

Table 1. Comparison of 2023 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Three Years of Data (2020-2022)

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*	ESTESA ***
	3 yr	% of	3 yr	% of	3 yr	% of	3 yr	% of	3 yr	% of	3 yr	% of	3 yr	% of	3 yr	% of	3 yr	% of	% of	% of	3 yr
	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	mean	mean	avg

2023 Fully Approved Varieties - Three Years of Data (% of Mean is of Fully Approved Mean)

Beta 9044	286.6	104.1	10485.1	100.2	17.0	103.5	90.4	100.3	36.9	96.5	4.5	102.0	4.2	116.3	3.9	97.9	73.8	103.1	106.6	103.0	756.0	9044
Beta 9098	273.3	99.2	10630.7	101.5	16.4	99.4	90.0	99.9	39.3	102.7	4.8	109.7	2.3	64.9	4.5	112.5	71.9	100.4	99.2	102.0	737.7	9098
Crystal M002	272.6	99.0	10673.9	102.0	16.3	99.3	90.0	99.8	39.2	102.7	4.4	100.1	1.9	52.7	4.4	108.6	73.4	102.5	98.1	100.7	726.3	M002
Crystal M028	283.3	102.9	10578.8	101.1	16.9	102.5	90.4	100.3	37.5	98.2	4.3	97.0	3.9	108.3	4.1	101.9	74.1	103.5	105.5	103.6	758.8	M028
Hilleshog 2327	270.8	98.3	10405.4	99.4	16.2	98.5	90.0	99.9	38.6	101.0	4.3	96.8	4.1	113.9	3.9	96.4	68.2	95.3	97.0	98.1	706.0	2327
Hilleshog 2379	272.2	98.9	10267.1	98.1	16.3	99.0	90.0	99.9	37.8	99.0	4.3	96.3	4.2	118.0	4.1	101.9	72.2	100.9	98.1	97.1	700.4	2379
SV 881	272.2	98.8	10357.9	98.9	16.3	99.0	90.0	99.9	38.2	99.9	4.4	99.2	4.0	112.6	4.0	100.3	69.2	96.7	98.1	98.1	707.8	881
SV RR863	271.9	98.8	10351.2	98.9	16.2	98.8	90.2	100.1	38.2	99.9	4.4	98.8	4.1	113.2	3.8	93.8	69.8	97.5	97.5	97.5	702.8	863

Mean of Fully Approved: 275.4 100.0 10468.8 100.0 16.5 100.0 90.1 100.0 38.2 100.0 4.4 100.0 3.6 100.0 4.0 100.0 71.6 100.0 100.0 100.0 100.0 724.5 Mean

2023 Test Market Varieties for Limited Sales - Three Years of Data (% of mean is of Fully Approved Mean)

Beta 9088	283.1	102.8	10546.5	100.7	16.9	102.7	90.1	100.0	37.4	97.9	4.5	101.7	4.3	119.9	4.0	100.0	70.0	97.8	104.7	102.6	750.2	9088
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2023 Specialty Approved Varieties - Three Years of Data (% of mean is of Fully Approved Mean)

Crystal M089	APH+RHC	266.1	96.6	10775.8	102.9	16.0	97.3	89.8	99.6	40.8	106.8	4.2	94.1	2.5	68.4	3.7	91.0	75.4	105.4	94.4	101.6	722.6	M089
Crystal M977	APH+RHC	270.0	98.1	11098.4	106.0	16.2	98.2	90.0	99.9	41.4	108.4	3.9	88.7	4.5	126.6	3.6	88.5	69.7	97.4	97.0	105.5	757.2	M977

2023 Last Year Sales - Three Years of Data (% of mean is of Fully Approved Mean)

Beta 9986	263.6	95.7	10740.2	102.6	15.8	96.0	89.8	99.6	40.9	107.0	4.4	99.4	2.2	61.3	4.1	101.1	73.0	102.0	92.3	98.8	705.3	9986
SV 883	268.5	97.5	10030.5	95.8	16.1	97.9	89.8	99.6	37.5	98.1	4.6	104.0	4.0	111.5	3.8	93.4	73.8	103.1	95.5	93.7	672.9	883
SV RR862	269.3	97.8	10008.5	95.6	16.1	97.9	90.1	100.0	37.3	97.6	4.7	106.2	3.6	100.3	3.8	94.2	71.3	99.6	96.2	93.9	675.3	862

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Oct. 21, 2022 for the final 2021 crop payment.

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

***ESTESA is a unitless SMBSC parameter that correlates to grower payment and revenue per acre. Higher is better.

Table 2. Comparison of 2023 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Two Years of Data (2021-2022)

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*	ESTESA ***
	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	2 yr avg

2023 Fully Approved Varieties - Two Years of Data (% of Mean is of Fully Approved Mean)

Beta 9044	282.6	104.4	10648.1	100.3	16.8	103.5	90.3	100.4	38.1	96.6	4.7	105.7	4.1	117.6	3.9	95.9	70.9	103.5	107.1	103.5	759.1	9044
Beta 9098	268.1	99.0	10736.2	101.1	16.1	99.2	89.9	100.0	40.4	102.4	4.8	108.0	2.1	60.2	4.6	114.1	69.4	101.3	98.4	100.9	727.1	9098
Crystal M002	268.3	99.1	10849.5	102.2	16.1	99.2	89.8	99.8	40.5	102.7	4.6	103.5	1.8	51.6	4.3	107.0	69.9	102.0	98.1	100.9	726.8	M002
Crystal M028	279.1	103.1	10692.1	100.7	16.7	102.8	90.2	100.3	38.5	97.6	4.4	99.0	3.8	109.0	4.1	101.9	72.8	106.3	105.7	103.3	755.3	M028
Hilleshog 2327	265.1	97.9	10529.0	99.2	16.0	98.5	89.6	99.6	39.9	101.2	4.3	96.7	4.0	114.7	3.8	93.7	64.8	94.6	96.6	97.8	702.4	2327
Hilleshog 2379	268.4	99.1	10395.8	97.9	16.1	99.2	89.9	100.0	38.9	98.6	4.3	96.7	4.1	117.6	4.0	100.6	69.5	101.5	98.4	97.1	700.1	2379
SV 881	267.9	98.9	10605.4	99.9	16.1	99.2	89.8	99.8	39.7	100.7	4.4	99.0	4.0	114.7	3.9	97.0	65.8	96.1	98.1	98.9	712.4	881
SV RR863	266.8	98.5	10487.0	98.8	16.0	98.5	90.0	100.1	39.5	100.2	4.3	96.7	4.0	114.7	3.6	89.7	64.9	94.7	97.5	97.8	703.7	863

Mean of Fully Approved: 270.8 100.0 10617.9 100.0 16.2 100.0 89.9 100.0 39.4 100.0 4.5 100.0 3.5 100.0 4.0 100.0 68.5 100.0 100.0 100.0 723.4 Mean

2023 Test Market Varieties for Limited Sales - Two Years of Data (% of mean is of Fully Approved Mean)

Beta 9088	276.7	102.2	10713.9	100.9	16.6	102.2	89.9	100.0	38.9	98.6	4.7	105.0	4.3	123.3	4.0	99.0	66.3	96.8	103.9	102.5	746.9	9088
Beta 9124	276.9	102.3	11226.4	105.7	16.5	101.6	90.2	100.3	40.8	103.5	5.0	111.7	2.4	68.8	4.4	110.3	74.7	109.1	103.5	107.2	781.2	9124
Beta 9131	273.9	101.1	11173.9	105.2	16.4	101.0	90.0	100.1	41.1	104.2	4.8	107.3	2.1	60.2	3.5	86.6	68.7	100.3	101.9	106.3	771.2	9131
Beta 9155	263.8	97.4	11103.3	104.6	15.8	97.3	89.9	100.0	42.4	107.5	4.1	91.6	2.6	74.6	3.4	84.9	72.6	106.0	95.1	102.3	735.5	9155
Crystal M106	276.1	102.0	11276.1	106.2	16.5	101.6	90.0	100.1	41.2	104.5	3.9	87.2	4.0	114.7	3.8	95.6	73.1	106.7	103.0	107.7	783.3	M106
Crystal M168	272.0	100.4	10882.6	102.5	16.3	100.4	90.0	100.1	40.2	101.9	4.3	96.1	2.1	60.2	4.3	106.9	70.4	102.8	100.8	102.8	744.9	M168
Hilleshog 2395	263.6	97.3	10335.8	97.3	15.9	97.9	89.7	99.7	39.6	100.4	4.6	102.8	4.3	123.3	4.2	104.9	69.0	100.7	95.7	96.2	690.0	2395
Hilleshog 2398	267.5	98.8	10293.8	96.9	16.1	99.2	89.8	99.8	38.6	97.9	4.6	102.8	3.8	109.0	4.0	99.7	68.6	100.1	98.1	96.1	692.7	2398
Hilleshog 2399	262.2	96.8	10216.6	96.2	15.8	97.3	89.8	99.8	39.1	99.1	5.0	111.7	4.3	123.3	4.0	99.1	62.8	91.7	94.9	94.1	674.3	2399

2023 Specialty Approved Varieties - Two Years of Data (% of mean is of Fully Approved Mean)

Crystal M089	APH+RHC	261.0	96.4	11055.2	104.1	15.8	97.3	89.6	99.6	42.6	108.0	4.1	91.6	2.3	65.9	3.5	88.0	73.5	107.3	94.4	102.0	730.3	M089
Crystal M977	APH+RHC	265.8	98.2	11390.3	107.3	16.0	98.5	89.7	99.7	43.2	109.5	3.9	87.2	4.5	129.0	3.4	85.5	65.9	96.2	96.8	106.1	762.8	M977

2023 Last Year Sales - Two Years of Data (% of mean is of Fully Approved Mean)

Beta 9986		259.2	95.7	11011.5	103.7	15.6	96.1	89.7	99.7	42.7	108.3	4.5	100.6	2.1	60.2	4.0	98.2	69.0	100.7	92.4	100.1	714.6	9986
SV 883		262.6	97.0	10080.5	94.9	15.9	97.9	89.6	99.6	38.5	97.6	4.8	107.3	3.8	109.0	3.6	89.1	70.2	102.5	95.5	93.3	668.9	883
SV RR862		263.3	97.2	9893.6	93.2	15.8	97.3	89.9	100.0	37.8	95.8	4.7	105.0	3.5	100.4	3.7	91.6	69.8	101.9	95.1	91.2	653.8	862

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Oct. 21, 2022 for the final 2021 crop payment.

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Table 3. Comparison of 2023 Fully Approved Varieties to Test Market and Specialty Approved Varieties - 1 Year Data (2022)

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*	ESTESA ***
	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	mean	mean	1 yr avg

2023 Fully Approved Varieties - One Year of Data (% of Mean is of Fully Approved Mean)

Beta 9044	293.9	104.6	9841.2	98.9	17.5	103.6	89.9	100.4	33.8	95.2	4.3	94.8	4.1	119.3	3.8	96.2	65.5	103.2	107.1	102.1	725.5	9044
Beta 9098	276.6	98.4	9796.1	98.4	16.7	98.9	89.4	99.8	36.0	101.4	4.7	103.6	1.9	55.3	4.4	111.5	66.7	105.1	97.6	99.1	689.7	9098
Crystal M002	279.3	99.4	10135.5	101.9	16.8	99.5	89.6	100.0	36.0	101.4	4.3	94.8	1.7	49.5	4.3	108.3	67.2	105.9	99.2	100.6	702.7	M002
Crystal M028	291.8	103.8	10115.5	101.7	17.5	103.6	89.8	100.3	34.6	97.5	4.3	94.8	3.7	107.6	4.1	104.8	67.7	106.7	106.9	104.2	740.5	M028
Hilleshog 2327	276.0	98.2	9884.4	99.3	16.6	98.3	89.5	99.9	35.7	100.6	4.6	101.4	4.1	119.3	3.8	97.1	57.2	90.1	96.9	97.5	677.4	2327
Hilleshog 2379	279.3	99.4	9961.4	100.1	16.8	99.5	89.5	99.9	35.8	100.8	4.3	94.8	4.1	119.3	3.8	96.6	63.1	99.4	98.9	99.8	696.7	2379
SV 881	277.1	98.6	10078.1	101.3	16.7	98.9	89.4	99.8	36.2	102.0	5.0	110.2	3.9	113.5	3.8	96.2	62.0	97.7	97.6	99.7	693.6	881
SV RR863	274.3	97.6	9793.3	98.4	16.5	97.7	89.5	99.9	35.9	101.1	4.8	105.8	4.0	116.4	3.5	89.2	58.2	91.7	95.8	97.0	672.5	863

Mean of Fully Approved: 281.0 100.0 9950.7 100.0 16.9 100.0 89.6 100.0 35.5 100.0 4.5 100.0 3.4 100.0 3.9 100.0 63.5 100.0 100.0 100.0 100.0 699.8 Mean

2023 Test Market Varieties - One Year of Data (% of mean is of Fully Approved Mean)

Beta 9088	288.2	102.5	10026.7	100.8	17.3	102.4	89.6	100.0	34.7	97.7	4.6	101.4	4.4	128.0	4.0	101.1	60.6	95.5	104.3	102.0	720.5	9088
Beta 9124	285.8	101.7	10290.7	103.4	17.2	101.9	89.5	99.9	36.2	102.0	5.0	110.2	2.3	66.9	4.5	114.9	68.7	108.3	103.0	105.1	740.3	9124
Beta 9131	286.5	101.9	10515.6	105.7	17.2	101.9	89.8	100.3	36.9	103.9	4.6	101.4	2.0	58.2	3.5	88.0	60.7	95.7	103.8	107.9	761.4	9131
Beta 9155	271.3	96.5	10421.3	104.7	16.3	96.5	89.6	100.0	38.6	108.7	4.1	90.4	2.4	69.8	3.2	82.2	69.1	108.9	94.0	102.3	706.8	9155
Crystal M106	286.7	102.0	10530.1	105.8	17.1	101.3	89.9	100.4	37.1	104.5	3.6	79.3	4.1	119.3	3.7	94.1	69.4	109.4	103.0	107.7	758.4	M106
Crystal M168	280.0	99.6	10007.5	100.6	16.9	100.1	89.4	99.8	35.9	101.1	4.0	88.2	2.0	58.2	4.3	109.4	68.8	108.4	99.7	100.9	705.3	M168
Hilleshog 2395	275.3	98.0	9537.8	95.9	16.6	98.3	89.4	99.8	34.9	98.3	5.0	110.2	4.4	128.0	4.0	101.9	65.4	103.1	96.6	95.1	660.2	2395
Hilleshog 2398	275.6	98.1	9718.3	97.7	16.7	98.9	89.3	99.7	35.2	99.2	4.5	99.2	3.8	110.5	4.1	103.9	64.6	101.8	97.4	96.7	672.4	2398
Hilleshog 2399	269.2	95.8	9159.0	92.0	16.3	96.5	89.4	99.8	34.1	96.1	5.1	112.4	4.4	128.0	4.0	101.2	51.1	80.5	93.5	89.9	620.7	2399

2023 Specialty Approved Varieties - One Year of Data (% of mean is of Fully Approved Mean)

Crystal M089	APH+RHC	270.5	96.3	10613.1	106.7	16.4	97.1	89.3	99.7	39.5	111.3	3.9	86.0	2.2	64.0	3.5	89.9	70.2	110.6	94.3	105.0	726.2	M089
Crystal M977	APH+RHC	279.8	99.6	10837.4	108.9	16.8	99.5	89.9	100.4	38.9	109.6	3.5	77.1	4.7	136.7	3.3	83.5	61.9	97.6	99.9	109.5	766.1	M977

2023 Last Year Sales - One Year of Data (% of mean is of Fully Approved Mean)

Beta 9986		271.1	96.5	10533.9	105.9	16.3	96.5	89.6	100.0	38.7	109.0	4.4	97.0	2.0	58.2	4.0	100.6	64.8	102.1	94.0	102.6	708.6	9986
SV 883		269.4	95.9	9033.9	90.8	16.3	96.5	89.2	99.6	33.6	94.6	5.0	110.2	3.4	98.9	3.6	91.7	62.2	98.0	93.1	88.2	607.9	883
SV RR862		272.6	97.0	9151.2	92.0	16.5	97.7	89.5	99.9	33.6	94.6	5.2	114.6	3.4	98.9	3.7	93.3	62.8	99.0	95.8	90.8	629.5	862

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Oct. 21, 2022 for the final 2021 crop payment.

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