

Table 1. Comparison of 2021 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Three Years of Data (2018-2020)

	Rec/T (lbs)		Rec/A (lbs)		Sugar %		Purity (%)		Yield (T/A)		Aphanomyces Root Rating**		Cercospora Leaf Spot**		Rhizoctonia Root Rating**		Emergence (%)		Revenue per Ton*	Revenue per Acre*
	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	3 yr avg	% of mean	% of mean	% of mean

2021 Fully Approved Varieties - Three Years of Data (% of Mean is of Fully Approved Mean)

Beta 9780		282.8	101.9	9596.4	102.6	16.6	102.2	91.2	100.0	34.1	100.8	4.1	102.0	4.1	102.8	5.1	118.6	74.7	98.3	103.7	104.6	9780
Beta 9810		278.2	100.3	9281.8	99.2	16.4	101.0	90.7	99.5	33.6	99.4	3.2	79.1	4.1	103.2	4.2	97.7	76.5	100.8	99.9	99.3	9810
Crystal M821		279.2	100.6	8994.5	96.2	16.4	100.8	91.1	99.9	32.3	95.5	3.5	86.2	3.8	95.2	4.9	114.0	77.3	101.8	101.0	96.5	M821
Crystal M837		282.2	101.7	9383.4	100.3	16.5	101.6	91.1	99.9	33.4	98.8	4.0	99.5	4.0	99.8	4.7	109.3	73.8	97.3	102.2	101.0	M837
SV 881		274.3	98.9	9369.9	100.2	16.0	98.3	91.5	100.4	34.2	101.1	4.3	108.2	4.0	99.8	4.0	93.0	75.4	99.4	97.1	98.2	881
SV 883	RHC	274.7	99.0	9310.5	99.5	16.1	98.8	91.2	100.0	33.9	100.3	4.3	107.0	4.2	106.6	3.8	88.4	77.1	101.6	97.5	97.8	883
SV RR862	RHC	274.0	98.8	9472.2	101.3	16.0	98.7	91.4	100.2	34.6	102.3	4.4	109.5	3.8	94.8	3.8	88.4	76.7	101.0	96.8	99.1	862
SV RR863		273.8	98.7	9428.5	100.8	16.0	98.6	91.3	100.1	34.4	101.8	4.4	108.6	3.9	97.7	3.9	90.7	75.8	99.9	96.5	98.3	863

Mean of Fully Approved: **277.4 100.0 9354.7 100.0 16.3 100.0 91.2 100.0 33.8 100.0 4.0 100.0 4.0 100.0 4.3 100.0 75.9 100.0 100.0 100.0 Mean**

2021 Specialty Approved Varieties - Three Years of Data (% of mean is of Fully Approved Mean)

Hilleshog 2219	RHC	281.8	101.6	8480.8	90.7	16.5	101.2	91.3	100.2	30.2	89.4	4.9	121.1	4.1	102.8	3.4	79.1	72.8	95.9	102.8	91.8	2219
Hilleshog 9739	RHC	266.2	96.0	8327.6	89.0	15.6	96.1	91.1	99.9	31.2	92.1	4.9	122.8	4.1	104.5	3.4	79.1	74.8	98.6	91.1	84.1	9739

2020 Previously Approved Varieties Not Making 2021 Approval (Last Year of Sales) - Three Years of Data (% of mean is of Fully Approved Mean)

Crystal M509		262.7	94.7	10075.5	107.7	15.6	95.7	90.8	99.6	38.6	114.1	4.2	103.6	4.2	105.3	4.6	107.0	79.7	105.0	90.3	103.1	M509
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*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 25, 2020 for the 1st 2020 crop payment estimate.

** Lower numbers are better for all disease nursery ratings.

Table 2. Comparison of 2021 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Two Years of Data (2019-2020)

Specialty	Rec/T (lbs)		Rec/A (lbs)		Sugar %		Purity (%)		Yield (T/A)		Aphanomyces Root Rating**		Cercospora Leaf Spot**		Rhizoctonia Root Rating**		Emergence (%)		Revenue per Ton*	Revenue per Acre*		
	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	2 yr avg	% of mean	% of mean	% of mean		
2021 Fully Approved Varieties - Two Years of Data (% of Mean is of Fully Approved Mean)																						
Beta 9780	290.0	102.0	9482.8	101.8	17.0	101.7	91.5	100.0	32.8	99.9	4.1	98.6	4.1	102.8	5.3	123.3	76.7	98.3	103.8	103.8	9780	
Beta 9810	285.2	100.3	9237.0	99.2	16.8	100.8	91.1	99.6	32.7	99.6	3.4	82.7	4.1	102.8	4.2	97.7	78.3	100.3	100.4	100.1	9810	
Crystal M821	286.3	100.6	9015.8	96.8	16.8	101.0	91.2	99.8	31.6	96.4	3.7	88.8	3.8	95.2	5.4	125.6	78.7	100.8	100.7	97.0	M821	
Crystal M837	289.9	101.9	9178.7	98.5	17.0	101.7	91.4	99.9	31.8	96.8	4.1	100.4	4.0	100.2	4.9	114.0	76.9	98.5	103.5	100.4	M837	
SV 881	280.7	98.7	9301.4	99.9	16.4	98.3	91.7	100.3	33.1	100.9	4.4	107.1	4.0	100.2	3.8	88.4	78.0	99.9	97.2	98.1	881	
SV 883	RHC	280.0	98.4	9267.1	99.5	16.5	98.7	91.4	99.9	33.1	100.8	4.4	105.9	4.2	105.3	3.6	83.7	79.0	101.2	97.6	98.5	883
SV RR862	RHC	281.7	99.0	9482.4	101.8	16.5	98.9	91.6	100.1	33.6	102.5	4.5	110.1	3.7	94.5	3.5	81.4	77.6	99.5	98.2	100.5	862
SV RR863		282.0	99.1	9554.9	102.6	16.5	98.8	91.7	100.3	33.8	103.1	4.4	106.5	3.9	99.0	3.7	86.0	79.3	101.6	98.4	101.4	863
Mean of Fully Approved:	284.5	100.0	9315.0	100.0	16.7	100.0	91.4	100.0	32.8	100.0	4.1	100.0	3.9	100.0	4.3	100.0	78.1	100.0	100.0	100.0	Mean	
2021 Test Market Varieties for Limited Sales - Two Years of Data (% of mean is of Fully Approved Mean)																						
Beta 9935		296.4	104.2	9279.5	99.6	17.3	103.8	91.5	100.1	31.5	96.0	4.4	106.5	3.9	98.3	4.6	107.0	79.5	101.8	107.3	103.1	9935
Crystal M977		283.0	99.5	9936.7	106.7	16.4	98.6	92.2	100.8	35.2	107.2	3.9	95.5	4.3	108.5	3.2	74.4	76.8	98.4	98.5	105.7	M977
Hilleshog 2327		282.3	99.2	9667.9	103.8	16.5	99.0	91.9	100.5	34.2	104.2	4.4	107.7	4.0	100.9	3.8	88.4	76.4	97.9	98.9	103.1	2327
SV 894		278.5	97.9	9445.0	101.4	16.3	98.0	91.5	100.1	33.9	103.2	4.4	107.1	4.2	106.6	3.5	81.4	77.2	98.9	95.5	98.7	894
2021 Specialty Approved Varieties - Two Years of Data (% of mean is of Fully Approved Mean)																						
Beta 9986	CLS	276.3	97.1	9573.1	102.8	16.2	97.2	91.6	100.2	34.5	105.2	4.2	101.0	2.0	51.4	4.3	100.0	81.9	104.9	94.6	99.5	9986
Beta 9952	CLS	277.3	97.5	8849.8	95.0	16.3	97.5	91.5	100.1	31.9	97.2	4.1	100.4	2.9	73.6	2.9	67.4	75.3	96.5	95.5	92.9	9952
Crystal M951	CLS	273.5	96.1	10017.4	107.5	16.0	96.2	91.5	100.0	36.5	111.1	4.9	118.0	2.2	54.6	4.7	109.3	78.5	100.6	92.0	102.4	M951
Hilleshog 9739	RHC	272.7	95.9	8308.7	89.2	16.1	96.3	91.3	99.8	30.4	92.6	4.9	119.2	4.1	104.7	3.0	69.8	75.6	96.8	92.7	85.9	9739
Hilleshog 2219	RHC	291.1	102.3	8457.1	90.8	16.9	101.6	91.7	100.3	29.1	88.7	4.8	116.8	4.1	102.8	3.1	72.1	72.2	92.5	103.1	91.5	2219
2020 Previously Approved Varieties Not Making 2021 Approval (Last Year of Sales) - Two Years of Data (% of mean is of Fully Approved Mean)																						
Crystal M509		269.1	94.6	9988.9	107.2	15.9	95.6	91.1	99.6	37.4	113.8	4.3	104.6	4.2	106.6	4.7	109.3	80.3	102.9	89.8	102.4	M509

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 25, 2020 for the 1st 2020 crop payment estimate.

** Lower numbers are better for all disease nursery ratings.

Table 3. Comparison of 2021 Fully Approved Varieties to Test Market and Specialty Approved Varieties - One Year Data (2020)

Specialty	Rec/T (lbs)		Rec/A (lbs)		Sugar %		Purity (%)		Yield (T/A)		Aphanomyces Root Rating**		Cercospora Leaf Spot**		Rhizoctonia Root Rating**		Emergence (%)		Revenue per Ton*	Revenue per Acre*		
	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	1 yr avg	% of mean	% of mean	% of mean		
2021 Fully Approved Varieties - One Year of Data (% of Mean is of Fully Approved Mean)																						
Beta 9780	286.5	101.3	10104.4	101.6	17.1	101.7	90.0	99.7	35.4	100.5	4.1	98.4	4.1	101.9	4.7	108.0	73.0	95.0	101.8	102.4	9780	
Beta 9810	281.3	99.5	9828.0	98.8	16.8	99.9	89.9	99.7	35.0	99.4	3.5	82.8	4.0	99.4	4.3	98.9	76.9	100.1	98.0	97.5	9810	
Crystal M821	283.9	100.4	9530.9	95.9	17.0	100.7	90.0	99.8	33.9	96.1	3.8	91.2	3.8	94.4	4.6	105.7	75.9	98.7	100.6	96.9	M821	
Crystal M837	285.3	100.9	9973.5	100.3	17.0	101.1	90.0	99.8	35.1	99.5	4.4	105.5	4.0	99.4	4.7	108.0	77.5	100.9	100.6	100.3	M837	
SV 881	280.8	99.3	9862.9	99.2	16.7	99.1	90.5	100.3	35.2	99.8	4.3	101.9	4.2	104.3	4.3	98.9	76.1	99.0	98.5	98.5	881	
SV 883	RHC	280.3	99.1	9930.5	99.9	16.7	99.2	90.2	100.0	35.4	100.4	4.3	101.9	4.3	106.8	4.1	94.3	81.1	105.6	97.7	98.2	883
SV RR862	RHC	281.4	99.5	10238.1	103.0	16.7	99.0	90.6	100.4	36.4	103.3	4.6	110.3	3.7	91.9	4.0	92.0	74.5	97.0	98.7	102.1	862
SV RR863		282.2	99.8	10079.6	101.4	16.8	99.5	90.5	100.3	35.6	101.0	4.5	107.9	4.1	101.9	4.1	94.3	79.6	103.6	99.6	100.8	863
Mean of Fully Approved:	282.7	100.0	9943.5	100.0	16.9	100.0	90.2	100.0	35.2	100.0	4.2	100.0	4.0	100.0	4.4	100.0	76.8	100.0	100.0	100.0	Mean	
2021 Test Market Varieties - One Year of Data (% of mean is of Fully Approved Mean)																						
Beta 9935	289.9	102.5	9833.5	98.9	17.3	102.7	90.0	99.8	33.9	96.3	4.5	106.7	4.0	99.4	4.5	103.4	77.5	100.8	104.1	100.3	9935	
Beta 9098	283.7	100.3	10419.8	104.8	16.9	100.2	90.3	100.1	37.0	104.9	4.9	116.3	2.7	67.1	4.4	101.1	76.7	99.9	100.3	105.4	9098	
Crystal M977	278.5	98.5	10514.5	105.7	16.5	97.8	90.8	100.7	37.9	107.5	4.0	96.0	4.6	114.3	3.8	87.4	77.3	100.6	96.9	104.3	M977	
Crystal M002	281.2	99.5	10322.7	103.8	16.7	99.3	90.3	100.1	36.7	104.2	4.1	98.4	2.1	52.2	4.5	103.4	80.3	104.6	97.9	102.1	M002	
Hilleshog 2327	282.1	99.8	10158.4	102.2	16.7	99.2	90.7	100.5	36.0	102.3	4.2	100.7	4.2	104.3	4.1	94.3	75.2	97.9	99.0	101.3	2327	
SV 894	276.9	97.9	10033.2	100.9	16.5	97.9	90.4	100.2	36.2	102.8	4.6	109.1	4.4	109.3	4.0	92.0	77.2	100.5	95.9	98.6	894	
2021 Specialty Approved Varieties - One Year of Data (% of mean is of Fully Approved Mean)																						
Beta 9986	CLS	272.4	96.3	10197.7	102.6	16.3	96.7	90.1	99.9	37.3	105.8	4.3	103.1	2.3	57.1	4.3	98.9	81.0	105.4	92.7	98.3	9986
Beta 9952	CLS	274.2	97.0	9470.2	95.2	16.3	96.8	90.4	100.2	34.6	98.3	4.1	98.4	2.8	69.6	3.4	78.2	74.5	97.0	93.5	91.9	9952
Crystal M951	CLS	271.4	96.0	10520.8	105.8	16.3	96.7	89.9	99.6	38.7	109.7	5.2	123.5	2.4	59.6	4.6	105.7	76.7	99.8	92.2	101.4	M951
Hilleshog 9739	RHC	274.1	97.0	9247.6	93.0	16.4	97.4	90.0	99.8	33.8	96.0	4.9	116.3	4.2	104.3	3.6	82.8	74.0	96.4	93.6	89.9	9739
Hilleshog 2219	RHC	290.7	102.8	9391.6	94.4	17.3	102.6	90.3	100.1	32.4	92.1	4.8	115.1	4.2	104.3	3.5	80.5	73.1	95.1	105.0	96.6	2219
2020 Previously Approved Varieties Not Making 2021 Approval (Last Year of Sales) - One Year of Data (% of mean is of Fully Approved Mean)																						
Crystal M509		265.5	93.9	10736.3	108.0	16.0	94.9	89.8	99.5	40.8	115.8	4.2	99.6	4.4	109.3	4.1	94.3	78.3	102.0	88.4	102.5	M509

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Nov. 25, 2020 for the 1st 2020 crop payment estimate.

** Lower numbers are better for all disease nursery ratings.