0.62 0.63 0.03 0.03 0.03 0.03 0.03 0.03 0.46 0.31 0.80 0.46 0.14 0.37	Mean 150.21 171.19 167.12 146.45 159.02 161.78 161.78 161.78 161.78 161.78 161.78 161.37 103.00 126.39 163.00 126.39 161.52 163.55	% 96 104 101 89 97 98 98 89 105 89 99 76 98 99 76 98 98 116 87 100	P-val 0.63 0.64 0.66 0.13 0.67 0.15 0.50 0.02 0.86 0.00 0.76 0.02 0.86 0.00 0.76 0.02 0.86 0.00 0.76 0.000 0.00	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.48 2.28 2.80 2.60 2.48 2.27 3.90 2.60 2.48 2.27 3.90 2.60 2.48 2.28 3.90 2.48 2.51 3.62 3.62 2.60 2.48 2.55 3.90 2.60 2.48 2.55 3.90 2.60 2.48 2.55 3.90 2.60 2.48 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.60 2.55 3.90 2.55 3.90 2.55 3.90 2.55 3.90 2.55 3.90 2.55 3.90 2.55 3.90 2.55 3.90 2.55 3.97 3.18 2.55 3.18 2.55 3.18 3.46 3.46 3.45 3.18 3.46 3.45	% 109 112 112 94 80 138 90 88 80 99 94 116 113 109 106 122	0.59 0.46 0.46 0.71 0.23 0.95 0.95 0.45 0.21 0.91 0.91 0.91 0.34 0.71 0.34 0.44 0.71 0.34						
ACH 309 ACH 921 ACH 921 ACH 952 ACH 953 ACH 959 Beta 0004 Beta M5210 Beta M510 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 Beta M513 Filler 1 Filler 1 Filler 2 Filler 3 HM 1542 HM 1643 HM 1643 HM 1645 HM 7083 HM 7085	220 234 214 233 222 233 224 239 217 239 217 237 240 241 242 242 228 238 238 238 238 238 238 238 238	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1505.83 1505.83 1507.83 1456.67 1379.43 1379.43 1379.50 1137.55 1137.55 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.53 1127.55 1127.5	% 108 102 103 107 97 93 105 105 105 105 105 101 98 98 101 97 105 98 101 101 97 105 80 121	0.03 0.07 0.37 0.04 0.04 0.06 0.18 0.12 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63	Mean 159 21 171,19 167,12 146,45 159 62 161,76 161,78 161,78 163,76 163,76 163,06 164,78	% 96 104 101 89 97 98 89 105 82 99 98 105 82 98 105 82 98 116 87 100 138	P-val 0.63 0.64 0.88 0.78 0.78 0.78 0.78 0.50 0.05 0.60 0.00 0.00 0.78 0.00 0.00 0.78 0.00 0.00 0.00 0.04 0.08 0.04 0.00 0.00 0.04 0.00	Mean 0.001 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 2.80 2.40 2.40 2.45 2.78 2.66 3.27	% 109 112 112 94 80 138 99 88 80 99 99 94 116 113 99 106 122 88	0.59 0.46 0.71 0.23 0.05 0.45 0.21 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 959 Beta M5210 Beta M5210 Beta M513 Beta M513 Beta M515 Beta M515 Beta M515 Beta M513 Beta M	220 234 214 213 222 233 224 239 217 239 217 237 240 241 242 242 228 238 238 238 238 238 238 238 238	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1505.83 1505.83 1505.83 1505.83 1507.84 1509.67 1496.83 1509.67 1496.83 1509.67 1496.83 1509.67 1496.83 1509.67 1497.83 1379.50 1137.50 1724.33 1471.30	\$5 108 102 103 107 97 93 105 106 98 98 106 101 96 101 96 101 96 105 97 80 125 97 105 97 105	0.03 0.67 0.37 0.04 0.04 0.06 0.16 0.62 0.62 0.62 0.62 0.63 0.09 0.31 0.80 0.44 0.31 0.80 0.44 0.31 0.44 0.31 0.62 0.31 0.04 0.44 0.04 0.04 0.12 0.62 0.31 0.04 0.12 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Mean 150 21 171,19 167,12 146,45 150,02 161,76 161,31 147,31 147,31 147,31 147,31 147,31 147,31 147,31 143,30 161,82 161,82 161,82 161,82 165,82 155,85	% 96 104 101 89 97 98 98 99 98 105 82 99 76 98 99 76 98 115 87 100 138 92	P-val 0.63 0.64 0.88 0.67 0.75 0.55 0.50 0.02 0.66 0.02 0.66 0.02 0.66 0.02 0.66 0.02 0.02 0.69 0.02	Mean 0.001 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.66 2.28 3.90 2.48 2.48 2.60 2.60 2.48 2.60 2.60 2.48 2.48 2.48 2.48 2.48 2.48 2.60 3.92 3.90 2.48 3.92 3.90 2.48 2.55	% 109 112 112 94 80 80 80 80 99 94 116 99 99 94 115 113 99 106 122 88 89 90	0.50 0.46 0.71 0.23 0.02 0.95 0.45 0.21 0.91 0.91 0.71 0.34 0.44 0.71 0.34 0.44 0.71 0.34 0.44 0.71						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 959 Bela M5216 Bela M5216 Bela M513 Bela M513 Bela M515 Bela M515 Bela M515 Bela M515 Filler 1 Filler 2 Filler 2 Filler 3 HM 1643 HM 1645 HM 1645 HM 7089 HM 7080 HM 7000	220 234 214 2130 222 233 224 221 239 217 231 237 240 241 241 242 228 228 228 223 241 241 241 241 241 241 241 241 241 241	Mean 1538.50 1447.00 1471.00 1531.50 1531.50 1326.67 1496.83 1595.83 1595.83 1595.83 1595.83 1595.83 1595.83 1596.67 1496.83 1597.83 1399.67 1400.17 1445.67 1377.83 1387.00 1501.42 1379.50 1724.33 1471.33 1347.00	\$5 108 102 103 107 97 93 105 106 98 98 98 98 98 98 101 97 101 97 101 97 101 97 101 97 101 97 97 93 93 105	0.03 0.67 0.37 0.04 0.48 0.18 0.62 0.62 0.63 0.63 0.69 0.31 0.80 0.46 0.46 0.14 0.57 0.00 0.05 0.53	Mean 159.21 171.15 167.12 146.45 159.92 161.78 161.78 161.78 161.78 173.71 173.71 135.30 126.39 161.62 191.15 141.62 191.15 143.09 165.29 227.41 152.68 147.65 147.65 147.65 159.57 161.52 163.57 165.57	% 96 104 101 89 97 98 98 98 98 99 76 98 99 76 98 99 76 98 99 76 98 99 76 98 99 90 76 99 76 98 99 90 76 99 90 80 90 80 90 90 90 90 90 90 90 90 90 90 90 90 90	P-val 0.63 0.64 0.67 0.78 0.78 0.78 0.50 0.02 0.86 0.00 0.76 0.76 0.76 0.76 0.76 0.00 0.76 0.76 0.76 0.00 0.76 0.76 0.76 0.67 0.67 0.67 0.67 0.78 0.67 0.76 0.76 0.76 0.04 0.064 0.090 0.090 0.090 0.090 0.090 0.090 0.090 0.090 0.090 0.000 0.04 0.090 0.000 0.000 0.000 0.04 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.00 3.17 3.16 2.66 2.28 3.90 2.81 3.18 2.81 3.00 3.85 2.84 2.84	109           112           112           112           112           94           80           98           99           94           116           113           90           106           122           88           90           90           100           100	0.59 0.46 0.71 0.23 0.95 0.45 0.21 0.91 0.95 0.71 0.91 0.95 0.71 0.34 0.95 0.71 0.34 0.44 0.97 0.71 0.16 0.44 0.58						
ACH 309 ACH 921 ACH 952 ACH 953 ACH 953 ACH 959 Beta M5210 Beta M5210 Beta M513 Beta M	220 234 214 230 222 233 224 233 224 239 217 237 241 237 241 242 228 246 242 228 223 246 223 215 215 215 227 235 215 227 235 215 227 235 215 227 235 227 227 227 225 227 225 225 227 225 225	Mean 1538.50 1447.00 1531.50 1385.37 1396.67 1396.63 1595.83 1595.83 1595.83 1595.83 1595.83 1595.83 1595.83 1595.83 1595.83 1595.83 1597.83 1437.83 1375.950 1537.950	*s 108 102 107 97 93 105 105 105 105 98 98 98 98 101 96 101 96 101 97 105 97 105 97 105 98 98 98 101 107 97 98 98 98 98 97 107 97 98 98 98 98 97 107 97 98 98 98 98 98 97 107 97 98 98 98 98 97 107 97 98 98 98 97 105 98 98 97 105 98 98 97 105 98 98 97 105 98 97 105 98 97 105 98 97 105 98 97 105 98 97 105 97 105 105 105 105 105 105 105 105	0.03 0.67 0.37 0.04 0.06 0.18 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.63 0.69 0.31 0.80 0.46 0.14 0.77 0.00 0.00 0.03 1.4 0.00 0.14 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.52 0.52 0.52 0.53 0.55 0.55 0.55 0.55 0.55 0.55 0.55	Mean 159.21 171.19 167.12 146.45 159.62 161.76 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.20 126.39 161.62 101.52 101.52 101.52 101.52 101.52 101.52 105.20	% 961 104 101 89 97 968 89 968 899 90 105 889 99 90 105 888 999 76 588 999 76 588 999 115 108 87 109 108 999 118 108 999 118 118 999 76 118 999 76 105 105 105 105 105 105 105 105 105 105	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.76 0.50 0.02 0.86 0.86 0.00 0.76 0.76 0.06 0.00 0.76 0.76 0.00 0.76 0.76 0.00 0.78 0.00 0.78 0.00 0.78 0.00 0.00 0.78 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.000000 0.00000000	Mean 0.001 0			Mean 3.08 3.17 3.16 2.28 3.90 2.80 2.48 2.25 2.78 2.66 3.27 3.18 2.66 3.27 3.18 2.51 3.00 3.48 2.55 2.55 2.55	% 109 112 112 94 80 138 99 99 99 99 99 99 99 99 99 99 99 99 99	0.59 0.46 0.71 0.23 0.92 0.95 0.21 0.95 0.71 0.95 0.71 0.34 0.45 0.71 0.34 0.44 0.97 0.71 0.16 0.44 0.54 0.54						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 959 Beta M6216 Beta M6216 Beta M613 Beta M613 Beta M615 Beta M931 Beta M931 Beta M932 Filler 1 Filler 2 Filler 3 HM 1643 HM 1643 HM 1643 HM 1643 HM 1645 HM 7089 HM 7080 HM 7100 HM 7101 HM E26	220 234 214 230 222 233 224 221 239 217 231 237 240 241 242 228 238 242 242 228 238 215 215 215 215 215 215 236 227 236	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1505.83 1505.83 1505.83 1507.42 1399.67 1400.17 1445.67 1373.43 1387.02 1501.42 1379.50 1137.5	% 108 102 107 93 107 93 105 106 98 98 98 98 101 101 101 105 105 101 105 105 101 105 97 80 97 80 97 80 98 90 98 90 98 90 98 90 90 90 90 90 90 90 90 90 90 90 90 90	0.03 0.07 0.37 0.44 0.06 0.15 0.62 0.62 0.63 0.69 0.031 0.60 0.44 0.37 0.00 0.44 0.37 0.00 0.37 0.03 0.57 0.03 0.57 0.03 0.05 0.05 0.05 0.05 0.05 0.05 0.05	Mean 150 21 171,19 167,12 146,45 150,02 161,76 161,31 147,31 147,31 147,31 147,31 143,30 161,82 162,85 162,85 162,85 162,85 162,85 163,85 163,85 164,85	\$6 104 101 89 97 96 98 99 105 89 105 89 99 76 99 76 98 99 76 98 99 76 98 99 76 115 87 100 138 99 117 115	P-val 0.63 0.64 0.88 0.88 0.75 0.75 0.55 0.50 0.02 0.66 0.02 0.66 0.02 0.66 0.02 0.02 0.69 0.02 0.02 0.69 0.02 0.02 0.64 0.99 0.02 0.02 0.02 0.02 0.03 0.04 0.02 0.02 0.02 0.03 0.04 0.02 0.03 0.05	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.28 3.90 2.80 2.48 2.25 2.78 2.60 2.60 2.60 2.60 2.60 3.92 3.90 2.48 2.48 2.60 3.92 3.90 2.48 2.66 3.92 3.90 2.48 2.48 2.66 3.92 3.90 2.48 2.48 2.66 3.92 3.90 2.48 2.48 2.66 3.92 3.90 2.48 2.48 2.48 2.66 3.92 3.90 2.48 2.48 2.66 3.92 3.90 2.48 2.48 2.66 2.66 2.48 2.66 2.48 2.66 2.66 2.48 2.66 2.66 2.48 2.66 2.66 2.66 2.66 2.66 3.90 2.65 2.60 2.60 2.60 2.60 2.60 2.60 2.60 2.60 2.65 2.84 2.84 2.84 2.84 2.84 2.85 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.84	109           112           112           112           94           80           99           94           116           116           108           99           94           106           108           99           94           106           108           90      90	0.59 0.46 0.71 0.23 0.02 0.95 0.45 0.21 0.91 0.95 0.71 0.34 0.47 0.971 0.34 0.47 0.971 0.34 0.47 0.971 0.34 0.46 0.46 0.45 0.45 0.45 0.45 0.45 0.45 0.45 0.45						
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ACH 309 ACH 921 ACH 921 ACH 952 ACH 952 ACH 953 ACH 959 Beta M5210 Beta M5210 Beta M513 Beta M513 Beta M513 Beta M513 Beta M931 Beta M932 Filler 1 Filler 2 Filler 3 HM 1643 HM 1643 HM 1643 HM 1643 HM 1643 HM 1643 HM 1643 HM 1643 HM 1643 HM 1064 HM 7097 HM 7100 HM 7001 HM 728 HM 7100 HM	220 234 214 230 222 233 224 233 217 240 247 240 240 242 228 238 242 228 228 228 228 228 228 228 228 22	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.63 1505.83 1505.83 1505.83 1505.83 1507.83 1437.63 1373.43 1374.00 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1346.07 1446.67 1445.67 1443.63 1445.65 1445.63 1445.64 145.64 145.65 1445.65 1445.65 1445.65 1445.65	% 108 108 107 97 97 97 105 105 106 98 98 98 101 101 97 105 105 105 105 97 105 97 105 97 105 97 105 97 103 98 98 99 99 90 101 103 99 101 103 103 10 101 103 10 10 10 10 10 10 10 10 10 10 10 10 10	0.03 0.67 0.37 0.04 0.06 0.18 0.62 0.62 0.62 0.63 0.63 0.63 0.63 0.64 0.14 0.37 0.60 0.04 0.14 0.37 0.60 0.00 0.00 0.00 0.00 0.037 0.13 0.66 0.05 0.56 0.00 0.00 0.00 0.00 0.00	Mean 159.21 171.15 167.12 146.45 159.62 161.73 147.31 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.71 173.21 173.71 174.75 174.75 174.75 174.75 174.75 175.75	% 961 104 104 96 96 96 96 96 96 96 96 98 96 96 98 99 96 98 99 96 89 99 6 89 99 89 99 80 105 105 80 80 99 80 91 105 80 90 105 80 90 80 80 80 90 80 90 80 80 80 80 80 80 80 80 80 80 80 80 80	P-val 0.63 0.64 0.86 0.13 0.67 0.75 0.15 0.05 0.02 0.86 0.76 0.00 0.78 0.76 0.00 0.02 0.86 0.76 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000000	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.28 3.90 2.48 2.28 2.80 2.48 2.45 2.78 2.60 3.27 3.18 2.51 3.00 3.48 2.51 3.00 3.48 2.55 2.64 2.55 2.57 3.92 3.92 3.00 3.07	% 109 112 112 112 112 128 99 99 99 94 116 108 109 108 80 99 94 116 108 109 109 109 112 128 99 94 112 128 99 94 112 128 99 94 112 128 99 94 112 128 99 94 115 128 109 94 115 128 109 94 115 128 109 94 115 128 109 94 115 128 109 94 115 115 115 115 115 115 115 11	0.59 0.46 0.46 0.71 0.23 0.92 0.95 0.21 0.95 0.71 0.95 0.71 0.34 0.97 0.71 0.34 0.97 0.71 0.34 0.97 0.71 0.34 0.97 0.71 0.34 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97						
ACH 309 ACH 921 ACH 921 ACH 952 ACH 952 ACH 953 ACH 963 ACH 969 Beta M6216 Beta M613 Beta M613 Beta M613 Beta M613 Beta M613 Beta M613 Filler 1 Filler 1 Filler 2 Filler 3 HM 1643 HM 1643 HM 1643 HM 1643 HM 1643 HM 1643 HM 7083 HM 7083 HM 7083 HM 7084 HM 7089 HM 7000 HM 7001 HM 7100 HM 7100 HM 7100 HM 7100 HM 7100 HM 7100 HM 7100 HM 7100 HM 7100 HM 726 HM E26 HM E38 HM E26 HM E38 HM He55 Seedex Laser Seedex Laser	220 234 214 230 223 233 224 223 217 237 240 247 240 242 228 242 228 228 228 228 228 228 228	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.63 1505.83 1505.83 1505.83 1505.83 1507.83 1437.63 1373.43 1374.00 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1374.03 1346.07 1446.67 1445.67 1443.63 1445.65 1445.63 1445.64 145.64 145.65 1445.65 1445.65 1445.65 1445.65	%           108           102           103           107           97           105           106           98           101           97           101           97           101           97           101           97           101           97           103           98           98           98           99           90           91           91           91           91	0.03 0.67 0.37 0.044 0.06 0.18 0.62 0.63 0.62 0.63 0.09 0.31 0.80 0.46 0.14 0.31 0.80 0.46 0.14 0.33 0.00 0.04 0.33 0.00 0.03 0.05 0.03 0.05 0.05 0.05	Mean 150 21 171,19 167,12 146,45 150,02 161,76 161,31 147,31 147,31 147,31 147,31 147,31 147,31 143,30 161,82 162,84 162,84 162,84 162,85	% 961 104 101 105 99 99 99 99 99 99 99 99 99 99 99 99 99	P-val 0.63 0.64 0.88 0.88 0.67 0.75 0.55 0.50 0.02 0.66 0.02 0.66 0.02 0.66 0.02 0.66 0.02 0.66 0.02 0.78 0.78 0.78 0.02 0.69 0.02 0.02 0.69 0.02	Mean 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			Mean 3.08 3.17 3.16 2.28 3.90 2.80 2.48 2.25 2.78 2.60 2.60 2.60 2.60 2.60 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.65 2.84 2.65 2.64 2.65 2.67 3.92 3.92 3.96 2.67 2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55 3.92 3.96 3.92 3.96 3.96 2.55 2.55 2.55 2.55 3.92 3.96	% 109 112 112 112 112 112 112 112 11	0.59 0.46 0.46 0.71 0.23 0.02 0.05 0.45 0.21 0.95 0.71 0.34 0.95 0.71 0.34 0.95 0.71 0.34 0.95 0.71 0.34 0.95 0.71 0.34 0.95 0.05 0.05 0.05 0.05 0.05 0.05 0.05						
ACH 309 ACH 821 ACH 821 ACH 952 ACH 953 ACH 953 ACH 959 Beta 004 Beta M5216 Beta M516 Beta M516 Beta M517 Beta M517	220 234 214 230 222 233 224 233 217 240 247 240 240 242 228 238 242 228 228 228 228 228 228 228 228 22	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.63 1505.83 1505.83 1505.83 1505.83 1507.83 1507.83 1507.83 1507.83 1266.33 1438.50 1296.53 1438.50 1296.52 1438.50 1296.52 1475.83 1524.00 1497.67 1425.11	% 108 102 103 107 93 105 105 105 105 105 106 96 96 96 101 96 101 96 121 105 97 80 121 105 97 90 121 105 94 96 80 96 80 96 101 91 104 107	0.03 0.67 0.37 0.04 0.06 0.18 0.62 0.62 0.62 0.63 0.63 0.63 0.63 0.64 0.14 0.37 0.60 0.04 0.14 0.37 0.60 0.00 0.00 0.00 0.00 0.037 0.13 0.66 0.05 0.56 0.00 0.00 0.00 0.00 0.00	Mean 159.21 171.15 167.12 146.45 159.62 161.73 147.31 173.71 174.75 174.75 174.75 175.75	% 961 104 101 89 97 98 99 99 99 99 99 105 88 99 99 99 99 99 99 116 100 138 99 91 117 113 80 89 91 133 103 103 105 100 105 105 89 99 105 105 105 105 105 105 105 105 105 105	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.56 0.66 0.60 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.60 0.75 0.75 0.50 0.75 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.75 0.50 0.75 0.05 0.05 0.05 0.05 0.05 0.05 0.27	Mean 0.001 0			Mean 3.00 3.17 3.16 2.66 2.28 3.90 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.66 3.27 3.16 2.66 3.27 3.16 2.66 3.27 3.16 2.66 3.27 3.16 2.66 3.27 3.16 2.66 3.27 3.16 2.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.16 3.66 3.27 3.18 3.60 3.26 3.18 3.60 3.26 3.18 3.60 3.26 3.18 3.60 3.26 3.18 3.60 3.26 3.18 3.60 3.26 3.18 3.60 3.26 3.18 3.60 3.26 3.18 3.60 3.26 3.36 3.07 3.96 3.97 3.96 3.97 3.96 3.9	% 109 112 94 138 99 98 80 99 99 94 115 138 99 99 94 115 138 99 99 94 113 102 102 102 102 102 102 102 102	0.59 0.46 0.46 0.71 0.23 0.92 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71 0.34 0.97 0.71 0.44 0.97 0.71 0.44 0.97 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.71 0.95 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 959 Beta M5216 Beta M5216 Beta M513 Beta M515 Filler 1 Filler 2 Filler 3 HM 1643 HM 1644 HM 1644	220 234 214 230 222 233 224 221 233 224 233 240 247 247 247 247 247 247 247 247 247 247	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1505.83 1505.83 1505.83 1505.83 1505.83 1505.83 1507.44 1339.67 1400.17 1445.67 1339.67 1400.17 1445.67 1339.63 1379.50 1137.50 1724.33 1471.00 1346.17 1462.63 1366.33 1366.33 1366.33 1476.63 1366.33 1466.67 1438.50 1266.33 1566.33 1468.52 1266.33 1468.52 1475.83 1526.53 1526.53 1526.53 1527.55 1487.67 1487.67 1497.63 1497.65 1497.6	% 108 102 103 107 93 105 105 105 105 105 106 96 96 96 101 96 101 96 121 105 97 80 121 105 97 90 121 105 94 96 80 96 80 96 101 91 104 107	0.03 0.07 0.37 0.44 0.04 0.44 0.06 0.15 0.62 0.63 0.62 0.63 0.66 0.31 0.60 0.46 0.46 0.46 0.46 0.46 0.46 0.46	Mean 159 21 171,19 167,12 146,45 150 02 161,76 161,76 161,76 161,76 161,78 161,76 161,78 161,78 161,82 162,84 164,85	% 961 104 101 89 97 98 99 99 99 99 99 105 88 99 99 99 99 99 99 116 100 138 99 91 117 113 80 89 91 133 103 103 105 100 105 105 89 99 105 105 105 105 105 105 105 105 105 105	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.56 0.66 0.60 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.60 0.75 0.75 0.50 0.75 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.75 0.50 0.75 0.05 0.05 0.05 0.05 0.05 0.05 0.27	Mean 0.001 0			Mean 3.08 3.17 3.16 2.28 3.90 2.80 2.48 2.25 2.78 2.60 2.60 2.60 2.48 2.48 2.48 2.60 2.60 2.60 2.60 3.90 2.60 3.90 2.60 3.90 2.60 3.90 2.60 2.60 2.60 3.90 2.48 2.65 2.66 3.90 3.90 3.90 2.65 2.66 2.65 2.60 2.60 2.60 2.60 2.60 2.60 2.60 2.60 2.48 2.65 2.60 2.65 2.84 2.65 2.55 3.36 3.36 3.06 3.99 2.55 2.58 1.94	% 109 112 94 138 99 98 80 99 99 94 115 138 99 99 94 115 138 99 99 94 113 102 102 102 102 102 102 102 102	0.59 0.46 0.46 0.71 0.23 0.92 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71 0.34 0.97 0.71 0.44 0.97 0.71 0.44 0.97 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.71 0.95 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71						
ACH 309 ACH 921 ACH 952 ACH 952 ACH 953 ACH 953 ACH 959 Beta M613 Beta M613 Beta M613 Beta M613 Beta M614 Beta M615 Beta M615 Beta M615 Filler 1 Filler 2 Filler 3 HM 1642 HM 1643 HM 1643 HM 1643 HM 1645 HM 7083 HM 1645 HM 7089 HM 7101 HM 7101 HM 7101 HM 726 HM 738 HM 1645 HM 7089 HM 7101 HM 7101 HM 7101 HM 726 HM 815 Seedex Laser Seedex Laser Seedex Laser Seedex SX 1017 Van der Have H68454 Check of Mean Coeff, of Var (%)	220 234 214 230 222 233 224 221 233 224 233 240 247 247 247 247 247 247 247 247 247 247	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.63 1505.83 1505.83 1505.83 1505.83 1507.83 1507.83 1507.83 1507.83 1266.33 1438.50 1296.53 1438.50 1296.52 1438.50 1296.52 1475.83 1524.00 1497.67 1425.11	% 108 102 103 107 93 105 105 105 105 105 106 96 96 96 101 96 101 96 121 105 97 80 121 105 97 90 121 105 94 96 80 96 80 96 101 91 104 107	0.03 0.07 0.37 0.44 0.04 0.44 0.06 0.15 0.62 0.63 0.62 0.63 0.66 0.31 0.60 0.46 0.46 0.46 0.46 0.46 0.46 0.46	Mean 159.21 171.15 167.12 146.45 159.62 161.73 147.31 173.71 174.75 174.75 174.75 175.75	% 961 104 101 89 97 98 99 99 99 99 99 105 88 99 99 99 99 99 99 116 100 138 99 91 117 113 80 89 91 133 103 103 105 100 105 105 89 99 105 105 105 105 105 105 105 105 105 105	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.56 0.66 0.60 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.60 0.75 0.75 0.50 0.75 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.75 0.50 0.75 0.05 0.05 0.05 0.05 0.05 0.05 0.27	Mean 0.001 0		P-val	Mean 3.00 3.17 3.16 2.66 2.28 2.80 2.80 2.80 2.80 2.80 2.80 2.66 3.27 3.27 3.16 2.66 3.27 3.27 3.27 3.25 2.66 3.27 3.25 2.66 3.27 3.25 3.27 3.25 3.35 3.05 3.25 3.25 3.25 3.35 3.05 3.07 2.53 3.25 3.25 3.25 3.25 3.25 3.35 3.07 2.55 3.25 3.25 3.35 3.07 2.55 3.25 3.25 3.25 3.35 3.07 2.55 3.25 3.25 3.25 3.35 3.35 3.25 3.55	% 109 112 94 138 99 98 80 99 99 94 115 138 99 99 94 115 138 99 99 94 113 102 102 102 102 102 102 102 102	0.59 0.46 0.46 0.71 0.23 0.92 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71 0.34 0.97 0.71 0.44 0.97 0.71 0.44 0.97 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.71 0.95 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71						
ACH 309 ACH 921 ACH 921 ACH 952 ACH 953 ACH 958 Beta M5216 Beta M5216 Beta M513 Beta M513 Beta M513 Beta M515 Beta M931 Beta M931 Beta M931 Filer 1 Filer 2 Filer 3 HM 1642 HM 1643 HM 1645	220 234 214 230 222 233 224 221 233 224 233 240 247 247 247 247 247 247 247 247 247 247	Mean 1538.50 1447.00 1531.50 1385.33 1326.67 1496.83 1505.83 1505.83 1505.83 1505.83 1505.83 1505.83 1505.83 1505.83 1507.44 1339.67 1400.17 1445.67 1339.67 1400.17 1445.67 1339.63 1379.50 1137.50 1724.33 1471.00 1346.17 1462.63 1366.33 1366.33 1366.33 1476.63 1366.33 1466.67 1438.50 1266.33 1566.33 1468.52 1266.33 1468.52 1475.83 1526.53 1526.53 1526.53 1527.55 1487.67 1487.67 1497.63 1497.65 1497.6	% 108 102 103 107 93 105 105 105 105 105 106 96 96 96 101 96 101 96 121 105 97 80 121 105 97 105 97 105 97 105 97 105 97 105 97 105 101 105 97 105 97 101 105 97 101 105 97 101 107 105 107 107 107 107 107 107 107 107 107 107	0.03 0.07 0.37 0.44 0.04 0.44 0.06 0.15 0.62 0.63 0.62 0.63 0.66 0.31 0.60 0.46 0.46 0.46 0.46 0.46 0.46 0.46	Mean 159 21 171,19 167,12 146,45 150 02 161,76 161,76 161,76 161,76 161,78 161,76 161,78 161,78 161,82 162,84 164,85	% 961 104 101 89 97 98 99 99 99 99 99 105 88 99 99 99 99 99 99 116 100 138 99 91 117 113 80 89 91 133 103 103 105 100 105 105 89 99 105 105 105 105 105 105 105 105 105 105	P-val 0.63 0.64 0.88 0.13 0.67 0.78 0.75 0.15 0.56 0.66 0.60 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.60 0.75 0.75 0.50 0.75 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.50 0.75 0.75 0.50 0.75 0.05 0.05 0.05 0.05 0.05 0.05 0.27	Mean 0.001 0		P-val	Mean 3.08 3.17 3.16 2.28 3.90 2.48 2.45 2.78 2.80 2.45 2.78 2.60 3.27 3.18 2.51 3.00 3.48 2.51 3.00 3.48 2.51 3.00 2.48 2.51 3.00 2.51 3.00 2.51 3.00 2.51 3.00 2.51 3.00 2.51 3.00 3.27 3.18 2.55 2.55 2.55 2.55 2.55 2.55 3.92	% 109 112 94 138 99 98 80 99 99 94 115 138 99 99 94 115 138 99 99 94 113 102 102 102 102 102 102 102 102	0.59 0.46 0.46 0.71 0.23 0.92 0.95 0.71 0.95 0.71 0.95 0.71 0.95 0.71 0.34 0.97 0.71 0.44 0.97 0.71 0.44 0.97 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.95 0.71 0.71 0.71 0.95 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.71						

\* Significant at 5%. \*\* Significant at 1%. Ns Not Significant 2nd column for each trait is percent of check. General Mean used as check. 3rd column for trait is probability that detection of a diff. (from check mean) of this size is due to chance. Mean LSD is only appropriate for comparing entry means with each other when F value is significant.

# American Crystal Sugar Co. - Technical Service Center Southern Minnesota Semi Commercial Coded Trial - Lattice Location SMSC - Four Trials Trials 995611 995612 995613 995614 30 Entries 24 Reps X Loc 2 Rows/Ptot 1 Samples/Ptot

Entry S	Source	R	1999 bc/T (lbs	• 1	Re	1999 c/A (Ibs	1	Lo	1999 ss to Mo	x.	YI	1999 eld (T/A	)		1999 ugar %		N	1999 a (ppm)	6
		Mean	%	P-val	Mean	%	P-val	Mean	%	P-val	Mean	%	P-val	Mean	%	P-val	Mean	%	P-vai
ACH 309	220	283.01	98	0.06	6416.90	102	0.54	1.21	107	0.00	22.63	104	0.15	15.36	98	0.12	421.34	102	0.69
ACH 921	234	298.08	103	0.01	6619.23	105	0.10	1.17	103	0.11	22.20	102	0.45	16.07	103	0.00	451.40	109	0.06
ACH 952	214	303.40	105	0.00	7025.07	112	0.00	1.15	102	0.36	23.12	106	0.03	16.32	105	0.00	450.67	109	0.07
ACH 953	230	291.30	101	0.54	6582.44	104	0.15	1.22	108	0.00	22.49	103	0.22	15,78	101	0.23	505.90	122	0.00
ACH 999	222	295.62	102	0.05	7221.26	115	0.00	1.15	101	0.50	24.29	112	0.00	15.93	102	0.03	411.28	99	0.91
Beta 6904	233	294.99	102	80.0	6133.15	97	0.39	1.13	100	0.98	20.80	96	0.13	15.88	102	0.06	482.60	117	0.00
Beta M5216	224	283.70	98	0.09	5611.99	89	0.00	1.18	105	0.02	19.73	91	0.00	15.37	99	0.14	414.48	100	0.96
Beta M813	221	295.60	102	0.05	6840.81	109	0.01	1.13	100	0.82	23.05	106	0.03	15.91	102	0.04	409.19	99	0.83
Beta M614	239	302.85	105	0.00	6657.81	106	0.07	1.09	96	0.07	21.96	101	0.71	16.23	104	0.00	382.05	92	0.12
Beta M815	217	296.33	102	0.03	6255.75	99	0.82	1.09	96	0.04	21.11	97	0.31	15.90	102	0.05	402.31	97	85.0
Beta M931	231	291.15	101	0.57	6492.37	103	0.32	1.52	99	0.57	22.21	102	0.44	15.68	101	0.60	441.02	107	0.17
Beta 6/932	237	303.85	105	0.001	6614.60	105	0.11	1.09	97	0.10	21.76	100	0.96	16.29	104	0.00	429.52	104	0.42
Filler 1	240	296.90	103	0.02	5855.77	93	0.02	1.04	91	0.00	19.75	91	0.00	15.88	102	0.07	332.14	80	0.00
Filler 2	241	291.45	101	0.51	6209.61	99	0.64	1.13	100	0.90	21.30	98	0.48	15,70	101	0.49	411.14	99	0.91
Filter 3	242	258.46	80	0.00	5466.97	87	0.00	1.22	108	0.00	21.07	97	0.28	14.15	91	0.00	482.78	117	0.00
HM 1642	228	289.39	100	0.97	6833.25	108	0.01	1.11	98	0.25	23.66	109	0.001	15.58	100	0.89	423,75	102	0.61
HEA 1643	238	292.74	101	0.29	6568.27	104	0.17	1.05	92	0.00	22.36	103	0.31	15.68	101	0.57	452.29	109	0.06
HM 1645	223	265.69	92	0.00	6015.78	96	0.15	1.32	117	0.00	22.53	104	0.20]	14.61	94	0.00	465.05	113	0.01
HM 7083	215	281.21	97	0.01	6042.36	96	0.19	1.19	105	0.02	21.51	99	0.71)	15,25	98	0.02	485.28	118	0.00
HM 7089	216	293.13	101	0.24	6724.08	107	0.03	1.07	94	0.00	22.88	105	0.07	15.72	101	0.41	345,96	-B4	0.00
HM 7097	227	291.06	101	0.58	6602.54	105	0.12	1.09	96	0.06	22.69	104	0.12	15.64	100	0.76	303.32	73	0.00
H0M 7100	236	288.28	100	0.76	6325.77	100	0.89	1.11	- 98	0.37	21.97	101	0.70	15.53	100	0.64	325.26	79	0.00
HM 7101	232	292.26	101	0.36	6487.82	103	0.33	1,09	97	0.09	22.26	102	0.39	15.71	101	0.48	307.82	74	0.00
HW1 1226	235	286.46	99	0.38	5649.46	90	0.00	1.05	93	0.00	19.66	90	0.00	15.37	99	0.14	413.82	100	0.99
HM E38	219	285.40	99	0.23	6004.20	95	0.13	1.12	99	0.51	20.99	97	0.23	15.39	99	0.17	387.14	94	0.19
HM Hector	226	289.86	100	0.86	5946.91	94	0.07	1.14	101	0.79	20.47	94	0.04	15.63	100	0.82	417.60	101	0.84
HM RH5	213	268 55	100	0.82	6015.57	95	0.15	1.08	95	0.02	20.86	-96	0.16	15.51	99	0.55	434.34	105	0.30
SoudexLaser	229	274.85	95	0.00	5391.34	86	0.00	1.19	105	0.02	19.56	90	0,00	14,93	95	0.00	411.38	99	0.92
Seedex 5X 1017	218	287.61	99	0.61	5979.45	95	0.10	1.11	98	0.39	20.73	95	0.10	15,49	99	0.50	372.12	90	0.04
Van der Have H66454	225	285.41	99	0.23	6383.94	101	0.66	1,16	102	0.32	22.42	103	0.27	15.42	99	0.26	427.59	103	0.48
Check of Mean		289.29			6299.15			1.13			21.73			15.6			413.49		
Coeff. Of Var (%)		4.4			10.42			8.8			9.37			3.75			19.25		
F Value	\$	12**			5.40**			5.96**		1	3.81**			8.83**			5.42**		
Mean LSD (0.05)		9.24	з		551.63	9		0.07	6		1,75	8		0.44	3		57.1	14	
Mean LSD (0.01)		12.24	4		730.92	12		0.09	8		2.32	11		0.58	4		75.64	18	

Check of Mean	289.29		6299.15		1.13		21.73		15.6		413.49
Coeff. Of Var (%)	4.4		10.42		8.8		9.37		3.75		19.25
FValue	9.12**		5.40**		6.96**		3.81**		8.83**		5.42**
Mean LSD (0.05)	9.24	3	551.63	9	0.07	6	1.75	8	0.44	3	57.1
Mean LSD (0.01)	12.24	4	730.92	12	0.09	8	2.32	11	0.58	4	75.64

intry 1	Source	,	1999 ( (ppm)	1	Am	1999 . N (ppr	n) [	в	1999 olters 1	4	т	1999 are (%)	
		Mean	76	P-val	Mean	%	P-val	Mean	%	P-val	Mean	%	P-val
ACH 309	220	2001.05	112	0.00	249.45	99	0.81	0.00			4.36	114	0.16
ACH 921	234	1777.57	100	0.81	267.71	106	0.16	0.00			3.70	97	0.75
ACH 952	214	1811.81	101	0.44	246.25	98	0.60	0.00			3.22	84	0.12
ACH 953	230	1938.64	109	0.00	243.74	97	0.45	0.00			3.16	83	0.05
ACH 999	222	1831.72	103	0.18	253.18	100	0.92	0.00			3.28	86	0.1
Beta 6904	233	1734.86	97	0.13	240.36	95	0.29	0.00		-	4.14	108	0.41
Beta M5216	224	1899.32	106	0.00	262.93	104	0.33	0.00	-	1	4.34	114	0.18
Beta M813	221	1806.41	101	0.54	244.63	97	0.50	0.00	-	-	3.25	85	0.14
Beta MB14	239	1714,10	96	0.04	251.01	100	0.92	0.00			3.31	87	0.15
Beta M815	217	1690.13	95	0.01	244.96	.07	0.52	0.00			3.40	89	0.2
Beta M931	231	1768.38	99	0.61	238.45	94	0.16	0.00		-	3.66	101	0.93
Bota M932	237	1749.53	98	0.29	224.88	89	0.02	0.00			3.27	86	0.14
Filler 1	240	1063.17	93	0.00	238.26	95	0.22	0.00			4.23	111	0.25
Filler 2	241	1757.03	.98	0.40	259.06	103	0.53	0.07			4.69	123	0.0
Filler 3	242	1902.69	107	0.00	265.89	105	0.22	0.00			4.24	111	0.28
HM 1642	228	1794.97	101	0.781	225.28	89	0.02	0.07	-		3.29	86	0.1
HM 1643	238	1513.26	85	0.00	243.64	97	0.45	0.00			4.66	122	0.0
HM 1645	223	2160.67	121	0.00	279.24	111	0.02	0.00			3.39	89	0.27
HM 7083	215	1868.74	105	0.02	243.94	97	0.47	0.00		-	3.86	101	0.9
HM 7089	216	1713.59	96	0.04	245.67	97	0.57	0.00	_		3.40	89	0.28
HM 7097	227	1742.12	98	0.20	270.90	107	0.09	0.00		1	3.91	102	0.8
HM 7100	236	1764.21	99	0.53	274.79	109	0.04	0.00			3.57	94	0.52
HM 7101	232	1700.82	95	0.01	282.99	112	0.01	0.00			3.85	101	0.94
HM E26	235	1500.87	89	0.00	237.85	94	0.20	0.00			4.46	117	0.05
HM E38	219	1721.10	96	0.06	268.25	106	0.15	0.00			4 34	114	0.18
HM Hector	226	1791.70	100	0.66	254.41	101	0.84	0.00	-		4.24	111	0.27
HM RH5	213	1704.26	95	0.02	223.19	89	0.01	0.00			4.13	108	0.43
Seedex Laser	229	1829 52	102	0.20	282.98	112	0.01	0.00			4.25	111	0.20
Seedex SX 1017	218	1758.68	98	0.42	258.89	103	0.54	0.00			3.82	100	0.95
Van der Have H66454	225	1869.63	105	0.01	241.76	96	0.36	0.07			2.93	77	0.02
		2010/02/201			1					-			
Check of Mean		1785.69			252.08						3.82		
Coeff. Of Var (%)		8.64			15.97						40.55		
F Value		12.68**		2							1.64*		
Mean LSD (0.05)		96.27	5		31.76	13					1.1	29	
Mean LSD (0.01)		127.56	7		42.07	17					1.46	38	

\* Significant at 5%. \*\* Significant at 1%. Ns Not Significant 2nd column for each trait is percent of check. General Mean used as check. 3rd column for trait is probability that detection of a diff. (from check mean) of this size is due to chance. Mean LSD is only appropriate for comparing entry means with each other when F value is significant.

## EVALUATION OF 1999 SMSC APPROVED VARIETY PERFORMANCE

## **OBJECTIVE:**

Increase the scope of coded trial information using 1999 SMSC approved varieties at locations other than coded trial sites.

## EXPERIMENTAL PROCEDURE:

Trials were planted and data collected from three locations in 1999. Varieties were replicated six times in a randomized complete block design. Experimental units were 3.67 ft. wide (2 rows) by 30 ft. long. Yield data were collected by harvesting entire experimental unit. Experiment specifications are listed in Table 1.

Table 1. Location, planting date, and harvest date of the evaluation of 1999 SMSC approved variety performance experiment.

Experiment Number	Location	Planting Date	Harvest Date
9913	Hancock	April 28	Sept. 27
*9914	Willmar	April 30	Oct. 14
9915	Redwood Falls	April 29	Sept. 20

\* No CLS fungicide applications to facilitate varietal leafspot tolerance (Table3)

## Table 2. Comparions of varieties commonly grown in SMBSC production area, Hancock location (exp 9913)

Varieties	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of test mean	Rec. Suc. per Ton (Ibs)	Rec. Suc. per Ton (%) of test mean	Tons per Acre (tons)	Tons per Acre (%) of test mean	Sucrose	Sucrose (%) of test mean	Loss to Molasses (%)	Loss to Molasses (%) of test mean
KW 6770	7487	91	295	95	25.38	96	15.77	95	1.02	101
HM Hector	7585	93	306	95	23.30	96	16.30	99	1.02	101
Beta 5296	7736	94	306	104	23.93	94	the second se	104	0.99	101
the second se	7803	94	314	104	23.93	91	17.16	the second se	and the second se	99 97
Beta 3945	7803	95	295	95		102	16.69	101	0.98	
Beta 5014 HM Viking	7956	98	295	90	26.94	102	15.91	93	1.15	114
ACH 205	7997	98	309	92	27.85	97	16.45	93	1.08	107
Seedex Laser	7914	96	325	105	25.02	97	17.20	104	0.95	100
Beta 5014 tach	7003	90	325	105	24.19	92	16.93	104	0.95	94
Pat ACH 302	8088	99	309	99	24.78	94	16.93	102	1.03	96
and the second se		99	and the second se	101	the set by set of the	99	16.48	and the second se		102
HM Resist	8106		315		25.74	99	and the second se	102	1.05	104
HM 7057	8136	99	310	and the second se	26.24		16.60	100	1.09	108
ACH 302	8348	102	310	100	26.92	102	16.47	100	0.96	96
HM Resist Tach	8339	102	313	101	26.68	101	16.67	101	1.04	103
ACH 309	8383	102	317	102	26.43	100	16.87	102	1.01	100
Beta 6904	8416		318	and the second se	26.50	100	16.88	102	1.00	99
HM Niagra	8610		311	100	27.68	105	16.52	100	0.97	96
HM 7057 Tach	8670	106	317	102	27.38	104	16.79	101	0.95	95
Beta 6863	9011	110	307	99	29.32	111	16.32	99	0.95	94
VDH 46109	9489	116	314	101	30.23	115	16.65	101	0.96	95
	8192.50	100	310.71	100	26.38	100	16.54	100	1.01	100
C.V. %	8.99		4.89		8.65		3.99		15.03	
LSD (0.05)	703.20		17.40		1.67		0.56		0.17	

### Table 3. Comparison of varieties commonly grown in SMSC production area, Willmar location (exp 9914) (not sprayed for CLS)

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Varieties	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of test mean	per Ton	Rec. Suc. per Ton (%) of test mean	Tons per Acre (lons)	Tons per Acre (%) of test mean	Sucrose (%)	Sucrose (%) of test mean	Loss to Molasses (%)	Loss to Molasses (%) of test mean	SMSC Rating 9-1-99	CLS1 (%) of test mean	SMSC Rating 10-15-99	CLS2 (%) of test mean	SMSC Rating average	CLS Coded trial Rating average
				·												
KW 6770	7183.39		246.88				14.15		1.81		3.67	130	and the second se	114	5.33	wasn't tested
HM Hector	7334.70	89	264.79		27.70	89	14.96		1.72		3,50	124	7.67	125	5.58	4.41
Beta 6904	7693.34	93	270.72	103	28.42	91	15.20	102	1.66		4.17	147	7.33	120	5.75	4.7
Beta 6863	7820.47	95	259.21	98	30.17	96	14.74		1.78	101	3.50	124	6.67	109	5.08	4.42
HM Viking	7855.37	95	251.31	95	31.26	100	14.34		1.77	100	3.67	130	7.17	117	5.42	4.41
ACH 205	7916.89	96	247.65	94	31.97	102	14.13	94	1.75	99	3.00	106	5.17	84	4.08	3.8
HM Niagra	7985.79	97	257.80	98	30.98	99	14.73	98	1.84	104	2.83	100	6.83	111	4.83	wasn't tested
Seedex Laser	8011.28	97	255.44	97	31,36	100	14,61	98	1.84	104	2.67	94	5.67	92	4.17	3.82
PatACH 302	8087.49	98	258.87	98	31.24	100	14.86	99	1.92	109	2.50			95		4.42
Beta 5296	8151.62	99	269.01	102	30.30	97	15.23	102	1.78	101	1.67	59	4.83	79	3.25	3.57
ACH 309	8174.39	99	265.42	101	30.80	98	14.97	100	1.70	97	2.17	77	5.33	87	3.75	4.05
ACH 302	8204.30	99	260.25	99	31,53	101	14.93	100	1.91	109	3.17	112	5,67	92	4.42	4.42
Beta 5014 tach	8207.75	99	277.41	105	29.59	95	15,70	105	1.83	104	3.00	106	6.50	106	4.75	4.36
Beta 3945	8512.78	103	288.49	109	29.51	94	16.11	108	1.68	95	2.83	100	6.00	98	4.42	3.9
Beta 5014	8594.76	104	285.81	108	30,07	96	15.95	107	1.66	94	2.50	88	6.33	103	4.42	4.36
HM Resist Tach	8626.47	105	263,58	100	32,73	105	14,93	100	1.75	99	3.29	116	6.67	109	4.98	4.41
HM 7057 Tach	8867.39	107	262.10	99	33,83	108	14.86	99	1.76	100	2.33	82	6.17	101	4.25	3.86
HM Resist	8973.32	109	257.91	98	34.79	111	14,66	98	1.76	100	3.00	106	6.50	106	4.75	4.41
HM 7057	9144.96	111	257,55	98	35.51	114	14.76	99	1.88	106	2.17	77	6.00	98	4.09	3.86
VDH 46109	9677.59	117	279.15	106	34.67	111	15.43	103	1.47	84	1.00	35	3.33	54	2.17	3.7
MEAN	8251.20	100	263.97	100	31.28	100	14.96	100	1.76	100	2.83	100	6.13	100	4,48	4.16
C.V.	8.04		5,58		6.78		4.32		8,55		25.10		11.79		17.83	
LSD	759,32		16.863		2.4302		0.7411		0.1727		0.83		0.84		0.65	

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## Table 4. Comparions of varieties commonly grown in SMBSC production area, Redwood Falls location (exp 9915)

Varietles	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of test mean	Rec. Suc. per Ton (lbs)	Rec. Suc. per Ton (%) of test mean	Tons per Acre (tons)	Tons per Acre (%) of test mean	Sucrose	Sucrose (%) of test mean	Loss to Molasses (%)	Loss to Molasses (%) of test mean
										2010-01-01-01
Seedex Laser	5801	85	285	96	20.37	88	15.42	97	1.18	101
Beta 5296	5953	87	287	97	20.72	90	15.45	97	1.09	92
Beta 5014	6404	94	289	98	22.13	96	16.17	101	1.70	145
Beta 5014 tach	6621	97	291	98	22.75	99	16.34	102	1.79	152
KW 6770	6634	97	289	98	22.92	100	15.64	98	1,17	100
HM 7057	6591	97	305	103	21.59	94	16.29	102	1.02	87
HM Hector	6697	98	291	98	23.03	100	15.70	98	1.16	99
Pat ACH 302	6684	98	295	100	22.64	98	16.04	100	1.27	108
HM Resist Tach	6670	98	299	101	22.28	97	15.83	99		73
ACH 309	6744	99	288	97	23.40	102	15.61	98	1.20	102
HM Viking	6990	103	296	100	23.61	103	15.89	100	1.08	92
HM 7057 Tach	6988	103	298	101	23.46	102	16.02	100	1.13	96
ACH 205	7086	104	281	95	25.26	110		95	1.17	100
Beta 3945	6978	102	317	107	22.02	96	16.91	106	1.07	91
Beta 6863	7108	104	306	103	23.22	101	16.48	103	1,17	100
HM Niagra	7175	105	302	102	23.79	103	16.26	102	1.18	101
HM Resist	7225	106	292	99	24.75	107	15.59	98	0.99	84
ACH 302	7239	106	304	103	23.82	103	16.22	102	1.02	87
VDH 46109	7299	107	305	103	23.95	104	16.41	103	1.17	99
Beta 6904	7375	108		100	24.85	108	15.91	100		91
	6813.14	100	295.87	100	23.03	100	15.97	100	1.17	100
C.V. %	9.56		6.93		8.52		5.06		18.87	
LSD (0.05)	674.70		15.48		1.64		0.63		0.16	

## EVALUATION OF SUGARBEET VARIETIES FOR RHIZOMANIA TOLERANCE

### **OBJECTIVE:**

Evaluate Rhizomania tolerant varieties for yield and quality in the presence or absence of soil-borne diseases.

## EXPERIMENTAL PROCEDURE:

Data was gathered from three of four locations planted in 1999. Varieties were replicated six times in a randomized complete block design. Experimental units were 11 ft. wide (6 rows) by 30 ft. long, except at Willmar location which were 3.67 ft. wide (2 rows) by 30 ft. long. Yield data were collected by harvesting center two rows except at Willmar where entire experimental unit was harvested. Disease occurrence is listed with the experiment specifications in Table 1.

Table 1. Location, planting date, harvest date, and disease occurrence for evaluation of sugarbeet varieties for rhizomania tolerance experiment.

Exp. #	Location	Planting Date			BSBMV	Aphano.
myb. u	Location	Date	Duto	DIALAA	100Dinv	propriatio.

9901	Degraff	May 24	Sept. 29	+	+	-
9902	Gluek	May 19	Sept. 25	+	+	+
*9903	Bird Island	May 4	N/A	N/A	N/A	N/A
9904	Bird Island	May 4	Oct. 8	+	+	-
**9905	Willmar	April 30	Oct. 13	-		-

\* Site abanded due to chemical misapplication residue

\*\* No CLS fungicide applications to facilitate varietal leafspot tolerance (Table 5B)

Beta 6904 and HM Resist were used as check varieties. Locations were tissue sampled and visually examined to determine presence or absence of disease.

## Table 2. Comparison of varieties with rhizomania resistance , DeGraff site, 1999 data. BNYVV , BSBMV and Aphanomyces present

Varieties	code	per Acre	Rec. Suc. per Acre %) of mean	Rec. Suc. per Ton (Ibs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (tons)	Tons per Acre (%) of mean	Sucrose (%)	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean
00 0 10715 01	1 41	0000	101.00	000	107 50	11.00	0.000	11.00	105.71	1.00	
98 040715 01	1	2993	101.63	266	107.53			14.38	105.74		87.42
HM 7083	2	3097	105.16	252	101.79	12.28	103.69	13.83	101.71	1.22	100.86
98 060186	3	3424	116.28	263	106.00	13.04	110.09	14.24	104.72	1.11	91.61
98 060105	4	2005		230	93.00	8.70	73.47	12.86	94.55		110.38
98 060662	5	3241	110.07	240	97.05	13.48	113.82	13.33	98.03	1.31	108.07
HM 7073	6	3103		245	98.67	12.69	107.16	13.48	99.12		103.70
H 46177	7	2893	98.22	245	98.83	11.81	99,75	13.36	98.25	1.12	92.33
H 44175	8	2796	94.95	219	88.18	12.80	108.06	12.18	89.57	1.26	103.87
H 68152	9	3014	102.35	223	90.15	13.49	113.95	12.55	92.28	1.38	114.12
BETA 4705	10	3136	106.49	263	106.28	11.91	100.56	14.41	105.96	1.24	102.69
BETA M930	11	3868	131.35	269	108.57	14.38	121.42	14.47	106.43	1.02	84.48
BETA M813	12	3404	115.58	250	101.08	13.59	114.76	13.73	100.95	1.21	99.63
BETA M706	13	2829	96.06	249	100.57	11.35	95.86	13.68	100.62	1.22	101.14
BETA 846	14	3975	134.99	275	110.79	14.48	122.28	14.78	108.67	1.05	86.90
BETA X924	15	2865	97.28	257	103.67	11.15	94.17	14.01	103.01	1.16	96.23
BETA M811	16	3964	134.59	264	106.38	15.04	126.98	14.25	104.77	1.07	88.32
SXRM1	17	2609	88.59	235	94.96	11.09	93.62	13.03	95.81	1.26	104.50
BETA X922	18	3199	108.63	255	102.90	12.55	the second se	13.94	102.47	1.19	98.06
ACH 922	19	2045	69.43	238	95.87	8.61	72.68	13.10	96.30		100.75
ACH 953	20	2892	98.20	246	99.09	11.78	99.46	13.60	100.02		109.50
RIVAL	21	2436	and the second s	232	93.52	10.51	88.78	12.97	95.35	and the second se	114.04
99 HX933	22	1952	the second se	245		7.98		13.45	98.88		100.30
SXRM2	23	2232	75.80	228	91.99	9.79		12.67	93.19		105.46
BETA 6904 (CHECK1)	24	2751	93,40	248	100,14	11.09	the second s	13.66	100.43		103.41
HM RESIST (CHECK 2		2721	92.40	251	101.25	10.85	the second s	13.67	100.53		93.13
SXRM3	26	3124	and the second sec	255				13.96	102.65	and the second se	99.08
	Mean	2945.00	100.00	247.80	100.00	11.84	100.00	13.60	100.00	1.21	100.00
	C.V. %	15.46		7.76		14.42		6.37		10.83	
	LSD (0.05)	519		22		1.95		0.99		0.15	

## Table 3. Comparison of varieties with rhizomania resistance Gluek site, 1999 data, BNYVV and Aphanomyces present

Varieties	code	Rec. Suc. per Acre (Ibs)	Rec. Suc. per Acre (%) of mean	Rec, Suc. per Ton (lbs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (tons)	Tons per Acre (%) of mean	Sucrose (%)	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean
98 040715 01	1 1	3032	94.51	192	99.84	15.78	95.34	10.99	99,56	1.38	97.61
and the second se	2	2832	88.28	192	102.18	14.40	87.02	11.28	102.25	1.45	102.72
HM 7083	3	3925	122.35	204	105.97	19,25	116.29	11.56	104.74	1.36	96.33
98 060186	4	1308	40.77	163	84.61	8.03	48.53	9.54	86,46	1.40	99.06
98 060105	5	4400	137.17	185	95.92	23.84	144.03	10.77	97.64	1.54	109.31
98 060662	6	4400	125.54	105	100.76	20.77	125.49	11.07	100.33	1.38	97.39
HM 7073	7	2786	86.85		and the second se		83.78		103.47	1.38	97.05
H 46177				201	104.41	13,87	and the second se	11.42	90,98	And Address of the Owner of the	93.37
H 44175	8	2807	87.50	174	90.63	16.10	97.24	10.04	90.98	1.32	93.37
H 68152	9	3719	115.93	189	98.04	19.71	119.10	10.83		1.40	101.62
BETA 4705	10	3734	116.41	207	107.62	18.03	108.95	11.79	106.85	1.44	
BETA M930	11	4046	126.12	208	107.84	19.50	117.79	11.73	106.29	1.35	95.74
BETA M813	12	3737	116.50	206	106,89	18,17	109.78	11.68	105.83	1.39	98.61
BETA M706	13	3062	95.44	201	104.28	15.26	92.18	11.38	103.15	1.35	95.46
BETA 846	14	4540	141.51	198	102.67	22.98	138.82	11.34	102.77	1.46	103.49
BETA X924	15	3724	116.07	203	105.56	18.33	110.75	11.57	104.87	1.41	100.18
BETA M811	16	4886	152.30	208	107.95	23.52	142.10	11.82	107.14	1.44	101.65
SXRM1	17	2935	91,49	175	90.79	16.80	101.49	10.10	91.49	1.36	95.24
BETA X922	18	3122	97,33	199	103.25	15.72	94.95	11.37	103.02	1.43	101.42
ACH 922	19	2856	89.04	197	102.23	14.52	87.73	11.11	100.69	1.27	90.23
ACH 953	20	3549	110.62	197	102.23	18.04	108.99	11.35	102.88	1.52	107.31
RIVAL	21	3483	108.58	182	94.78	19.10	115.39	10.72	97.14	1,60	113.24
99 HX933	22	1699	52.97	180	93.33	9.46	57.16	10.35	93.82	1.37	97.11
SXRM2	23	2329	72.60	181	94.17	12.85	77.65	10,58	95.87	1.52	107.45
BETA 6904 (CHECK1)	24	2432	75.83	195	101.14	12.50	75.51	11.13	100.86	1.40	98.93
HM RESIST (CHECK 2)	25	1837	57.27	182	94.48	10.11	61.05	10.49	95.07	1.40	99.07
SXRM3	26	2599	81.01	189	98.41	13.72	82.90	10.89	98.65	1.42	100.26
	Mean	3207.92	100.00	192.43	100.00	16,65	100.00	11.03	100.00	1.41	100.00
4 S.	C.V. %	10.66		6.15		7.81		5.15		6.84	
	LSD (0.	391,4400		13.5440		1,4771		0.6494		0.1104	

## Table 4. Comparison of varieties with rhizomania resistance Bird Island site, 1999 data. BNYVV present

Varieties	code	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of mean	Rec. Suc. per Ton (lbs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (tons)	Tons per Acre (%) of mean	Sucrose (%)	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean
09 040745 01		5400	05.50	0.50		10 70			110.07		
98 040715 01	1	5100	and the second se	258	114.11	19.79	84.43	14.11	110.67	1.22	83.98
HM 7083	2	5437	101.91	213	94.09	25.59	109.16	12.04	94.43		97.08
98 060186	3	5253	98.46	218	96.37	24.14	102.98	12.24	96.03	1.36	93.35
98 060105	4	2490	46.67	183	81.15	13.59	57.96	10.92	85.66	and the second se	120.68
98 060662	5	6496	121.76	220	97.22	29.59	126.23	12.50	98.04	1.52	104.40
HM 7073	6	6107	114.47	237	104.82	25.80	110.07	13.21	103.65	the second se	94.58
H 46177	7	5884	110.28	228	101.00	25.79	110.05	12.83	100.67	1.42	98.07
H 44175	8	6036	113.14	227	100.58	26.57	113.38	12.80	100.42	1.44	99.20
H 68152	9	5948	111.49	225	99.50	26.47	112.94	12.79	100.37	1.56	107.15
BETA 4705	10	5998	112.42	260	115.16	23.06	98.40	14.31	112.30	1.31	90.02
BETA M930	11	7317	137.14	253	112.09	28.90	123.31	14.00	109.85	1.34	92.40
BETA M813	12	5424	101.66	239	105.62	22.74	97.01	13.30	104.32	1.37	94.18
BETA M706	13	4636	86.89	233	102.98	19.93	85.05	13.13	103.02	1.50	103.38
BETA 846	14	7492	140.41	244	108.08	30.69	130.95	13.70	107.48	1.49	
BETA X924	15	6429	120.50	248	109.77	25.93	110.64	13.78	108.15	1.39	
BETA M811	16	6780	127.08	242	107.31	27.98	119.36	13.54	106.27	1.43	and the second se
SXRM1	17	5152	96.57	197	87.13	26.18	111.71	11.32	88.78	1.48	and the second se
BETA X922	18	5596	104.88	244	107.92	22.96	97.95	13.62	106.87	1.43	
ACH 922	19	5770	108.15	230	102.03	25.04	106.84	12.86	100.87	1.33	and the second se
ACH 953	20	4745	88.94	220	97.28	21.60	92.15	12.51	98.13		
RIVAL	21	5057	94.78	212	94.03	23.81	101.60	12.20	95.73	and the second se	the second se
99 HX933	22	3367	63.10	193	85.44	17.45	74.44	11.17	87.66		
SXRM2	23	3717	69.67	205	90.77	18.13	77.36	11.77	92.31	1.52	
BETA 6904 (CHECK1)	24	4333	81.21	231	102.23	18.77	80.06	12.86	100.87		90.26
HM RESIST (CHECK 2)	25	3013	56.47	194	85.89	15.53	66.27	11.33	88.91	1.63	and the second se
SXRM3	26		96.37	220	97.42	23.37	99.70		98.54	and the second se	
	Mean	5335.34	100.00	225.85	100.00	23.44	100.00	12.74	100.00	1.45	100.00
	C.V. %	12.63		10.51		8.11		8.67		9.62	
	LSD (0.05)	769.1700		27.1190		2.1705		1.2623		0.1596	

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## Table 5A. Comparison of varieties (not sprayed for Cercospora Leaf Spot) with rhizomania resistance for yield and quality, Willmar location, 1999 data.

Varieties	code	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of mean	Rec. Suc. per Ton (Ibs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (lbs)	Tons per Acre (%) of mean	Sucrose (%)	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean
00.040715.01	1	6934	100.13	261	103.83	26.54	06 201	14.71	100.67	1.00	01.07
98 040715 01		and the second se						the second s	102.67		94.07
HM 7083	2	6939	100.21	250	and the second sec	27.78		14.18	98.96		95.84
98 060186		6100	88.08	254	100.85	24.13	the second se	14.31	99.87	1.65	93.52
98 060105	4	6075	87.73	252	100.12	24.20		14.24	99.38		94.73
98 060662	5	6408	92.54	236		27.11		13.73			108.78
HM 7073	6	6107	88.19	247	98.33	24.72		14.17	98.87		103.27
H 46177	7	8075	116.60	257	102.11	31.48		14.45			91.55
H 44175	8	8157	117.79	238		34.15	and the second se	13.71	95.67		102.04
H 68152	9	6839	98.75	248		27.67	100.39	14.09			97.67
BETA 4705	10	6704	96.81	267	106.08	25.18	the second se	15.19			105.49
BETA M930	11	8508	122.85	260	103.50	32.73	118.74	14.66	102.35	1.66	94.25
BETA M813	12	6494	93.78	245	97.60	26.49	96.08	14.05	98.05	1.79	101.62
BETA M706	13	7765	112.13	264	105.09	29.41	106.68	15.08	105.28	1.87	106.37
BETA 846	14	8326	120.23	253	100.78	32.83	119.11	14.51	101.28	1.83	104.12
BETA X924	15	6581	95.03	253	100.71	25.94	94.11	14.56	101.65	1.91	108.30
BETA M811	16	8389	121.14	266		31.60	114.64	14.85	103.65	1.57	89.30
SXRM1	17	6413	92.61	225		28.51	103.42	13.05	91.09	1.80	102.19
BETA X922	18	6082	87.82	250		24.36	88.37	14.41	100.54	1.92	109.00
ACH 922	19	7560	109.17	266		28.49		14.77	103.10	the second se	85.15
ACH 953	20	6578	94.99	256		25.76		14.65			103.53
RIVAL	21	5862	84.65	219		26.82	the second se	13.01	90.82		118.08
99 HX933	22	6122	88.41	262	and the second se	23.41	84.92	14.74	and the second se	the second se	94.06
SXRM2	23	6310	91.12	233		27.13	and the second se	13.43			101.34
BETA 6904 (CHECK1)	24	6816	98.43	266	and the second sec	25.64	and the second sec	15.09			101.54
HM RESIST (CHECK	25	7035	101.58	258	and the second se	27.25	and the second se	14.62		1.71	97.01
SXRM3	26	6874	99.26	251		27.40		14.28			97.19
	Mean	6925	100.00	251	100.00	27.57	100.00	14.33	100.00	1.76	100.00
	C.V. %	8		6	e 9.	6.15		4,32		10.49	
and a constant	LSD (0.05)	619		16		1.94		0.71		0.21	

Varieties	CLS 1	CLS 1 (%) of mean	CLS 2	CLS 2 (%) of mean	CLS 3	CLS 3 (%) of mean	CLS AVG	CLS AVG (%) of mean
98 040715 01	2.17	101.81	4.000	99.20	6.333	104.33	4.17	102.14
HM 7083	2.33	109.64	4.333	107.47	6.667	109.82	4,47	109.49
98 060186	2.50	117.47	4.167	103.34	6.333	104.33	4.33	106.22
98 060105	2.00	93.98	4.000	99.20	6.000	98.84	3.98	97.64
98 060662	2.50	117.47	4.500	111.61	6.333	104.33	4.43	108.67
HM 7073	2.17	101.81	4.833	119.87	6.833	112.57	4.63	113.58
H 46177	1.50	70.48	3.167	78.54	5.333	87.86	3.33	81.71
H 44175	1.33	62.65	2.833	70.27	4.500	74.13	2.88	70.68
H 68152	1.67	78.31	3.667	90.94	5.500	90.60	3.60	88.25
BETA 4705	3.00	140.96	4.833	119.87	7.333	120.80	5.05	123,79
BETA M930	1.33	62.65	2.667	66.14	4.167	68.64	2.75	67.41
BETA M813	3.17	148.80	5.167	128.14	7.333	120.80	5.23	128.28
BETA M706	2.33	109.64	4.000	99.20	5.833	96.09	4.05	99.28
BETA 846	1.67	78.31	3.000	74.40	4.667	76.87	3.12	76.40
BETA X924	2.83	133.13	5.000	124.01	7.167	118.06	5.02	122.97
BETA M811	1.33	62.65	2.500	62.00	4.333	71.38	2.72	66.59
SXRM1	2.50	117.47	4.667	115.74	6.667	109.82	4.62	113.17
BETA X922	2.67	125.30	5.333	132.27	7.500	123.55	5.17	126.65
ACH 922	1.50	70.48	3.167	78.54	4.833	79.62	3.17	77.62
ACH 953	3.00	140.96	5.333	132.27	7.500	123.55	5.27	129.10
RIVAL	1.83	86.14	4.167	103.34	5.833	96.09	3.95	96.83
99 HX933	2.83	133.13	5.167	128.14	7.167	118.06	5.05	123.79
SXRM2	2.17	101.81	4.000	99.20	6.333	104.33	4.17	102.14
BETA 6904 (CHECK1)	2.00	93.98	3.833	95.07	6.000	98.84	3.93	96.42
HM RESIST (CHECK :	1.83	86.14	3.500	86.80	6.000	98.84	3.80	93.15
SXRM3	1.17	54.82	3.000	74.40	5.333	87.86	3.18	78.03
	2.13	100.00	4.03	100.00	6.07	100.00	4.08	100.00
	29.620		21.180		12.070		15.87	
	1.980		0.976		0.837		0.7394	

## Table 5B. Comparison of varieties (not sprayed for Cercospora Leaf Spot) with rhizomania resistance for cercospora leaf spot tolerance, Willmar Location, 1999 Data

### EVALUATION OF SUGARBEET VARIETIES FOR APHANOMYCES TOLERANCE

## **OBJECTIVE:**

Evaluate aphanomyces tolerant varieties for yield and quality in the presence or absence of soil-borne diseases.

### EXPERIMENTAL PROCEDURE:

Trials were planted and data collected from four locations in 1999. Varieties were replicated six times in a randomized complete bock design. Experimental units were 11 ft. wide (6 rows) by 30 ft. long, except at Willmar location which were 3.67 ft. wide (2 rows) by 30 ft. long. Stand count data were determined by counting live beets in 12 ft. of row of center two rows except at Willmar where no counts were taken. Yield data were collected by harvesting center two rows of six row plot except at Willmar where the whole plot was harvested. Disease occurrence is listed with the experiment specifications in Table 1.

Table 1. Location, planting date, harvest date, and disease occurrence for the evaluation of sugarbeet varieties for Aphanomyces tolerance experiment.

Exp.		Planting	Harvest	Stand C	ount Dates	Never State			
# 1919 - 4	Location	Date	Date	1st	2nd	BNYVV	BSBMV	Aphano.	
9906	Olivia	May 27	Sept. 24	June 21	July 14	+	-	+	
9907	Buffalo Lake	May 28	Sept. 22	June 21	July 14	+	+	+	
9908	Hector	May 28	Sept. 20	June 21	July 14	-		-	
*9909	Willmar	April 30	Oct. 14	N/A	N/A		-	1.12	

\* No CLS fungicide applications to facilitate varietal leafspot tolerance (Table 5B)

Beta 6904, HM Resist, and ACH 309 were used as check varieties. Foliage and roots were visually evaluated for disase presence or absence.

Varietles	code	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of mean	Rec. Suc. per Ton (lbs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (lbs)	Tons per Acre (%) of mean	Sucrose (%)	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean	1st stand count	2nd stand count
HM E38	1	2635	88.80	238	97.02	11.07	92.02	13.02	96.34	1.11	89.55	40	37
HM 7092	2	1295	43.65	221	89.93	5.87	48.80	12.36	91.47	1.32	106.71	37	34
HM 7092	3	1953	65.80		93.32	8.53	70.89	12.53	92.70	1.07	86.54	35	33
HM 7057	4	2822	95.11	246	100.20	11.48	95.43	13.46	99.62	1.16	93.83	43	42
HM 7097	5	2857	96.27	237	96.47	12.07	100.33	13.00	96.24	1.16	93.97	42	40
HM E26	6	2266	76.35	243	99.17	9.31	77.41	13.30	98.41	1.13	90.87	35	32
HM 7073	7		115.31	266	108.21	12.88	107.14	14.47	107.11	1.19	96.16	46	45
HM RESIST	8	2249	75.80	234	95.38	9.61	79.90	13.15	97.31	1.44	116.46	40	37
H 46109	9	2691	90.68	235	95.65	11.46	95.32	12.93	95.70	1.19	96.17	44	40
H 46140	10	4075	137.33	265	108.07	15.36	127.76	14.46	107.00	1.19	96.35	47	46
H 46175	11	3895	131.26	244	99.36	15.97	132.82	13.43	99.38	1.23	99.66	44	42
H 46177	12	3843	129.50	251	102.30	15.31	127.28	13.72	101.57	1.17	94.33	46	46
H 68108	13	3821	128.75	244	99.33	15.67	130.31	13.46	99.62	1.27	102.45	45	43
H 6852	14	4025	135.63	245	99.79	16.43	136.65	13.41	99.24	1.16	93.78	47	44
H 681A	15		78.27	222	90.62	10.44	86.84	12.43	92.01	1.31	105.81	36	33
H 682	16		88.86		93.25	11.52	95.80	12.84	95.04	1.40	112.78	42	37
BETA 6863	17	2911	98.10		101.97	11.63	96.72	13.73	101.63		98.23	40	35
BETA 5014	18		99.76		101.42	11.89	98.89	13.80	102.11	1.35	108.95	38	32
BETA M811	19	4371	147.28	252	102.77	17.33	144.07	13.99	103.57	1.38	111.43	48	46
BETA 5296	20	3007	101.32	254	103.30	11.86	98.60	13.97	103.39	1.29	104.29	37	31
BETA 6904	21	2756	92.89	256	104.20	10.78	89.62	13.82	102.28	1.03	83.28	35	32
BETA M706	22	3552	119.69	263	107.17	13.50	112.28	14.44	106.88	1.29	104.04	42	38
BETA 5216	23	2727	91.88	254	103.50	10.73	89.25	13.92	103.01	1.22	98.13	39	35
BETA 3945	24	3053	102.86	269	109.42	11.37	94.51	14.60	108,04	1.17	94.39	41	39
ACH 302	25	2373	79,95		99.53	9.71	80.77	13.56	100.36	1.34	108.60	34	33
ACH 309	26	2638	88.89		98.64	10.90	90.60	13.51	99.98	1.40	113.25	37	36
ACH 205	27	2076	69,96	235	95.55	8.85	73.61	12.96	95,94	1.24	99.80	41	38
ACH 9744	28		74.46		97.99	9.19	76.40		96.97	1.08	86.88	39	38
98 APH 05	29	3331	112.26	245	99.62	13.62	113.29	13.56	100.35	1.33	107.52	43	41
98 HX 806	30	3502	118.02	236	96.10	14.85	123.48	13.01	96.28	1.21	98.06	42	41
98 HX 829	31	3537	119.18	248	100.92	14.28	118.73	13.52	100.05	1.13	91.46	42	40
99 HX 941	32	3462	116.66	247	100.69	14.01	116.49	13.46	99.63	1.10	89.18	44	40
SX 108	33	3073	103.56	251	102.42	12.23	101.66	13.72	101.51	1.15	92.50	39	37
BETA 6904 (CHECK 1)	34	2869	96.69	246	100.25	11.66	96.96	13.60	100.64	1.29	104.55	38	34
HM RESIST (CHECK 2	35	1792	60.40	220	89.65	8.15	67.73	12.39	91.66	1.38	111.60	41	39
ACH 309 (CHECK 3)	36	2295	77.34	240	97.96	9.55	79.38	13.29	98.32	1.26	101.94	39	38
	Mean	2968	100.00	245	100.00	12.03	100.00	13.51	100.00	1.24	100.00	41	38
	C.V. %	23.71		8.38		20.92		6.72		14.76		13.8	16.2
	LSD (0.05)	536		19		2.36		0.88		0.26		5	7

## Table 2. Comparison of varieties with aphanomyces tolerance, Olivia location ,1999 data

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Varieties	code	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of mean	Rec. Suc. per Ton (Ibs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (lbs)	Tons per Acre (%) of mean	Sucrose	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean	1st stand count	2nd stand count
		1 100/	(a) or mean	11207	(so) of mean	1007	(ny or moun	1/4/	( // or mean	1101	( ) of theatt	count	count
HM E38	1	1464	49.99	236	94.13	6.21	53.44	13.01	94.89	1.23	102.82	27	25
HM 7092	2		57.90	238	94.89		61.40	13.0117	94.90	1.13	95.01	25	22
HM 7092	3	2414	82.41	242	96.67	9.97	85.78	13.36	97,44	1.26	105.50	25	22
HM 7057	4		73.08	261	104.06	8.22	70.67	14.0383	102.39	1.01	84.88	31	30
HM 7097	5	3241	110.66	265	105.64	12.26	105.41	14.2783	104.14	1.05	88.39	32	28
HM E26	6		83.79	246	98.29	9.97	85.78	13.55	98.83	1.25	104.51	23	20
HM 7073	7		138.81	262	104.56	15.53	133.59	14.3983	105.01	1.31	109.78	33	30
HM RESIST	8		78.03	257	102.64	8.89	76.49	13.9667	101.87	1.12	93.71	28	25
H 46109	9		99.54	253	101.19		98.98	13.8267	100.85	1.16	97.21	33	28
H 46140	10		113.72	252	100.83	13.20	113.49	13.84	100.94	1.22	102.12	36	34
H 46175	11		111.22	239	95.54		117.13	13.2633	96.74	1.30	109.28	34	30
H 46177	12		124.12	260	103.94		120.16		103.29	1.15	96.39	34	30
H 68108	13		102.96	232	92.65			12.855	93.76	1.26	105.42	31	29
H 6852	14	3706	126.51	256	102.43			14.0517	102.49	1.23	103.11	33	32
H 681A	15		98.92	264	105.50		94.35	14.24	103.86	1.03	86.66	26	22
H 682	16		81.32	240	95.78		85.44	13.215	96.38	1.22	102.77	30	25
BETA 6863	17		112.63	254	101.62	the second se	111.53	13.8717	101.17	1.15	96.50	30	24
BETA 5014	18		70.56	240	95.68	and the second se		13.2867	96.91	1.31	109.82	27	22
BETA M811	19		196.71	274	109.44			14.8	107.94	1.10	92.24	35	34
BETA 5296	20			243	96.98			13.34	97.30	1.20	100.61	26	23
BETA 6904	21		103.22	252	100.58	and the second se	103.27	13.755	100.32	1.16	97.63	24	20
BETA M706	22		138.23	249	99.60		139.65	and the second se	100.59	1.32	111.00	32	25
BETA 5216	23		83.51	243	97.07		86.57	13.4267	97,93	1.27	106.91	28	24
BETA 3945	24		114.39	259	103.25		and the second se		103.54	1.27	106.63	31	27
ACH 302	25		87.62	256	102.44		86.07	13.8317	100.88	1.01	84.56	20	18
ACH 309	26		76.51	237	94.62		and the second se	13.115	95.65	1.27	106.53	24	22
ACH 205	27		48.05	231	92.35		the second se		93.38	1.24	104.20	27	26
ACH 9744	28		67.48	242	96.80	and the second sec	the second se	13.2133	96.37	1.09	91.86	27	25
98 APH 05	29		114.89	269	107.34					1.13	94.42	32	28
98 HX 806	30		69.59	230	91.68		76.38		92.97	1.27	106.46	32	28
98 HX 829	31		72.18	251	100.15				99.48	1.10	92.51	30	26
99 HX 941	32		78.11	263	105.04	and the second s	and the second se	14.135	the second se	0.98	82.63	31	28
SX 108	33	and the second sec	81.94	248	99.10	and the second se	83.20		98.91	1.16	96.99	26	25
BETA 6904 (CHECK	34			264	105.56			14.3333		1.12	93.86	28	23
HM RESIST (CHECK	35		64.63	226		and the second se		A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	92.32	1.37	115.21	26	25
ACH 309 (CHECK 3)	36	2203	75.22	238	94.93	9.27	79.73	13.155	95.95	1.27	106.67	27	25
	Mean	2929	100.00	250	100.00	11.63	100.00	13.71	100.00	1.19	100.00	29.15	25.81
	C.V. %	18.26		10.07		13.67	e.	7.80	C.	12.15		17.4	19.5
	LSD (0.05	) 381.0400		23.3210		1.3867	60 <sub>11</sub>	1.0352	6	0.2057		6	8

### Table 3. Comparison of varieties with aphanomyces tolerance, Buffalo Lake location ,1999 data

Varieties	code	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of mean	Rec. Suc. per Ton (Ibs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (Ibs)	Tons per Acre (%) of mean	Sucrose (%)	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean	1st stand count	2nd stand count
HM E38	1	5454	98.99	274	99.17	19.91	99.77	14.73	99.46	1.03	103.55	42	35
HM 7092	2	5580	101.29	281	101.77	19.85	99.48	15.03	101.48	0.97	97.46	40	34
HM 7092	3	5499	99.81	282	101.94	19.53	97.86	15.02	101.41	0.94	94.05	38	33
HM 7057	4	5549	100.73	294	105.40	18.88	94.63	15.59	105.25	0.89	89.36	43	37
HM 7097	5	5628	102.16	279	101.07	20.16	101.03	14.92	100.73	0.96	95.89	44	39
HM E26	6	4978	90.35	280	101.38	17.77	89.08	14.97	101.09	· 0.97	97.01	35	30
HM 7073	7	5577	101.24	285	103.15	19.57	98.10	15.20	102.63	0.95	95.34	42	37
HM RESIST	8	5613	101.88	272	98.58	20.61	103.30	14.75	99.59	1.13	113.60	40	37
H 46109	9	5687	103.23	277	100.11	20.57	103.07	14.80	99.92	0.97	97.26	46	43
H 46140	10	6048	109.77	277	100.21	21.85	109.49	14.81	99.99	0.97	96.94	49	45
H 46175	11	4842	87.89	262	94,85	18.48	92.62	14.20	95.87	1.10	110.06	38	37
H 46177	12		84.95	267	96.51	17.55	87.98	14.37	97.00	1.03	103.77	39	37
H 68108	13	5756	104.49	272	98.41	21.17	106.12	14.63	98.81	1.04	104.37	47	. 44
H 6852	14	6205	112.63	264	95.41	23.54	117.99	14.21	95.95	1.03	103.53	48	45
H 681A	15	5633	102.25	268	97.17	20.99	105.18	14.46	97.64	1.04	104.15	46	43
H 682	16	4881	88.60	277	100.23	17.63	88.36	14.70	99.25	0.85	85.73	42	39
BETA 6863	17	5438	98.71	283	102.34	19.24	96.41	15.09	101.87	0.95	95.34	40	37
BETA 5014	18	5336	96.85	279	100.86	19.15	95.98	14.89	100.51	0.95	95.74	37	35
BETA M811	19		91.10	271	98.28	18.49	92.66	14.61	98.62	1.03	103.40	38	35
BETA 5296	20	5551	100.75	284	102.97	19.51	97.80	15.19	102.59	0.97	97.33	37	36
BETA 6904	21		104.70	275	99.40	21.01	105.28	14.75	99.59	1.02	102.21	45	42
BETA M706	22		107.59	273	98.91	21.69	108.72	14.68	99.14	1.02	102.26	44	38
BETA 5216	23		98.98	275	99.60	19.82	99.33	14,77	99.72	1.01	101.39	38	34
BETA 3945	24		the second s	273	98.87	22.08	110,64	14.64	98.85	0.98	98.55	45	43
ACH 302	25		102.26	281	101.77	20.04	100.43	15.13	102.17	1.07	107.67	45	43
ACH 309	26		the second se	278	100.64	19.69	98.68	14.94	100.87	1.04	104.04	37	33
ACH 205	27		98.24	269	97.50	20.09	100.71	14.43	97.43	0.96	96.46	41	35
ACH 9744	28		114.94	290	105.06	21.82	109.35	15.49	104.62	0.98	98.45	49	44
98 APH 05	29			263	95.27	22.00	110.27	14.30	96.57	1.14	114.59	48	46
98 HX 806	30	5652		261	94.60	21.63		14.17	95.68		110.74	45	41
98 HX 829	31	5619	101.99	272	98.38	20.68	103.63	14.54	98.16		95.12	44	39
99 HX 941	32		109.52	274	99.21	22.01	110.33	14.65	98.92	0.95	94.90	46	42
SX 108	33	and the second s	and the second sec	271	98.24	18.76		14.57	98.37	1.00	100.24	40	37
BETA 6904 (CHECK 1	34			294	106.47	19.53	97.89	15.64	105.59		93.33	36	33
HM RESIST (CHECK :	35	5322	96.61	287	103.95	18.53	92.89	15.28	103.17	0.92	92.29	39	38
ACH 309 (CHECK 3)	36	5496	99.77	283	102.59	19.39	97.20	15.16	102.37	0.99	99.27	40	38
Sec.	Mean	5509	100.00	276	100.00	19.95	100.00	14.81	100.00	1.00	100.00	42	38
5 Day	C.V. %	10.89		6.29		9.35		5.18		10.84		15.6	18.3
	LSD (0.05	516.4700		16.5100		1.9270		0.7558		0.1599		4	5

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## Table 4. Comparison of varieties with aphanomyces tolerance, Hector location ,1999 data

Variaties	code	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of mean	Rec. Suc. per Ton (lbs)	Rec. Suc. per Ton (%) of mean	Tons per Acra (Ibs)	Tons per Acre (%) of mean	Sucrose	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean
			A hour of a second s	harry bernet	1.1			1	1007000000		
HM E38	1			261	98.83	25.34	88,34	14.77	99.12	1.70	101.38
HM7092	2		94.85	260	98.20	27.69	96.54	14.67	98.47	1.68	100.58
HM 7057	3	7231	95.36	257	97.31	28.10	97.96	14.67	98.48	1.80	107.76
HM 7097	4		89.95	262	98.89	26.08	90.91	14.78	99.21	1.70	101.68
HM 7089	5	7443	98.16	270	102.26	27.52	95.94	15.09	101.30	1.57	93.70
HM E26	6	7796	102.81	273	103.41	28.50	99.37	15.24	102.33	1.57	93.80
HM 7073	7	7280	96.01	262	98.89	27.83	97.03	14.76	99.08	1.68	100.58
HM RESIST	8	7923	104.48	265	100.20	29.89	104.22	14.90	100.05	1.65	98.78
H 46109	9	7402	97.61	279	105.30	26.58	92.66	15.49	103.95	1.56	93.30
H 46140	10	8874	117.04	269	101.63	33.02	115.10	15.05	101.00	1.61	95.99
H 46175	11	7814	103.05	254	96.18	30.72	107.08	14.38	96.50	1.66	98.98
H 46177	12	9169	120.92	276	104.29	33.24	115.89	15.31	102.76	1.52	90.71
H 68108	13	8377	110.47	255	96.42	32.85	114,51	14.58	97.89	1.83	109.45
H 6852	14	6782	89.44	250	94.60	27.11	94.50	14.24	95.56	1.73	103.17
H 681A	15	8663	114.25	259	97.75	33.51	116.83	14.53	97.56	1.61	96.09
H 682A	16	8067	106.39	256	96.95	31,46	109.68	14.47	97.15	1.65	98.68
BETA 6863	17	7140	94.16	273	103.22	26.15	91.18	15.35	103.03	1.70	101.58
BETA 5014	18	7177	94.66	279	105.61	25.70	89.58	15.63	104.93	1.67	99.58
BETA M811	19	7972	105.13	265	100.31	30.05	104.76	14.94	100.26	1.67	99.88
BETA 8296	20	6860	90.47	265	100.29	25.86	90.16	14.91	100.11	1.65	98.68
BETA 6904	21	7104	93.68	263	99.55	26.98	94.06	14.88	99.89	1.72	102.57
BETA M706	22	7155	94.36	264	99.79	27.11	94.51	14.86	99.75	1.66	99.48
BETA 5216	23	6968	91.90	266	100.68	26.17	91.23	15.10	101.38	1.79	106.86
BETA 3945	24	7012	92.48	282	106.52	24.89	86.77	15.77	105.83	1.68	100.38
ACH 302	25	7566	99.78	261	98.72	28.98	101.02	14.82	99.46	1.76	105.36
ACH 309	26	7881	103.93	261	98.53	30.24	105.43	14.77	99.17	1.74	104.27
ACH 205	27	7374	97.25	248	93.88	29.70	103.54	14.16	95.07	1.75	104.47
ACH 9744	28	7818	103.11	256	96.63	30.59	106.65	14.43	96.83	1.65	98.49
98 APH 05	29	8122	107.11	264	99.94	30.73	107.12	14.81	99.43	1.60	95.40
98 HX806	30	6620	87.31	264	99.90	25.06	87.35	14.92	100.14	1.71	101.97
99HX829	31	8914	117.55	271	102.31	32.94	114.84	15.12	101.50	1.59	95.10
99HX941	32	8732	115.16	277	104.78	31.51	109.85	15.42	103.54	1.57	93.70
SX108	33	6911	91.14	261	98.59	26.50	92.40	14.73	98.90	1.70	101.38
BETA 6904 (CHECK1	34	6872	90.63	266	100.67	25.81	89.98	15.08	101.23	1.77	105.66
HM RESIST (CHECK2	35	7669	101.13	265	100.31	28.91	100.77	14.85	99.70	1.59	94.90
ACH 309 (CHECK3)	36	7652	100.91	261	98.67	29.32	102.22	14.82	99.45	1.77	105.66
	Mean	7583	100.00	264	100.00	28.68	100.00	14.90	100.00	1.67	100.00
	C.V. %	10		5		9,19		3.76		8,82	
	LSD (0.05)	1049		14		3.75		0.64		0.17	

## Table 5A. Comparison of varieties with aphanomyces tolerance (not sprayed for cercospora leaf spot), for yield and quality, Willmar location, 1999 data.

Varieties	code	CLS 1	CLS 1 (%) of mean	CLS 2	CLS 2 (%) of mean	CLS 3	CLS 3 (%) of mean	CLS AVG	CLS AVG (%) of mean
HM E38	1	1.667	92.07	3.000	82.23	5.500	98.02	3.40	92.12
HM7092	2	2.500		4.333	and the second se	6.833	121.78	4.53	122.83
HM 7057	3	2.000		3.833	and the second se	5.833	103.96	3.90	105.67
HM 7097	4	2.167	the second se	4.000	the second se	6.000	106.93	4.07	110.19
HM 7089	5	2.500		4.500		6.667	118.81	4.57	123.73
HM E26	6	1.500		2.833		4.500	80.20	2.93	79.48
HM 7073	7	3.000		5.167	141.62	7.500	133.66	5.23	141,80
HM RESIST	8	2.167		4.167	114.21	6.500	115.84	4.28	116.06
H 46109	9	1.500		2.667	73.10	4.667	83.17	2.95	79.93
H 46140	10	1.500	and the second se	3.167	86.80	4.833	86.14	3.18	86.24
H 46175	11	1.167	and the second se	3.000	the second se	4.667	83.17	2.93	the second se
H 46177	12	1.500	and the second se	3.500	and the second sec	5.167	92.08	3.40	92.12
H 68108	13	1.500	and the second se	2.833		4.667	83.17	3.00	81.28
H 6852	14	1.833		3.667	100.51	5.500	98.02	3.67	99.35
H 681A	15	1.500	the second se	3.833	and the second se	5.500	98.02	3.60	
H 682A	16	1.333	the second s	3.667	100.51	5.500	98.02	3.48	
BETA 6863	17	2.167	and the second se	4.333	the second se	6.333	112.87	4.28	the second se
BETA 5014	18	2.333	and the second se	4.333	and the second sec	6.500	115.84	4.40	119.22
BETA M811	19	1.333		3.167	and the second sec	5.000	89.11	3.17	85.80
BETA 8296	20	1.167		3.167	86.80	4.833	86.14	3.03	
BETA 6904	21	2.333	and the second se	3.500	the second	6.000	106.93	3.97	107.46
BETA M706	22	1.667	and the second se	3.833		5.667	100.99	3.72	100.70
BETA 5216	23	1.500		3.667	100.51	5.667	100.99	3.62	
BETA 3945	24	2.500	the second se	4.500	and the second se	6.667	118.81	4.55	
ACH 302	25	2.000	and the second se	4.167	Concerning of the local division of the loca	5.667	100.99	3.93	and the second se
ACH 309	26	1.500		3.167	86.80	5.333	95.05	3.32	the second se
ACH 205	27	1.667	and the second sec	3.833	the second se	6.000	106.93	3.85	and the second se
ACH 9744	28	1.833	the second se	3.833	and the second se	5.667	100.99	3.77	102.06
98 APH 05	29	1.667		3.333		5.500	98.02	3.48	
98 HX806	30	1.500	and the second se	2.833	and the second se	4.333	77.23	2.92	the second se
99HX829	31	1.500	and the second se	3.167	and the second se	4.500	80.20	3.07	
99HX941	32	1.167	the summer of the second se	3.667	100.51	4.833	86.14	3.23	and the second se
SX108	33	1.833		3.167	86.80	5.333	95.05	3.45	and the second se
BETA 6904 (CHECK1)		2.000	and the second se	4.333	the second se	6.667	118.81	4.33	and the second se
HM RESIST (CHECK2		2.167	And in case of the local distance of the loc	4.167	and the second s	6.333	112.87	4.33	the second se
ACH 309 (CHECK3)	36	2.000		3.000		5.333	95.05	3.43	
ion doa (oneoka)	30	2.000	1 10.43	5.000	02.20	5.555	85,05	1 0.40	33.04
	Mean	1.81	100.00	3.65	100.00	5.61	100.00	3.69	100.00
	CV. %	40.030	k.	25.870		16.450		20.55	
	LSD (0.05)	0.826	Č.	1.075		1.052		0.8642	6

## Table 5b. Comparison of varieties with aphanomyces tolerance (not sprayed for cercospora leaf spot), for cercospora leaf spottolerance, Willmar location, 1999 data.

## USE OF CHEMICAL FOR CONTROL OF APHANOMYCES

## **OBJECTIVE:**

Evaluate performance of various fungicides and nitrogen for influence on soil borne diseases.

## **EXPERIMENTAL PROCEDURE:**

Trials were planted and data collected from two locations in 1999. HM Resist and HM Hector were varieties planted. Treatments included untreated varieties, seed treated with Tachigaren at 45 g/kg, Vapam or Quadris fungicides, 30 or 60 pounds nitrogen in the form of urea applied and cultivated in at the 4-leaf crop stage, and combinations of each. Vapam and Quadris treatments were applied with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 Tee-Jet nozzles. Treatment dates are listed with the experiment specifications in Table 1.

Experiment design was a randomized complete block. Experimental units were 11 ft. wide (6 rows) by 30 ft. long. All data were collected from center two rows.

Table 1. Location, planting date, fungicide treatments, nitrogen application, stand count dates, and harvest dates for the use of chemical for control of Aphanomyces experiment.

		Planting	Fungicide	Nitrogen	Stand C	ount Dates	Constant.
Exp. #	Location	Date	Treatments	Application	1st	2nd	Harvest
991	10 Buffalo Lake	June 21	June 14	July 14	June 21	July 14	Sept. 23

Table 2. Comparison of chemical control with tolerant and susceptible varieties as influenced by root diseases influence on yield, quality, and stand count (exp 9911). Abpanomyces, and rhizomania present

	Rec. Suc.	Rec. Suc.	Rec. Suc.	Rec. Suc.	Tons	Tons	112 6	Statistics in the	Loss to	Loss to		Annalis and
NAMES OF THE PARTY	per Acre	per Acre	per Ton	per Ton	por Acre	per Acre	Sucrose	Sucrose	Moleszes	Molasses	June 14	July 21
	(Ibs)	(%) of	120-5	(%) of		(%) of		(%) of		(%) 08	Stand	Stand
Varieties*	学校に対応	test mean	(ibs)	test mean	(tons)	test moan	(%)	test mean	(%)	test mean	count	count

1 1 1 1

Hector without Tach	Untreated	1715	94	214	95	8.02	100	12.18	95	1.48	97	25	22
Resist without Tach	Untreated	1698	93	239	106	7.10	88	13.41	105	1.45	94	30	28
Resist with Tach	Tachigaren	1669	92	232	103	7.19	89	13.08	102	1.46	95	38	37
Hector with Tach	Tachigaren	1874	103	223	99	8.40	104	12.67	99	1.52	99	35	32
Resist with Tach	Tachigaren + Vapam	1752	96	231	103	7,58	94	13.03	102	1.47	96	37	31
Hector with Tach	Tachigaren + Vapam	2414	133	249	110	9.69	120	13.93	109	1.48	97	34	33
Resist with Tach	Tachigaren + Quadris	1374	76	210	93	6.56	81	12.14	95	1.66	108	40	35
Hector with Tach	Tachigaren + Quadris	1884	104	234	104	8.04	100	13.26	104	1.54	101	36	35
Resist with Tach	Tachigaren + Vapam + Quadris	1340	74	222	98	6.05	75	12.69	99	1.61	105	39	38
Hector with Tach	Tachigaren + Vapam + Quadris	1986	109	237	105	8.39	104	13.38	105	1.55	101	35	33
Resist with Tach	Tachigaren + Nitrogen 30 lbs	1747	96	221	98	7.90	98	12.56	98	1.50	98	38	38
Hector with Tach	Tachigaren + Nitrogen 30 Ibs	1515	83	219	97	6.93	86	12.54	98	1.61	105	33	30
Resist with Tach	Tachigaren + Nitrogen 60 lbs	1391	77	214	95	6.49	81	12.31	96	1.60	104	38	32
Hector with Tach	Tachigaren + Nitrogen 60 lbs	1877	103	227	101	8.27	103	12.86	100	1.51	99	34	34
Resist with Tach	Tachigaren + Vapam + Quadris + Nitrogen 3	2182	120	210	93	10.39	129	12.07	94	1.55	101	38	36
Hector with Tach	Tachigaren + Vapam + Quadris + Nitrogen 3	2191	121	243	108	9.01	112	13.63	106	1.47	96	36	35
Resist with Tach	Tachigaren + Vapam + Quadris + Nitrogen 6	2060	113	210	93	9.80	122	12.10	94	1.58	103	40	36
Hector with Tach	Tachigaren + Vapam + Quadris + Nitrogen 6	2110	116	244	108	8.64	107	13.69	107	1.47	96	38	35
Resist without Tach	Nitrogen 30 lbs	2145	118	216	96	9.94	123	12.34	96	1.55	101	27	20
Hector without Tech	Nitrogen 30 lbs	1589	87	224	99	7.11	88	12.76	100	1.59	103	28	26
Resist without Tach	Nitrogen 60 lbs	1355	75	210	93	6.44	80	12.10	94	1.58	103	31	22 28 37 32 31 33 35 35 35 35 35 36 36 36 35 36 35 20 20 20
Hector without Tach	Nitrogen 60 lbs	2102	116	229	101	9.20	114	12.92	101	1.49	97	24	20

	1816.87	100	225.36	100	8.05	100	12.80	100	1.53	100	34.27	31.55
C.V. %	19.43		15.49		16.29		15.28		22.59		18.5	16.3
LSD (0.05)	362.13		17.62		2.28		0.91		0.40		4	7

Hector = susceptible variety Resist = tolerant variety Nitrogen applied June 20 Tachigaren at 45 gram rate Vapam applied at 9 gal

Quadris applied at planting at a rate of .15 oz ai/1000 ft rw

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Varieties	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of fest mean	Rec. Suc. per Ten (lbs)	Rec. Suc. per Ton (%) of test mean	Tons per Acre (tons)	Tons per Acre (%) of test mean	12.22	Sucrose (%) of test mean	ERHIM ST	(%) of	June 14 July Stand Star count court	nd
			1									

Resist without Tach Unire Resist with Tach Tach Hector with Tach Tach Resist with Tach Tach	reated reated higaren higaren higaren + Vapam	2288 2814 3469 3378 3520	104 87 107 104	217 217 220 225	98 99 100 102	10.57 12.98 15.77	106 88 107	12.36 12.28 12.33	100 99 99	1.54 1.44 1.34	109 102 95	35 40 48	3
Resist with Tach Tach Hector with Tach Tach Resist with Tach Tach	higaren higaren	3469 3378	107 104	220	100	15.77	107			the second se		the second se	3
Hector with Tach Tach Resist with Tach Tach	higaren	3378	104			and the second se		12.33	99	1.34	05	48	
Resist with Tach Tach	Herein and the second se			225	102	10.00					- 90		- 4
	higaren + Vapam	3520				15.03	102	12.54	101	1.31	93	45	4
Hector with Tach Tach		0020	81	225	103	15.61	79	12.52	101	1.24	88	47	4
	higaren + Vapam	3346	97	223	101	15.02	95	12.55	101	1.41	100	44	4
Resist with Tach Tach	higaren + Quadris	3700	114	225	102	16.45	112	12.75	103	1.51	107	50	4
Hector with Tach Tach	higaren + Quadris	3731	95	222	101	16.80	94	12.54	101	1.43	102	46	4
Resist with Tach Tach	higaren + Vapam + Quadris	3369	104	224	102	15.06	102	12.66	102	1.48	105	49	4
Hector with Tach Tach	higaren + Vapam + Quadris	3526	82	222	101	15.88	81	12.54	101	1.44	102	45	4
Resist with Tach Tach	higaren + Nitrogen 30 lbs	3217	99	214	97	15.03	102	12.11	98	1,40	99	48	4
	higaren + Nitrogen 30 lbs	3340	103	220	100	15.17	103	12.45	100	1.43	101	43	4
	higaren + Nitrogen 60 lbs	3319	123	216	98	15.33	124	12.37	100	1.55	110	48	4
	higaren + Nitrogen 60 lbs	3097	96	214	97	14.50	98	12.11	98	1.42	101	44	4
	higaren + Vapam + Quadris + Nitrogen 30 lbe	3436	106	220	100	15.61	106	12.45	100	1.44		48	4
	higaren + Vapam + Quadris + Nitrogen 30 lbs	3666	113	219	100	16.72	114	12.23	99	1.27	102	46	4
	higaren + Vapam + Quadris + Nitrogen 60 lbs	3263	101	226	103	14.47	98	12.69	102	1.41	100	50	4
	higaren + Vapam + Quadris + Nitrogen 60 lbs	3239	100	225	102	14.43	98	12.58	101	1.35	96	48	4
	ogen 30/bs	2638	101	215	98	12.29	104	12.14	98	1.40	100	37	3
	open 30 lbs	2891	89	220	100	13.17	89	12.18	99	1.34	95	38	3
	ogen 60 lbs	2671	108	206	94	12.97	115	11.82	95	1.53	108	41	4
	ogen 60 lbs	2722	84	224	102	12.14	82	12.57	101	1.36	97	34	3

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2.36

0.51

Table 3. Comparison of chemical control with tolerant and susceptible varieties as influenced by root diseases influence on yield, quality, and stand count (exp 9911). Ahpanomyces, rhizoctonia present

479.77

Hector = susceptible variety

Resist = tolerant variety

LSD (0.05)

Nitrogen applied June 20 Tachigaren at 45 gram rate

Vapam applied at 9 gal Quadris applied at planting at a rate of .15 oz ai/1000 ft rw

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0.22

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## CURRENT AND POTENTIAL SMBSC WEED CONTROL PROGRAMS

## **OBJECTIVE:**

Evaluate the performance of potential weed control options and combinations, in addition to current weed control options.

## EXPERIMENTAL PROCEDURE:

Experimental design was a randomized complete block. Data was accumulated from four locations planted in 1999. Treatments that included Roundup or Liberty herbicide had tolerant varieties seeded, respectively. Conventional plots were seeded to VDH 46109. Applications were made to the center four rows of six row by 30 ft. plots with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 Tee-Jet nozzles. Treatments included Roundup, Liberty, and the micro-rate alone; the micro-rate with twice the recommended Upbeet rate; combinations including Roundup, Liberty, or the micro rate following Dual II magnum ppi; Roundup, Liberty, or the micro-rate plus Frontier postemergence; and Roundup, Liberty, or the micro rate plus Dual II Magnum postemergence. Weed control evaluation dates were June 27 and July 26. No postemergence grass weed control products were applied to any of the treatments in order to compare the micro rate to the micro rate with pre-emerge and layby Frontier and Dual II Magnum. This is responsible for the decreased yields of the micro-rate alone treatments. Experiment and treatment specifications are presented in Table 1.

Table 1. Specifications for the SMBSC current and potential weed control options experiment.

Exp.		Pre-emerge Dual	Planting	The second second second second	nerge Mi ed Treatr	cro-Rate nents	Libert	d-up or y Based ments	Hand
#	Location	Treatments	Date	1	2	3	1	2	Harvested
9916	Hancock	April 28	April 28	May 18	May 25	June 2	June 2	June 15	N/A
9917	Buffalo Lake	April 26	April 29	May 18	May 25	June 2	June 2	June 15	Sept. 16
9918	Redwood Falls	April 29	April 29	May 18	May 27	June 2	May 27	June 16	Sept. 16
9919	Willmar	April 26	April 29	May 18	May 26	June 3	June 3	June 16	N/A

## Table 1. Injury and efficacy data for SMSC weed control program trial, Hancock Location

TREATMENT	RATE	Injury	Injury (%) of mean	Purslane		Redroot Pigweed 1			Redroot Pigweed 2 (%) of mean	Yellow Foxtall 1	Yellow Foxtall 1 (%) of mean	Yellow Foxtail 2			Common Lambagrtr 1 (%) of mean		Common Lambsgrtr 2 (%) of mean	Wood Sorrel	Wood Sorrel (%) of mean
RoundupRosindup	1 gt /1 gt	0	0.00		104.79			91.75		91.25		85.00	106.72		110.02			96.50	
LibertyLiberty	27 oz/27 oz.		0,00		108.15		109.54			96.25	111.37		104.72				105.83	88.00	
Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5% (3X)	. 0	0.00				101.98			73,50		65.00	75.21				94.94	91.00	
Betanex+Upbeet+Stinger+MSO	8 oz.+1/4 oz.+1,3 oz.+1,5% (3X)	5	230,30							60.00		76.25	88.23		97.44		94.94	94.50	
Dua/Roundup/Roundup	1 qL/1 qL/1 qL	4	172.73					91.25		98.00		91.75	100.17		112.02		114.24	98.50	110.83
Dual Roundup Roundup	1.67 pt/1 qt/1 qt	1	57,58				110.94			98.50	113.98		105,30		113.16		112.68	98.75	
Duai/Liberty/Liberty	1 gt./27 oz./27 oz.		57.58				104.50			98,50	113.08		106.17		108.59		104.28	91.00	
D aa/Betanex+Upbeet+Stinger+MSO	1 qt./8 oz.+1/8 oz.+1.3 oz.+1.5% (3X)	\$0					102.54			91.25		83,25	96.33		102.59			94,25	
Dua/Betanex+Upbeet+Stinger+MS/2	1.67 pt/8 oz /1/8 cz.+1.3 cz.+1.5% (3X)	15	690,91							\$3,00		85.75	99.22		113.16		114,24	98.25	
E-vurtier+Roundup/Roundup	25 oz.+1 qt./1 qt.	0	0.00							88.00		83.25	96.33		101.44		101.79	75.50	
Emplier+Liberty/Liberty	25 oz.+27 oz./27 oz.	0	0.00	96.50	106.75	W7.25	106.98	90.50	110.79	\$8.00	113.40	90.00	106.14	96.00	109.73	89.25	111.12	99.50	108.5
*) Retonav+Unbest+Stinger+MSO	8 cz.+1/8 cz.+1.3 cz.+1.5%														1.5-10-00-00				
b) Frontier+Eletanex+Upbeet+Stinger+MSO	25 oz.+8 cz.+1/8 cz.+1.3 cz.+1.5%	1 3	115.15	96.75	106.15	\$4.50	105.90	86,25	105.59	85.50	98.93	77.50	89.68	86.25	98.59	78.75	98.05	67.75	109.96
c) Betanex+Upbeet+Stinger+MSD	8 oz.+1/8 oz.+1.2 oz.+1.5%																		
a) Betanex+Uobeet+Stinger+MSO	8 az.+1/8 az.+1.3 az.+1.5%														and the second s				
b) Fromler+Betanex+Upbeet+Stinger+MSO	8 cz.+1/8 oz.+1.3 oz.+1.5%	1	57.58	89.00	09.49	88.00	98.61	85.00	104.08	88.25	102.12	82.50	95.48	63.50	95.44	76.25	94.94	93.25	104.91
<li>c) Betanex+Upbeet+Stinger+MSO</li>	8 cz.+1/8 cz.+1.3 cz.+1.5%											_							
Dual+Roundup/Roundup	1 gt.+1 gt./1 gt.	9	0.00				106.96			97.75		88.25	102.12		110.02	88.25	109.88	99.00	
Dual+Roundup/Roundup	1.67 pt.+1 qt./1 qt	0	0.00		108.71		105.42			97,50		88.25	102.12	95.25	106.87	89.75	111.75	99.00	111.30
Dual+Liberty/Liberty	1 gt.+27 oz./27 oz.	0	0.00	88.50	08 93	93.50	104.78	87.00	106.51	94.50	109.35	87.00	100.67	96.75	110.59	90.50	112.68	87.25	96.10
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%	1 T.		1.000	1 Activity	i de la como	and there is		and a strength			Sec. 12	- Inder			- min is			1.
b) Dual+Betanex+Upbeet+Stinger+MSO	1 gt.+8 az.+1/8 az.+1.3 az.+1.5%		0.00	98.00	109.55	99.00	110.94	92.25	112.93	87.75	101.54	78.75	91.12	91.00	104.02	63.75	104.28	98.00	110.20
c) Retanex+Upbest+Stinger+MSO	8 cz.+1/8 cz.+1.3 cz.+1.5%	1.		1000	1		C (10) 200						Cellines.	0.000	1		Contraction of the second	1000	Contraction of the second
a) Betanex+Upheet+Stinger+MSO	8 oz.+1/8 oz.+1 3 oz.+1.5%	1.1.1.1.1.1.1.1	1.				- Course	10000	and an and a set		- Annalis	in the second							in the second
b) Dual+Betanex+Upbeet+Stinger+MSO	1.67 pt.+8 cz.+1/8 cz.+1.3 cz.+1.5%		57,58	88.25	98.65	87.25	97.77	83,00	101.61	84.50	97.78	17.50	89.68	87.50	100.02	80.00	18.09	91.75	103.2
c) Betanex+Upbeet+Stinger+MSO	8 02.+1/8 02.+1.3 02.+1.5%					- 2222			C 220404	1.151		-11.11	1 2.281		- C	1.1.1.1.1.1.1	1.1.1.1	ALC: NO.	
Check 119 219 316 409		6	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean		2.171	100.00	89.46	100.00	89.237	100.00	81.684	100.00	86.621	100.00	28.645	92.16	87.487	199,00	\$9,315	100.00	55,552	199.0
C.V. %		194.73	1	7.28	E.	6.87		Z.99		5,79		6.88		2.43		9,36		10.62	l.
LSD (0.05)		5.199	E:	2.22	1	8.577		8,500	Ē.	8,709		7.700		16.999		10,900		13.500	d 11

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#### Table 2. Injury and efficacy data for SMSC weed control program trial, Buffalo Lake Location

Treatment	Rate	Injury	Injury (%) of mean	Stand	Stand (%) of mean	Linbsqrti 1	Lmbsqrtr 1 (%) of mean	Lmbsqrtr 2	Lmbsortr 2 (%) of mean	Green Foxtall 1	Green Foxtail 1 (%) of mean	Green Foxtall 2		Redroot Pigweed	Redroot Pigweed (%) of mean	Redroot Pigweed 2		Venice Mallow	Venice Matlow (%) of mean
RoundwarRoundup	1 gt/1 gt.	3	292.31	94	102.12	91.50	111.57	93.00	122.86	85.50	107,99	97.75	127 51	82.25	100.66		106.93	91.50	108.66
Liberty/Liberty	27 at /27 at	0	0.00	.98						84.50	106.73	85.50	111.53		100.78		96.60	88.50	108.00
Betanex+Upbret+Stinger+MSO	8 oz +1/8 oz +1.3 oz +1.5% (3X)	5	584.62	90	96.98	80.00	97.55		74.31		89.68				101.27		84.19	90.25	105.09
Betanex+Upbeet+Stinger+MSO	8 oz +1/4 oz +1 3 oz +1 5% (3X)	0	0.00	97	105.37	71.25	86.88		74.31	59.25	74.64				89.95		101 03	83.25	98.86
Dual/Roundup/Roundup	1 gt/1 gt/1 gt	0	0.00	88	95.62	94.25	114 92		127.48		122.52	99.00			114.73		111.07	90.25	107.17
Dual/Rounduo/Roundup	1.67 pt/1 at/1 at	1	146.15	85	92.10	85.75	104.56		124.51	92.25	116.52	99.00	129.15		106.17		111.37	86.00	107,17
Dual/Liberty/Liberty	1 gt/27 gz/27 gz.	0	0.00	90			116.44		119.22		122.20	99.00					114.32	94.25	102.13
Dual/Betanex+Upbeet+Stinger+MSO	1 gL/8 gz.+1/8 gz.+1.3 gz.+1.5% (3	0	0.00	90			105.17		92.80	86.50	109.26	78.75						92.25	109.55
Dual/Betanex+Upbeet+Stinger+MSO	1.67 pt/6 oz /1/8 oz +1.3 oz +1.5%	0	0.00	81	87.77	92.50	112.79		94.79		115.57			95.25	116.57		101.03	94.25	111.92
Frontier+Roundup/Roundup	25 oz. +1 gt./1 gt.	4	438.46	93	101.04	90.75	110.65	97.25	128.47	92.25	116.52		128.49		99.74		114.91	85.00	100.94
Frontier+Liberty/Liberty	25 oz.+27 oz./27 oz.	D	0.00	95			108.82	91.00	120.22		103.89				99.74		110.18	87.25	100.94
a) Betanex+Upbeet+Stinger+MSG	8 oz +1/8 oz +1.3 oz +1.5%		1										140.04	01.00		10023	+ 10.10	61.23	103.01
b) Frontier+Betanex+Upbeet+Stinger+MSO	25 oz.+8 oz.+1/8 oz.+1.3 oz.+1.5%	0	0.00	89	95.15	79.50	96.64	64.50	85.21	70.25	88.73	55.00	71.75	83.00	101.58	85.00	100.44	85.25	101.23
c) Betanex+Upbeet+Stinger+MSO	8 oz +1/8 oz +1.3 oz +1.5%	-						-							191,000	100.000	100.44	63,63	101.23
a) Betanex+Upbeet+Stinger+MSO	8 oz +1/8 oz +1 3 oz +1.5%			0.00	1900	1.0000						-				-			
b) Frontier+Betanex+Upbeet+Stirger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%	0	0.00	96	103.75	81,25	99.07	67.25	88.84	76.75	96.94	72.25	94.25	85.00	105.25	89.75	106.05	84.75	100.64
c) Betanex+Upbeet+Stinger+MSO	8 az +1/8 az +1.3 az +1.5%														100.000	948-14	100.00	0475	100.04
Dual+Roundup/Roundup	1 gt +1 gt /1 gt.	Ċ	0.00	94	102.12	90.75	110.65	97.75	129.13	89.50	113.05	98.25	128.17	90.25	110.45	96.75	114.32	83.50	99.16
Dual+Roundup/Roundup	1.67 pt.+1 gt/1 gt	4	438.46	95	102.67	92.00	112.18	95.25	125.83	92.50	116.84		129.15	85.00	104.03		108.71	93.25	110.73
Dual+Liberty/Liberty	1 gt.+27 oz./27 oz.	0	0.00	97	104.56	87.75	107.00	86.25	113.94	86.00	106.63	90.00	129.15	83.00	101.58		112.55	92.75	
a) Betanex+Upbeet+Stinger+MSO	18 oz.+1/8 oz.+1.3 oz.+1.5%																112.00	04.10	110.14
b) Dual+Betanex+Upbeet+Stinger+M50	1 gt +8 gz +1/8 gz +1.3 gz +1.5%	0	0.00	93	100.50	85.50	104.25	63.75	84.22	77.75	98.21	65.00	64.79	89.25	109.23	87.50	103.39	90.25	107.17
<li>c) Betanex+Upbeet+Stinger+MSO</li>	8 oz.+1/8 oz.+1 3 oz.+1 5%		1000			1.1.1.1			10.00							41,44			197.17
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%																		
b) Dual+Betanex+Upbeet+Stinge+MSO	1.67 pt+8 oz.+1/8 oz.+1.3 oz.+1.5	0	0.00	-94	101.58	76.25	92.97	63.75	84.22	72.75	91.89	63.75	83.16	87,50	107.09	86.25	101.91	87.50	103.91
<li>c) Betanex+Upbeet+Stinger+MSO</li>	8 oz.+1/8 oz.+1.3 oz.+1.5%	-							90									01,822	100.01
Check 119 219 316 409		0	0.00	96	103.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean		0.855	100.00	92.289	109.00	82.013	100.00	75.697	100.00	79.171	100.00	76,658	100.00	81.711	100.00	64.632	100.00	84,211	100.00
C.V. %		418.78		5.69		9.42		9.24		11.34		15.89		10.00		7.68		10.59	
LSD (0.05)		5.071		Z.443		10.940		13.099		12,700		17.240		11.570		9.204		12.633	

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## Table 3. Yield and quality data for SMSC weed control program trial, Buffalo Lake location.

Treatment	Rate	Rec. Suc. per Acre (lbs)	Rec. Suc. per Acre (%) of mean	Rec. Suc. per Ton (lbs)	Rec. Suc. per Ton (%) of mean	Tons per Acre (ibs)	Tons , per Acre (%) of mean	Sucrose (%)	Sucrose (%) of mean	Loss to Molasses (%)	Loss to Molasses (%) of mean
Roundup/Roundup	1 at/1 at.	6033	133.91	259	102.42	23.38	137.79	14.10	102.26	1.17	100.63
Liberty/Liberty	27 oz./27 oz.	6072	134.77	292	115.55	20.79	122.56	15.82	114.76	1.23	106.23
Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5% (3X)	1833	40.68	287	113.82	6,49	38.22	15.53	112.68	1.16	100.20
Betanex+Upbeet+Stinger+MSO	8 oz.+1/4 oz.+1.3 oz.+1.5% (3X)	1098	24.37	226	89.51	4.78	28.16	12.44	90.26	1.14	98.47
Dual/Roundup/Roundup	1 qt/1 qt/1 qt	6625	147.06	254	100.45	26.12	153.95	13.96	101.25	1.28	109.89
Dual/Roundup/Roundup	1.67 pt/1 qt/1 qt.	5897	130,90	250	99.17	23.53	138.66	13.77	99.91	1.25	107.95
Dual/Liberty/Liberty	1 gt./27 oz./27 oz.	5081	112.79	261	103,43	19,22	113.27	14.29	103.66	1.23	106.23
Dual/Betanex+Upbeet+Stinger+MSO	1 qt./8 oz.+1/8 oz.+1.3 oz.+1.5% (3)	2544	56.47	270	107.01	9.63	56.73	14.66	106.36	1,15	99.33
Dual/Betanex+Upbeet+Stinger+MSO	1.67 pt/8 oz./1/8 oz.+1.3 oz.+1.5% (	2650	58.82	278	110.31	9.57	56.39	15,15	109.90	1.22	105.37
Frontier+Roundup/Roundup	25 oz.+1 qt/1 qt.	8488	188.40	271	107.28	31.35	184.80	14.87	107.91	1.33	114.85
Frontier+Liberty/Liberty	25 oz.+27 oz./27 oz.	7705	171.02	275	109.02	28.06	165.36	15.01	108.87	1.24	107.09
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%		-								
b) Frontier+Betanex+Upbeet+Stinger+MSO	25 oz.+8 oz.+1/8 oz.+1.3 oz.+1.5%	2113	46,90	272	107.84	7.81	46.05	14.81	107.45	1.19	102.72
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%										
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%	-									
b) Frontier+Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%	3779	83.89	278	110.00	13.61	80.21	15.10	109.56	1.22	104.94
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%										
Dual+Roundup/Roundup	1 qt+1 qt/1 qt.	8119									109.46
Dual+Roundup/Roundup	1.67 pt.+1 qt/1 qt.	6910				28.74	169.41			1.27	109.46
Dual+Liberty/Liberty	1 qt+27 oz./27 oz.	6288	139.56	269	106.72	23.21	136.80	14.73	106.87	1.26	108.38
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%										
b) Dual+Betanex+Upbeet+Stinger+MSO	1 qt.+8 oz.+1/8 oz.+1.3 oz.+1.5%	2233	49.56	282	111.69	7.86	46.33	15.27	110,75	1.17	100.63
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%										
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%		- (1995)	1.							
b) Dual+Betanex+Upbeet+Stinger+MSO	1.67 pt.+8 oz.+1/8 oz.+1.3 oz.+1.5%	2132	47.32	263	104.25	8.13	47.92	14,42	104.59	1.26	108.17
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%					1					
Check 119 219 316 409		0	0.00	0	0,00	0.00	0.00	0.00	0.00	0.00	0.00
Mean		4505.23	100.00	252.44	100.00	16.97	100.00	13.78	100.00	1.16	100.00
C.V. %		22		10		17.36	Ê.	8.99	19	5.96	
LSD (0.05)		1379	l.	35.3		4.17		1.75	ŧ.	0.09	(

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Table 4. Injury and efficacy data for SMSC weed control program trial, Willmar Location

TREATMENT	RATE	Injury	Injury (%) of mean	Stand	Stand (%) of mean	Green Foxtail 1	Green Foxtail 1 (%) of mean	Green Foxtail 2	Green Foxtail 2 (%) of mean
Roundup/Roundup	1 qt/1 qt.	84	117.80	0.00	0.00	99.00	110.50	88.75	109.64
Liberty/Liberty	27 oz./27 oz.	91		2.50	108.57	98.75		90.00	111.18
Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5% (3X)	83	116.40	11.25	488.57	84.25	94.04	78.75	97.29
Betanex+Upbeet+Stinger+MSO	8 oz.+1/4 oz.+1.3 oz.+1.5% (3X)	84	117.80	8.75	380.00	77.25		66.25	81.84
Dual/Roundup/Roundup	1 qt/1 qt/1 qt.	41	58.02	0.00		99.00	110.50	91.25	112.73
Dual/Roundup/Roundup	1.67 pt./1 qt./1 qt.	28	38.68	0.00		99.00	110.50	89.25	110.26
Dual/Liberty/Liberty	1 gt./27 oz./27 oz.	48	66.81	0.00		99.00		87.75	108.40
Dual/Betanex+Upbeet+Stinger+MSO	1 qt./8 oz.+1/8 oz.+1.3 oz.+1.5% (3	26	36.92	2.50		97.75		89.25	110.26
Dual/Betanex+Upbeet+Stinger+MSO	1.67 pt./8 oz./1/8 oz.+1.3 oz.+1.5%	30	42.20	1.25		95.00		85.00	105.01
Frontier+Roundup/Roundup	25 oz.+1 qt./1 qt.	87	122.73	0.00		99.00		88.25	109.02
Frontier+Liberty/Liberty	25 oz.+27 oz./27 oz.	87	122.38	0.00	0.00	98.25		90.00	111.18
	8 oz.+1/8 oz.+1.3 oz.+1.5%							00.00	
b) Frontier+Betanex+Upbeet+Stinger+MSO	25 oz.+8 oz.+1/8 oz.+1.3 oz.+1.5%	88	123.08	2.50	108.57	88.25	98.50	80.00	98.83
	8 oz.+1/8 oz.+1.3 oz.+1.5%								00100
	8 oz.+1/8 oz.+1.3 oz.+1.5%								
b) Frontier+Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%	78	109.72	12.50	542.86	85.25	95.15	77.50	95.74
	8 oz.+1/8 oz.+1.3 oz.+1.5%								00.11
Dual+Roundup/Roundup	1 qt.+1 qt./1 qt.	73	102.68	0.00	0.00	99.00	110.50	90.00	111.18
Dual+Roundup/Roundup	1.67 pt.+1 qt./1 qt.	75	105.50	0.00	0.00	98.75		90.50	111.80
Dual+Liberty/Liberty	1 qt.+27 oz./27 oz.	92	129.76	0.00	0.00			90.50	111.80
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%								
b) Dual+Betanex+Upbeet+Stinger+MSO	1 qt.+8 oz.+1/8 oz.+1.3 oz.+1.5%	87	122.73	1.25	54.29	90.00	100.46	79.50	98.21
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%								
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%								
b) Dual+Betanex+Upbeet+Stinger+MSO	1.67 pt.+8 oz.+1/8 oz.+1.3 oz.+1.5	84	118.51	1.25	54.29	95.75	106.87	85.50	105.62
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%								100.02
Check 119 219 316 409		86	120.27	0.00	0.00	0.00	0.00	0.00	0.00
Mean		71.092	100.00	2.30	100.00	89.592	100.00	80.947	100.00
<u>C.V. %</u>		13.61		236.74		5.39		6.34	
LSD (0.05)		13.696		7.72		6.831		7.261	

## Table 5. Injury and efficacy data for SMSC weed control program trial, Redwood Falls Location

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TREATMENT	RATE	Injury	Injury (%) of mean	Stand	Stand		Common Lambsortr 1 (%) of mean		Common Lambsgrtr 2 (%) of mean	Green Foxtall 1	Green Foxtall 1 (%) of mean	Green Foxtall 2	Green Foxtall 2 (%) of mean	Redroot Pigweed	Redroot Pigweed 1 (%) of mean	Pigwood	Redroot Pigweed 2 (%) of mean
	1 gL/1 gL	3	292.31	94.25	102.12	91.50	111.57	93.00	122.86	85.50	107.99	97.75	127.51	82.25	100.66	90.50	106.93
Liberty/Liberty	27 oz./27 oz.	0	0.00	98.00	106.19	88.25	107.60	83.00	109,65	84,50	106.73	85.50	111.53	87.25	106.78	81.75	96.60
Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5% (3X)	5	584.62	89.50	96.98	80.00	97.55	56.25	74,31	71.00	89.68	25.00	32.61	82.75	101.27	71.25	84.19
Betanex+Upbset+Slinger+MSO	8 oz.+1/4 oz.+1.3 oz.+1.5% (3X)	0	0.00	97.25	105.37	71.25	86.88	56.25	74.31	59.25	74.84	42.50	55.44	73.50	89.95	85.50	101.03
Dua/Roundup/Roundup	1 gt/1 gt/1 gt.	0	0.00	88.25	95.62				127,48	97.00	122.52	99.00	129.15	93.75	114,73	94.00	111.07
Dual/Roundup/Roundup	1.67 pt/1 qt/1 qt.	1	146.15		92.10			94.25	124.51	92.25		99.00	129.15	86,75	106.17	94.25	111.37
Dual/Liberty/Liberty	1 qt./27 oz./27 oz.	0		89.75					119.22	96.75			129,15		117.49	96.75	114.32
Dual/Betanex+Upbeet+Stinger+MSO	1 gt/8 oz.+1/8 oz.+1.3 oz.+1.5% (	0	0.00		97.52				92.80	86.50			102.73		107.70	85.50	101.03
Dual/Betanex+Upbeet+Stinger+MSO	1.67 pt/8 oz /1/8 oz +1.3 oz +1.5%	0	0.00		87.77				94.79	91.50					116.57	85.50	101.03
Frontier+Roundup/Roundup	25 oz.+1 gt/1 gt	4	438.46	93,25	101.04				128.47	92.25					99.74	97.25	114.91
Frontier+Liberty/Liberty	25 oz.+27 oz./27 oz.	10	0.00	95.00	102.94	89.25	108.82	91.00	120.22	82.25	103.89	98.75	128.82	81.50	99.74	93.25	110.18
a) Retager+Uphent+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%														/		
b) Frontier+Betanex+Upbeet+Slinger+MS.	25 oz +8 oz +1/8 oz +1.3 oz +1.55	0	0,00	88.75	96,16	79.50	96.94	64.50	85.21	70.25	88.73	55.00	71.75	83.00	101.58	85.00	100.44
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%				7	1.1.1.1.1				1						6.0	· · · · · · · · · · · · · · · · · · ·
a) Retanex+Upbeel+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%					1. 1.6.1.3	i inaite	in a second	1 million					10000		Contero	
b) Frontier+Belanex+Upbeet+Stinger+MS	8 oz.+1/8 oz.+1.3 oz.+1.5%	0	0.00	95.75	103.75	81.25	99.07	67.25	88.84	76.75	96.94	72.25	94.25	86.00	105.25	89.75	106.05
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%				-					-					- 143		
Dual+Roundup/Roundup	1 qt.+1 qt/1 qt.	0		94.25	102.12				129.13	89.50		98.25			110.45		
	1.67 pt.+1 gt/1 gt.	4		94.75	102.67				125.83			99.00			104.03		
	1 gt.+27 oz/27 oz.	0	0.00	96.50	104,56	87.75	107.00	86.25	113.94	86.00	108.63	99.00	129.15	83,00	101.58	95.25	112.55
	8 oz.+1/8 oz.+1.3 oz.+1.5%							-								1.1.1.2.2.	
b) Dual+Betanex+Upbeet+Stinger+MSO	1 qt.+8 oz.+1/8 oz.+1.3 oz.+1.5%	0	0.00	92.75	100.50	85.50	104.25	63.75	84,22	77.75	98.21	65.00	84.79	89,25	109.23	3 87.60	103.39
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%											-					
a) Betanex+Upbeet+Stinger+MSO	8 az.+1/8 az.+1.3 az.+1.5%	1			-			i marten	-								- contraction
b) Dual+Betanex+Upbeet+Stinger+MSO	1.67 pt.+8 az.+1/8 az.+1.3 az.+1.5	0	0.00	93.75	101.58	76.25	92.97	63.75	84.22	72.75	91.89	63.75	83.10	87.50	107.09	86.25	101.91
	8 oz.+1/8 oz.+1.3 oz.+1.5%																
Check 119 219 316 409		0	D.00	95.75	103.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean		0.855	100.00	92.29	100.00	82.013	100.00	75.697	100.00	79.171	100.00	76.658	100.00	81.711	100.00	84.632	100.00
C.V. %		418.79	i.	5.70		8.42		12.21		11.34		15.89		10.01		7.58	ic
LSD (0.05)		5.072	E.	7.44		10.941	t.	13.090		12,707	S.	17.249		11.578		9,204	E

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## Table 6. Yield and quality data for SMSC weed control program trial, Redwood Falls Location

TREATMENT	RATE	Tons	Tons (%) of mean	Sugar	Sugar (%) of mean	LTM	LTM (%) of mean	RST	RST (%) of mean	RSA	RSA (%) of mean
Roundup/Roundup	1 gt/1 gt	24	128.83	13.29	104.12	1.58	104.33	234.13	104.12	5669.40	126.46
	27 oz./27 oz.	23	122.71	13.84	108.47	1.46	95.92	247.67	110.14	5734.10	127,90
	8 oz.+1/8 oz.+1.3 oz.+1.5% (3X)	13		14.02	109.84	1.30		254.38	113.13	3214.00	71.69
Betanex+Upbeet+Stinger+MSO	8 oz.+1/4 oz.+1.3 oz.+1.5% (3X)	8	42.70	13.00	101.85	3.14	207.17	197.08	87.65	1669.00	37.23
Dual/Roundup/Roundup	1 gt/1 gt/1 gt.	23	121.33	12.70	99.52	1.71	112.90	219.73		5003.50	111.61
Dual/Roundup/Roundup	1.67 pt./1 qt./1 qt.	22	117.50	12.94	101.38	1.67	110.26	225.32	100.20	5000.30	111.54
Dual/Liberty/Liberty	1 gt/27 oz./27 oz.	21		13.59	106.47	1.56	102.68		106.96	5031.00	112.22
Dual/Betanex+Upbeet+Stinger+MSO	1 gt./8 oz.+1/8 oz.+1.3 oz.+1.5% (3)	23		13.73	107.61	1.36		247,41	110.03	5698.30	127,11
Dual/Betanex+Upbeet+Stinger+MSO	1.67 pt./8 oz./1/8 oz.+1.3 oz.+1.5%	21	113.27	14.15	110.88	1.40	92.46		113.37	5478.60	122,21
	25 oz.+1 qt./1 qt.	23		12.98	101.67	1.63			100.93	5189.30	115.75
Frontier+Liberty/Liberty	25 oz.+27 oz./27 oz.	18	95.21	13.76	107.83	1.54	101.20	244.46	108,72	4380.00	97.70
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%					1					
b) Frontier+Betanex+Upbeet+Stinger+MSC	25 oz.+8 oz.+1/8 oz.+1.3 oz.+1.5%	22	115.39	13.05	102.28	1.57	103.50	229.61	102.11	4974.80	110.97
	8 oz.+1/8 oz.+1.3 oz.+1.5%					1					
	8 oz.+1/8 oz.+1.3 oz.+1.5%										
b) Frontier+Betanex+Upbeet+Stinger+MSC	8 oz.+1/8 oz.+1.3 oz.+1.5%	15	79.71	13.17	103.18	1.49	98.23	233.50	103.84	3493.10	77.92
<li>c) Betanex+Upbeet+Stinger+MSO</li>	8 oz.+1/8 oz.+1.3 oz.+1.5%					1.0000					
Dual+Roundup/Roundup	1 gt.+1 gt./1 gt.	24	125.15	12.89	100.97	1.68	110.76	224.07	99.65	5272.40	117.61
Dual+Roundup/Roundup	1.67 pt.+1 gt./1 gt.	23	124.71	13.30	104.20	-1.58	104.16	234.28	104.19	5517.20	123.07
Dual+Liberty/Liberty	1 qt.+27 oz./27 oz.	24	129.08	14.20	111.29	1.39	91.80	256.15	113.91	6233.70	139.05
a) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%										
b) Dual+Betanex+Upbeet+Stinger+MSO	1 qt.+8 oz.+1/8 oz.+1.3 oz.+1.5%	19	102.21	13.93	109.16	1.34	88.18	251.85	112.00	4835.50	107.86
c) Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%										
a) Betanex+Upbeet+Singer+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5%					1				2	
b) Dual+Betanex+Upbaet+Stinger+MSO	1.67 pt.+8 oz.+1/8 oz.+1.3 oz.+1.59	11	59.54	13.94	109.26	1.43	94.11	250.32	111.32	2784.90	62.12
	8 oz.+1/8 oz.+1.3 oz.+1.5%										
Check 119 219 316 409		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean		<u>18.804</u>	100.00	12.76	100.00	1.517	100.00	224.861	100.00	4483.111	100.00
C.V. %		11.48		4.76		36.14		<u>7.76</u>		<u>14.84</u>	
LSD (0.05)		3.056		0.86		0.776		24.720		941.900	

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## DUAL BY TILLAGE TRIAL

## **OBJECTIVE:**

Determine the influence, if any, of the type of fall tillage to corn ground proceeding sugarbeet on fall or spring applied Dual II Magnum efficacy.

## **EXPERIMENTAL PROCEDURE:**

The experiments were established in the fall of 1998 with moldboard plow and disk-chisel tillage operations performed. Tillage and herbicide treatments were replicated four times in randomized complete block design. Dual II Magnum fall applied treatments were made on November 4, 1998. Spring applied Dual II Magnum was applied April 23 in granular form. Treatments that received postemergence applications were made to the center four rows of six row by 30 ft. plots with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 Tee-Jet nozzles. Yield data was established by sampling ten ft. of row from each of center two rows of 6 row plots on September 20. Samples were weighed and analyzed for quality.

Table 1. Sugar beet yield and quality with Fall and spring applied Dual II Magnum as influenced by fall tillage type.

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Fall Tillage Type	Application Timing	Herbicide Treatment	Ton/ ACRE	Ton/ ACRE % of Mean	Sugar Percent	Sugar Percent % of Mean	LTM	LTM % of Mean	RST	RST % of Mean	RSA	RSA % of Mean
Disk Chiesel	Fall	Dual	13.10	84.80	16.78	105.87	1.02	87.90	315.17	107.28	4136.77	91.67
Disk Chiesel	Spring	Dual	13.31	86.14	16.37	103.29	1.02	87.65	307.06	104.52	4086.10	90.54
Disk Chiesel	Fall Postemergence	Dual * Micro rate (3x)	19.00	123.01	16.17	102.03	1.14	98.23	300.63	102.33	5704.54	126.41
Disk Chiesel	Spring Postemergence	Dual * Micro rate (3x)	20.43	132.26	15.65	98.75	1.15	99.29	289.98	98.71	5923.27	131.25
Disk Chiesel	Postemergence	* Micro rate (3x)	16.20	104.86	16.14	101.83	1.16	100.15	299.53	101.96	4840.38	107.26
Disk Chiesel		Check	9.24	59.81	15.95	100.66	1.24	106.62	294.33	100.19	2718.69	60.24
Mold beard	Fall	Dual	14.15	91.61	15.32	96.65	1.14	98.32	283.53	96.51	4003.69	88.72
Mold board	Spring	Dual	14.99	97.07	15.43	97.36	1.18	101.78	285.00	97.01	4247.43	94.12
Mold board	Fall Postemergence	Dual * Micro rate (3x)	17.42	112.75	15.29	96.44	1.20	103.17	281.75	95.91	4921.03	109.04
Mold board	Spring Postemergence	Dual * Micro rate (3x)	18.53	119.94	15.47	97.59	1.13	97.38	286.75	97.61	5333.25	118.18
Mold board	Postemergence	* Micro rate (3x)	23.16	149.95	15.26	96.25	1.16	99.91	281.91	95.96	6486.08	143.72
Mold board		Check	5.84	37.79	16.37		1.39		299.64		1753.05	
	Mean		15.45		15.85		1.16		293.77		4512.86	
	C.V. %		9.60		14.20		18.00		16.40		12.95	
	LSD (0.05)		2.36		0.79		0.19		19.00		565.00	

Micro Rate

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Betanex @ 8 oz/acre Stinger @ 1.25 oz/acre Upbeet @ 1/4 oz/acre Methylated Seec oil 1.5% V/V

#### Table 2. Fall and spring Dual application and tillage influence on sugarbeet injury and stand and weed control Location Maynard

Fall Tillage Type	App. Timing	Herbicide Treatment	Injury	Injury (%) of mean	Stand	Stand (%) of mean	Redroot Pigwoed	Redroot Pigweed (%) of mean	Smart- weed	Smartweed (%) of mean	Foxtail Species	Foxtall Species (%) of mean	Lmbsqrtr	Lmbsqrtr (%) of mean
Disk Chiesel	Fall	Dual	0.00	0.00	93.50	103.39	42.50	76.15	63.75	101.69	87.00	127.08	42.50	69.62
Disk Chiesel	Spring	Dual	2.50	600.00	88.25	97.58	47.50	85.11	47.50	75.77	76.00	111.02		83.96
Disk Chiesel	Fall Postemergence	Dual * Micro rate (3x)	1.25	300.00	93.50	103.39	90.75	162.60	85.75	136.79	87.00			158.09
Disk Chiesel	Spring Postemergence	Dual * Micro rate (3x)	1.25	300.00	94.25	104.22	96.25	172.45	85.50	136.39	92.00	134.39	90,50	148.26
Disk Chiesel	Postemergence	* Micro rate (3x)	0.00	0.00	94.75	104.77	74.75	133.93	86.00	137.19	66.25	96.77	80,50	131.88
Disk Chiesel		Check	0.00	0.00	91.00	100.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Mold board	Fall	Dual	0.00	0.00	86.75	95.92	25.00	44.79	47.50	75.77	79.00	115,40	45.00	73.72
Mold board	Spring	Dual	0.00	0.00	90.00	99.52	26.25	47.03	79.00	126.02	82.00	119.78	55.00	90,10
Mold board	Fall Postemergence	Dual * Micro rate (3x)	0.00	0.00	87.50	96.75	92.00	164.84	90.50	144.37	86.75	126.72	95.25	156.04
Mold board	Spring Postemergence	Dual * Micro rate (3x)	0.00	0.00	81.00	89.56	86.75	155.43	85.75	136.79	90.25	131.83	87.75	143.75
Mold board	Postemergence	* Micro rate (3x)	0.00	0.00	93.50	103.39	88.00	157.67	81.00	129.21	75.25	109.92	88,25	144.57
Mold board		Check	0.00	0.00	91.25	100.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Mean		0.42	100.00	90.44	100.00	55,81	100.00	62.69	100.00	68.46	100.00	61.04	100.00
	C.V. %		316.23		8.93		15.58		11.85		9.69		10.97	
08	LSD (0.05)		1.89		11.58		12.47		10.65	í.	9.52		9.60	

Micro Rate

Betanex @ 8 cz/acre Stinger @ 1.25 cz/acre Upbeet @ 1/4 cz/acre Methylated Seed oli 1.5% V/V

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Table 3. Sugar beet yield and quality with fall and spring applied Dual to Magnum as influenced by fall tillage type. Location Hector

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Fall Tillage Type	App. Timing	Herbicide Treatment	Tons	Tons (%) of mean	Sugar	Sugar (%) of mean	LTM	LTM (%) of mean	RST	RST (%) of mean	RSA (%)	RSA (%) of mean
Disk Chiesel	Fall	Dual	18.64	104.78	12.93	98.73	1.44	95.66	229.85	99.38	4279.30	104.61
Disk Chiesel	and the second se	Dual	18.42	103.58	12.40	94.70	1.67	110.80	216.92		4000.20	97.79
	Fall Postemergence	Dual * Micro rate (3x)	24.63	138.46	13.25	A REAL PROPERTY AND A REAL	1.38	91.83	237.36		5847.00	
Disk Chiesel	Spring Postemergence	Dual * Micro rate (3x)	24.91	140.04	12.91	98.54	1.48	98.16	228.56	98.82	5687.70	139.04
Disk Chiesel	Postemergence	* Micro rate (3x)	19.43	109.23	13.84	105.70	1.06	70.37	246.73	106.68	4789.00	117.07
Disk Chiesel		Check	12.08	67.92	13.49	103.03	1.35	89.51	242.96	105.05	2917.70	71.33
Mold board	Fall	Dual	15.57	87.55	12.69	96.92	1.62	107.64	221.49	95.76	3435.80	83.99
Mold board	Spring	Dual	15.64	87.92	13.18	100.60	1.50	99.65	233.47	100.94	3635.00	88.88
Mold board	Fall Postemergence	Dual * Micro rate (3x)	17.64	99.19	13.05	99.63	1.65	109.97	227.89	98.53	4020.00	98.28
Mold board	Spring Postemergence	Dual * Micro rate (3x)	22.23	124.95	12.55	95.83	1.75	116.12	216.10	93.43	4793.10	117.17
Mold board	Postemergence	* Micro rate (3x)	18.32	103.00	13.25	101.17	1.64	109.30	232.12	100.36	4243.00	103.73
Mold board		Check	5.94	33.38	13.62	103.98	1.52	100.98	242.03	104.64	1438.80	35.17
	Mean		17.79	100.00	13.10	100.00	1.50	100.00	231.29	100.00	4090.55	100.00
	C.V. %		<u>7.93</u>		4.89		14.51		6.88		8.55	
1	LSD (0.05)		2.02		0.92		0.31		22.84		501.56	

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#### Micro Rate

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Betanex @ 8 oz/acre

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Stinger @ 1.25 cz/acre Upbeet @ 1/4 cz/acre

Methylated Seed oil 1.5% V/V

## Table 4. Fall and spring Dual application and tillage influence on sugarbeet stand and weed control Location Hector

Fall Tillage Type	App. Timing	Herbicide Treatment	Stand	Stand (%) of mean	Green Foxtail	Green Foxtail (%) of mean	Lmbsqrtr	Lmbsqrtr (%) of mean	Redroot Pigweed	Redroot Pigweed (%) of mean	Eastern Black Nightshade	Eastern Black Nightshade (%) of mean
Disk Object	Fall	Dual	72.75	114.23	89.50	118.58	93.25	117.70	99.00	118.77	80.05	110.01
Disk Chiesel	and the second se	Dual	65.75		72.50	96.05	75.75	95.61	99.00			and the second se
Disk Chiesel	Spring		the second s	the second se		and the second se		the second s		118.77		83.84
Disk Chiesel	Fall Postemergence	Dual * Micro rate (3x)	67.50		95.50	126.52	97.75	123.38	99.00	118.77	99.00	131.23
Disk Chiesel	Spring Postemergence	Dual * Micro rate (3x)	66.00	103.63	93.25	123.54	99.00	124.95	97.25	116.67	99.00	131.23
Disk Chiesel	Postemergence	* Micro rate (3x)	93,75	147.20	74.50	98.70	92.50	116.75	99.00	118.77	96.50	127.92
Disk Chiesel		Check	96.75	151.91	22.50	29.81	27.25	34.39	12.50	15.00	5.00	6.63
Mold board	Fall	Dual	38.75	60.84	88.50	117.25	81.00	102.24	99.00	118.77	78.00	103.40
Mold board	Spring	Dual	41.25	64.77	90.00	119.24	99.00	124.95	99.00	118.77		114.00
Mold board	Fall Postemergence	Dual * Micro rate (3x)	47.50	74.58	95.00	125.86	96.75	122.11	99.00	118.77		126.59
Mold board	Spring Postemergence	Dual * Micro rate (3x)	15.00	23.55	98.00	129,84	99.00	124.95	99.00	118.77	99.00	131.23
Mold board	Postemergence	* Micro rate (3x)	70.00	109.91	81.50	107.98	89.50	112.96	98.50	118.17	94.75	125.60
Mold board		Check	89.25	140.14	5.00	6.62	0.00	0.00		and the second se		
	Mean		63.69	100.00	75.48	100.00	79.23	100.00	83.35	100.00	75.44	100.00
	C.V. %		35.36		17.43		23.46		60.68		21.85	
	LSD (0.05)		2.29		8.86		6.66		0.98		3.64	

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Micro Rate

Betanex @ 8 oz/acre Stinger @ 1.25 oz/acre Upbeet @ 1/4 oz/acre Methylated Seed oil 1.5% V/V

## SUGARBEET TOLERANCE TO FRONTIER, WILLMAR, 1999

## **OBJECTIVE:**

Evaluate sugarbeet tolerance to Frontier applied at various growth stages.

## EXPERIMENTAL PROCEDURE:

Sugarbeets were planted April 30, 1999. Experimental design was a randomized complete block. Treatments were replicated four times. Applications were made to the center four rows of six row plots by 30 ft. long experimental units with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 Tee-Jet nozzles. Treatments consisted of BAS 656 at 17.5 oz./A and 35 oz./A and Frontier at 32 oz./A at pre-emerge, cotyledon to 2-leaf, 2 to 4 leaf, 4 to 6 leaf, and 8 leaf + sugarbeet stages. Sugarbeets were evaluated for injury at 3, 7, 14, and 28 days after each treatment.

Table 1. Frontier effect on sugarbeet injury as influenced by application timing

Treatment	Rate	Crop Stage (Timing)	Injury 3 DAY	Injury 7 DAY	Injury 14 DAY	Injury 28 DAY
CHECK	N/A	IN/A	0	0	0	0
BAS 656 07	17.5 oz.	preemerge	10	33	38	40
BAS 656 07	35 oz.	preemerge	10	25	23	25
FRONTIER	32 oz.	preemerge	8	10	5	0
BAS 656 07	17.5 oz.	Cot2lf	0	0	0	0
BAS 656 07	35 oz.	Cot2lf	0	0	. 0	0
FRONTIER	32 oz.	Cot2lf	0	0	0	0
BAS 656 07	17.5 oz.	2 - 4 lf	0	0	0	0
BAS 656 07	35 oz.	2 - 4 lf	0	0	0	0
FRONTIER	32 oz.	2 - 4 lf	0	0	0	0
BAS 656 07	17.5 oz.	4 - 6 lf	0	0	0	0
BAS 656 07	35 oz.	4 - 6 lf	0	0	0	0
FRONTIER	32 oz.	4 - 6 lf	0	0	0	0
BAS 656 07	17.5 oz.	8+ If	0	0	0	0
BAS 656 07	35 oz.	8+ If	0	0	_ 0	0
FRONTIER	32 oz.	8+ If	0	0	0	0
Mean			1.719	4.219	4.063	4.063
C.V. %			51.43	46.85	53.29	0.00
LSD (0.05)			1.874	4.190	4.590	0.000

## Table 2. Sugarbeet yield and quantity of sugarbeets as influenced by Frontier

Treatment	Rate	Crop Stage (Timing)	Tons	Tons (%) of mean	Sugar	Sugar (%) of Mean	LTM	LTM (%) of Mean	Recoverable Sugar/Ton (RST)	Recoverable Sugar/Ton (%) of mean	Recoverable Sugar/Acre (%)	Recoverable Sugar/Acre (%) of mean
	1	1	10	00 50	10.00	01.00	4 00	00.04	001.00	05.04		
CHECK	N/A	N/A	16	63.50	the second se	the second se	1.60	and the second se	in the second seco	and the second se	3533.40	
BAS 656 07	17.5 oz.	preemerge	27	109.04	13.61	100.47	1.75	102.61	237.20	the local data and the second s	6388.50	and the second se
BAS 656 07	35 oz.	preemerge	22	87.78	13.72	101.29	1.71	100.55	240.06	101.39	5201.90	the second se
FRONTIER	32 oz.	preemerge	30	120.99	13.04	96.28	1.73	101.58	226.15	95.52	6753.00	
BAS 656 07	17.5 oz.	Cot2lf	27	107.41	13.57	100.18	1.83	107.16	234.81	99.17	6232.30	
BAS 656 07	35 oz.	Cot2lf	21	83.71	13.41	99.00	1.87	109.80	230.75		4772.70	81.56
FRONTIER	32 oz.	Cot2lf	29	117.43	13.58	100.27	1.73	101.28	237.10	100.14	6878.30	117.54
BAS 656 07	17.5 oz.	2 - 4 lf	29	117.10	13.71	101.23	1.63	95.56	241.65	102.06	6963.90	119.01
BAS 656 07	35 oz.	2 - 4 lf	25	100.40	14.14	104.41	1.70	99.96	248.60	105.00	6180.00	105.61
FRONTIER	32 oz.	2 - 4 lf	22	88.92	13.56	100.12	1.67	98.06	237.80	100.44	5225.30	89.30
BAS 656 07	17.5 oz.	4 - 6 If	26	104.44	13.28	98.02	1.62	95.27	232.96	98.39	6020.70	102.89
BAS 656 07	35 oz.	4 - 6 lf	24	98.90	13.66	100.86	1.69	99.23	239.40	101.11	5840.50	99.81
FRONTIER	32 oz.	4 - 6 If	26	105.41	13.77	101.67	1.61	94.68	243.11	102.68	6332.80	
BAS 656 07	17.5 oz.	8+ If	25	103.12	13.29	98.11	1.85	108.62	228.70	96.59	5813.80	99.35
BAS 656 07	35 oz.	8+ If	25	103.12	13.78	101.77	1.70	99.67	241.65	102.06	6156.60	105.21
FRONTIER	32 oz.	8+ lf	22	88.73	13.74	101.43	1.57	92.04	243.38	102.79	5332.90	91.13
Mean			24.70	100.00	13.54	100.00	1.70	100.00	236.77	100.00	5851.66	100.00
C.V. %			11.72		4.22		9.92		5.27		13.02	
LSD (0.05)			4.12		0.81		0.24		17.75		1083.20	

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## FRONTIER PLUS LIBERTY TIMING

## **OBJECTIVE:**

Evaluate the postemergence-applied, lay by residual weed control effect of Frontier in Liberty Link sugarbeet.

## **EXPERIMENTAL PROCEDURE:**

Sugarbeet were planted April 30, 1999. Experimental design was a randomized complete block replicated four times. Applications were made to the center four rows of six row plots by 30 ft. long experimental units with a bicycle wheel sprayer delivering 8.5 gpa at 40 psi through 8001 Tee-Jet nozzles. Treatments consisted of Liberty at 28 oz./A with spray grade ammonium sulfate alone and in combination with Frontier at 17.6 oz./A at various applications, timings and alternations. Sugarbeets were evaluated for injury and weed species for control. Spray dates for cotyledon beets was May 26, 2 to 4 leaf June 3, 4 to 6 leaf June 10. Evaluations were made June 28 and August 1.

Treatments	Application Stage	Rate	Eval. 1 Beet Injury %	Eval. 2 Beet Injury %	Eval. 1 Green Fxtl Control %		Eval. 1 Lambsqrtr Control %	Eval. 2 Lambsqrtr Control %
Untreated	N/A	N/A	0	0.00	0.00	0.00	0.00	0.00
Liberty +AMSU	Coty2lf	28 oz + 2.5 lb	6	0.00	86.25	67.50	75.50	62.50
Liberty+BAS 656+AMSU	Coty2lf	28 oz + 17.60 oz +2.5 lb	0	0.00	84.50	70.00	80.00	66.25
Liberty +AMSU	2-4 lf	28 oz + 2.5 lb	0	0.00	92.25	75.00	88.50	80.00
Liberty+BAS 656+AMSU	2-4 lf	28 oz + 17.60 oz +2.5 lb	0	0.00	88.75	77.50	87.75	80.00
Liberty +AMSU Liberty +AMSU	Cot2lf 2-4 lf	28 oz + 2.5 lb 28 oz + 2.5 lb	0	0.00	98.50	82.00	97.50	84.50
Liberty+BAS 656+AMSU Liberty+BAS 656+AMSU		28 oz + 17.60 oz +2.5 lb 28 oz + 17.60 oz +2.5 lb	0	0.00	98.50	87.50	94.00	83.00
Liberty +AMSU	Cot2lf	28 oz + 2.5 lb	0	0.00	98.50	93.00	97.50	90.00
Liberty +AMSU	4-6 lf	28 oz + 2.5 lb						
Liberty+BAS 656+AMSU Liberty+BAS 656+AMSU		28 oz + 17.60 oz +2.5 lb 28 oz + 17.60 oz +2.5 lb	0	0.00	97.50	90.75	94.75	90.75
Liberty +AMSU	Cot2If	28 oz + 2.5 lb	0	0.00	98.00	90.00	96.50	88.25
Liberty +AMSU Liberty +AMSU	2-4 lf 4-6 lf	28 oz + 2.5 lb 28 oz + 2.5 lb						
Liberty+BAS 656+AMSU		28 oz + 17.60 oz +2.5 lb 28 oz + 17.60 oz +2.5 lb	0	0.00	98.50	93.00	97.00	88.25
Liberty+BAS 656+AMSU Liberty+BAS 656+AMSU	4-6 lf	28 oz + 17.60 oz +2.5 lb 28 oz + 17.60 oz +2.5 lb						
Mean <u>C.V. %</u> LSD (0.05)			0.57 398.00 3.25	0.00	2.37	75.11 4.82 5.24	82.64 3.49 4.15	73.95 4.78 5.09

## Table 2. Frontier with Liberty influence on yield and quality of sugarbeets

Treatments	Application Stage	Rate	Tons	Tons (%) of mean	Sugar	Sugar (%) of mean	LTM	LTM (%) of mean	RST	RST (%) of mean	RSA (%)	RSA (%) of mean
Untreated	N/A	N/A	13.14	54.25	13.26	95.83	1.80	90.33	229,25	96.74	3003.00	52.02
Liberty +AMSU	Cotyledon-2lf	28 oz + 2.5 lb	22.61	93,37	13.40	96.80	1.86	93.22	230,83	97.41	5234.00	90.67
Liberty+BAS 656+AMSU	Cotyledon-2lf	28 oz + 17.60 oz +2.5 lb	21.90	90,42	12.73	92.00	2.31	115.83	208,55	88.01	4584.60	79.42
Liberty +AMSU	2-4 11	28 oz + 2.5 lb	24.62	101.63	13.56	98.00	2.38	118.34	224.10	94.57	5540.30	95,98
Liberty+BAS 656+AMSU	2-4 lf	28 oz + 17.60 oz +2.5 lb	24.60	101.57	13.97	100.94	2.39	119.97	231.60	97.74	5706.50	98.86
Liberty +AMSU	Cotyledon-2lf	28 oz + 2.5 lb	25.31	104.52	14.19	102.49	1.82	91.33	247.36	104.39	6239.30	108.08
Liberty +AMSU	2-4 If	28 oz + 2.5 lb										
Liberty+BAS 656+AMSU Liberty+BAS 656+AMSU	Cotyledon-2lf 2-4 If	28 oz + 17.60 oz +2.5 lb 28 oz + 17.60 oz +2.5 lb	26.11	107.82	14.44	104.34	1.70	85.55	254.70	107.48	6652.20	115.24
Liberty +AMSU	Cotyledon-2lf	28 oz + 2.5 lb 28 oz + 2.5 lb	28.96	119.59	14.37	103.81	1.75	87.69	252.39	106.51	7300.50	126.47
Liberty +AMSU	4-0 11	28 02 + 2.5 10										
Liberty+BAS 656+AMSU Liberty+BAS 656+AMSU	Cotyledon-2if 4-6 If	28 oz + 17.60 oz +2.5 lb 28 oz + 17.60 oz +2.5 lb	27.31	112.77	14.20	102.57	1.78	89.20	248.37	104.81	6781.30	117,47
Liberty +AMSU	Cotyledon-2if	28 oz + 2.5 lb	26.42	109.08	13.98	101.00	1.80	90.45	243.52	102.77	6439.90	111.56
Liberty +AMSU Liberty +AMSU	2-4 lf 4-6 lf	28 oz + 2.5 lb 28 oz + 2.5 lb										
Liberty+BAS 656+AMSU	Cotyledon-2lf	28 oz + 17.60 oz +2.5 lb	25.43	104.98	14.15	102.22	2.35	118.09	235.93	99.56	6016.90	104.23
Liberty+BAS 656+AMSU Liberty+BAS 656+AMSU	2-4 If 4-6 If	28 oz + 17.60 oz +2.5 lb 28 oz + 17.60 oz +2.5 lb			-		_		_			
Mean			24.22	100.00	13.84	100.00	1.99	100.00	236.96	100.00	5772.59	100.00
C.V. %			8.31		3.90	Ĺ	35.37		5.94	i.	11.61	Ļ
LSD (0.05)			2.89		0.78	Ē.	1.01	0	23.65	E)	964.26	

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## LIBERTY RATE EFFICACY

## **OBJECTIVE:**

Evaluate influence of Liberty rate on weed control and sugarbeet yield and compare to conventional weed control options.

## EXPERIMENTAL PROCEDURE:

Liberty Link sugarbeet were planted April 30, 1999. Experimental design was a randomized complete block replicated four times. Applications were made to the center four rows of six row plots by 30 ft. long experimental units with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 nozzles. Treatments were Liberty at 20.5 oz., 24 oz. or 27 oz./A with 3 lb./A spray grade ammonium sulfate as needed. Liberty applications were made at 3 to 4 leaf crop stage (June 3) and 14-leaf (June 28); and Betanex+Upbeet+Stinger at 8 oz.+1/8 oz.+1.25 oz. per acre + 1.5% v/v methylated seed oil at cotyledon (May 18), 2-leaf (May 26), 3 to 4-leaf (June 3), and 14-leaf (June 28). Yield was obtained by sampling ten ft. of row from each of center two rows of 6-row plots, which were weighed and analyzed for quality. Evaluation of weed control were taken on June 28 and July 29.

#### TABLE 1. LIBERTY AND MICRORATE INFLUENCE ON WEED CONTROL, YIELD AND QUALITY IN SUGAR BEETS, EXP. 9923, WILLMAR LOCATION

TREATMENT	TONS/A	% SUGAR	LTM	REC. SUG./ TON	REC. SUG./ ACRE	Sector Contractor Contractor	YELLOW FOXTAIL Eval 2	The second s	LAMBS QUARTER Eval 2	REDROOT PIGWEED Eval 1	REROOT PIGWEED Eval 2
UNTREATED	22.13	16.50	1.38	302	6694	0	0	0	0	0	0
LIBERTY+AMS .268+3 1 inch weeds	30.72	16.94	1.13	316	9715	84	76	88	84	82	79
LIBERTY+AMS .312+3 1 inch weeds	32.87	16.48	1.16	307	10085	94	91	92	93	92	92
LIBERTY+AMS .357+3 1 inch weeds	32.77	16.78	1.15	313	10251	99	99	99	99	99	99
MICRO RATE plus poast cotyledon weeds	32.01	16.51	1.10	308	9878	95	98	94	91	93	91
LIBERTY+AMS .357+3 applied @ 3 inch weeds	31.75	16.14	1,11	301	9543	95	93	97	94	96	95
MEAN	30.37	16.56	1.17	308	9361	78	76	78	77	77	76
C.V.%	6.03	4.07	7.24	4.62	8.54	3.24	3.35	3.27	2.33	4.68	5.16
LSD (0.05)	2.72	1.00	0.13	21	789	4	4	4	3	5	6

## ROUND-UP WEED CONTROL EFFICACY AND INFLUENCE ON YIELD

## **OBJECTIVE:**

Define the start time and date(s) of subsequent applications of Round up ultra to Round up ready sugarbeet.

## EXPERIMENTAL PROCEDURE:

Round up ready sugarbeet were planted April 30, 1999. Experimental design was a randomized complete block replicated four times. Herbicide applications were made to the center four rows of six rows by 30 ft. long experimental units with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 nozzles. All Round up treatments were 1.5 pt./A. Round up treatments that began at the 2-leaf stage were initiated on June 3, 4-leaf Round up treatments were initiated on June 10, the pre-emerge Dual treatment was made at 2.25 pt./A on May 7, and the micro-rate treatment that started at the colyledon stage was initiated on May 18 and was re-applied every seven days through June 10. The treatment list and crop stage of application can be found in Table 1. Yield was established by sampling ten ft. of row from each of center two rows of 6-row plots, which were weighed and analyzed for quality.

Herbicide	Crop Stage at Application
Round up	V2,V2+10d, V2+20d
Round up	V2, V2+20 d
Round up	V2, V2+30d
Round up	V2, V2+20d, V2+40d
Round up	V2, V2+40d
Round up	V4, V4+10d, V4+20d
Round up	V4, V4+20d
Round up	V4, V4+20d, V4+40d
Round up	V4, V4+30d
Untreated check	
Micro-rate	Cotyledon, cotyl+7d,cotyl+14d,cotyl+21d
Dual/Round up	Pre-emerge/V2,V2+30d
Dual+Round V2, Round up	V2+40d

Table 1

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Sugarbeet stage abbreviations: Cotyl, cotyledon

V2, 2nd vegetative leaf stage

V4, 4th vegetative leaf stage, etc.

d, days

Roundup Influence on weed control efficacy and yield of sugar beets. Willmar location. exp. 9924.

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TRT #	TONS/A	SUGAR %	LTM	RST	RSA	EVAL 1 YELLOW FOXTAIL	EVAL 2 YELLOW FOXTAIL	EVAL 1 LAMBS QUARTER	EVAL 2 LAMBS QUARTER		EVAL 2 REDROOT PIGWEED
Roundup 2lf/10days/20days	26.24	15.63	1.39	285	7478	99	92	100	92	100	92
Roundup 2lf/20 days	23.56	15.72	1.36	287	6781	100	94	98	89	99	89
Roundup 2 If/ 30 days	25.01	15.97	1.27	294	7326	99	92	99	92	99	91
Roundup 2 lf/ 20 days/ 40 days	24.77	15.61	1.26	287	7080	100	92	100	94	100	92
Roundup 2 If/ 40 days	22.90	15.66	1.20	289	6627	97	89	98	90	98	89
Roundup 411/10days/20days	23.61	15.81	1.20	292	6906	99	92	99	94	100	92
Roundup 4lf/20 days	21.94	15.31	1.12	284	6230	99	89	99	90	98	87
Roundup 4 lf/ 30 days	23.54	15.16	1.37	276	6495	100	88	99	89	99	88
Roundup 4 lf/ 20 days/ 40 days	23.67	15.81	1.28	290	6863	99	89	98	91	98	88
untreated	13.11	15.05	1.31	275	3616	0	0	0	0	0	0
micro-rate Select	24.29	15.31	1.42	278	6747	99	88	95	86	99	89
Dual preemergence 2lf/30 days	26.41	15.87	1.40	289	7639	100	92	99	92	99	91
Dual+Roundup 2lf Roundup 40 days	26.41	14.96	1.26	274	7229	100	95	99	94	99	93
Mean	23.50	15.53	1.30	285	6694	91.48	83.96	90.88	83.98	91.15	83.13
C.V. %	6.8		16.8	12.3	9.6	17.2	16.3				18.4
LSD	1.91	0.71	0.11	21	686	3	5	5	4	4	6

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## WEED CONTROL OPTIONS FOR TALL WATERHEMP

## **OBJECTIVE:**

Evaulate products both currently labeled and those with potential to receive a label for use in sugarbeet for control of tall waterhemp among other weeds.

## **EXPERIMENTAL PROCEDURE:**

The experiment was initiated in a previously planted commercial beet field near Comfrey with anticipated infestation of tall waterhemp. Treatments were replicated four times in a randomized complete block design. Applications were made to the center four rows of six row by 30 ft. plots with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 Tee-Jet nozzles. The treatment list can be found in Table 1 with application date information.

## Table 1. Treatment, rates, and application dates for weed control options for tall waterhemp experiment.

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Treatment	Rate	1st App.	2nd App.	3rd App.
Betanex (3X)	16 oz./16 oz./20 oz.	May 21	June 2	June 17
Betamix (3X)	16 oz./16 oz./20 oz.	May 21	June 2	June 17
Betanex+Stinger (3X)	16 oz.+2.5 oz. (3X)	May 21	June 2	June 17
Betanex+Upbeet(3X)	16 oz.+1/4 oz. (3X)	May 21	June 2	June 17
Betanex+Upbeet+Stinger+MSO (3X)	8 oz+1/8 oz.+1.25 oz.+1.5% (3X)	May 21	June 2	June 17
Betanex+Upbeet+Stinger+MSO (3X)	12 oz.+1/8 oz.+1.25 oz.+1.5% (3X)	May 21	June 2	June 17
Betanex+Upbeet+Stinger+MSO (3X)	16 oz.+1/8 oz.+1.25 oz.+1.5% (3X)	May 21	June 2	June 17
Betanex+Frontier/Betanex (2X)	16 oz.+32 oz.\18 oz. (2X)	May 21	June 2	June 17
Betanex+Dual II Mag/Betanex (2X)	16 oz.+2 pt.\16 oz. (2X)	May 21	June 2	June 17
Liberty/Liberty	27 oz./27 oz.	June 2	June 30	
Roundup/Roundup	1.5 pt.\1.5 pt.	June 2	June 3	
Betanex+Upbeet+Stinger+MSO (3X)	8 oz.+1/8 oz.+1 25 oz.+1.5%	May 21	June 2	June 17
Betanex+Upbeet+Stinger+MSO (3X)	8 oz.+1/8 oz.+1.25 oz.+1.5%	June 2	June 17	June 30
Untreated	N/A	N/A	N/A	N/A

## Table 2. Efficacy and stand percent as influenced by postemergence herbicides in sugarbeets, location Sleepy Eye.

Treatment	Rate	Tall Waterhemp	Glant Foxtail	Eastern Black Nightshade	Percent Stand
		1			
Betanex (3X)	16 oz./16 oz./20 oz.	77	69	86	91
Betamix (3X)	16 oz./16 oz./20 oz.	70	72	79	91
Betanex+Stinger (3X)	16.oz.+2.5 oz. (3X)	76	67	89	93
Betanex+Upbeet(3X)	16 oz.+1/4 oz. (3X)	80	62	84	91
Betanex+Upbeet+Stinger+MSO (3X)	8 oz+1/8 oz.+1.25 oz.+1.5% (3X)	83	69	96	94
Betanex+Upbeet+Stinger+MSO (3X)	12 oz.+1/8 oz.+1.25 oz.+1.5% (3X)	88	63	99	94 92 97
Betanex+Upbeet+Stinger+MSO (3X)	16 oz.+1/8 oz.+1.25 oz.+1.5% (3X)	99	61	99	91
Betanex+Frontier/Betanex (2X)	16 oz.+32 oz.\16 oz. (2X)	99	78	99	87
Betanex+Dual II Mag/Betanex (2X)	16 oz.+2 pt.\16 oz. (2X)	99	77	99	84
Liberty/Liberty	27 oz./27 oz.	99	79	99	(
Roundup/Roundup	1.5 pt.\1.5 pt.	99	79	99	(
Betanex+Upbeet+Stinger+MSO (3X)	8 oz.+1/8 oz.+1.25 oz.+1.5%	78	56	96	99
Betanex+Upbeet+Stinger+MSO (3X)	8 oz.+1/8 oz.+1.25 oz.+1.5%	76	64	98	99
Untreated	N/A	0	0	0	99
	Mean	80	64	87	80
	C.V. %	4.71	13.17	4.63	7.2
	LSD (0.05)	5	12	6	3

## COMPARISON OF VARIABLE RATES OF BETANEX OR MSO IN THE MICRO-RATE TO ROUND-UP, LIBERTY OR BETANEX ALONE

## **OBJECTIVE:**

Determine the influence of variable methylated seed oil concentrations and Betanex rates in the spray solution on weed control when compared to Round up, Liberty, or Betanex alone.

## EXPERIMENTAL PROCEDURE:

Sugarbeet were planted at Belgrade on May 3, 1999. Treatments that included Round up or Liberty herbicide had tolerant varieties seeded, respectively. Micro-rate and Betanex treatments were seeded to Beta 6863. Applications were made to the center four rows of six row by 30 ft. plots with a bicycle wheel sprayer delivering 8.5 gpa at 40 p.s.i. through 8001 Tee-Jet nozzles. The treatment list and evaluation dates are contained in Table 1 with weed control data. The Betanex and micro-rate treatments were each applied four times and included a grass control product in the fourth treatment; on May 19 at the colyledon beet stage, May 27 at the 2-leaf stage, June 3 at the 3-leaf, and June 10 at the 4 to 5-leaf. The Round up and Liberty treatments were initiated at 2" weed height and were applied twice; on May 27 at the 2-leaf stage, and on June 8 at the 4-leaf stage. Sugarbeet were not harvested nor yield determined due to poor beet emergence throughout plot. Table 1. Weed control comparisons of Micro-rate, Roundup, Liberty, and Betanex with MSO volumes, Belgrade location, 1999

Product	Treatment	June 10 Green Foxtail	Lambs	Lambs	June 10 Redroot Pigweed	Redroot	Sec. All	June 21 Alfalfa	June 10 Quack		June 10
Betanex+Upbeet+Stinger+MSO	12 oz.+1/8 oz.+1.3 oz.+1.5% (4X)	68	80	76	90	93	78	85	34	58	100
Roundup/Roundup	1.5 pt./1.t pt.	98	97	85	99	92	87	93	97	98	100
Liberty+AMSU/Liberty+AMSU	21.5 oz.+2.5 lb./21.5 oz.+2.5 lb.	93	99	85	99	94	99	99	76	86	100
Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+0.5% (4X)	51	63	72	74	88	71	82	25	45	100
Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1% (4X)	48	69	72	84	81	73	86	30	51	96
Betanex+Upbeet+Stinger+MSO+Quad 7	8 oz.+1/8 oz.+1.3 oz.+1%+1% (4X)	75	83	74	93	85	83	88	53	60	100
Betanex+Upbeet+Stinger+MSO	8 oz.+1/8 oz.+1.3 oz.+1.5% (4X)	75	85	77	93	94	83	89	46	61	100
Betanex/Betanex/Betanex/Betanex	16 oz./16 oz./20 oz./20 oz.	24	63	62	71	74	51	66	11	33	100
Mean		66	80	75	88	87	78	86	47	61	100
C.V.%		18.3822	23.418	16.138	16.79	17.2592	11.391	12.055	21.547	21.0922	2.664
LSD (0.05)		17.815	27.223	17.723	21.495	21.984	13.011	15.125	14.633	18.921	3.8698

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## SMSC LIME AND PHOSPHOROUS INFLUENCES ON SUGAR BEET, CORN, AND SOYBEAN PRODUCTION, HECTOR, 1999

## **OBJECTIVE:**

Evaluate sugar beet, corn, and soybean production in soils amended with SMSC lime (precipitated calcium carbonate or PCC) and phosphorous and the influence on soil structure.

## EXPERIMENTAL PROCEDURE:

Soil samples were obtained November 10, 1998 to determine soil characteristics prior to application of treatments. There was no significant difference among plots for pH and phosphorous levels. Treatments including 0,4,8,12, and 16 ton of PCC and 40,80,120 and 160 lb. P/acre were applied on November 12,1998. Experimental Units were 33 ft wide by 30 ft long to allow for each crop to be planted 6 rows wide in 22 inch rows. Crops were planted on April 27, 1999. Yield data was obtained by sampling 10 ft. from the middle 2 rows of sugar beets, 20 ft, from the middle two rows of the corn, and the entire soybean plot. Samples were weighed and analyzed for quality. This experiment will be conducted for a time span of at least 3 years. Soil will be tested annually for phosphorus levels and pH changes. Phosphorus and pH data for 1999 fall testing was not available at the time of this report.

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		Tons (%)		Sugar (%)		LTM (%)		RST (%)		RSA (%)
Treatments	Tons	of mean	Sugar	of mean	LTM	of mean	RST	of mean	RSA	of mean
40 lb. p	23.04	97.56	14.83	100.28	1.62	101.93	264.17	99.25	6097.50	97.34
4 ton lime	23.29	98.65	14.90	100.77	1.57	98.87	266.71	100.21	6216.90	99.24
80 lb. p	27.06	114.61	14.59	98.65	1.64	103.35	258.91	97.28	7006.40	111.84
8 ton lime	24.51	103.80	15.01	101.49	1.47	92.63	272.66	102.44	6699.30	106.94
120 lb. p	27.50	116.47	14.73	99.65	1.67	105.39	261.21	98.14	7184.90	114.69
12 ton lime	26.80	113.50	14.26	96.42	1.53	96.57	254.43	95.59	6764.50	107.98
160 lb. p	24.65	104.38	14.33	96.93	1.61	101.46	254.41	95.59	6262.30	99.97
16 ton lime	20.82	88.19	15.13	102.34	1.56	98.15	271.49	102.00	5673.00	90.56
check	18.07	76.53	14.96	101.19	1.63	102.40	266.68	100.19	4819.40	76.93
check	20.38	86.31	15.12	102.27	1.58	99.25	290.94	109.31	5920.00	94.50
Mean	23.61	100.00	14.78	100.00	1.59	100.00	266.16	100.00	6264.42	100.00
C.V. %	9.760		5.412		7.923		6.330		11.346	
LSD (0.05)	3.328		1.163		0.182		24.329		1026.400	

## Table 1. Sugarbeet quantity and quality as influenced by lime rate

## S Table 2. Soybean and corn yield as influenced by lime rate

Varieties	Soybean Moisture	Soybean Moisture (%) of mean	Soybean Yield	Soybean Yield (%) of mean	Corn Moisture	Corn Moisture (%) of mean	Corn Yield	Corn Yield (%) of mean
40 lb. p	0.07	98.54	43.92	95.89	0.42	272.73	165.82	96.87
4 ton lime	0.07	102.19	46.90	102.38	0.13	86.04	158.56	92.63
80 lb. p	0.07	102.19	48.10	105.01	0.10	63.31	170.83	99.79
8 ton lime	0.07	94.89	46.04	100.51	0.13	84.42	173.43	101.31
120 lb. p	0.08	113.14	47.35	103.37	0.10	63.31	176.97	103.38
12 ton lime	0.08	109.49	49.76	108.63	0.14	90,91	175.48	102.51
160 lb. p	. 0.07	105.84	46.94	102.48	0.14	87.66	174.24	101.78
16 ton lime	0.06	87.59	42.61	93.03	0.14	87.66	186.21	108.77
check	0.06	91.24	42.85	93.55	0.13	81.17	171.53	100.20
check	0.07	94.89	43.57	95.13	0.13	82.79	158.78	92.76
Mean C.V. % LSD (0.05)	0.07 19.220 0.019	100.00	45.80 11.994 7.934	100.00	0.15 120.413 0.268	100.00	<u>171.18</u> 7.548 18.658	100.00

## CERCOSPORA LEAF SPOT CONTROL IN EASTERN NORTH DAKOTA AND MINNESOTA IN 1999

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Cercospora leaf spot, caused by the fungus *Cercospora beticola* Sacc. is the most serious leaf disease of sugarbeet (*Beta vulgaris* L.) in the production areas of North Dakota and Minnesota. This disease may cause reductions in tonnage and sucrose, and increase impurities. Losses as high as 30 percent in recoverable sucrose are fairly common under moderate disease conditions. Roots of diseased plants do not store in piles as well as roots of healthy plants. Limited tolerance to the triphenyl tin hydroxide (TPTH) fungicides was identified in the southern Red River Valley and southern Minnesota in 1994. This tolerance has increased in incidence and severity in the Red River Valley and southern Minnesota. Benzimidazole resistance is present in all production areas of North Dakota and Minnesota.

## **OBJECTIVES:**

The research objectives of these trials were to evaluate the efficacy of labeled and experimental fungicides at controlling Cercospora leaf spot. These fungicides were applied alone, in tank mixes, or alternated at various application intervals not only to evaluate control, but also to evaluate management strategies to prevent or slowdown the buildup of tolerance or resistance to the fungicides. All 1999 test sites had known TPTH tolerance and benzimidazole resistance.

#### PROCEDURES:

Research was conducted at Crookston, Foxhome, Willmar, and Gluek, Minnesota. The cultural practices and application dates for each location are in **Table 1**. At all locations, plots were 11 feet wide (6-22 inches rows) and 35 feet long. The middle four rows received the fungicide applications. The middle two rows of each plot were harvested for yield and quality determinations. The Foxhome and Crookston analysis were completed at the American Crystal Sugar Company Quality Tare Laboratory, East Grand Forks, MN. Southern Minnesota samples were analyzed at the Southern Minnesota Beet Sugar Cooperative Laboratory, Renville, MN. The experiments were all arranged in a randomized complete block design with four replications. Cercospora leaf spot severity was rated on the KWS scale of 1 to 9. One indicates there is no disease, a rating of 3 indicates the early stages of economic loss level, and a rating of 9 indicates that the plants assessed have only new leaf growth, all earlier leaves being dead, and severe economic loss.

All sites were planted in April. All sites were affected by Cercospora leaf spot, with initial symptoms occurring around mid July.

There were 40 identical fungicide treatments at Willmar and Gluek in southern Minnesota, and 36 identical fungicide treatments at Foxhome and Crookston. The fungicides tested in 1999 are listed in **Table 2**. The application interval for each treatment at each site is indicated in the tables for the respective sites.

## RESULTS AND DISCUSSION:

The effect of the treatments for Cercospora leaf spot control for the test sites are shown in Tables 2, 3, 4, and 5. Please note that some treatments having TPTH <u>exceeded</u> the labeled amounts to be applied for a given season. Only 15 oz/A of TPTH is allowed per season. A Section 18 label was granted for Eminent 125 SL on sugarbeet for the 1999 cropping season. Another Section 18 label for Eminent 125 SL on sugarbeet in North Dakota and Minnesota was also granted for the 2000 cropping season. Registration status of all other experimental fungicides for the 2000 cropping season is not known at this time.

#### Crookston:

Cercospora leaf spot damage was fairly high at Crookston as is indicated in the check plots (**Table 3**), but was not as severe as in 1998. All the fungicide treatments resulted in significantly higher recoverable sucrose per acre than the check plots. The best fungicide treatment of the registered compounds, Topsin M + Penncozeb (App 1) / Penncozeb (App 2,4) / TPTH (App 3,5), increased recoverable sucrose (lb/A and lb/T), root yield, and sucrose content by 2628 lb/A, 34 lb/T, 5.7 T/A, and 1.3 % respectively, when compared to the untreated check.

Eminent, with a Section 18 label for 1999, when used with Topsin M, Penncozeb, and TPTH as a resistance management strategy, provided excellent Cercospora leaf spot control and was one of the best treatments.

The most effective treatments were with the experimental fungicides: BAS 500 + Agri-dex COC, BAS 500 + X-77, and BAS applied alone. There were some spotty damage to leaves on plots treated with BAS 500 + Methoil.

## Foxhome:

Cercospora leaf spot progressed rapidly at Foxhome after it was first detected on 13 July. Disease pressure was very high during the season and the untreated check plots had only regrowth canopy and a KWS Cercospora leaf spot rating of 8.9 at harvest (**Table 4**).

All treatments, except Quadris applied alone, Benlate applied alone, Benlate applied in alternation with Manzate, and TPTH applied in alternation with TRA0019, resulted in significantly higher recoverable sucrose per acre than the check plots. The most effective treatments were BAS 500 + Methoil, BAS 500 (at the higher rate) + Agri-dex COC, Eminent alternating with BAS 500, Eminent applied at a 14 day interval, and BAS 500 + Silwet L-77. The registered fungicides were not very effective at controlling Cercospora leaf spot at this site.

## Southern Minnesota:

## Willmar:

Cercospora leaf spot damage was severe resulting in untreated check plots having a 9.0 Cercospora leaf spot rating on the KWS scale at harvest (**Table 5**). All fungicide treatments yielded significantly higher recoverable sucrose than the checks. The best treatment of the registered compounds was Topsin M (at the lower rate) + Penncozeb (App 1) / Penncozeb (App 2, 4 6, 8) / TPTH (App 3, 5, 7) which increased recoverable sucrose (lb/A and lb/T), root yield, and sucrose content by 3480 lb/A, 31 lb/T, 11.9 T/A, and 1.5 % respectively, when compared to the untreated check. One of the treatments recommended to farmers, Eminent alternating with TPTH, produced 4,259 lb/A of recoverable sucrose more than the untreated check. The best treatment was the experimental fungicide BAS 500 + Methoil. The application of an additional 40 lb of N<sub>2</sub> at cultivation on plots of one treatment and one check did not improve Cercospora leaf spot control.

#### Gluek:

Cercospora leaf spot damage was high resulting in untreated check plots having a 8.4 Cercospora leaf spot rating on the KWS scale at harvest (**Table 6**). All fungicide treatments yielded significantly higher recoverable sucrose than the checks. As at Willmar, the best treatment of the registered compounds was Topsin M (at the lower rate) + Penncozeb (App 1) / Penncozeb (App 2, 4 6, 8) / TPTH (App 3, 5, 7) which increased recoverable sucrose (lb/A and lb/T), root yield, and sucrose content by 2965 lb/A, 4 lb/T, 7.4 T/A, and 2.8 % respectively, when compared to the untreated check. Eminent alternating with TPTH, produced 4,416 lb/A of recoverable sucrose more than the untreated check. The non-registered experimental compounds provided the best Cercospora leaf spot control. The best treatments were BAS 500 / Eminent, BAS 500 + Methoil, and BAS 500 + X-77. The application of an additional 40 lb of N<sub>2</sub> at cultivation on plots of one treatment and one check did not improve Cercospora leaf spot control.

## SUMMARY AND CONCLUSIONS

#### A. Registered Fungicides

- The 3.75 oz/A TPTH rate should only be used in the northern end of the sugarbeet growing area of North Dakota and Minnesota. For the most effective Cercospora leaf spot control, a 10-day application interval is recommended.
- The 5.0 oz/A TPTH rate should be used in areas of high TPTH tolerance (Moorhead factory district, Minn-Dak, and Southern Minnesota) with an application interval of 10 days.

3. Using a single benzimidazole (Topsin M) fungicide application in combination with or alternating with a protectant fungicide provided the best Cercospora leaf spot control at Crookston. This treatment was also fairly effective at Gluek and Willmar, and least effective at Foxhome. Only one application of a benzimidazole fungicide in combination with a protectant fungicide should be used at the northern end of the sugarbeet growing region in North Dakota and Minnesota.

## **B.** Experimental Fungicides

 Some experimental fungicides consistently provided better Cercospora leaf spot control than the best currently registered fungicides. The experimental fungicides that were most effective, alone or in combinations with other experimental or registered fungicides, include BAS 500 (with the addition of an adjuvant), Eminent, and Stratego. Quadris and RH-7592 also showed some promise at some sites.

## C. Fungicide with Section 18 Label

 The availability of Eminent (since a Section 18 has been granted for 2000) will enhance the ability of growers to control Cercospora leaf spot and better manage fungicide resistance. Alternating Eminent with other classes of fungicides provides better disease control and delays the development of fungicide resistance.

## D. Other Comments

- The addition of an extra 40 lb/A of N<sub>2</sub> above the recommended level at cultivation did not improve Cercospora leaf spot control.
- The first fungicide application should be made when conditions first favor the disease or at disease onset. If the first application is late, control will be difficult all season.
- 3. Use the recommended rates of fungicides to control Cercospora leaf spot.

## ACKNOWLEDGEMENTS:

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April 26 Wheat HM Valley Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate Oil – micro-rate Hand labor	April 26 Small grains HM Valley Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate Oil – micro-rate	April 25 Corn VDH 66140 Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	April 23 Corn VDH 66140 Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate
Wheat HM Valley Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate Oil – micro-rate Hand labor	Small grains HM Valley Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	Corn VDH 66140 Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	Corn VDH 66140 Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate
Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate Oil – micro-rate Hand labor	Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate
Betamix –micro- rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate Oil – micro-rate Hand labor	rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	rate Betanex – m/rate Upbeet – m/rate Stinger – m/rate
Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate Oil – micro-rate Hand labor	Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	Betanex – m/rate Upbeet – m/rate Stinger – m/rate Poast – m/rate	Betanex – m/rate Upbeet – m/rate Stinger – m/rate
Upbeet – m/rate Stinger – m/rate Poast – m/rate Oil – micro-rate Hand labor	Upbeet – m/rate Stinger – m/rate Poast – m/rate	Upbeet – m/rate Stinger – m/rate Poast – m/rate	Upbeet – m/rate Stinger – m/rate
Stinger – m/rate Poast – m/rate Oil – micro-rate Hand labor	Stinger – m/rate Poast – m/rate	Stinger – m/rate Poast – m/rate	Stinger - m/rate
Poast – m/rate Oil – micro-rate Hand labor	Poast - m/rate	Poast - m/rate	
Oil – micro-rate Hand labor			Poast - m/rate
Hand labor	On - mero-rate	Oil - micro-rate	Oil – micro-rate
		Ammonia	Ammonia
	Hand labor	Hand labor	Hand labor
274 A.A. 1.A			
Cultivation	Cultivation	Cultivation	Cultivation
Counter	Counter	None	None
35,000 plant/A	35,000 plant/A	35,000 plant/A	35,000 plant/A
Construction	<b>F</b> 1	11/10	
Crookston	Foxhome	Willmar	Gluek
July 16	July 19	July 6	July 7
July 23	July 27	July 13	July 14
July 30	August 2	July 16	July 16
August 6	August 9	July 19	July 20
August 9	August 12	July 23	July 23
August 19	August 17	July 27	July 28
August 20	August 23	July 30	July 30
August 26	August 26	August 2	August 2
August 27	August 30	August 4	August 3
September 8	September 7	August 6	August 6
September 10	September 10	August 9	August 9
September 17 September 18		August 10	August 11
September 18		August 13	August 13
		August 17	August 18
		August 19	August 19
		August 20	August 20
		August 23	August 23
		August 26	August 26
20.0	20.5	August 27	August 27
20.0	20.5	20	20
100	110	120	120
100	110	120	120
ditions may have	occesionally least	application interes	le from baine
	occasionally kept a	application interva	is from being
unions may nave	0 1 21	October 17	October 16
1		00 110 itions may have occasionally kept	0.0 20.5 20

Table 1. Cultural Practices An	Application Date Informa	ation For Cercospora Leaf Spot
Trial At Foxhome, MN		

## Table 2. Fungicides tested in 1999.

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Fungicides	Status
Manzate	Registered
Benlate	Registered
Penncozeb	Registered
Topsin M	Registered
Super Tin (TPTH)	Registered
Agritin	Registered
Dithane	Registered
Eminent	Section 18 granted for 1999 and 2000
Quadris	Experimental
Stratego	Experimental
Bas 500	Experimental
RH-7592	Experimental
TRA0019	Experimental
Bravo Weather Stik	Experimental

## Table 3. Cercospora leaf spot control at Crookston in 1999 with registered and experimental fungicides.

Treatment and rate/A	App. CLS* Interval		Recoverable Sucrose		Root Yield	Sucrose Content	LTM*
	(d)	16-Oct	(lb/A)	(lb/T)	(T/A)	(%)	(%)
BAS 500 2.09 EC 0.15 lb a.i + Agri-dex COC 1% v/v	14	2.8	9754	336	29.1	17.9	1.1
BAS 500 2.09 EC 0.15 lb a.i + X-77 0.25% v/v	14	2.5	9688	331	29.3	17.7	1.1
BAS 500 2.09 EC 0.15 lb a.i	14	2.8	9621	335	28.8	17.9	1.2
Eminent 125 SL 13 fl oz / BAS 500 2.09 EC 0.15 lb a.i	14/14	2.6	9593	325	29.5	17.4	1.2
Eminent 125 SL 13 fl oz (App 1,4) / Topsin M 70 WSB 0.5 lb +							
Penncozeb 2.0 lb (App 2) / TPTH 80 WP 5 oz (App 3, 5)	14/14/14	3.5	9572	329	29.1	17.6	1.2
TPTH 80 WP 3.75 oz + Eminent 125 SL 6.5 fl oz	14	2.5	9486	323	29.4	17.3	1.2
RH-7592 75 WP 0.167 lb + Agri Tin 80 WP 5 oz	14	3.5	9402	335	28.1	17.9	1.2
Super Tin 80 WP 5 oz (App 1-5)	14	4.4	9310	331	28.2	17.7	1.1
Quadris 2.08 SC 0.1 lb a.i / TPTH 80 WP 5 oz	14/14	3.8	9305	328	28.4	17.6	1.2
TPTH 80 WP 5 oz / Stratego 2.1 EC 8 fl oz	14/14	5.0	9281	338	27.5	18.0	1.1
BAS 500 2.09 EC 0.15 lb a.i + Silwet L-77 0.09% v/v	14	2.8	9262	321	28.9	17.3	1.2
Fopsin M 70 WSB 0.5 lb + Penncozeb 75DF 2.0 lb (App 1) /							
Penncozeb 75DF 2.0 lb (App 2,4) / TPTH 80 WP 5 oz (App 3, 5)	14/7/14	3.4	9251	330	28.1	17.6	1.2
Eminent 125 SL 13 fl oz	14	3.0	9226	325	28.4	17.5	1.2
Fopsin M 70 WSB 0.5 lb / TPTH 80 WP 5 oz	14/14	4.3	9204	325	28.4	17.4	1.2
iminent 125 SL 13 fl oz	21	3.5	9202	328	28.1	17.5	1.1
3AS 500 2.09 EC 0.15 lb a.i + Methoil 1 % v/v	14	3.1	9146	328	27.9	17.5	1.2
Super Tin 80 WP 5 oz / Eminent 125 SL 13 fl oz	14/14	3.6	9073	326	27.8	17.5	1.2
Stratego 2.1 EC 10 fl oz / TPTH 80 WP 5 oz	14/14	3.1	9069	326	27.9	17.5	1.2
Super Tin 80 WP 5 oz (App 1-3) / Manzate 75 DF 2.0 lb (App 4, 5)	14/10	5.1	9038	337	26.9	18.0	1.2
Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	14/10	4.4	9024	317	28.5	17.2	1.3
Quadris 2.08 SC 0.10 lb a.i / TPTH 80 WP 5 oz	14/14	3.9	8997	329	27.3	17.6	1.1
UI-7592 75 WP 0.167 lb + Dithane DF 2.0 lb	14	4.0	8965	327	27.5	17.5	1.2
BAS 500 2.09 EC 0.10 lb a.i + Agri-dex COC 1% v/v	14	3.0	8932	322	27.8	17.4	13
Stratego 2.1 EC 8 fl oz / TPTH 80 WP 5 oz.	14/14	3.9	8888	329	27.0	17.6	1.1
RH-7592 75 WP 0.167 lb + Latron CS-7 0.12 %v/v	14	3.9	8862	328	27.0	17.6	1.2
Agri Tin 80 WP 5 oz (App 1-3) / Manzate 75 DF 2.0 lb (App 4, 5).	14/10	4.0	8766	328	26.8	17.5	1.1
Penncozeb 75DF 2.0 lb / TPTH 80 WP 5 oz.	7/14	4.0	8742	316	27.7	17.1	1.3
iminent 125 SL 13 fl oz / Super Tin 80 WP 5 oz	14/14	3.5	8687	315	27.6	17.0	1.3
Quadris 2.08 SC 0.15 lb a.i	14	3.6	8679	321	27.1	17.3	1.3
PTH 80 WP 5 oz / TRA0019 2.0 pt	14/10	4.0	8478	320	26.5	17.2	1.3
Quadris 2.08 SC 0.15 lb a.i / Bravo Weather Stik SC 2.0 pt	14/10	4.1	8457	321	26.3	17.4	1.3
Benlate WP 0.5 lb / Manzate 75DF 2.0 lb.	14/10	5.5	8187	314	26.1	16.9	1.2
40 lb N3(NH4)2SO4)Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	14/14	4.8	8172	308	26.6	16.8	1.4
Benlate WP 0.5 lb.	14	5.6	7689	310	24.8	16.8	1.3
Theck	22	7.5	6623	296	22.4	16.3	1.5
40 lb N2(NH4)2SO4)] Check		7.4	6609	297	22.4	16.2	1.4
SD (P=0.05)		0.7	571	15.5	1.4	0.7	0.2
V %		12.9	4.6	3.4	3.8	2.7	9.3

\*Cercospora leaf spot measured on KWS scale 1-9 (least-most) \*\*LTM: Sugar loss to molasses

# Table 4. Cercospora leaf spot control at Foxhome in 1999 with registered and experimental fungicides.

		CLS*	Recoverable Sucrose		Root Yield	Sucrose Content	LTM**
Treatment and rate/A.	(d)	21-Sep	(lb/A)	(lb/T)	(T/A)	(%)	(%)
BAS 500 2.09 EC 0.15 lb a.i + Methoil 1 % v/v	14	3.1	7979	281	30.1	15.6	1.6
BAS 500 2.09 EC 0.15 lb a.i + Agri-dex COC 1% v/v	14	3.0	7884	275	29.8	15.5	1.8
Eminent 125 SL 13 fl oz / BAS 500 00F 0.15 lb a.i	14/14	3.2	7606	270	30.7	15.5	2.0
Eminent 125 SL 13 fl oz.	14	3.5	7382	270	28.5	15.2	1.8
BAS 500 2.09 EC 0.15 lb a.i + Silwet L-77 0.09% v/v	14	4.6	7313	281	26.9	15.7	1.6
Stratego 2.1 EC 10 fl oz / TPTH 80 WP 5 oz.	14/14	4.3	7130	272	26.3	15.4	1.8
BAS 500 2.09 EC 0.15 lb a.i + X-77 0.25% v/v	14	4.5	6879	254	29.9	14.7	2.0
Eminent 125 SL 13 fl oz / Super Tin 80 WP 5 oz.	14/14	3.9	6756	258	25.6	14.8	2.0
BAS 500 2.09 EC 0.15 lb a.i.	14	3.8	6715	259	27.1	14.8	1.8
TPTH 80 WP 3.75 oz + Eminent 125 SL 6.5 fl oz	14	5.3	6659	265	26.0	15.0	1.7
Stratego 2.1 EC 8 fl oz / TPTH 80 WP 5 oz.	14/14	5.6	6416	265	24.8	15.0	1.7
Eminent 125 SL 13 fl oz (App 1,4) / Topsin M 70 WSB 0.5 lb+		100		0.75	1001101	1.11	1000
Penncozeb 2.0 lb (App 2) / TPTH 80 WP 5 oz (App 3, 5)	14/14/14	6.0	6359	243	27.4	14.3	2.1
Quadris 2.08 SC 0.15 lb a.i / TPTH 80 WP 5 oz.	14/14	5.9	6319	266	25.7	14.9	1.6
BAS 500 2.09 EC 0.10 lb a.i + Agri-dex COC 1% v/v	14	4.5	6238	222	29.3	13.5	2.4
Quadris 2.08 SC 0.10 lb a.i / TPTH 80 WP 5 oz.	14/14	5.5	6227	226	28.7	14.0	2.1
Super Tin 80 WP 5 oz / Eminent 125 SL 13 fl oz	14/14	5.0	6185	259	24.0	14.7	1.7
Eminent 125 SL 13 fl oz.	21	5.6	5977	236	26.8	14.1	2.3
RH-7592 75 WP 0.167 lb + Dithane DF 2.0 lb	14	7.4	5953	251	24.6	14.4	1.8
RH-7592 75 WP 0.167 lb + Latron CS-7 0.12 %v/v	14	5.9	5928	249	23.5	14.6	1.8
TPTH 80 WP 5 oz / Stratego 2.1 EC 8 fl oz.	14/14	5.5	5911	250	25.7	14.3	1.9
(40 lb N <sub>2</sub> (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ] Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb.	14/14	6.3	5873	264	22.7	14.7	1.6
RH-7592 75 WP 0.167 lb + Agri Tin 80 WP 5 oz.	14	7.0	5857	254	23.6	14.5	1.8
Super Tin 80 WP 5 oz (App 1-3) / Manzate 75 DF 2.0 lb (App 4.5).	14/10	7.1	5732	249	24.2	14.4	1.9
Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	14/10	7.4	5678	232	25.6	13.7	2.1
Agri Tin 80 WP 5 oz (App 1-3) / Manzate 75 DF 2.0 lb (App 4, 5).	14/10	7.1	5580	235	24.8	13.6	1.9
Super Tin 80 WP 5 oz (App 1-5)	14	7.0	5509	257	22.7	14.6	1.8
Topsin M 70 WSB 0.5 lb / TPTH 80 WP 5 oz	14/14	7.6	5411	236	23.8	13.7	1.9
Topsin M 70 WSB 0.5 lb + Penncozeb 75DF 2.0 lb (App 1) /	14/14	1.0	2411	200	20.0	4.07-7	510 C
Penncozeb 75DF 2.0 lb (App 2.4) / TPTH 80 WP 5 oz (App 3, 5)	14/7/14	8.0	5273	241	23.0	13.7	1.7
Ouadris 2.08 SC 0.15 lb a.i / Bravo Weather Stik SC 2.0 pt	14/10	6.8	5455	260	24.0	14.6	1.6
Penncozeb 75DF 2.0 lb / TPTH 80 WP 5 oz.	7/14	8.0	5269	246	22.8	14.2	1.9
	14/10	7.6	5176	214	25.3	13.0	2.2
IPTH 80 WP 5 oz / TRA0019 2.0 pt Benlate WP 0.5 lb / Manzatc 75DF 2.0 lb	14/10	7.3	4949	268	19.2	14.9	1.3
	14/10	5.0	4949	208	19.2	15.0	1.5
Quadris 2.08 SC 0.15 lb a.i	14	7.3	4554	202	23.4	13.7	1.9
Benlate WP 0.5 lb.	14	8.6	4207	213	22.3	13.0	2.3
[40 lb N <sub>2</sub> (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ] Check		8.0	3984	213	18.1	13.0	1.9
Check		and the second se	1039	39	5.5	1.4	NS
LSD (P=0.05)		1.3	12.3	11.0	15.4	7.0	24.4
CV%		15.4	12.3	11.0	13.4	1.0	24.4

\*Cercospora leaf spot measured on KWS scale 1-9 (least-most) \*\*LTM: Sugar loss to molasses

# <u>Table 5. Cercospora leaf spot control at Willmar in 1999 with registered and experimental fungicides.</u>

Treatment and rate/A	App. CLS* Interval		Recoverable Sucrose		Root Yield	Sucrose Content	LTM*
	(d)	16-Oct	(lb/A)	(lb/T)	(T/A)	(%)	(%)
BAS 500 2.09 EC 0.15 lb a.i + Methoil 1 % v/v	14	4.0	7978	266	30.0	15.0	1.7
Eminent 125 SL 13 fl oz	14	3.5	7523	252	29.9	14.5	1.9
Eminent 125 SL 13 fl oz / Super Tin 80 WP 5 oz	14/10	3.7	7324	261	28.0	14.9	1.8
Stratego 2.1 EC 8 fl oz / Eminent 125 SL 13 fl oz	14/14	4.8	7252	260	27.9	14.7	1.7
BAS 500 2.09 EC 0.15 lb a.i / Eminent 125 SL 13 fl oz	14/14	3.7	7170	273	26.3	15.3	1.7
Eminent 125 SL 13 fl oz / Agri Tin 80 WP 5 oz	14/10	5.3	7131	257	27.8	14.7	1.8
Eminent 125 SL 13 fl oz.	21	5.0	6829	267	25.6	15.1	1.7
BAS 500 2.09 EC 0.15 lb a.i	14	4.8	6763	257	26.3	14.6	1.7
Eminent 125 SL 13 fl oz / Super Tin 80 WP 5 oz.	21/14	5.7	6762	257	26.3	14.7	1.8
BAS 500 2.09 EC 0.15 lb a.i + X-77 0.25% v/v	14	4.7	6758	252	26.7	14.4	1.8
Eminent 125 SL 13 fl oz / Super Tin 80 WP 5 oz	14/14	5.3	6718	266	25.2	15.0	1.7
Eminent 125 SL 13 fl oz / Quadris 2.08 SC 9.37 oz / Super Tin 80			0.10		AP D' THE	1010	
WP 5 oz.	14/14/14	5.3	6672	256	26.0	14.7	1.9
BAS 500 2.09 EC 0.10 lb a.i + Agri-dex COC 1% v/v	14	5.0	6663	272	24.4	15.3	1.6
Stratego 2.1 EC 8 fl oz / TPTH 80 WP 5 oz.	14/10	4.8	6626	260	25.5	14.8	1.7
Topsin M 70 WSB 0.5 lb + Penncozeb 2.0 lb (App 1) / Eminent 125							
SL 13 fl oz (App 2,4,6) / Super Tin 80 WP 5 oz (App 3, 5,7)	14/14/10	4.3	6564	266	24.7	15.0	1.7
Topsin M 70 WSB 0.38 lb + Penncozeb 2.0 lb (App 1) / Penncozeb	101010		0001				
2.0 lb (App 2,4,6,8) / Super Tin 80 WP 5 oz (App 3, 5,7)	10/7/10	6.2	6545	255	25.7	14.5	1.7
Topsin M 70 WSB 0.5 lb + Penncozeb 2.0 lb (App 1) / Stratego 2.1	10-1110	A. an	0040	200		1.44	
EC 8 fl oz (App 2,4,6) / Penncozeb 2.0 lb (App 3,5,7)	10/14/7	6.2	6520	257	25.3	14.6	1.7
Stratego 2.1 EC 8 fl oz / Super Tin 80 WP 5 oz	14/10	4.7	6453	261	24.8	14.8	1.8
BAS 500 2.09 EC 0.15 lb a.i + Agri-dex COC 1% v/v	14	4.3	6400	273	23.4	15.4	1.7
[40 lb N <sub>2</sub> (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> )] Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	14/10	6.5	6389	252	25.4	14.4	1.8
Quadris 2.08 SC 9.37 oz / Eminent 125 SL 13 fl oz	14/14	5.0	6369	265	24.1	14.9	1.6
RH-7592 75 WP 0.167 lb + Latron CS-7 0.12 %v/v	14	6.8	6331	259	24.5	14.7	1.7
Super Tin 80 WP 5 oz / Eminent 125 SL 13 fl oz	10/14	5.5	6249	264	23.7	14.9	1.7
RH-7592 75 WP 0.167 lb + Dithane DF 2.0 lb	14	6.5	6232	252	24.7	14.4	1.7
BAS 500 2.09 EC 0.15 lb a.i / Agri Tin 80 WP 5	14/10	4.5	6229	255	24.5	14.5	1.7
Super Tin 80 WP 3.75 oz + Eminent 125 SL 6.5 fl oz	14	5.0	6205	261	23.8	14.8	1.7
Manzate 75 DF 2.0 lb / Agri Tin 80 WP 5 oz.	7/10	6.7	6082	244	25.0	14.0	1.7
Topsin M 70 WSB 0.5 lb + Penncozeb 75DF 2.0 lb (App 1)/	1110	0.7	0002	214		14.0	6.0
Penncozeb 75DF 2.0 lb (App 2,4,6,8) / Super Tin 80 WP 5 oz (App							
3.5,7)	10/7/10	6.5	5894	262	22.5	14.8	1.7
Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	10/7	6.0	5762	252	22.9	14.4	1.8
Penncozeb 75DF 2.0 lb / Super Tin 80 WP 5 oz.	7/10	6.8	5734	252	22.7	14.1	1.8
Quadris 2.08 SC 9.37 oz	14	6.7	5733	250	23.0	14.4	1.8
RH-7592 75 WP 0.167 lb + Agri Tin 80 WP 5 oz	14	7.3	5466	242	22.7	13.9	1.8
Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb.	14/7	6.3	5418	248	21.9	14.3	1.9
Benlate WP 0.5 lb / Super Tin 80 WP 5 oz	14/10	7.2	5166	237	21.6	13.8	1.9
Quadris 2.08 SC 9.37 oz / Bravo Weather Stik SC 2.0 pt	14/14	7.3	5097	242	21.1	14.0	1.9
Benlate WP 0.5 lb / Manzate 75 DF 2.0 lb	14/10	7.3	4955	246	20.2	14.0	1.7
Quadris 2.08 SC 9.37 oz / Super Tin 80 WP 5 oz	14/10	6.5	4928	244	20.2	14.0	1.8
Benlate WP 0.5 lb.	14	7.8	4876	232	20.1	13.4	1.8
[40 lb N <sub>2</sub> (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> )] Check.		8.7	3230	227	14.3	13.2	1.9
Check		9.0	3065	224	13.8	13.0	1.8
LSD (P=0.05)		0.9	651	17	2.2	0.8	0.2
CV %		13.3	9.3	6.0	7.9	4.6	8.4

\*Cereospora leaf spot measured on KWS scale 1-9 (least-most) \*\*LTM: Sugar loss to molasses

## Table 6. Cercospora leaf spot control at Gluek in 1999 with registered and experimental fungicides.

Treatment and rate/A	App. Interval	CLS*	Recovera	ble Sucrose	Root Yield	Sucrose Content	LTM*
	(d)	16-Oct	(lb/A)	(lb/T)	(T/A)	(%)	(%)
BAS 500 2.09 EC 0.15 lb a.i / Eminent 125 SL 13 fl oz	14/14	2.2	10101	311	32.4	16.6	LI
BAS 500 2.09 EC 0.15 lb a.i + Methoil 1 % v/v	14	2.0	9731	305	31.9	16.3	1.0
BAS 500 2.09 EC 0.15 lb a.i + X-77 0.25% v/v	14	2.0	9537	319	29.8	17.0	1.0
Eminent 125 SL 13 fl oz / Super Tin 80 WP 5 oz	14/10	2.2	9467	301	31.4	16.2	1.1
Eminent 125 SL 13 fl oz / Quadris 2.08 SC 9.37 oz / Super Tin 80	200.20		0.505394-1				
WP 5 oz.	14/14/14	5.2	9445	297	31.9	15.9	1.0
3AS 500 2.09 EC 0.15 lb a.i	14	1.8	9440	314	30.1	16.7	1.0
BAS 500 2.09 EC 0.15 lb a.i / Agri Tin 80 WP 5	14/10	3.4	9366	299	31.4	16.1	1.2
IAS 500 2.09 EC 0.15 lb a.i + Agri-dex COC 1% v/v	14	2.0	9343	303	30.9	16.4	1.2
Duadris 2.08 SC 9.37 oz / Eminent 125 SL 13 fl oz.	14/14	4.8	9329	303	30.8	16.2	1.0
minent 125 SL 13 fl oz / Agri Tin 80 WP 5 oz	14/10	3.8	9227	308	30.0	16.6	1.2
유민들은 방법 전에 집에 집에 있었다. 그는 것이 아무도 잘 가지 않는 것이 같은 것이 많은 것이 없다. 것이 같이 있는 것이 없는 것이 없다.	14/14	4.0	9221	310	29.8	16.6	1.1
tratego 2.1 EC 8 fl oz / Eminent 125 SL 13 fl oz uper Tin 80 WP 3.75 oz + Eminent 125 SL 6.5 fl oz	14/14	3.8	9221 9183	301	29.8	16.2	1.1
	14	2.4	9044		1.7.017	5-51 51 7 F L	1.1
minent 125 SL 13 fl oz.				298	30.3	16.0	0.000
AS 500 2.09 EC 0.10 lb a.i + Agri-dex COC 1% v/v	14	1.8	8966	297	30.2	15.9	1.0
minent 125 SL 13 fl oz	21	4.8	8933	297	30.1	15.9	1.1
tratego 2.1 EC 8 fl oz / TPTH 80 WP 5 oz	14/10	5.2	8871	291	30.6	15.7	1.2
tratego 2.1 EC 10 fl oz / TPTH 80 WP 5 oz	14/10	5.4	8740	294	29.8	15.8	1.1
opsin M 70 WSB 0.5 lb + Penncozeb 2.0 lb (App 1) / Eminent 125							
L 13 fl oz (App 2,4,6) / Super Tin 80 WP 5 oz (App 3, 5,7)	14/14/10	4.4	8733	301	29.0	16.2	1.1
uadris 2.08 SC 9.37 oz	14	6.0	8673	294	29.6	15.8	1.1
minent 125 SL 13 fl oz / Super Tin 80 WP 5 oz	14/14	4.4	8543	289	29.5	15.6	1.2
H-7592 75 WP 0.167 lb + Latron CS-7 0.12 %v/v	14	5.0	8518	292	29.2	15.7	1.1
H-7592 75 WP 0.167 lb + Agri Tin 80 WP 5 oz	14	5.4	8441	296	28.5	15.8	1.0
H-7592 75 WP 0.167 lb + Dithane DF 2.0 lb.	14	6.2	8398	287	29.2	15.4	1.1
uper Tin 80 WP 5 oz / Eminent 125 SL 13 fl oz	10/14	4.8	8355	299	28.0	16.0	1.1
uadris 2.08 SC 9.37 oz / Bravo Weather Stik SC 2.0 pt	14/14	6.0	8328	284	29.4	15.3	1.1
opsin M 70 WSB 0.5 lb + Penncozeb 2.0 lb (App 1) / Stratego 2.1	1.10.00	1-2027	1121212		122201	1000	0.000
C 8 fl oz (App 2,4,6) / Penncozeb 2.0 lb (App 3,5,7)	10/14/7	5.4	8258	289	28.5	15.5	1.0
uadris 2.08 SC 9.37 oz / Super Tin 80 WP 5 oz.	14/10	5.6	8046	287	28.0	15.6	1.3
opsin M 70 WSB 0.38 lb + Penncozeb 2.0 lb (App 1) / Penncozeb	1.4.10	210	0010	207	20.0	10.00	*
0 lb (App 2,4,6,8) / Super Tin 80 WP 5 oz (App 3, 5,7)	10/7/10	5.8	8016	288	28.0	15.6	1.2
0 lb N <sub>2</sub> (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> )] Super Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	14/10	6.8	7858	272	28.9	14.9	1.2
minent 125 SL 13 fl oz / Super Tin 80 WP 5 oz.	21/14	6.0	7831	290	27.0	15.7	1.2
enlate WP 0.5 lb / Manzate 75 DF 2.0 lb.	14/10	7.2	7752	287	27.0	15.4	1.1
enlate WP 0.5 lb	14/10	6.8	7682	288	26.7	15.4	1.1
enncozeb 75DF 2.0 lb / Super Tin 80 WP 5 oz.	7/10	6.8	7564	270	28.0	14.5	1.0
	14/10	6.2	7561		28.0	14.5	
enlate WP 0.5 lb / Super Tin 80 WP 5 oz.	14/10	0.2	/501	278	21.2	15.0	1.1
opsin M 70 WSB 0.5 lb + Penncozeb 75DF 2.0 lb (App 1) /							
enncozeb 75DF 2.0 lb (App 2,4,6,8) / Super Tin 80 WP 5 oz (App	10,7110			201	20.0	15.0	
5,7)	10/7/10	5.6	7553	281	26.9	15.2	1.1
uper Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	14/7	6.8	7542	276	27.3	14.9	1.1
fanzate 75 DF 2.0 lb / Agri Tin 80 WP 5 oz	7/10	6.4	7469	281	26.6	15.2	1.2
uper Tin 80 WP 5 oz / Manzate 75 DF 2.0 lb	10/7	6.0	7447	291	25.5	15.6	1.0
heck		8.4	5051	224	20.6	12.8	1.2
0 lb N2(NH4)2SO4)] Check		7.8	4841	234	22.5	12.4	1.1
SD (P=0.05)		1.2	765	21.0	2.1	1.0	0.2
.V%		18.9	7.6	5.8	5.7	5.3	15.7

\*Cercospora leaf spot measured on KWS scale 1-9 (least-most) \*\*LTM: Sugar loss to molasses

## NITRATE SOIL TEST ADJUSTMENT FOR SUGAR BEET GROWN IN HUMID AREAS OF MINNESOTA

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Concerns have been raised about the accuracy of the nitrate-N soil test in prediction of N needs in the Southern Beet Sugar Cooperative growing area. This sugar beet production area is located in a more humid area of Minnesota than the Red River Valley production areas. The extra precipitation changes the soil moisture dynamics and thus increases the chances of N losses to denitrification and also possibly an increase in the contribution of N from soil organic matter. Other logistical problems exist because of the more humid situation. Soil samples from the 2 to 4 foot depths are difficult to collect. Soil can be too wet to stay in the sampling tube when brought to the soil surface or too wet to get a recognizable and representative sample. This work is investigating the importance of deep nitrate soil sampling at different times in the production year in the prediction of the optimum N fertilizer rate for optimum root yield and quality.

Nitrogen management is paramount for optimum sugar production. Nitrogen sources for sugar beet include fertilizer N and organic matter. Factors that influence nitrogen availability are temperature, precipitation, and soil drainage. Of the factors mentioned, the rate of nitrogen fertilizer applied is the easiest input to management. This has been done through the use of a nitrate soil test.

The effect of previous crop on sugar beet yield and quality can be seen in cooperative statistics. There are many different crops in the Southern Minnesota Beet Sugar Cooperative growing area that have been used as previous crop. Little is known about the effect of previous crop on nitrogen fertilizer recommendations for sugar beet grown in this area. One observation has been that a fall nitrate-N soil test when the previous crop is soybean is not very useful because the soybean plant utilizes all the nitrate-N in the soil. The nitrogen in soybean residue mineralizes much quicker than other crops such as corn. This would make a case for the use of a spring or in-season soil test for prediction of N fertilizer needs. Environmental demands may require that no fall N fertilizer application may be made. This leads to the need to know the effect of spring applications of N verses fall application on sugar beet yield and quality.

## **Objectives:**

- Improve the ability to predict more accurately the nitrogen fertilizer needs for optimum sugar beet yield and quality in humid areas of Minnesota following several different crops.
- Determine the effect of fall verses spring nitrogen fertilizer applications on sugar beet yield and quality.

## Materials and Methods:

This was the second year of a multi-year/multi-site study. In the fall of 1998, and spring 1999, a total of 5 sites were established in the Southern Minnesota Beet Sugar Cooperative production area. In 1999, two of the sites were in the eastern area(near Bird Island, MN), two in the western end (near DeGraff, MN), and one site was located on a sandy loam soil near Hancock, MN. The preceding crops were corn and sweet corn at the Bird Island sites, corn and soybean at the DeGraff sites, and corn at the irrigated Hancock site. Three of the five site were abandoned in 1999. The two sites near DeGraff were abandoned; one because of variability in soil nitrate-N and the other because of poor stands. The Bird Island site which was following sweet corn was also abandoned because of disease.

The Bird Island site had a factorial set of treatments replicated four times. The treatments included five

nitrogen rates (0, 40, 80, 120, and 160 pounds nitrogen per acre) applied as ammonium nitrate and two applications times (fall and preplant). Sugar beet top samples were taken one or two days before root harvest. These were weighed, subsampled, dried, and analyzed for total nitrogen content. The harvest was done by a plot- sized lifter. Root samples for quality analyses were obtained at harvest and analyzed by the Southern Minnesota Beet Sugar Cooperative Quality Lab. Soil samples to a depth of four feet in increments of 0-6 inches, 6-12 inches, 1-2 foot, 2-3 foot, and 3-4 foot were taken from the 0 nitrogen rate plots in fall 1998 preceding sugar beet production, in the spring at preplanting, and the first week of June during the production year.

At the sandy site, soil samples to a depth of four feet were taken before planting for nitrate-N. Because of the sandy nature of the soil, the treatments were different at this site (Table 1). Nitrogen fertilizer was applied in different applications to achieve N rates of 0, 40, 80, 120, 160, and 200 pounds N per acre. The first 40 pounds of each treatment was applied preplant and the additional amount to equal the 80, 120, 160, and 200 pounds N per acre rates was applied June 1. Three additional treatments included a timing factor.

	Table I.	Treatments	for th	e sandy	site near	Hancock,	Minnesota in	1999.
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Preplant	June 1	July 1	August 1	Total
•••••		lb N/A	•••••	
0	0	0	0	0
40	0	0	0	40
40	40	0	0	80
40	80	0	0	120
40	120	0	0	160
40	160	0	0	200
40	40	40	0	120
40	40	40	40	160
40	80	40	0	160

### **Results and Discussion:**

The soil nitrate-N content in the 0 to 4 foot depth increased 26 pounds per acre from Fall 1998 to Spring 1999 at the Bird Island site (Table 2). The majority of that increase occurred in the 2 to 4 foot depth. Nitrogen fertilizer recommendation did not change much between the two dates (121 vs 114 pounds N per acre). At the Hancock site, the soil sample was only taken in the spring before planting. The fertilizer N recommendation from this sampling was 97 pounds N per acre. The recommendation for each site was large but not unusual for a sugar beet crop following field corn.

## Table 2. Soil Nitrate-N for each site in 1999.

Site		0-2 ft.	Nitrate-N 2-4 ft.	0-4 ft.	Soil Test Recommendatio So.MN RRV			
				lb NO <sub>3</sub> -N	/A	lb N	I/A	
Bird Island	field corn	fall 98	29	12	41	121	91	
Bird Island	field corn	spring 99	34	33	67	114	84	
Hancock	field corn	spring 99	53	24	77	97	77	

Root yields were significantly increased with the application of N fertilizer at the Bird Island site (Table 3). In 1999 the root yields for the fall applied treatments were greater than for the spring applied treatments. Recoverable sucrose per acre was also better for the fall application than the spring applications. The regression analysis indicated maximum root yield occurred at the 120 pounds N per acre application with fall application while the maximum root yield for spring application was 100 pounds N per acre. Sucrose concentrations were not affected by the application time of the N fertilizer. The decrease of sucrose and recoverable sucrose per ton occurred for sugar beets receiving 160 pounds N per acre. The loss to molasses increased with fall applications of 100 pounds N per acre. For the spring applied N fertilizer, 95 pounds of fertilizer N per acre was maximum N rate needed. These results suggested that a N fertilizer recommendation based on a total of 150 pounds soil plus fertilizer N was more than optimum.

	Roo	t Yield	Suc	rose	Reco	overable	Su	crose	Los Mo	lasses
N Rate	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
lb/A	to	n/A	9	b	Ib	/ton	1	b/A		%
0 40	12.9	11.8	16.4	16.9	309	319	3983	3773	1.00	0.95
40	20.2	17.1	16.6	15.9	312	296	6280	5038	0.99	1.14
80	20.1	20.3	16.5	16.6	310	311	6235	6322	1.06	1.01
120	21.0	21.5	16.9	16.8	316	316	6622	6782	1.09	1.05
160	21.8	19.8	15.8	16.8	293	296	6364	5857	1.15	1.15
200	19.4	18.1	16.4	16.4	307	308	5967	5555	1.07	1.06
Statistics										
Time		0.06	N	VS	1	NS	0.06		NS	
N rate		0.001	0.	.03	C	.02	0	.0001		0.03
T x N	1	NS	N	S	N	VS	N	IS	1	NS
C.V.		8.7	3.	.8	9	.4	4	.3	1	9.2

Table 3. Root yield, sucrose, recoverable sucrose per acre, recoverable sucrose per ton, and loss to molasses for Bird Island site in 1999.

Maximum root yield and recoverable sucrose per acre occurred with the application of 40 pounds of N fertilizer per acre (Table 4). Increasing N fertilizer application reduced sucrose concentration and recoverable sucrose per ton. Loss to molasses was not significantly affected by the N treatments. The optimum N rate for this study was 40 pounds of N. This was considerably less than the 97 or 77 pounds recommended from the spring soil test.

The second set of treatments in this study evaluated the effect of applying N fertilizer later in the season. The split treatment at the 120 pounds N per acre treatment did not result any significant differences in parameters measured (Table 5). At the 160 pound N per acre treatments, the split of 40 pounds of N over four application times resulted in a significantly greater root yield and recoverable sucrose per acre than the two treatments that applied 80 and 120 pounds on June 1. The quality was not affected by the treatments at the 160 pounds per acre total N treatments. This was only one site in one year and it would be too early to recommend several split applications of N in sandy soils for increased yield. The split applications do show potential as a management tool to prevent water quality problems while not being detrimental to root quality on irrigated sandy soils. On heavier textured non-irrigated soils split application are still discouraged because of the great potential to reduce root quality.

Preplant	June 1	July 1	Aug. 1	Total	Root Yield	Sucrose	Recovera	ible Sucrose	Loss to Molasses
	• • • • • • •	Lb. N/A			ton/A	%	lb./ton	lb./A %	
0 40	0	0	0	0	21.0	17.4	332	6975 (	).86
40	0	0	0	40	28.0	17.2	326	9075 (	).91
40	40	0	0	80	27.4	16.8	318	8695 (	0.90
40	80	0	0	120	27.9	17.2	327	9123 (	0.87
40	120	0	0	160	27.2	16.5	311	8388 1	.07
40	160	0	0	200	27.4	16.3	308	8444 (	0.91
Statistics:									
LSD 0.05					1.6	0.5	9	516 0	0.12
TRT					0.0001	0.0001	0.0001	0.0001	0.15
C.V. %					4.0	7.9	2.2	4.1 8.	7

Table 4. Root yield, sucrose, recoverable sucrose per ton, recoverable sucrose per acre, and loss to molasses for Nrate study at the sandy site near Hancock, Minnesota in 1999.

Table 5. Root yield, sucrose, recoverable sucrose per ton, recoverable sucrose per acre, and loss to molasses for application study at the sandy site near Hancock, Minnesota in 1999.

Preplant	June 1	July 1	Aug. 1	Total	Root Yield	Sucrose	Recoverabl	e Sucrose	Loss to Molasses
		Lb. N/A			ton/A	%	lb./ton	lb./A	%
0 40	0	0	0	0	21.0	17.4	332	6975	0.86
40	80	0	0	120	27.9	17.2	327	9123	0.87
40	40	40	0	120	28.7	17.3	327	9383	0.96
40	120	0	0	160	27.2	16.5	309	8388	1.07
40	40	40	40	160	29.1	16.5	312	9098	0.94
40	80	40	0	160	27.6	16.1	303	8387	0.97
Statistics:									
LSD 0.05					1.6	0.5	9	516	0.12

### Management of Turkey and Swine Manure Derived Nitrogen in a Sugar Beet Cropping System

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## Justification of Research:

Livestock operations, mainly poultry and swine, are increasing in size and impact in the Southern Minnesota sugar beet growing area. Many sugar beet producers own or have interest in these operations; thus have manure available to use on their fields. Manure research data concludes that manure has a positive effect on crop production from its effects on soil nutrient availability and soil physical properties. A concern has been raised about the effect of late season nitrogen mineralized from the manure on sugar beet quality. Grower observations indicate better growth in manured fields. With the large amount of manure available the question has changed from whether to use manure but when in the sugar beet crop rotation should manure be applied to minimize quality concerns and realize benefits. The answer to this question maybe different depending on the type of manure. Poultry manure has a considerable amount of litter in it compared to swine manure, thus slowing initial release of poultry manure-N.

Little recent information is available on the effect of manure on sugar beet root yield and quality. Halvorson and Hartman (1974) reported that sucrose concentration and recoverable sugar per acre were reduced with the addition of beef manure while root yield was increased. Schmitt et al. (1996) reported that swine manure mineralization occurs several years after application in a legume-corn rotation. Malzer and Graff (1995) reported that leached nitrate-N during second year after an application of turkey manure was greater than in the first year after application. This data suggests that poultry manure has a latter or more extended release of N when compared to liquid swine manure.

The implications of the manure-N release are critical, especially to sugar beet growers. Therefore, recommendations need to be evaluated with sugar beets. This research project has been designed to: 1) measure the effect of manure application effects on sugar beet root yield and quality compared to fertilizer N applications; 2) determine the effect of turkey and swine manure mineralization differences on sugar beet root yield and quality; and 3) develop management strategies for manure application in a sugar beet rotation.

## Materials and Methods:

To address the objectives, two experiments were conducted in 1999 at a location near Renville, Minnesota. Experiment 1 was established after soybean was grown in a soybean-corn-sugar beet rotation. The treatments listed in Table 1 were designed to evaluate the effect of manure applied one cropping year before sugar beet is grown and compare its nitrogen contribution to fertilizer applied the year of sugar beet production. In the corn year (1999) the plots used for the N rate evaluation in the sugar beet year were fertilized with a recommended rate of fertilizer for optimum corn production. Deep nitrate-N soil samples were taken from the check plots Fall 1998 before manure and fertilizer application, April 1999 before planting, May 28, 1999. Nitrate-N and ammonium-N soil samples were taken monthly to a depth of one foot to characterize the N dynamics during the growing season. Basal stalk samples for nitrate concentration were taken at physiological maturity (black layer). Corn grain was hand harvested from each plot. After corn harvest, soil samples to a 4 foot depth were taken and analyzed for residual nitrate-N from every plot.

	Treatment	
Treatment number	Year 1 (corn 1999)	Year 2 (sugar beet 2000)
1	120 lb N/A	0 lb N/A (check)
2	120 lb N/A	40 lb N/A
3	120 lb N/A	80 lb N/A
4	120 lb N/A	120 lb N/A
5	120 lb N/A	160 lb N/A
6	120 lb N/A	200 lb N/A
7	Swine manure 2500 gal/A (228 lb total N/A)	Residual
8	Swine manure 5000 gal/A (455 lb total N/A)	Residual
9	Turkey manure 5 tons/A (90 lb total N/A)	Residual
10 11	Turkey manure 10 tons/A (180 lb total N/A)	Residual Check (no fertilizer or manure)

Table 1. Treatments for Experiment 1.

The second experiment was established at the same location near Renville, Minnesota. The objective of this experiment was to measure the effects of manure application directly before sugar beet production. The treatments include fertilizer nitrogen, turkey manure, and swine manure (Table 2). The treatments were applied early November 1998. Fertilizer nitrogen was applied in a series of rates to determine the equivalent of the N supplied by manure. Soil samples were taken to a depth of four feet for nitrate-N from the check plot Fall 1998, April 1999, and May 28, 1999. This is similar to Experiment 1. Soil samples to one foot for nitrate-N and ammonium-N were taken monthly to estimate the mineralization of N from manure during the growing season.

Table 2. Treatments for Experiment 2.

Treatment number	Treatment
1	0 lb N/A (check)
2	40 lb N/A
3	80 lb N/A
4	120 lb N/A
5	160 lb N/A
6	200 lb N/A
7	Swine manure 2500 gal/A (228 lb total N/A)
8	Swine manure 5000 gal/A (455 lb total N/A)
9 10	Turkey manure 2.5 tons/A (45 lb total N/A) Turkey manure 5.0 tons/A (90 lb total N/A)

Sugar beet top growth and N content, root yield, and root quality were measured at harvest Mid October 1999. Quality samples were taken at harvest and analyzed by the Southern Minnesota Beet Sugar Cooperative Quality Laboratory. Soil samples to a four foot depth were taken from all plots early November 1999.

## **Results and Discussion:**

Experiment 1 - The initial soil nitrate-N measured Fall 1998 was 30 pounds per acre for the 0 to 2 foot depth and 11 pounds per acre for the 2 to 4 foot depth. The only data available at the time of this report was the corn grain yield (Table 3). There was a significant increase in grain yield when compared to the check with the application of fertilizer and manure. There were no significant differences in grain yield between the fertilizer treatment and the manure treatments. The only significant difference was between the grain yields for the two rates of swine manure (155 vs 169 bushels per acre). The first year of this experiment was the set up year to investigate the effects of manure on sugar beet production two years after application. Sugar beet will be grown at this site next year.

Table 3. Corn grain yields at 15.5% moisture or Experiment 1 at Renville in 1999.

Treatment	Corn grain yield
Check	126
Fertilizer - 120 lb. N/A	158
Swine Manure 2500 gallon/A	155
Swine Manure 5000 gallon/A	169
Turkey Manure 5 tons/A	166
Turkey Manure 10 tons/A	167
LSD 0.05	12

Experiment 2 - Fall 1998 soil nitrate-N was 27 pounds per acre in the 0 to 2 foot depth and 18 pounds per acre in the 2 to 4 foot depth. Root yield was not significantly affected by the nitrogen fertilizer applications (Table 4). Only the root yields of the 5 ton per acre turkey manure and 5000 gallons per acre swine manure applications were significantly greater than the root yield of the check. The loss to molasses for the 5 ton per acre turkey manure application, recoverable sucrose per ton, and recoverable sucrose per acre.

Table 4. Root yield, sucrose concentration, loss to molasses, recoverable sucrose per ton, and recoverable sucrose per acre for Experiment 2 at Renville in 1999.

Treatment	Root Yield	Sucrose ConcentrationM	Loss to olasses	Recove Sucrose	rable
	ton/A	%	%	lb/ton	lb/A
Check	23.9	18.3	0.93	348	8301
Fertilizer 40 lb N/A	24.9	18.2	1.01	345	8570
Fertilizer 80 lb N/A	25.3	18.1	0.94	342	8634
Fertilizer 120 lb N/A	25.7	17.5	0.86	332	8546
Fertilizer 160 lb N/A	26.1	17.4	0.98	329	8492
Fertilizer 200 lb N/A	24.2	17.6	1.03	331	8033
Swine Manure 2500 gal/A	25.3	17.5	1.00	329	8353
Swine Manure 5000 gal/A	28.0	17.5	0.94	330	9371
Turkey Manure 2.5 ton/A	26.2	17.8	0.93	337	8849
Turkey Manure 5.0 ton/A	27.3	17.3	1.10	323	8819
LSD 0.05	2.6	NS	0.10	NS	NS

These results were not expected and because the soil data is not available for this report. Several factors were involved during the 1999 growing season. The root yields for all treatments were very good. The check root yield of nearly 24 tons per acre on a soil with 27 pounds per acre of nitrate-N and no substantial deep nitrate was unusual. Mineralization of soil organic N during the growing season must have been greater than normal. Another factor affecting the results involved the fall application of the treatments. The treatments were application the first week of November in 1998. The observation for other studies was a loss of fall applied N occurred. These results

are only from the first year of work in a three year study. Follow up data will be important in the interpretation of this study.

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			Hutchi	nson		Willma	r		Olivia		Rec	wood l	Falls		Morris	÷		Montiv	ideo
_		1	Tempe	rature	1.12	Tempe	rature	11	Tempe	rature		Tempe	rature	1	Tempe	rature		Tempe	rature
Date		high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg
Jan	1	10.00	-5.00	2.50	_	-4.00	The second second	11.00	-4.00	-	12.00	-1.00	5.50	9.00	-7.00	1.00	6.00	-5.00	0.5
Jan	2	10.00	-1.00	4.50		-2.00	3.00	12.00	1.00		15.00	7.00	11.00	8.00	-2.00	3.00	13.00	-5.00	4.
Jan	3		1.00	8.00		-4.00	5.50		-5.00	4.50	9.00	-12.00	-1.50	14.00	-6.00	4.00	-4.00	-7.00	-5.5
Jan	4	5.00	-17.00	-6.00	-2.00	-19.00	-10.50	-3.00	-18.00	_	-9.00	-18.00	-13.50	-5.00	-19.00	-12.00	-5.00	-20.00	-12.
Jan	5	-5,00	-19,00	-12.00	-4.00	-19.00	-11.50	-4.00	-18.00	and the second se	14.00	-12.00	1.00	-2.00	-20.00	-11.00	11.00	-5.00	3.
Jan	6	10.00	0.00	5.00	11.00	-4.00	3.50	12.00	-5.00	3.50	14.00	-15.00	-0.50	11.00	-6.00	2.50	12.00	-10.00	1.
Jan	7	5.00	-17.00	-6.00	-1.00	-17.00	-9.00	-3.00	-18.00	-10.50	7.00	5.00	6.00	-6.00	-20.00	-13.00	5.00	-15.00	-5.0
Jan	8	5,00	-16.00	-5.50	6.00	-17.00	-5.50	6.00	-16.00	and the second s	7.00	-16.00	-4.50	7.00	-21.00	-7.00	5.00	-13.00	-4.0
Jan	9	10.00	-22.00	-6.00	8.00	-24.00	-8.00	9.00	-20.00	-5.50	12.00	-20.00	-4.00	7.00	-18.00	-5.50	8.00	-23.00	-7.
Jan	10	5.00	-22.00	-8.50	6.00	-24.00	-9.00	10.00	-18.00	-4.00	12.00	-9.00	1.50	7.00	-21.00	-7.00	8.00	-9.00	-0,
lan	11	-2.00	-13.00	-7,50	0.00	-21.00	-10.50	3.00	-11.00	-4.00	16.00	-3.00	6.50	1.00	-13.00	-6.00	15.00	-11.00	2.1
lan	12	6.00	-2.00	2.00	6.00	0.00	3.00	12.00	3.00	7.50	5.00	-11.00	-3.00	7.00	1.00	4.00	3.00	-14.00	-5.
lan	13	1.00	-14.00	-6.50	1,00	-12.00	-5.50	3.00	-17.00	-7.00	12.00	-16.00	-2.00	1.00	-21.00	-10.00	2.00	-20.00	-9.0
lan	14	9.00	-9.00	0.00	10.00	-8.00	1.00	11.00	-9.00	1.00	12.00	-2.00	5.00	12.00	-8.00	2.00	12.00	2.00	7.0
lan	15	11.00	0.00	5,50	11.00	0.00	5.50	13.00	1.00	7.00	39.00	4.00	21.50	10.00	1.00	5.50	38.00	-7.00	15.5
lan	16	37.00	8.00	22.50	36.00	9.00	22.50	37.00	11.00	24.00	40.00	27,00	33.50	38.00	10.00	24.00	41.00	26.00	33.5
Jan	17	36.00	27.00	31,50	37.00	23.00	30.00	38.00	24.00	31.00	35.00	25.00	30.00	36.00	19.00	27.50	36.00	25.00	30.
lan	18	36.00	22.00	29.00	33.00	16.00	24.50	33.00	13.00	23.00	25.00	7.00	16.00	35.00	14.00	24.50	25.00	13.00	19.0
lan	19	22.00	-1.00	10.50	18.00	1.00	9,50	17.00	-3.00	7.00	24.00	6.00	15.00	16.00	6.00	11.00	26.00	4.00	15.0
tan	20	20.00	1.00	10.50	18.00	5.00	11.50	20.00	-3.00	8.50	23.00	11.00	17.00	21.00	6.00	13.50	26.00	10.00	18.0
lan	21	24.00	13.00	18.50	22.00	15.00	18.50	23.00	14.00	18.50	31.00	18.00	24.50	21.00	8.00	14.50	31.00	21.00	26.0
lan	22	32.00	20.00	26.00	31.00	21.00	26.00	31.00	20.00	25.50	32.00	24.00	28.00	30.00	14.00	22.00	28.00	23.00	25.
lan	23	33.00	25.00	29.00	33.00	25.00	29.00	33.00	24.00	28.50	30.00	21.00	25.50	32.00	14.00	23.00	23.00	20.00	21.
lan	24	33.00	20.00	26.50	30.00	17.00	23.50	27.00	18,00	22,50	21.00	8.00	14.50	29.00	2.00	15.50	18.00	14.00	16.0
lan	25	22.00	-3.00	9.50	19.00	-2.00	8.50	18.00	-7.00	5.50	15.00	-2.00	6.50	20.00	-4.00	8.00	17.00	-6.00	5.5
lan	26	12.00	-2.00	5.00	19.00	-2.00	8.50	22.00	-3.00	9.50	28.00	11.00	19.50	17.00	-6.00	5.50	27.00	7.00	17.0
lan	27	28.00	21.00	24.50	26,00	18.00	22.00	27.00	21.00	24.00	29,00	20.00	24.50	27.00	15.00	21.00	26.00	23.00	24.5
lan	28	31.00	18.00	24.50	29.00	13.00	21.00	29.00	11.00	20.00	21.00	14.00	17.50	28.00	11.00	19.50	23.00	11.00	17.0
lan	29	24.00	14.00	19.00	21.00	10.00	15.50	22.00	9.00	15.50	32.00	9.00	20.50	22.00	8.00	15.00	35.00	12.00	23.5
lan	30	30.00	15.00	22.50	33.00	9.00	21.00	32.00	9.00	20.50	24.00	12.00	18.00	38.00	5.00	21.50	28.00	10.00	19.0
lan	31	23.00	5.00	14.00	24.00	8.00	16.00	23.00	10.00	16.50	31.00	12.00	21.50	28.00	9.00	18.50	28.00	12.00	20,0
eb	1	34.00	17.00	25,50	32,00	26.00	29.00	32.00	10.00	21.00	34.00	28.00	31.00	35.00	13.00	24,00	28.00	25.00	26,5
eb	2	34.00	16,00	25.00	35,00	13.00	24.00	33.00	15.00	24.00	38.00	21.00	29,50	34.00	9.00	21.50	36.00	14.00	25.0
eb	3	37.00	18.00	27.50	40.00	24.00	32.00	37.00	16.00	26.50	39.00	17.00	28.00	36.00	21,00	28.50	39.00	17.00	28.0
eb	4	39.00	0.00	19.50	32.00	-3.00	14.50	37.00	-1.00	18.00	18.00	0.00	9.00	38.00	-3.00	17.50	17.00	-2.00	7.5
eb	5	34.00	1.00	17,50	40.00	6.00	23.00	33.00	2.00	17.50	40,00	16.00	28,00	29.00	-4.00	12.50	38.00	13.00	25.5
eb	6	40.00	9.00	24.50	35.00	6.00	20.50	38.00	12.00	25.00	29.00	15.00	22.00	37.00	4.00	20.50	39.00	7.00	23.0
eb	7	37.00	9.00	23.00	38.00	17.00	27.50	33.00	11.00	22.00	40.00	26.00	33.00	27.00	4.00	15.50	40.00	23,00	31.5
eb	8	38.00	22.00	30.00	44.00	33.00	38.50	39.00	24.00	31.50	46.00	33.00	39.50	39.00	26.00	32.50	44.00	34.00	39.0
eb	9	44.00	28.00	36.00	40.00	25.00	32.50	42.00	28.00	35.00	44.00	31.00	37.50	41.00	26.00	33.50	49.00	29.00	39.0
	10	42.00	30.00	36.00	40,00	33,00	36,50	40.00	30.00	35.00	46.00	31.00	38.50	38.00	27.00	32.50	44.00	32.00	38.0
eb	11	41.00	23.00	32.00	38.00	17.00	27.50	42.00	22.00	32.00	32.00	19.00	25.50	42.00	21.00	31.50	32.00	18.00	25.0
eb	12	23.00	11.00	17.00	18.00	8.00	13.00	22.00	11.00	16.50	21.00	12.00	16.50	21.00	10.00	15.50	23.00	11.00	17.0
		18.00			32.00								24.50			14.50		9.00	ADDRESS OF TAXABLE
eb		And in case of the local division of the loc			45.00											23.00			
		44.00			42.00											37.00		31.00	-
		42.00			34.00														_
					21.00											14.00	and the second second	7.00	
			18.00	19,50	23.00	16.00	19.50	21.00	15.00	18.00	28.00	17.00	22.50	23.00	7.00	15.00	24.00	19.00	
		26.00	12.00	19.00	26.00	10.00	18.00	29.00	15.00	22.00	27.00	19.00	23.00	24.00	17.00	20.50	26.00	20.00	
					27.00	12.00	19,50	27.00	15.00	21.00	28.00	17.00	22.50	28.00	16.00	22.00	26.00		
eb					33.00	6.00	19.50	28.00	14.00	21.00	34.00	13.00	23.50	29.00	13.00	21.00	28.00	11.00	
eb	22	34.00	13.00	23.50	30.00	20.00	25.00	34,00	21.00	27.50	31.00	21.00	26.00	34.00	13.00	23.50	34.00	22.00	28.
eb	23	31.00	19.00		29.00														
		33.00			43.00														
eb		the second se			42.00	15.00	28.50											and the second second	_
eb		_		33.00		31.00				36,50									
eb		37.00	32.00	34.50	36.00	32.00	34.00	44.00	29.00	36.50	39.00	33.00	36.00	42.00	33.00	37.50	39.00	28.00	33.
eb	28	40.00	31.00	35.50	36.00	29.00	32.50	38.00	29.00	33.50	34.00	28.00	31.00	37.00	29.00	33.00	34.00	25.00	29

_		Hutchinson Temperature		2333 V. 19		Willma	And the second s		Olivia		0.2905	wood F	100000		Morris			Montivi	deo
	_	100.02	11111111111	100000-01	ezer î	Temper	100000	1005	Temper			Temper		100	Temper		1.	Temper	
Date	<u> </u>	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.
Mar	1	39.00	29.00	34.00	36.00	28.00	32.00	35.00	28.00	31.50	53.00	28.00	40.50	30.00	28.00	29.00	50.00	27.00	38.50
Mar	2	49,00	29,00	39.00	49.00	26.00	37.50	52.00	27.00	39,50	37.00	20.00	28.50	50.00	26.00	38.00	35.00	27.00	31.00
Mar	3	34.00	14.00	24.00	31.00	13.00	22.00	32.00	14.00	23.00	33.00	15.00	24.00	28.00	13.00	20.50	31.00	26.00	28.50
Mar	4	32.00	18.00	25.00	31.00	14.00	22.50	32.00	19.00	25.50	35.00	25.00	30.00	32.00	13.00	22.50	31.00	15.00	23.00
Mar	5	30.00	23.00	26.50	29.00	22.00	25.50	32.00	18.00	25.00	29.00	23.00	26.00	30.00	23.00	26.50	34.00	24.00	29.00
Mar	6	30.00	16.00	23.00	27.00	15.00	21.00	29.00	16.00	22.50	27.00	17.00	22.00	28.00	13.00	20.50	28.00	23.00	25.50
Mar	7	28.00	13.00	20.50	28.00	15.00	21.50	30.00	14.00	22.00	30.00	15.00	22.50	27.00	13.00	20.00	28.00	13.00	20.50
Mar	8	30.00	18.00	24.00	29.00	16.00	22.50	30.00	14.00	22.00	26.00	22.00	24.00	30.00	17.00	23.50	30.00	19.00	24.50
Mar	9	30.00	22.00	26.00	25.00	22.00	23.50	26.00	17.00	21.50	30.00	23.00	26.50	25.00	21.00	23.00	25.00	22.00	23.50
Mar	10	29.00	11.00	20.00	30.00	16.00	23.00	31.00	6.00	18.50	30.00	16.00	23.00	31.00	21.00	26.00	28.00	22.00	25.00
105511	11	29.00	10.00	19.50	29.00	8.00	18.50	29.00	5.00	17.00	34.00	12.00	23.00	28.00	9.00	18.50	28.00	15.00	21.50
	12	30.00	9.00	19.50	31.00	8.00	19,50	32.00	6.00	19.00	33.00	7.00	20.00	37.00	8.00	22.50	31.00	8.00	19.50
	13	33.00	13.00	23.00	33.00	15.00	24.00	34.00	11.00	22.50	36.00	16.00	26.00	34.00	13.00	23.50	32.00	6.00	19.00
12111	14	37.00	15.00	26.00	35.00	14.00	24.50	36.00	14.00	25.00	38.00	16.00	27.00	35.00	23.00	29.00	38.00	17.00	27.50
	15	39.00	18.00	28.50	37.00	16.00	26.50	38.00	12.00	25.00	45.00	26.00	35.50	38.00	23.00	30.50	39.00	19.00	29.00
0.000	16	41.00	25.00	33.00			and the second se				52.00	30.00			29.00	37.00		24.00	34.00
	10	41.00	34.00		44.00	26.00	35.00	43.00	27.00	35.00	48.00	32.00	41.00	45.00	32.00	42.00	44.00	29.00	40.50
	18		28.00	41.00	In case of the local division of the local d	The state of the s	the state of the s	and the second se	27.00	Concession of the local division of the loca	manufacture and a	Contractory of the local division of the	and the second sec	38.00	and the second second	32.50	the second second second	THE OWNER WHEN THE PARTY OF	
	0.00	41.00			38.00	27.00	32.50	40.00		34.00	45.00	29,00	37.00		27.00	34.50	39.00	32.00	35.50
	19	42.00	23.00	32.50	45.00	16.00	30.50	45.00	28.00	36.50	52.00	27.00	39.50	42.00	27.00		43.00	26.00	34.50
	20	47.00	33.00	40.00	48.00	19.00	33.50	49.00	28.00	38.50	45.00	32.00	38.50	51.00	28.00	39.50	51.00	24.00	37.50
	21	48.00	28.00	38,00	43.00	27.00	35.00	43.00	28.00	35.50	48.00	29.00	38.50	40.00	27.00	33,50	45.00	32.00	38.50
	22	44.00	23.00	33.50	47.00	25.00	36.00	48.00	27.00	37.50	51.00	27.00	39.00	46.00	26.00	36.00	46.00	26,00	36.00
	23	47.00	28.00	37,50	47,00	26,00	36.50	48.00	27.00	37.50	55.00	27.00	41.00	48.00	26.00	37.00	49.00	24,00	36.50
	24	52.00	23.00	37.50	49.00	23.00	36.00	52.00	24.00	38.00	42.00	25.00	33.50	47.00	21.00	34.00	39.00	24.00	31.50
	25	40.00	22.00	31.00	45.00	23.00	34.00	43.00	22.00	32.50	47.00	24.00	35.50	40.00	19.00	29,50	40.00	20.00	30.00
	26	43.00	29.00	36.00	53.00	23.00	38,00	45.00	30.00	37.50	56.00	29,00	42.50	45.00	22.00	33.50	46.00	19.00	32.50
	27	52.00	29.00	40.50	52.00	34.00	43.00	54.00	34.00	44.00	56.00	34.00	45.00	55.00	31.00	43.00	55.00	28.00	41.50
	28	58.00	39.00	48.50	52.00	37.00	44,50	54.00	36.00	45.00	54.00	37.00	45.50	48.00	35.00	41.50	53.00	34.00	43.50
Mar	29	51.00	32.00	41,50	51.00	33.00	42.00	52.00	33.00	42.50	62.00	33.00	47.50	53.00	32.00	42.50	56.00	36,00	46.00
Mar	30	58.00	32.00	45.00	59.00	33.00	46.00	59.00	37.00	48.00	73.00	34.00	53,50	59.00	34.00	46.50	63.00	29.00	46.00
Mar	31	72.00	47.00	59.50	71.00	43.00	57.00	71.00	37.00	54.00	74.00	50.00	62.00	68.00	40.00	54.00	72.00	34.00	53.00
Apr	1	69.00	48.00	58.50	67.00	48.00	57.50	71.00	47.00	59.00	61.00	47.00	54.00	65.00	45.00	55.00	54.00	48.00	51.00
Apr	2	59.00	38.00	48,50	53.00	35.00	44.00	58.00	35.00	46.50	47.00	36.00	41.50	46.00	33.00	39.50	48.00	42.00	45.00
Apr	3	47.00	38.00	42.50	42.00	35.00	38,50	43.00	35.00	39.00	46.00	35.00	40.50	38.00	32.00	35.00	42.00	33.00	37.50
Apr	4	44.00	34.00	39.00	42.00	32.00	37.00	42.00	32.00	37.00	57.00	33.00	45.00	39.00	32.00	35.50	56.00	31.00	43.50
Apr	5	55.00	34.00	44.50	54.00	33.00	43,50	57.00	32.00	44.50	46.00	33.00	39,50	52.00	33.00	42.50	50.00	31.00	40.50
Apr	6	46.00	35.00	40.50	46.00	33.00	39.50	45.00	33.00	39.00	59.00	33.00	46.00	46.00	33.00	39.50	60.00	40.00	50.00
Apr	7	57.00	35.00	46.00	56.00	33.00	44.50	58.00	35.00	46.50	72.00	45.00	58.50	57.00	35.00	46.00	68.00	32.00	50.00
Apr	8	71.00	37.00	54.00	65.00	40.00	52.50	69.00	33,00	51,00	53.00	37.00	45.00	64,00	34.00	49.00	56.00	45.00	50.50
Apr	9	55.00	40.00	47.50	56.00	38.00	47.00	53.00	38.00	45.50	59,00	39.00	49.00	56.00	37.00	46.50	62.00	35.00	48.50
	10	58.00	39.00	48.50	60.00	37.00	48.50	59.00	38.00	48.50	48.00	37.00	42.50	59.00	38.00	48.50	56.00	39.00	47.50
	11	46.00	33.00	39.50	45.00	33.00	39.00	42.00	34.00	38.00	44.00	35.00	39,50	45.00	34.00	39.50	50.00	41.00	45.50
	12	43.00	29.00	36.00	43.00	28.00	35.50	43.00	30.00	36,50	61.00	30.00	45.50	48.00	31.00	39,50	62.00	29.00	45.50
	13	59.00	38.00	48.50	59.00	33.00	46.00	60.00	37.00	48.50	63.00	45.00	54.00	60.00	34.00	47.00	67.00	30.00	48.50
	100	62.00	and the second se			43.00			44.00		57.00						64.00		
	15		41.00		53.00	41.00		58.00			44.00		and the second second	the second se	the second second second second		the second se	43.00	
		43.00			45.00		37,50		and the second strength		34.00	and the second se		45.00			40.00		
	17		31.00		39.00	30.00	34.50	38.00	29.00				and the second second	34.00	and the second division of the second divisio	30.50		26.00	the second se
		41.00			38.00	28.00	33.00	40.00	28.00			the second second second		37.00		31.50	and the second se	26.00	
		53.00	37.00		53.00	32.00	42.50	54.00	34.00			38.00				42.00	57.00	24.00	the second data
0. * • • • • •		57.00	39.00		56.00	40.00	48.00	63.00	40.00		the second se	41.00	and a second second second			46.00	69.00	37.00	and the second data
		54.00	42.00			41.00	and the second second	the second se		the second se	55.00		and the second se		the second s		the second se		
			the second se	and the second se	58.00	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE	49.50	53.00	40.00	and the second second	the second se	the local division of	Contractor of the local division of the loca	and the second se	the second s	51.50	57.00	41.00	
		55.00	34.00		55.00	43.00	49.00	55.00	42.00			39.00	and the local division of the local division		and the other designs of the local division of the local divisiono	48.00	60.00	41.00	the second se
		53.00	the second se	and the second se	53.00	34.00	43.50	51.00	33.00	and the second sec	61.00			and the second se		44.50	62.00	42.00	and the second second
	24		28.00		55.00	33.00	44.00	62.00	37.00			34.00			33.00	46.50	67.00	31.00	
	1	64.00	28.00		66.00	38.00	and the second se	66.00			67.00			67.00			69,00	34.00	
	26		46.00		68.00	44.00		69.00		57.00		48.00					62.00	34.00	
Apr		63.00		55.50	63.00		55.00	and the second se			58.00		and the second se	62.00	the second s	and the second se	69.00	47.00	
	28		41.00		60.00	43.00	51.50	58.00	41.00	and the second second	70.00	46.00			and the second se	52.00	71.00	48.00	
Apr	29	67.00	38.00	52.50	69.00	41.00			37.00			42.00					74.00		
	30	69.00	41.00	55.00	71.00	38.00	54.50	73.00	39.00	56.00	76.00	42.00	59.00	72.00	41.00	56.50	78.00	41.00	59.50

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	1		Hutchir	nson		Willma	r		Olivia		Red	wood P	alls	1. 5	Morris	1	1.1	Montiv	ideo
		1	Temper	ature	1.01	Tempe	rature	100	Tempe	rature	1	Tempe	rature		Tempe	rature	Sec. 1.	Tempe	rature
Date	1	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg
May	1	75.00	45.00	60.00	76.00	44.00	60.00	77.00	47.00	62.00	77.00	45.00	61.00	77.00	45.00	61.00	75.00	40.00	57.5
May	2	74.00	55.00	64.50	77.00	49.00	63.00	79.00	47.00	63.00	77.00	46.00	_	80,00	48.00		77.00	42.00	59.
Aay	3	75.00	56.00	65.50	78.00	55.00		79.00	49.00	64,00	79.00	58.00	and the second design of the s	79.00	55,00	67.00	78.00	47.00	
May	4	78.00	61.00	69.50	79.00	55.00	67.00	80.00	57.00	68.50	76.00	62.00	and the second se	74.00	56.00	65.00	73.00	55.00	64.
Aay	5	74.00	57.00	65.50	74.00	54.00	64.00	77.00	58.00	67.50	66.00	52.00	and the second se	76.00	57.00	66.50	76.00	52.00	64.
Aay	6	66.00	50.00	58.00	67.00	50.00	58.50	67.00	51.00	59.00	56.00	52.00	54.00	63.00	51.00	57.00	63.00	55.00	59
day	7	57.00	46.00	51.50	57.00	45.00	51.00	58.00	48.00	53.00	55.00	42.00	48.50	55.00	44.00	49.50	55.00	51.00	53.
Aay	8	47.00	42.00	44.50	46.00	42.00	44.00	58.00	41.00	49.50	52.00	40.00	46.00	44.00	37.00	40.50	51.00	44.00	47.
<b>Aay</b>	9	55.00	36.00	45.50	55.00	37.00	46.00	54.00	33.00	43.50	72.00	35.00	53.50	51.00	36.00	43.50	66.00	39.00	52
Aay	10	68.00	47.00	57.50	68.00	48.00	58.00	70.00	49.00	59.50	71.00	58.00	64.50	66.00	44.00	55.00	70.00	51.00	60.
/lay	11	71.00	50.00	60.50	64.00	49.00	56.50	69.00	48.00	58.50	60.00	49.00	54.50	63.00	47.00	55.00	64.00	55.00	59
Aay	12	56.00	49.00	52.50	59.00	48.00	53,50	69.00	48.00	58.50	54.00	49.00	51.50	59.00	47.00	53.00	61.00	46.00	53
Aay	13	51,00	45.00	48.00	52.00	44.00	48.00	54.00	46.00	50.00	53.00	47.00	50.00	53.00	45.00	49.00	55.00	46.00	50
	14	52.00	46.00	49.00	52.00	44.00	48.00	55.00	41.00	48.00	64.00	49.00	56.50	53.00	46.00	49.50	53.00	44.00	48
	15	57.00	53.00	55.00	66.00	51.00	58,50	64.00	54.00	59.00	67.00	55.00	61.00	66.00	52.00	59,00	65.00	47.00	56.
0.00	16	64.00	57.00	60.50	62.00	56.00	59.00	65.00	59.00	62.00	72.00	60.00	66.00	66.00	56.00	61.00	66.00	54.00	60
	17	67.00	51.00	59.00	65.00	53.00	59.00	69.00	52.00	60.50	64.00	53.00	58.50	68.00	49.00	58,50	65.00	58.00	61.
	18	85.00	45.00	55.00	65.00	46.00	55.50	66.00	42.00	54.00	72.00	43.00	57.50	66.00	43.00	54.50	65,00	49.00	57.
	19	67.00	53.00	60.00	68.00	52.00	60.00	69.00	51.00	60.00	83.00	59.00	71.00	70.00	50.00	60.00	69.00	42.00	55.
	20	80,00	59.00	69,50	82.00	58.00	70.00	83.00	57.00	70.00	68.00	60.00	64.00	77.00	60.00	68.50	84.00	53.00	68
2	21	64.00	53.00	58.50	67.00	54.00	60.50	66.00	54.00	60.00	76.00	52.00	64.00	74.00	50.00	62.00	68.00	61.00	64
	22	72.00	50.00	61.00	73.00	51.00	62.00	75.00	52.00	63.50	79.00	53.00	66.00	71.00	53.00	62.00	70.00	51.00	60
0.000	23 24	73.00	48.00	60.50	77.00	48.00	62.50	78.00	47.00	62.50	59.00	49.00	54.00	79,00	46.00	62.50	68.00	53.00	60
	25	64.00	46.00	55.00	65.00	46.00	56.00	59.00 65.00	42.00	50.50 54.50	65.00	45.00	55.00	60.00	42.00	51.00	61.00	46,00	53
- 7.1	26	69.00	42.00	55.50	71.00	38.00	54.50	73.00	43.00	54.50	72.00	47.00	59.50 60.50	65.00 71.00	45.00	55.00	65.00 69.00	42.00	53
	27	75.00	56.00	65.50	77.00	52.00	64.50	77.00	49.00	63.00	83.00	57.00	70.00	79.00	55.00	67.00	78.00	41.00	59
- 79.2	28	82.00	51.00	66.50	81.00	49.00	65.00	73.00	56.00	64.50	88.00	54.00	71.00	81.00	49.00	65.00	79.00	56.00	67
	29	86.00	58.00	72.00	86.00	59.00	72.50	88.00	59.00	73.50	87.00	64.00	75.50	85.00	60.00	72.50	86.00	49.00	67
	30	90.00	55.00	72.50	87.00	62.00	74.50	88.00	62.00	75.00	86.00	58.00	72.00	89.00	63.00	76.00	88.00	60.00	74
1	31	84.00	49.00	66.50	85.00	52.00	68,50	88.00	51.00	69.50	61.00	51.00	56.00	87.00	48.00	67.50	63.00	61.00	62
un		59.00	50.00	54.50	58.00	48.00	53.00	53.00	47.00	50.00	53.00	47.00	50.00	54.00	48.00	51.00	55.00	49.00	52
un	2	51.00	43.00	47.00	51.00	47.00	49.00	74.00	47.00	60.50	74.00	47.00	60.50	59.00	44.00	51.50	75.00	47.00	61.
un	3	70.00	46.00	58.00	71.00	50.00	60,50	81.00	54.00	67.50	81.00	54.00	67.50	79.00	47.00	63.00	82.00	56.00	69.
un	4	77.00	63.00	70.00	70.00	60.00	65.00	89.00	61.00	75.00	89.00	61.00	75.00	81.00	62.00	71.50	91.00	65.00	78
un	5	83.00	64.00	73.50	86.00	64.00	75.00	91.00	65.00	78.00	91.00	65.00	78.00	91.00	65.00	78.00	83.00	63.00	73.
un	6	88.00	68.00	78.00	83.00	68,00	75,50	89,00	67.00	78.00	89.00	67.00	78.00	80.00	67.00	73.50	85.00	66.00	75
un	7	86.00	61.00	73.50	87.00	60.00	73.50	89.00	57.00	73.00	89.00	57.00	73.00	86.00	59.00	72.50	85.00	59.00	72
un	8	86.00	66.00	76.00	85.00	64.00	74.50	89.00	81.00	85.00	89.00	81.00	85.00	86.00	64.00	75.00	87.00	63.00	75.
un	9	85.00	64.00	74.50	84.00	64.00	74.00	92.00	67.00	79,50	92.00	67.00	79.50	84.00	64.00	74.00	89.00	63.00	76
un 1	10	86.00	65.00	75.50	88.00	65.00	76,50	78.00	61.00	69.50	78.00	61.00	69,50	87.00	62.00	74.50	74.00	61.00	67.
un 1	11	76.00	58.00	67.00	77.00	58.00	67.50	78.00	57.00	67,50	78.00	57.00	67.50	74.00	57.00	65.50	75.00	58.00	66.
	12	73.00	54.00	63.50	76.00	55.00	65.50	84.00	56.00	70.00	84.00	56.00	70.00	76.00	57.00	66.50	79.00	50.00	64.
	13	80.00		70.50	80.00	62.00	71.00	76.00		66.50					56.00	the second s	and the second second second	55.00	67.
		72.00			and the second second	Conception of the local division of the loca	and the local division in which the local division in the local di	the second s	and the second se				60.00		Concession of the local division of the loca	and the second second	66.00	47.00	
		65.00	48.00		67.00	47.00	57.00	68.00					59.00		and the second se	57.50	68,00	49.00	
		65.00	46.00	and the second se	66.00	48.00	57.00	73.00			73.00				and the second se	59.00	67.00	48.00	and the second second
		67.00	43.00		67.00		55.00	77.00					60.00				75.00	43.00	
		72.00	56,00		73.00	the second se	63.00	69.00	56.00		69.00	56.00				65.00	63.00	54.00	58.
			55.00				61.50	65.00					60,50				65.00	56.00	_
			55.00		63.00	the second se	60.50	78.00	64.00		78.00			66.00		61.50	76.00	62.00	
			65.00		74.00			87.00					76.00		65.00		85.00	65.00	
		83.00					the second se	81.00		and the second se	the second se	_	74,50	and the second se			82.00	68.00	-
		83.00						85.00					74.50				82.00	62.00	-
		83.00											78.50				88.00	60.00	-
			61.00				74.00						81.00 83.00			76.00	89.00	64.00 70.00	
		89.00											68.00			73.00	74.00	60.00	the second division in the second division
			64.00				77.00		54.00	60.00	15.00	54.00	60.00	74.00	57.00				_
					77.00			66.00	54.00	61.50	72.00	50.00	61.50	65.00	47.00	56.00		48.00	the second second
uli a	23	65.00	50,00	57.50	07.00	47.00	57.00	73.00	50.00	01.50	73.00	50.00	67.00	74.00	47.00	65.00	75.00		-

16.35

1.11

			Hutchir	nson		Willma	r		Olivia		Red	wood F	alls		Morris			Montiv	
-	1	de esta	Temper	ature	0545	Tempe	rature	00225	Tempe		1202	Tempe		1000	Temper		1222	Tempe	
Date		high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg
lul	1	75.00	54.00	64.50	76.00	55.00	65.50	75.00	55.00	65.00	77.00	55.00	66,00	76.00	57.00	66.50		_	63.
lut	2	77.00	57.00	67.00	75.00	54.00	64.50	72.00	56.00	64.00	78.00	47.00	62.50	75,00	54.00	64.50	_	_	67.
lul	3	78.00	62.00	70.00	78.00	60.00	69.00	81.00	62.00	71.50	92.00	68.00	80.00	79.00	60.00	69.50		66.00	78.
lul	4	90.00	70.00	80.00	90.00	68.00	79.00	93.00	75.00	84.00	95.00	78.00	86,50	91.00	70.00	80.50		78.00	83.
hul	5	92.00	78.00	85.00	91.00	76.00	83.50	91.00	77.00	84.00	90.00	63.00	76.50	91.00	75.00	83.00	88.00	64.00	76.
lul	6	90.00	58.00	74.00	86.00	59,00	72.50	87.00	56.00	71.50	83.00	59.00	71.00	84.00	59.00	71.50	80.00	55.00	67.
lul	7	82.00	60.00	71.00	82.00	59.00	70.50	81.00	57.00	69.00	90.00	59.00	74.50	82.00	55.00	68.50	86.00	56.00	71.
lul	8	87.00	64.00	75.50	84.00	64.00	74.00	85.00	56.00	70.50	91.00	65.00	78.00	86.00	65.00	75.50	91.00	64.00	77.
lul	9	87.00	57.00	72.00	87.00	60.00	73.50	89.00	57,00	73.00	73.00	56.00	64.50	84.00	56.00	70.00	74.00	56.00	65.
lul	10	74.00	54.00	64.00	73.00	55.00	64.00	73.00	51.00	62.00	82.00	53.00	67.50	70.00	54.00	62.00	76.00	51.00	63.
lul	11	78.00	57.00	67.50	78.00	53.00	65.50	79.00	54.00	66.50	83.00	55.00	69.00	78.00	53.00	65.50	81.00	52.00	66.
iul 1	12	81.00	60.00	70.50	79.00	57.00	68.00	79.00	56.00	67.50	84.00	56,00	70.00	81.00	56.00	68.50	83.00	55.00	69.
lul 1	13	82.00	65.00	73.50	82.00	63.00	72.50	81.00	61.00	71.00	88.00	61.00	74.50	84.00	64.00	74,00	86.00	62.00	74.
ul 1	14	83.00	68.00	75.50	83.00	61.00	72.00	91.00	69.00	80.00	94.00	73.00	83.50	84.00	66.00	75.00	91.00	64.00	77.
ul 1	15	90.00	73.00	81.50	89.00	73.00	81.00	91,00	72.00	81.50	95,00	71.00	83.00	91.00	73.00	82.00	92.00	72.00	82.
ul 1	16	94.00	71.00	82.50	92.00	70.00	81.00	91.00	70.00	80,50	83.00	64.00	73.50	90.00	67.00	78.50	78.00	68.00	73.
ul 1	17	82.00	58.00	70.00	82.00	57.00	69,50	82.00	55.00	68.50	82.00	58.00	70.00	77.00	56.00	66,50	77.00	55.00	66,
ul 1	18	78.00	62.00	70.00	77.00	64.00	70,50	80.00	58.00	69.00	78.00	66.00	72.00	75.00	64.00	69.50	77.00	56.00	66.
ul 1	19	72.00	66.00	69.00	72.00	65.00	68.50	75.00	63.00	69.00	84.00	68.00	76.00	74.00	65.00	69.50	82.00	66.00	74.
ul 2	20	83.00	67.00	75.00	83.00	67.00	75.00	83.00	67.00	75.00	74.00	66.00	70,00	84.00	66.00	75.00	78.00	68.00	73.
ul 2	21	74.00	67.00	70.50	78.00	64.00	71.00	76.00	69.00	72.50	81.00	66.00	73.50	82.00	61.00	71,50	80.00	65.00	72
ul 2	22	81.00	60.00	70.50	82.00	60.00	71.00	81.00	61.00	71.00	91.00	62.00	76.50	83.00	65.00	74.00	92.00	64.00	78.
ul 2	23[	88.00	65.00	76.50	89.00	68.00	78.50	92.00	67.00	79,50	92.00	70.00	81.00	90.00	65.00	77.50	91.00	66.00	78
ul a	24	92.00	68.00	80,00	90.00	66.00	78.00	90,00	67.00	78.50	93.00	71.00	82.00	90.00	66.00	78.00	93.00	67.00	80,
ul 2	25	95.00	73.00	84.00	94.00	73.00	83.50	93.00	73.00	83.00	96.00	74.00	85.00	91.00	73.00	82.00	95.00	74.00	84.
ut á	26	93.00	69.00	81.00	93.00	66.00	79.50	91.00	67.00	79.00	87.00	65.00	76.00	91.00	61.00	76.00	80.00	62.00	.71.
ul 2	27	84.00	54.00	69.00	84.00	57.00	70.50	85.00	60.00	72.50	88,00	59.00	73.50	79.00	58.00	68,50	88.00	59.00	73.
ul 2	28	87.00	64.00	75.50	86.00	61.00	73.50	86.00	62.00	74.00	94.00	64.00	79.00	88.00	60.00	74.00	89.00	60.00	74.
ul 2	29	89.00	73.00	81.00	88.00	70.00	79.00	88.00	70,00	79.00	101.00	79.00	90.00	89.00	68.00	78,50	96.00	73.00	84.
ul 3	30	96.00	78.00	87.00	95.00	74.00	84.50	95.00	77.00	86.00	97.00	68.00	82.50	94.00	72.00	83.00	94.00	75.00	84.
ul s	31	93.00	65.00	79.00	94.00	66.00	80.00	94.00	64.00	79.00	80.00	61.00	70.50	92.00	60.00	76.00	77.00	60.00	68.
ug	1	78.00	60.00	69.00	77.00	62.00	69.50	76.00	56.00	66.00	77.00	59.00	68.00	73.00	57.00	65.00	77.00	60.00	68,
ug	2	76.00	51.00	63.50	76.00	53.00	64.50	75.00	51.00	63.00	83.00	52.00	67.50	75.00	52.00	63,50	73.00	58.00	65.
ug	3	79.00	59.00	69.00	79.00	57.00	68.00	79.00	52.00	65.50	85.00	61.00	73.00	79.00	62.00	70.50	80.00	53,00	66.
ug	4	81.00	55.00	68.00	80.00	57.00	68.50	81.00	53,00	67.00	85.00	55.00	70.00	78,00	56.00	67.00	80.00	59.00	69.
ug	5	82.00	55.00	68.50	81.00	56.00	68.50	79.00	54.00	66.50	89.00	55.00	72.00	80.00	56.00	68.00	80.00	53.00	66.
ug	6	85.00	60.00	72.50	84.00	64.00	74.00	84.00	62.00	73.00	88.00	60.00	74.00	85.00	61.00	73.00	86.00	55.00	70.
ug	7	85.00	60.00	72.50	86.00	63.00	74.50	84.00	62.00	73.00	86.00	60.00	73.00	86.00	62.00	74.00	86.00	60.00	73.
ug	8	81.00	48.00	64.50	83.00	55.00	69.00	81.00	51.00	66.00	80.00	55.00	67.50	78.00	50.00	64.00	78.00	64.00	71.
ug	9	73.00	56,00	64.50	75.00	60.00	67.50	76.00	55.00	65.50	91.00	60.00	75.50	75.00	58.00	66.50	80.00	63.00	71.
ug 1	0	80.00	53,00	66.50	82.00	60.00	71.00	83.00	59.00	71.00	85.00	64.00	74.50	83.00	62.00	72.50	86.00	60.00	73.
ug 1	1	83.00	61.00	72.00	81.00	61.00	71.00	80.00	61.00	70.50	89.00	63.00	76.00	80.00	63.00	71.50	81.00	60.00	70.
	12	85.00	68.00	76,50	85.00	66.00	75.50	82.00	55.00	68.50	83.00	61.00	72.00	86.00	67.00	76.50	87.00	62.00	74,
	3	75.00	58,00	66.50				79.00	58.00	68.50	76.00	56.00	66.00	71.00	56.00	63.50	85.00	65.00	75.
		72.00	_	and the local division of the local division	-	47.00	60.50	74.00	49.00	61.50	78.00	49.00	63.50	72.00	49.00	60,50	79.00	55.00	67.
		75.00	59.00	67.00		59.00	66.50	74.00	the second s	61.00	79.00	60.00	69.50	75.00	58.00	66.50	76.00	47.00	61.
1.1.1		75.00		68.50	75.00	61.00	68.00	76.00		69.50		64.00	75.50		59.00	69.00	75.00	47.00	61.
			57.00		79.00	57.00	68.00	79.00	55.00	67.00	88.00	56.00	72.00	80.00	55.00	67.50	83.00	59.00	71.
		83.00		73.50	82.00	57.00	69.50	82.00	60,00		82.00	61.00	71.50	84.00	62.00	73.00	85.00	53.00	69.
		74.00			79.00		68.50	80.00	53.00		76.00	56.00	66.00		54.00	65,00	77.00	64.00	70.
		72.00	53.00		74.00	the second se	64,50	74.00	57.00	65.50	81.00	55.00	68.00	77.00	57.00	67.00	76.00	52.00	64.
107.040		78.00	Contractor of the local division of the loca	and the second data	78.00	59.00	68.50	78.00	56.00	67.00	82.00	65.00	73.50	79.00	62.00	70,50	81.00	56.00	68
		83.00				67.00	72.00	77,00	66.00	71.50	81.00	66.00	73.50	75.00	65.00	70.00	79.00	53.00	66.
		81.00		72.50		62.00	71.50	80.00	61.00	70.50	75.00	62.00	68,50	84.00	59.00	71.50	84.00	64.00	74
- <b>1</b>		76.00	63.00	69.50		63.00	68.00	73.00	59.00	66.00	77.00	60.00	68,50	74.00	59.00	66.50	74.00	59.00	66.
		75.00	58.00	66,50	77.00	57.00	67.00	76.00	54.00		81.00	56.00	68.50	82.00	58.00	70.00	80.00	59.00	69
ug 2	- B	80.00		69.00	80.00	62.00	71.00	80.00		70.50	90.00		76,50		62.00	71.50		56.00	69.
ug 2		84.00			87.00	67.00	77.00	86.00		75.00	96.00			91.00		76.00	94.00	65.00	79
ug 2		90.00	62.00	76.00	92.00	60.00	76.00	92.00			77.00			92.00		78,50	78.00	62.00	70.
ug 2		82.00	64.00	73.00	78.00	57.00	67.50	79.00	57.00		74.00	60.00			58.00	69,00	73.00	65.00	69.
ug 3	30	71.00	58.00	64.50	64.00		61.00	73.00	58.00	65,50	68.00	58.00	63.00	70.00	58.00	64.00	76.00	47.00	on printers and
			56.00			48.00								66.00				58.00	70

	Г	2	Hutchi	nson		Willma	r		Olivia		Red	wood f	alls		Morris			Montiv	ideo
	1	1.00	Temper	rature		Tempe	rature	-	Tempe	rature	122101	Tempe	rature		Tempe	rature	in a second	Tempe	rature
Date	L	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg
Sep 1	1	82.00	63.00	72.50	81.00	62.00	71.50	82.00	61.00	71.50	89.00	62.00	75.50	85.00	63.00	74.00	85.00	61.00	73.
Sep 2	2	86.00	63.00	74.50	85.00	64.00	74.50	87.00	63.00	75.00	88.00	65.00	76.50	80.00	64.00	72.00	85.00	63.00	74.
Sep 3	3	88.00	68.00	78.00	84.00	58.00	71.00	86.00	66.00	76.00	91.00	67.00	79.00	75.00	63.00	69.00	86.00	61.00	73.
Sep 4	ŧГ	88.00	69.00	78.50	87.00	47.00	67.00	88.00	68.00	78.00	77.00	67.00	72.00	82.00	62.00	72.00	87.00	62.00	74.
Sep 5	5	86.00	57.00	71.50	76.00	56.00	66.00	76.00	53.00	64.50	67.00	54.00	60.50	78.00	54.00	66,00	78.00	62.00	70.
Sep 6	۶C	70.00	48.00	59.00	68.00	46.00	57.00	68.00	48.00	58,00	80.00	48.00	64.00	67.00	48.00	57.50	78.00	51.00	64.
Sep 7	ľ	78.00	63.00	70.50	77.00	52.00	64.50	78.00	57.00	67.50	84.00	63.00	73.50	80.00	55.00	67.50	80.00	46.00	63.
Sep 8	۶Ľ	82.00	54.00	68.00	79.00	52.00	65.50	82.00	50.00	66.00	67.00	51.00	59.00	76.00	51.00	63.50	79.00	62.00	70.
Sep 9	-	68.00	46.00	57.00	65.00	47.00	56.00	67.00	45.00	56.00	65.00	46.00	55.50	63.00	47.00	55.00	67.00	47.00	57.
Sep 10	-	62.00	46.00	54.00	63.00	41.00	52.00	64.00	43.00	53.50	70.00	48.00	59.00	63.00	46.00	54,50	65.00	46.00	55.
Sep 11	-	71.00	42.00	56.50	70.00	43.00	56.50	71.00	43.00	57.00	78.00	46.00	62.00	69.00	43.00	56.00	70.00	42.00	56.
Sep 12	-	68.00	50.00	59.00	71.00	50.00	60.50	74.00	45.00	59,50	67.00	54.00	60.50	68.00	49.00	58.50	71.00	41.00	56.
Sep 13	-	73.00	42.00	57.50	65.00	50.00	57.50	67.00	50.00	58.50	62.00	50.00	56.00	63.00	49.00	56.00 51.00	73.00	44.00	58.
Sep 14	-	61.00	42.00	51.50	59.00	42.00	50,50	62.00	42.00	52.00	61.00	43.00	52.00	60.00	42.00	54.00	61.00	49.00	51.0
Sep 15	-	60.00	47.00	53.50	59.00	43.00	51.00	61.00	46.00	53.50 55.00	67.00 75.00	39.00	57.00	67.00	43.00	55.00	68.00	47.00	57.5
Sep 16	<b></b>	64.00 71.00	40.00	52.00	65.00	46.00	59.00	67.00 73.00	49.00	61.00	78.00	48.00	63.00	75.00	47.00	61.00	75.00	40.00	57.5
Sep 17 Sep 18	-	76.00	50.00	63.00	76.00	51.00	63.50	76.00	49.00	62.50	82.00	45.00	63.50	78.00	53.00	65.50	77.00	47.00	62.
iep 18	-	81.00	51.00	66.00	78.00	40.00	59.00	82.00	52.00	67.00	66.00	42.00	54.00	76.00	52.00	64.00	79.00	51.00	65.
iep 20	-	65.00	35.00	50.00	62.00	44.00	53.00	65.00	41.00	53.00	56.00	37.00	46.50	60.00	35.00	47.50	63.00	50.00	56.
Sep 21	-	55.00	35.00	45.00	56.00	34.00	45.00	57.00	31.00	44.00	68.00	32.00	50.00	56.00	34.00	45.00	55.00	34.00	44
iep 22	-	66.00	44.00	55.00	69.00	37.00	53.00	68.00	35.00	51,50	83.00	43.00	63.00	74.00	38.00	56.00	71.00	30.00	50.
iep 23	-	80.00	48.00	64.00	80.00	44.00	62.00	82.00	48.00	65.00	75,00	49.00	62.00	83.00	45.00	64.00	82.00	42.00	62.
ep 24	-	70.00	50.00	60.00	69.00	42.00	55.50	73.00	43.00	58.00	75.00	41.00	58.00	69.00	42.00	55.50	71.00	45.00	58.
ep 25	_	70.00	47.00	58.50	71.00	44.00	57,50	73.00	44.00	58.50	81.00	56.00	68.50	73.00	46.00	59,50	75.00	40.00	57.
Sep 26	-	76.00	40.00	58.00	70.00	44.00	57.00	80.00	55.00	67.50	72.00	56.00	64.00	67.00	52.00	59.50	70.00	56.00	63.
iep 27	-	67.00	40.00	53.50	63.00	34.00	48.50	65.00	40.00	52.50	65.00	41.00	53.00	63.00	39.00	51.00	65.00	51.00	58.
iep 28		64.00	34.00	49.00	62.00	43.00	52.50	63.00	39.00	51.00	64.00	38.00	51.00	63.00	39.00	51.00	63.00	37.00	50.
ep 29	Γ	64.00	43.00	53.50	61.00	33.00	47.00	64.00	32.00	48.00	65.00	34.00	49.50	59.00	32.00	45.50	57.00	38.00	47.
Sep 30	Г	64.00	38.00	51.00	63.00	38.00	50.50	64.00	40.00	52.00	62.00	44.00	53.00	64.00	36.00	50.00	65.00	30.00	47.5
Oct 1	Γ	60.00	34.00	47.00	58.00	35.00	46.50	60.00	31.00	45.50	39.00	33.00	36.00	57.00	33.00	45.00	59.00	42.00	50.5
Oct 2	Γ	44.00	30.00	37.00	43.00	33.00	38.00	40.00	26,00	33.00	48.00	28.00	38.00	41.00	28.00	34.50	39.00	32.00	35.
Oct 3		46.00	31.00	38.50	47.00	33.00	40.00	48.00	30.00	39.00	51.00	37.00	44.00	44.00	28.00	36.00	44.00	24.00	34.0
oct 4	E	49.00	34.00	41.50	48.00	33,00	40.50	51.00	34.00	42.50	61.00	35.00	48.00	49.00	31.00	40,00	48.00	35.00	41.5
Oct 5	E	58.00	36.00	47.00	59.00	34.00	46.50	60.00	36.00	48.00	63.00	36.00	49.50	58.00	32.00	45.00	60.00	30.00	45.0
oct 6	E	61.00	32.00	46.50	58,00	32.00	45.00	62.00	31.00	46.50	64.00	33.00	48.50	55.00	32.00	43.50	67.00	33.00	50.0
oct 7	-	58.00	52.00	55.00	58.00	31.00	44.50	62.00	31.00	46.50	80.00	52.00	66.00	58.00	33.00	45.50	62.00	32.00	47.0
oct 6	-	79.00	49.00	64.00	72.00	41.00	56.50	73.00	49.00	61.00	75.00	49.00	62.00	62.00	43.00	52.50	76.00	50.00	63.0
oct 9	-	73.00	38.00	55.50	72.00	42.00	57.00	74.00	44.00	59.00	82.00	43.00	62.50	72.00	43.00	57.50	76.00	44.00	60.
Oct 10	-	79.00	40.00	59.50	81.00	44.00	62.50	80.00	43.00	61.50	68.00	43.00	55.50	83.00	45.00	64.00	83.00	42.00	62
Oct 11	-	67.00	34.00	50.50	65.00	35.00	50.00	67.00	39.00	53.00	68.00	34.00	51.00	65.00	34.00	49.50	67.00	41.00	54.0
oct 12	-	66.00	54.00	60.00	66.00	35.00	50.50	67.00	38.00	52.50	67.00	47.00	57.00	63.00	31.00	47.00	67.00	35.00	51.
Oct 13	÷	67.00	43.00	55.00	62.00	42.00	52.00	69.00	37.00	53,00	58.00	40.00	49.00	52.00	40.00	46.00	59.00	44.00	51.
Oct 14	-	55.00		48.50	69.00		48.50							57.00				37.00	
Oct 16	-			54.00	62.00	39.00		and the second se						71.00				40.00	
Oct 17	-	the second se			52.00			69.00			53.00		44.00	57.00 52.00		46.50			
Oct 18	-	and the second se		43.00	48.00			52.00	32.00		53.00			49.00		40.00			
oct 19		47.00			50.00									52.00				37.00	
oct 20		48.00	24.00	36.00	48.00			53.00	26.00				44.50			35.00	45.00	and the second se	-
)ct 21		59.00			62.00			62.00	26.00	44.00				65.00	and the second se	46.00	65.00	and the second se	
)ct 22	-	71.00			62.00			71.00	38.00					67.00		51.50	72.00	and the second se	and the second second
)ct 23	_	47.00				11.00				36.50			36.50			35.00	46.00		
oct 24	-	47.00			49.00	22.00		51.00						45.00		33.50	46.00		-
Oct 25	-	58.00		46.50		36.00		62.00		41.00				66.00		45.50	64.00	20.00	42.
		65.00			62.00			65.00	36.00			36.00	50.00	63.00	31.00		64.00		
Oct 27		59.00		45.00	59.00	39.00	49.00	61 00	38 00	49.50	78.00		57.50			46.00	63.00		
		73.00	42.00	57.50	73.00	29.00	51.00	75.00	25 00	50.00	58 00		43.50			49.50	79.00	the second se	
)ct 29		55.00	28.00	41.50	55.00	33.00	44.00	57.00	36.00	46.50			52.00	55 00	24.00	39.50	55.00	26.00	-
				52.50	65.00	42.00	53.50	69.00			59.00					48.00	66.00		
oct 31	E	59 00	36.00	47.50	57.00	35.00	45.00	57.00	37.00	47 00	73.00	35.00	54.00	58.00	32.00	45.00	66.00	42.00	

			Hutchin			Willma	r		Olivia		Red	wood F	alls		Morris			Montivi	deo
	2	100000000	Temper	100000000		Temper	102-05-05-01	60.00	Temper	10233		Temper	11 P. 1		Temper	10000	10000	Temper	
Date		high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.	high	Low	Avg.
Nov	1	73.00	43.00	58.00	71.00	41.00	56.00	71,00	44.00	57.50	58.00	36.00	47.00	76.00	32.00	54.00	76.00	34.00	55.00
Nov	2	49.00	26.00	37.50	47.00	26.00	36.50	49.00	26,00	37.50	48.00	25.00	36.50	46.00	26.00	36.00	54.00	32.00	43.00
Nov	3	44.00	20.00	32.00	45.00	17.00	31.00	49.00	23.00	36.00	63.00	20.00	41.50	46.00	20.00	33.00	47.00	25.00	36.00
Nov	4	54.00	31.00	42.50	59.00	24.00	41.50	59.00	24.00	41.50	65.00	23.00	44.00	59.00	19.00	39.00	59.00	20.00	39,50
Nov	5	58.00	30.00	44.00	60.00	29.00	44.50	62.00	27.00	44.50	52.00	33,00	42.50	65.00	27.00	46.00	66.00	21.00	43.50
Nov	6	51.00	25.00	38.00	49.00	26.00	37.50	62.00	27.00	44.50	60,00	26.00	43.00	49.00	28.00	38.50	50.00	34.00	42.00
Nov	7	56.00	29.00	42.50	57.00	30.00	43.50	58.00	34.00	46.00	70.00	33.00	51.50	62.00	31.00	46.50	62.00	28.00	45.00
Nov	8	65.00	37.00	51.00	68.00	35.00	51.50	69.00	40.00	54.50	82.00	38.00	60.00	71.00	35.00	53.00	72.00	33.00	52.50
Nov	9	81.00	46.00	63,50	80.00	41.00	60.50	82.00	47.00	64.50	75.00	45.00	60.00	78.00	38.00	58.00	80.00	37.00	58.50
Nov	10	72.00	45.00	58.50	68.00	41.00	54.50	73.00	39.00	56.00	54.00	38.00	46.00	68.00	37.00	52.50	68.00	43.00	55.50
Nov	11	49.00	36.00	42.50	53.00	36.00	44.50	58.00	37.00	47.50	55.00	38.00	46.50	53.00	33.00	43.00	54.00	35.00	44.50
Nov	12	50.00	33.00	41.50	51.00	30.00	40,50	54.00	31.00	42.50	56.00	34.00	45.00	54.00	30.00	42.00	57.00	37.00	47.00
Nov	13	60.00	36.00	48.00	60.00	31.00	45.50	62.00	38.00	50.00	78.00	42.00	60.00	61.00	29.00	45.00	65.00	29.00	47.00
Nov	14	72.00	34.00	53.00	68.00	30.00	49,00	74.00	30.00	52.00	49.00	34.00	41.50	69.00	31.00	36.50	47.00	31.00	55.50 39.00
Nov	15	47.00	28.00	37.50	48.00	27.00	37.50	49.00	25.00	37.00	61.00	26.00	43.50	46.00	28.00	41.00	56.00	25.00	40.50
2970	16	49.00	27.00	38.00	51.00	30.00	40.50	53.00	30.00	41.50	55.00	37.00	46.00	52.00	28.00	40.00	52.00	22.00	37.00
	17	54.00	33.00	43.50	53.00	32.00	42.50	54.00	33.00	43.50	67.00	34.00	50.50	52.00	30.00	41.00	53.00	30.00	41.50
	19	57.00	33.00	45.00	54.00	34.00	44.00	66.00	30.00	48.00	42.00	25.00	33.50	51.00	27.00	39.00	60.00	33.00	46.50
	20	40.00	19.00	29.50	37.00	19.00	28.00	35.00	17.00	26.00	45.00	19.00	32.00	37.00	19.00	28.00	36.00	25.00	30.50
	21	44.00	22.00	33.00	43.00	27.00	35.00	44,00	29.00	36.50	50.00	37.00	43.50	42.00	21.00	31.50	45.00	17.00	31.00
	22	50.00	33.00	41.50	42.00	25.00	33.50	48.00	32.00	40.00	43.00	32.00	37,50	43.00	28.00	35.50	43.00	32.00	37.50
	23	44.00	30.00	37.00	43.00	29.00	36.00	42.00	31.00	36.50	36.00	29.00	32.50	44.00	27.00	35.50	41.00	29.00	35.00
	24	36.00	27.00	31.50	36.00	23.00	29.50	35,00	29.00	32.00	43.00	29,00	36.00	37.00	26.00	31,50	36.00	28.00	32.00
	25	44.00	27.00	35.50	48.00	23.00	35.50	47.00	22.00	34.50	46.00	22.00	34.00	48.00	22.00	35.00	50.00	23.00	36.50
	26	44.00	26.00	35.00	43.00	27.00	35.00	44.00	22.00	33.00	47.00	30.00	38.50	42.00	22.00	32.00	45.00	19.00	32.00
	27	45.00	21.00	33.00	43.00	24.00	33,50	45.00	26.00	35.50	42.00	25.00	33.50	41.00	23,00	32.00	46.00	30.00	38,00
	28	45.00	23.00	34.00	38.00	21.00	29.50	40.00	19.00	29.50	42.00	21.00	31,50	38.00	17.00	27.50	41.00	22.00	31.50
	29	42.00	17.00	29.50	41.00	12.00	26.50	42.00	15.00	28.50	38.00	17.00	27.50	39.00	12.00	25.50	41.00	22.00	31.50
Nov	30	36.00	16.00	26.00	35.00	13.00	24.00	37.00	20.00	28.50	46.00	31.00	38.50	37.00	12.00	24.50	37.00	13.00	25.00
Dec	1	48.00	32.00	40.00	42.00	34.00	38.00	43.00	33.00	38.00	53.00	37.00	45.00	49.00	34.00	41.50	51.00	30.00	40.50
Dec	2	49.00	32.00	40,50	51.00	33.00	42.00	52.00	31.00	41.50	50.00	33.00	41.50	49.00	31.00	40.00	52.00	35.00	43.50
Dec	3	49.00	25.00	37.00	46.00	31.00	38.50	49.00	29.00	39.00	46.00	29.00	37.50	44.00	32.00	38.00	45.00	30.00	37.50
Dec	4	47.00	34.00	40.50	46.00	33.00	39,50	47.00	30.00	38.50	38.00	31.00	34.50	42.00	31.00	36.50	43.00	21.00	32.00
Dec	5	37.00	16.00	26.50	35.00	18.00	26.50	36.00	18.00	27.00	33.00	14.00	23.50	36.00	14.00	25.00	32.00	15.00	23,50
Dec	6	32.00	15.00	23.50	33.00	17.00	25.00	33.00	16.00	24.50	46.00	12.00	29.00	31.00	14.00	22.50	32.00	15.00	23.50
Dec	7	38.00	18.00	28.00	40.00	17.00	28,50	40.00	16.00	28.00	45.00	19.00	32.00	42.00	18.00	30.00	45.00	11.00	28.00
Dec	8	40.00	24.00	32.00	40.00	20.00	30.00	42.00	23.00	32.50	50.00	28.00	39.00	40.00	19.00	29.50	42.00	19.00	30.50
Dec	9	48.00	22.00	35.00	44.00	18,00	31.00	47.00	17.00	32.00	42.00	19.00	30,50	39.00	15.00	27.00	42.00	22.00	32.00
	10	39.00	13,00	26.00	40.00	10,00	25.00	41.00	11.00	26.00	35.00	12.00	23.50	41.00	10.00	25.50	43.00	14.00	28.50
2010.000	11	36.00	15.00	25.50	35.00	14.00	24,50	35.00	11.00	23,00	40.00	26.00	33.00	35.00	10.00	22.50	36.00	9.00	22.50
	12	36.00	18.00	27.00	38.00	17.00	27.50	38.00	15.00	26.50	51.00	15.00	33.00	43.00	15.00	29.00	41.00	14.00	27.50
100 C	13	49.00	16.00	32.50	48.00	14.00	31,00	51.00	14.00	32.50	47.00	15.00	31.00	44.00	14.00	29.00	48.00	22.00	35.00
Dec		43.00	18.00	30.50	45.00		31.00	45.00	17.00	31.00		26.00	29.50	46.00			the second se	12.00	and the second second second
						27.00	and the second se			29.00			17.00	24.00			35.00	26.00	30,50
		32.00	-4.00		30.00		11.00		-8.00		8.00	-7.00	and the second second second		and the second sec				and the second second
		15.00	-4.00			10.00					23.00	19.00	15.50 21,50	21.00					14.00
			21.00			20.00	24.00	37.00					27.00						_
			-3.00			-2.00	14.50		-3.00	4.50			-0.50						the second s
Dec			-10.00			-13,00	-7.00		-12.00				-1.50		-15.00			-5.00	
			-9.00			-11.00		12.00							-15.00			-13.00	
			-10.00			-11.00	-1.50				31.00	-1.00	15.00	7.00			10.00		
	0 ° C (18)	23.00		11.00			16.00						19,50			16.50	and the second se		12.50
		25.00				11.00		41.00	12.00	26.50	49.00	14.00	31.50	30.00	12.00				31.50
			14.00	28.50	43.00	13.00	28.00		11.00	24.00	31.00	21.00	26.00	46.00	13.00				23.00
		29.00				10.00							16.00			22.50		2.00	
		36.00		22.50	36.00	8.00	22.00	45.00					36.50			22.50		and the second second	20.00
		43.00				27.00	and the second second		21.00	39.00	60.00	24.00	42.00					32.00	38.50
		55.00						38.00	17.00	27.50	41.00	25.00	33.00	57.00	21.00	39.00	61.00		
	- 100 100			26.00				45.00		20.00	40.00	10.00	33.50	39.00	15.00	26 50	40.00	20.00	30.00

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T=Trace M=Missing data

		Hutchinson	Willmar	Olivia	Redwood Falls	Morris	Montivideo
Date		Precip.	Precip.	Precip.	Precip.	Precip.	Precip.
Jan	1		0.00	0.00	0.00	0.01	0.00
Jan	2	0.09	0.38	0.54	0.43	0.42	0.00
Jan	3	0.00	0.16	0.06	0.55	0.12	0.00
Jan	4	0.00	0.00	Т	0.00	Т	0.00
Jan	5	0.06	т	т	0.00	т	0.00
Jan	6	0.00	0.03	0.01	T	0.03	0.00
Jan	7	2.50	0.00	0.00	0.00	0.00	0.00
Jan	8	0.01	0.07	0.09	0.11	0.06	0.00
Jan	9	0.00	0.00	0.00	T	0.00	0.00
2 C C C C	10	0.06	т	0.00	T	0.03	0.00
Jan	11	0.04	0.03	0.03	0.00	0.04	0.00
Jan		0.06	0.03	т	0.36	0.07	0.00
Jan		0.12	0.10	0.15	0.15	0.10	0.00
Jan		0.00	0.30	0.03	0.02	0.14	0.00
Jan		0.00	T	т	0.25	т	0.00
Jan		0.00	Ť	0.15	T	Ť	0.00
Jan		0.22	T	0.00	0.00	T	0.00
Jan		0.00	0.15	0.10	0.20	0.03	0.00
Jan		0.00	0.00	T	0.12	T	0.00
Jan		0.00	0.00	Ť	0.00	0.00	0.00
Jan		0.00	0.00	Ť	0.00	0.00	0.00
				Ť	0.00	0.00 T	0.00
Jan		0.00	0.00	Ť	0.00	Ť	0.00
Jan		0.00	0.00		11 F S 17 C C	+	
Jan		T	0.00	0.02	0.00		0.00
Jan		0.00	T	0.02	0.00	0.00	0.00
Jan		0.09	0.00	0.00	0.00	0.00	0.00
Jan :		0.00	0.20	T	0.02	0.22	0.03
Jan :		0.00	т	0.00	0.00	0.00	0.00
Jan		0.00	0.00	0.00	0.00	0.00	0.00
Jan		0.00	0.00	0.00	0.00	0.00	0.00
Jan :		0.12	0.00	0.00	0.00	0.00	0.00
Feb	1	0.00	0.07	т	0.00	0.00	Т
Feb	2	0.00	0.00	т	0.00	0.05	Т
Feb	3	0.00	0.00	0.00	0.00	0.00	0.00
Feb	4	0.00	0.00	т	0.00	0.00	0.00
Feb	5	0.00	0.00	0.00	0.00	0.00	0.00
Feb	6	0.00	0.00	0.00	0.00	0.00	0.00
Feb	7	T	0.00	0.00	0.00	0.00	0.00
Feb	8	0.00	0.00	0.00	2.02	0.00	T
Feb	9	0.00	т	0.00	0.00	0.00	0.00
Feb		т	0.04	0.00	0.00	т	0.00
Feb	11	т	0.00	0.00	0.00	0.00	т
Feb		0.00	0.00	0.00	0.00	0.00	T
Feb	13	0.00	0.00	0.00	0.00	0.00	0.00
Feb		0.00	0.00	т	0.00	0.00	0.00
Feb		0.00	0.00	т	0.00	0.00	0.00
Feb		0.00	0.01	0.00	0.00	0.00	0.02
Feb		0.00	т	0.00	0.00	0.00	Т
Feb		0.00	0.00	0.00	0.00	0.00	т
Feb		0.00	0.00	0.00	0.00	0.00	0.00
Feb		0.00	0.00	0.00	0.00	0.00	0.00
Feb		0.00	0.00	0.00	0.00	0.00	0.00
Feb		0.01	0.02	0.00	0.12	0.00	0.00
Feb	2020	0.15	0.02	0.18	0.00	0.00	0.01
Feb		0.00	0.04	T	0.00	0.00	0.02
Feb		0.00	0.04	0.00	0.00	0.00	0.00
Feb		T.00	0.00	0.00	0.00	0.00	0.00
				0.00	0.00	0.00	0.00
Feb		0.00	0.00		1,910		0.00
Feb	20	0.00	0.00	0.00	0.00	0.00	0.00

T=Trace M=Missing data

	Hutchie	14/11/	Olivia	Redwood	Morris	Montivideo
Date	Hutchinson Precip.	Willmar Precip.	Precip.	Falls Precip.	Precip.	Precip.
Mar 1	0.00	0.00	0.00	0.00	0.00	0.00
Mar 2	0.00	0.00	0.00	0.00	0.00	0.00
Mar 3	0.00	0.00	0.00	0.00	0.00	0.00
Mar 4	T	T	T	0.00	0.00	0.00
Mar 5	0.00	Ť	Ť	0.00	0.00	0.03
Mar 6	0.00	Ť	Ť	0.00	0.00	0.00
Aar 7	0.00	0.00	0.00	0.00	0.00	0.00
Aar 8	0.36	0.03	0.05	0.51	0.60	0.03
Aar 9	0.00	0.43	0.32	0.00	0.00	0.16
Aar 10	0.00	T	T	0.00	0.24	0.00
Aar 11	0.00	0.00	0.00	0.00	0.00	0.00
Aar 12	0.00	0.00	0.00	0.00	0.00	0.00
Aar 13	0.00	0.00	0.00	0.00	0.00	0.00
Aar 14	0.00	0.00	0.00	0.00	0.00	0.00
Aar 15	0.00	0.00	0.00	0.00	0.00	0.00
Aar 16	0.00	0.00	0.00	0.00	0.00	0.00
Mar 17	0.00	T.	0.00	0.00	0.00	0.00
Aar 18	0.00	Ť	0.00	0.00	0.00	0.00
lar 19	0.00	0.00	0.00	0.00	0.00	0.00
Aar 20	0.00	0.00	0.00	0.00	0.00	0.00
far 21	0.00	0.00	0.00	0.00	0.00	0.00
har 22	0.00	0.00	0.00	0.00	0.00	0.00
	101011	0.00	0.00	0.00	0.00	0.00
far 23	0.00	3.047 A.	0.00	0.00	0.00	0.00
far 24 far 25	0.00	0.00	0.00	0.00	0.00	0.00
100.000	0.00	0.00	0.00	0.00	0.00	0.00
lar 26			0.00	0.00	0.00	0.00
lar 27	0.60	0.00		0.57	0.00	0.63
lar 28	0.00	0.85	0.56	0.00	1.04	0.03 T
Aar 29	0.00	0.00	100000000	0.00	0.00	0.00
Aar 30	0.00	0.00	0.00		0.00	0.00
Aar 31	0.00	0.00	0.00	0.00	1010-001	0.00
pr 1	0.03	0.00	0.00	0.00	0.00	1808380
pr 2	0.00	0.05	0.00	0.00	T	0.02
pr 3	0.26	0.01	0.00	0.00		0.17
pr 4	0.00	0.06	0.00	0.00	0.31	0.00
pr 5	1.15	0.17	0.00	0.00	T	0.00
pr 6	0.04	0.95	0.72	0.83	0.38 T	0.60
pr 7	0.00	0.10	0.05	0.00	0.00	0.10
pr 8	0.00	0.00	0.00	0.00	0.00	0.00
pr 9	0.00	0.00	0.35	1.29	000505	0.000.000
pr 10	0.66	0.00	0.00	0.00	0.00	0.00
pr 11	0.00	0.50	0.49	0.56	0.37	0.00
pr 12	T	0.00	0.00	0.00	0.00	0.15
pr 13	0.00	0.10	T	0.03	0.07	0.00
pr 14	0.32	0.00	0.00	0.08	0.07	0.00
pr 15	0.13	0.28	0.17	0.00	0.10	0.35
pr 16	0.00	0.08	0.24	0.12	0.02	T
pr 17	0.00	0.03	0.02	0.00	T	0.00
pr 18	0.02	0.00	0.00	0.00	0.00	0.00
pr 19	0.03	0.03	T	0.00	Ţ	0.00
pr 20	0.00	T	0.00	0.00	T	T
pr 21	0.06	T	0.00	0.00	0.00	0.00
pr 22	0.00	0.01	0.11	0.11	0.00	0.10
pr 23	0.00	0.00	T	0.00	0.00	0.00
pr 24	0.00	0.00	0.00	0.00	0.00	0.00
pr 25	0.00	0.00	0.00	0.00	0.00	0.00
pr 26	0.01	т	т	0.00	0.00	T
pr 27	0.01	0.01	т	0.00	0.05	0.14
Apr 28	0.00	0.00	0.00	0.00	0.00	0.00
Apr 29	0.00	0.00	0.00	0.00	0.00	0.00
Apr 30	0.00	0.00	0.00	0.00	0.00	0.00

T=Trace M=Missing data

		Willmar	Olivia	Redwood Falls	Morris	Montivideo
Date	Hutchinson Precip.	Precip.	Precip.	Precip.	Precip.	Precip.
_	and the second s			0.00	0.00	0.00
May 1	0.00	0.00	0.00	0.00	0.00	0.00
May 2	0.00	0.00	0.00	0.00	0.00	0.00 T
Мау З	0.02	0.04	T	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0.08	t i
May 4	0.43	0.37		0.05	1700 Ger	0.51
May 5	0.20	0.20	0.48	0.22	0.60	0.63
May 6	0.22	0.73	0.37	0.25	0.44	0.63
May 7	0.15	0.30	0.15	0.22	0.64	
May 8	0.00	0.18	0.08	0.18	0.20	0.00
May 9	0.48	0.00	0.00	0.00	T	0.00
May 10	0.62	0.66	Т	0.00	0.42	0.17
May 11	0.72	0.60	0.72	0.34	0.26	0.45
May 12	0.40	0.01	0.04	0.00	T	0.00
May 13	0.01	0.42	0.33	0.11	0.233.244	0.00
May 14	0.10	т	0.02	0.00	0.00	0.00
May 15	0.23	0.22	0.19	0.00	0.17	0.42
May 16	0.21	0.09	0.15	0.24	0.62	0.52
May 17	0.00	0.11	0.07	0.14	0.09	0.15
May 18	0.01	0.00	0.00	0.00	0.00	0.00
May 19	0.00	0.05	T	0.00	0.00	T
May 20	0.30	т	0.00	0.00	0.00	0.00
May 21	0.00	0.06	0.40	0.81	0.00	0.07
May 22	0.26	0.00	0.00	0.00	T	0.01
May 23	0.00	0.20	0.43	1.20	Т	0.13
May 24	0.00	0.00	0.00	0.00	0.00	0.00
May 25	0.00	т	0.00	0.00	0.00	T
May 26	т	0.00	0.00	0.00	0.00	0.00
May 27	0.00	0.02	0.00	0.00	т	0.00
May 28	0.00	0.00	0.00	0.00	0.00	Т
May 29	0.00	0.00	0.00	0.00	0.00	0.03
May 30	T	0.00	0.00	0.00	0.00	0.00
May 31	0.06	т	0.00	0.00	0.08	0.00
Jun 1	0.20	т	0.34	0.39	т	0.00
Jun 2	0.00	0.29	0.00	0.00	0.00	0.07
Jun 3	0.22	0.00	0.00	0.00	0.00	0.00
Jun 4	0.08	0.00	0.00	0.00	0.00	0.00
Jun 5	0.15	0.66	0.29	0.38	0.57	0.33
Jun 6	0.05	0.37	0.39	0.00	0.05	0.32
Jun 7	0.22	0.00	0.00	0.00	0.00	0.00
Jun 8	0.94	0.17	1.30	0.22	0.36	0.31
Jun 9	1.13	0.32	0.44	0.19	0.32	0.40
Jun 10	0.15	1.65	0.00	0.10	0.26	0.00
Jun 11	0.01	0.01	0.00	0.20	0.00	T
Jun 12	0.00	0.00	0.00	0.00	0.00	0.00
Jun 13	0.00	0.00	0.00	0.00	0.00	0.00
Jun 14	0.00	0.00	0.00	0.00	0.00	0.00
Jun 15	0.03	0.00	0.00	0.00	0.00	0.00
Jun 16	0.00	T	0.00	0.00	0.00	0.00
Jun 17	0.00	0.00	0.00	0.00	0.00	0.00
Jun 18	0.14	0.00	0.62	0.55	0.00	0.00
Jun 19	0.13	0.29	0.08	0.18	0.01	0.83
Jun 20	0.00	0.00	0.00	0.00	0.07	0.00
Jun 21	0.00	0.00	0.00	0.00	T	0.00
Jun 22	0.68	0.00	0.00	0.03	0.00	0.00
Jun 23	0.00	0.70	1.57	0.06	0.65	0.76
Jun 24	0.00	0.00	0.00	0.00	т	0.12
Jun 25	0.00	0.00	0.00	0.00	0.00	0.00
Jun 26	0.00	0.00	0.00	0.42	0.00	0.00
Jun 27	0.02	т	0.00	0.09	0.00	T
Jun 28	0.66	0.08	0.56	0.54	0.39	0.15
Jun 29	0.00	0.39	0.00	0.06	0.26	0.47
Jun 30	0.00	0.05	0.00	0.08	0.37	0.08

T=Trace M=Missing data

- 0.4	Hutchinson	Willmar	Olivia	Redwood Falls	Morris	Montivideo
Date	Precip.	Precip.	Precip.	Precip.	Precip.	Precip.
Jul 1	0.00	0.00	0.00	0.00	0.00	0.00
Jul 2	0.37	0.00	0.00	0.33	0.02	T.00
Jul 3	0.00	1.30		10.000	10000	
Jul 4	0.00	0.00	0.34	0.00	0.16	0.52
Jul 5			0.00	0.00	0.00	0.00
	0.09	0.00	0.00	0.00	0.00	0.00
	0.00	T	0.00	0.00	0.02	T
Jul 7	2.02	0.00	0.00	0.00	0.00	0.00
Jul 8	0.00	2.00	0.80	1.16	1.81	0.43
Jul 9	0.00	0.05	0.00	0.00	0.01	T
Jul 10	0.00	т	0.00	0.00	0.02	0.00
Jul 11	0.00	0.00	0.00	0.00	0.00	0.00
lul 12	0.00	0.00	0.05	0.00	0.00	0.00
Jul 13	0.00	0.00	0.00	0.00	0.00	0.00
ul 14	0.00	0.00	0.00	0.00	0.00	0.00
Jul 15	0.11	0.00	0.00	0.00	0.00	0.00
lul 16	0.00	0.14	0.15	0.16	1.37	0.15
lul 17	0.00	0.00	0.00	0.00	0.00	0.00
lul 18	0.00	т	0.00	0.00	т	0.00
lul 19	0.11	0.01	0.00	0.00	0.03	т
Jul 20	0.00	т	0.00	0.00	0.00	0.00
ul 21	0.00	т	0.15	0.36	0.00	0.16
Jul 22	0.12	0.00	0.00	0.00	0.00	0.00
lul 23	0.00	0.16	0.25	0.30	0.34	0.30
lul 24	0.00	0.00	0.00	0.00	0.00	0.00
lul 25	0.21	T	0.00	0.00	0.00	0.00
ul 26	0.00	0.00	0.00	0.00	0.10	0.00
lul 27	0.70	0.00	0.00	0.00	0.00	0.00
lul 28	0.09	1.24	0.24	0.02	0.77	0.22
lul 29	0.00	0.10	0.00	0.02	0.07	0.00
Jul 30	0.36	0.00	0.15	0.00	0.01	0.00
ul 31	0.00	0.53	0.00	0.00	0.20	0.75
Aug 1	0.00	0.00	0.00	0.00	0.00	0.00
Aug 2	0.00	0.00	0.00	0.00	0.00	0.00
Aug 3	0.00	0.00	0.10	0.00	0.00	0.00
Aug 4	0.00	0.00	0.00	0.00	0.10	0.00
Aug 5	0.00	0.00	0.02	0.00	0.00	0.00
Aug 6	т	0.00	0.00	0.00	0.03	0.00
Aug 7	0.00	т	0.00	0.00	0.00	0.00
Aug 8	1.50	0.00	0.00	0.00	0.00	0.00
ug 9	0.24	1.92	2.20	1.40	1.62	1.20
Aug 10	0.00	0.16	0.00	0.00	0.08	0.05
Aug 11	0.00	0.00	0.00	0.00	0.00	0.00
ug 12	0.27	0.00	0.43	0.00	Т	0.00
Aug 13	0.00	0.18	0.00	0.00	1.14	0.30
Aug 14	0.04	0.00	0.00	0.00	0.00	0.00
Aug 15	0.00	0.00	0.09	0.00	T	0.00
Aug 16	0.00	T.	0.00	0.30	Ť	0.00
Aug 17	0.00	0.00	0.00	0.00	0.00	0.00
Aug 18	0.30	0.10	0.11	0.07	0.02	0.24
Aug 19	0.00	0.00	0.00	0.06	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
Aug 20	2.755.026.0	2010 C C C C C C C C C C C C C C C C C C	0.00	0.00	0.00 T	0.12
Jug 21	2.77	0.00	Contraction in the second s	0.00	0.00	0.00
ug 22	0.04	T	0.00	12.5 - 5 - 5 - 5	0.00	0.00
ug 23	0.06	0.06	0.00	0.00	0.02	0.00
Aug 24	0.00	0.00	0.17	0.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Aug 25	0.00	0.00	0.00	0.00	0.00	0.00
Aug 26	0.00	0.00	0.01	0.00	0.00	0.00
Aug 27	0.11	0.00	0.00	0.00	0.00	0.00
Aug 28	0.00	0.90	0.61	0.00	1.10	0.25
Aug 29	0.56	0.05	0.00	0.00	0.00	0.00
Aug 30	0.33	0.10	1.15	0.00	0.36	0.80
Aug 31	0.00	0.81	0.00	3.30	0.42	0.97

T=Trace M=Missing data

	Hutchinson	Willmar	Olivia	Redwood Falls	Morris	Montivide
Date	Precip.	Precip.	Precip.	Precip.	Precip.	Precip.
Sep 1	0.00	0.00	0.00	0.00	0.00	0.00
Sep 2	T	0.28	0.00	0.00	0.02	T
Sep 3	0.00	0.00	0.00	0.00	0.00	0.00
Sep 4	0.11	0.68	0.51	0.00	1.17	0.36
Sep 5	0.30	0.02	0.05	0.00	0.00	0.00
Sep 6	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
				0.00	0.16	0.00
Sep 8	0.00	0.00	0.00		27.20.202	0.00
Sep 9	0.00	0.01	0.00	0.00	0.01	the second se
Sep 10	0.00	0.00	0.00	0.00	0.00	0.00
Sep 11	0.00	0.00	0.00	0.00	0.00	0.14
Sep 12	1.45	0.43	1.25	0.40	0.41	0.00
Sep 13	т	0.00	Т	0.00	0.13	0.00
Sep 14	0.00	0.00	т	0.00	0.02	0.00
Sep 15	0.00	0.00	0.00	0.00	0.00	0.00
Sep 16	0.00	0.00	0.00	0.00	0.00	0.00
Sep 17	0.00	0.00	0.00	0.00	0.01	0.00
Sep 18	0.00	0.00	0.00	0.00	0.00	0.00
Sep 19	0.30	0.71	0.45	0.38	0.10	0.48
Sep 20	0.00	0.00	0.00	0.00	0.00	0.03
	0.00	0.00	0.00	0.00	0.00	0.00
Sep 21		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00	0.00	0.00	0.00
Sep 22	0.00	0.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2022 2020	0.00
Sep 23	0.00	0.00	0.00	0.00	0.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sep 24	0.00	0.00	0.00	0.00	0.00	0.00
Sep 25	0.00	0.00	0.00	0.00	0.01	0.00
Sep 26	0.22	0.20	0,19	0.13	0.49	0.17
Sep 27	0.00	0.00	0.00	0.00	0.02	0.00
Sep 28	0.00	0.00	0.00	0.00	0.00	0.00
Sep 29	0.00	0.00	0.00	0.00	0.00	0.00
Sep 30	0.00	0.00	0.00	0.00	0.00	0.00
Oct 1	0.00	0.00	0.00	0.00	0.00	0.00
Oct 2	0.13	0.03	0.15	0.37	0.00	0.10
Oct 3	0.00	0.00	0.00	0.00	0.00	0.00
Oct 4	0.00	0.00	0.00	0.00	0.00	0.00
Oct 5	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
		10 Yorki - 1		0.00	0.00	0.00
Oct 7	80.0	0.00	T		0.00	0.00
Oct 8	0.18	0.15	0.08	0.08		0.000
Oct 9	0.00	0.00	0.00	0.00	0.00	0.00
Oct 10	0.00	0.00	0.00	0.00	0.00	0.00
Oct 11	0.00	0.00	0.00	0.00	0.00	0.00
Oct 12	0.00	0.00	0.00	0.00	0.00	0.00
Oct 13	0.00	0.05	0.00	0.00	0.05	0.00
Oct 14	0.00	0.00	0.00	0.00	0.00	0.00
Oct 15	0.00	0.00	0.00	0.00	0.00	0.00
Oct 16	0.00	0.00	0.00	0.00	0.00	0.00
Oct 17	0.00	0.00	0.00	0.00	. 0.00	0.00
Oct 18	т	0.00	0.00	0.00	0.00	0.00
Oct 19	0.00	0.13	0.00	0.05	0.00	0.08
Oct 20	0.00	0.00	0.00	0.00	+ 0.00	0.00
Oct 21	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
Oct 22	10 Bar 20 Bar	GD 1576597			0.00	0.00
Oct 23	0.00	0.00	0.00	0.00		International Contraction Contraction
Oct 24	0.00	0.00	0.00	0.00	0.00	0.00
Oct 25	0.00	0.00	0.00	0.00	0.00	0.00
Oct 26	0.00	0.00	0.00	0.00	0.00	0.00
Oct 27	0.00	0.00	0.00	0.00	0.00 }	0.00
Oct 28	0.00	0.00	0.00	0.00	0.00	0.00
Oct 29	0.00	0.00	0.00	0.00	0.00	0.00
Oct 30	0.18	0.36	0.66	0.02	0.00	0.20
Oct 31	0.00	0.00	0.00	0.00	0.00	0.00

T=Trace M=Missing data A

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1	T			Redwood		1
Date	Hutchinson Precip.	Willmar Precip.	Olivia Precip.	Falls Precip.	Morris Precip.	Montivideo Precip.
Nov 1	0.00	0.00	0.00	0.00	0.00	0.00
Nov 2	0.00	0.00	0.00	0.00	0.00	0.00
Nov 3	0.00	0.00	0.00	0.00	0.00	0.00
Nov 4	0.00	0.00	0.00	0.00	0.00	0.00
Nov 5	0.00	0.00	0.00	0.00	0.00	0.00
Nov 6	0.00	0.00	0.00	0.00	0.00	0.00
Nov 7	0.00	0.00	0.00	0.00	0.00	0.00
Nov 8	0.00	0.00	0.00	0.00	0.00	0.00
Nov 9	0.00	0.00	0.00	0.00	0.00	0.00
Nov 10	0.00	0.00	0.00	0.00	0.00	0.00
Nov 11	T.00	0.00	0.00	0.00	0.00	0.00
Nov 12	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
Nov 13	0.00	0.00	0.00	0.00	0.00	0.00
Nov 14	0.00	0.00	0.00	0.00	0.00	0.00
Nov 15	11 (19) (19) (19)	0.00	0.00	0.00	0.00	0.00
Nov 16	0.00		15 25200	0.00	0.00	0.00
Nov 17	0.00	0.00	0.00	0.00	0.00	0.00
Nov 18	0.00	0.00	0.00	0.00	0.00	0.00
Nov 19	0.00	0.00	0.00	0.00	0.00	0.00
Nov 20	0.07	0.06	1	0.00	0.00	0.00
Nov 21	0.00	0.00	0.00	1000000	1.1.2.2.3.1.1	0.05
Nov 22	0.05	0.13	0.22	0.00	0.00	0.00
Nov 23	0.00	0.00	0.00	0.00	0.00	0.00
Nov 24	0.15	0.00	0.00	0.00	0.00	
Nov 25	0.00	0.00	0.00	0.00	0.00	0.00
Nov 26	0.00	0.00	0.00	0.00	0.00	0.00
Nov 27	0.00	0.00	0.00	0.00	0.00	0.00
Nov 28	0.00	0.00	0.00	0.00		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Nov 29	0.00	0.00	0.00	0.00	0.00	0.00
Nov 30	0.00	0.00	0.00	0.00	0.00	0.00
Dec 1	0.00	0.00	0.00	0.00	0.00	0.00
Dec 2	0.00	0.00	0.00	0.00	0.00	0.00
Dec 3	0.00	0.00	0.00	0.00	0.00	0.00
Dec 4	0.00	0.00	0.00	0.00	0.00	0.00
Dec 5	0.00	0.00	0.00	0.00	0.00	0.00
Dec 6	0.00	0.00	0.00	0.00	0.00	0.00
Dec 7	0.00	0.00	0.00	0.00	0.00	0.00
Dec 8	0.00	0.00	0.00	0.00	0.00	0.00
Dec 9	0.00	0.00	0.00	0.00	0.00	0.00
Dec 10	0.00	0.00	0.00	0.00	0.00	0.00
Dec 11	0.00	0.00	0.00	0.00	0.00	0.00
Dec 12	0.00	0.00	0.00	0.00	0.00	0.00
Dec 13	0.00	0.00	0.00	0.00	0.00	0.00
Dec 14	0.00	0.00	0.00	0.00	0.00	0.00
Dec 15	0.00	0.15	0.13	0.00	0.15	0.00
Dec 16	0.02	0.00	т	0.04	0.00	0.00
Dec 17	0.00	0.00	0.00	0.02	0.00	0.00
Dec 18	0.00	0.00	0.00	0.00	0.00	0.00
Dec 19	0.00	0.00	0.00	0.00	0.15	0.00
Dec 20	0.02	0.00	0.00	0.00	0.00	0.00
Dec 21	0.00	0.00	0.00	0.00	0.00	0.00
Dec 22	0.00	0.00	0.00	0.00	0.00	0.00
Dec 23	0.00	0.00	0.00	0.02	0.00	0.00
Dec 24	0.08	0.06	0.00	0.00	0.02	0.00
Dec 25	0.00	0.00	0.00	0.00	0.00	0.00
Dec 26	0.00	0.00	т	0.00	0.00	0.00
Dec 27	0.02	0.01	0.00	0.00	т	0.00
Dec 28	0.00	0.00	0.00	0.00	0.00	0.00
Dec 29	0.00	0.00	0.00	0.00	0.00	0.00
Dec 30	0.00	0.00	0.00	0.00	0.00	0.00
Dec 31	0.00	0.00	0.00	0.00	0.00	0.00

1999 LEAF SPOT SUMMARY

- 3

DATE	CLARA CITY	2 DAY TOTAL	# OF HRS	AVG TMP @ > 87% RH	OLIVIA	2 DAY TOTAL	# OF HRS	AVG TMP @ > 87% RH	SACRD HEART	2 DAY TOTAL	# OF HRS	AVG TMP @ > 87% RH	BIRD ISLAND	2 DAY TOTAL	# OF HRS	AVG TMP @> 87% RH
06/26/99	1		4	70	2	-	8	72	0		2	70			_	
06/27/99	1	2	8	64	3	5	12	64	1	1	5	64				
06/28/99	0	0	20	59	0	0	18	60	0	0	19	60				
06/29/99	0	0	10	52	0	0	10	53	0	0	10	53	0	0	11	
06/30/99	0	0	14	60	0	0	14	61	0	0	15	61	0	0	16	61
07/01/99	0	0	13	58	0	0	13	60	0	0	16	60	0	0	13	59
07/02/99	1	1	15	62	3	3	14	63	3	3	15	63		0		
07/03/99	6	7	20	75	5	8	17	75	5	8	17	75	4	4	14	73
07/04/99	4	10	10	77	5	10	9	79	4	9	10	78	4	8	14	73
07/05/99	1	5	4	77	1	6	1	77	1	5	2	78		4		
07/06/99	0	1	11	59	0	1	6	58	0	1	8	59	0	0	15	
07/07/99	0	0	10	61	0	0	6	60	0	0	10	62	5	5	17	72
07/08/99	6	6	21	71	4	4	15	71	6	6	20	72	5	10	17	72
07/09/99	1	7	14	64	0	4	9	60	0	6	11	61		5		
07/10/99	3	4	14	64	0	0	10	55	0	0	12	56	0	0	12	55
07/11/99	3	6	14	64	0	0	10	58	0	0	12	58	0	0	12	57
07/12/99		- V	1.1	04	0	0	8	58	0	0	9	60	0	0	10	59
07/13/99	4	4	13	71	1	1	5	66	2	2	8	70	3	3	14	68
07/14/99	3	7	11	74	i	2	5	75	2	4	3	80	4	7	14	74
07/15/99	3	6	13	70	3	4	10	75	4	6	13	71	3	7	10	73
07/16/99	0	3	12	58	3	6	11	71	0	4	13	62	5	8	17	71
07/17/99	6	6	24	68	0	3	9	58	6	6	24	69	0	5	13	62
07/18/99	4	10	13	71	6	6	23	69	3	9	11	75	6	6	24	68
07/19/99	4	8	16	69	3	9	14	69	5	8	18	70	3	9	13	69
07/20/99	6	10	24	70	6	9	24	70	6	11	24	70	6	9	23	69
07/21/99	4	10	17	68	4	10	15	69	4	10	17	68		6		-
07/22/99	7	11	21	75	4	8	16	71	5	9	18	73		0		
07/23/99	4	11	16	72	4	8	15	74	4	9	15	73		0		-
07/24/99	4	8	15	74	4	8	14	76	5	9	15	76		0		
07/25/99	7	11	19	78	3	7	11	75	6	11	14	78		0		
07/26/99	3	10	12	67	3	6	12	71	3	9	12	70	3	3	12	71
07/27/99	3	6	16	63	3	6	14	65	4	7	15	64	4	7	16	64
07/28/99	4	7	16	70	4	7	14	70	4	8	14	70	4	8	15	68
07/29/99	4	8	12	75	7	11	13	79	7	11	10	81	7	11	16	79
07/30/99	6	10	19	75	6	13	18	76	6	13	18	76	6	13	19	76
07/31/99	3	9	15	63	3	9	13	66	3	9	13	66	3	9	13	65
08/01/99	0	3	14	59	0	3	13	60	0	3	13	60	0	3	13	59
08/02/99	0	0	13	57	0	0	12	57	0	0	12	56	0	0	13	56
08/03/99	1	1	14	62	3	3	14	64	3	3	13	65	5	5	21	66

DATE	CLARA CITY	2 DAY TOTAL	# OF HRS	AVG TMP @ > 87% RH	OLIVIA	2 DAY TOTAL	# OF HRS	AVG TMP @ > 87% RH	SACRD HEART	2 DAY TOTAL	# OF HRS	AVG TMP @ > 87% RH	BIRD ISLAND	2 DAY TOTAL	# OF HRS	AVG TMP @ > 87% RH
08/04/99	0	1	14	59	0	3	12	59	0	3	12	59	0	5	15	60
08/05/99	1	1	14	62	0	0	10	59	0	0	10	58	3	3	16	63
08/06/99	3	4	14	65	3	3	11	66	3	3	11	64		3		
08/07/99	4	7	17	66	4	7	16	66	3	6	14	66		0		
08/08/99	0	4	14	57	0	4	12	59	0	3	13	59		0		
08/09/99	5	5	20	66	5	5	21	66	5	5	20	67		0		
08/10/99	3	8	14	64	3	8	14	66	3	8	14	66		0		
08/11/99	4	7	15	66	4	7	15	66	4	7	15	67		0	_	
08/12/99	6	10	24	69	6	10	24	70	6	10	22	70	6	6	24	69
08/13/99	0	6	15	58	0	6	15	59	0	6	15	59	0	6	19	59
08/14/99	0	0	15	56	0	0	14	55	0	0	13	53	0	0	16	54
08/15/99	4	4	16	65	4	4	17	65	4	4	15	65	6	6	24	66
08/16/99	2	6	8	67	3	7	12	69	2	6	10	66	3	9	14	66
08/17/99		2			0	3	12	61	0	2	14	61	0	3	15	60
08/18/99	4	4	15	65	4	4	17	67	4	4	16	66	6	6	24	68
08/19/99	0	4	17	59	0	4	18	60	1	5	18	61	5	11	24	62
08/20/99	2	2	16	62	0	0	15	61	2	3	16	62	5	10	22	63
08/21/99	6	8	22	69	6	6	23	70	6	8	21	70	6	11	24	68
08/22/99	4	10	18	69	4	10	17	70	6	12	20	71	6	12	24	71
08/23/99	4	8	18	65	3	7	14	66	4	10	15	66	6	12	24	67
08/24/99	3	7	16	63	5	8	19	64	5	9	20	65	6	12	24	66
08/25/99	2	5	16	62	3	8	16	63	0	5	16	61	6	12	24	67
08/26/99	4	6	15	68	4	7	15	68	3	3	14	69	4	10		
08/27/99		8	15	69	3	7	13	70	3	6	14	69		4		
08/28/99	5	9	21	67	4	7	17	69	5	8	19	68		0		
08/29/99	0	5	14	60	0	4	6	61	0	5	11	60		0		
08/30/99	2	2	24	60	3	3	22	61	3	3	22	61	2	2	24	60
08/31/99	4	6	16	66	2	5	11	63	3	6	13	65	6	8	23	68
09/01/99	4	8	15	67	4	6	16	70	3	6	12	66	6	12	24	71
09/02/99		9	13	57	5	9	18	72	6	9	20	71	7	13	24	75
09/03/99	1	10	20	70	4	9	15	71	3	9	13	68	6	13	19	72
09/04/99		11	22	68	6	10	23	69	5	8	21	68	3	9	24	68
09/05/99		6	15	57	0	6	15	58	0	5	14	57	2	5	24	60
09/06/99		0	15	53	0	0	13	53	0	0	10	51	0	2	16	53
09/07/99		3	15	63	2	2	10	64	1	1	7	63	0	0	7	62
09/08/99		3	14	53	0	2	9	54	0	1	7	54	-	0	-	
09/09/99		0	12	50	0	0	6	48	0	0	4	48		0		

and the second of the test of the second second