

Table 1. Comparison of 2024 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Three Years of Data (2021-2023)

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 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	3 yr avg		
2024 Fully Approved Varieties - Three Years of Data (% of Mean is of Fully Approved Mean)																							
Beta 9044	284.3	102.2	10556.0	97.1	16.9	101.9	90.2	100.1	37.4	95.1	4.6	101.2	4.1	141.0	3.8	93.2	66.4	97.3	104.2	99.1	754.9	9044	
Beta 9098	272.2	97.9	10667.7	98.1	16.3	98.0	90.0	100.0	39.5	100.3	5.0	108.8	2.1	71.3	4.9	121.8	68.1	99.7	95.3	95.8	731.1	9098	
Beta 9124	279.3	100.4	11071.3	101.8	16.7	100.2	90.2	100.1	39.9	101.3	5.1	111.1	2.3	78.3	4.4	108.9	69.4	101.6	101.4	102.9	780.1	9124	
Beta 9131	RHC	275.6	99.1	11104.9	102.1	16.5	99.3	90.0	100.0	40.5	103.0	4.6	100.1	2.0	70.2	3.1	77.1	66.5	97.4	98.1	101.0	770.2	9131
Crystal M028		281.5	101.2	10651.0	97.9	16.8	101.2	90.0	100.0	38.0	96.6	4.3	95.3	3.8	132.2	4.1	101.5	69.3	101.5	102.2	98.7	754.1	M028
Crystal M106		278.5	100.2	11109.1	102.2	16.7	100.3	90.0	99.9	40.1	102.0	3.9	85.5	4.0	138.0	3.8	94.9	70.4	103.1	100.8	102.8	776.2	M106
Crystal M168		275.1	98.9	10958.1	100.8	16.5	99.1	90.0	99.9	40.0	101.6	4.5	98.0	2.0	69.1	4.1	102.5	67.9	99.4	98.1	99.7	759.3	M168
Mean of Fully Approved:		278.1	100.0	10874.0	100.0	16.6	100.0	90.1	100.0	39.3	100.0	4.6	100.0	2.9	100.0	4.0	100.0	68.3	100.0	100.0	100.0	760.8	Mean
2024 Test Market Varieties for Limited Sales - Three Years of Data (% of mean is of Fully Approved Mean)																							
Hilleshog 2395		266.1	95.7	10248.0	94.2	16.0	96.2	89.8	99.7	38.9	10248.0	4.6	100.8	4.2	143.4	4.4	109.3	67.6	99.0	90.6	89.6	688.1	2395
Hilleshog 2398		270.3	97.2	10131.3	93.2	16.2	97.5	89.9	99.8	37.5	95.5	4.8	105.4	3.8	132.3	4.1	101.9	65.9	96.5	93.7	89.3	683.4	2398
2024 Specialty Approved Varieties - Three Years of Data (% of mean is of Fully Approved Mean)																							
Beta 9155	RHC	268.0	96.4	11114.1	102.2	16.1	96.8	89.9	99.8	41.7	106.0	4.3	93.6	2.4	83.2	3.3	82.9	68.1	99.8	92.3	97.9	748.8	9155
Crystal M089	RHC	264.9	95.3	10988.8	101.1	15.9	95.9	89.8	99.6	41.7	106.1	4.1	90.8	2.2	74.9	3.6	88.5	68.1	99.8	89.3	94.7	729.1	M089
Crystal M977	RHC+APH	268.4	96.5	11180.7	102.8	16.1	97.1	89.7	99.6	42.0	106.7	3.8	83.5	4.3	149.9	3.3	81.0	64.1	93.9	91.7	97.9	755.3	M977
SV RR863	RHC	270.0	97.1	10218.3	94.0	16.2	97.3	90.0	99.9	38.0	96.6	4.8	105.2	4.0	136.7	3.6	90.6	61.7	90.4	94.0	90.8	692.6	863
2024 Last Year Sales - Three Years of Data (% of mean is of Fully Approved Mean)																							
Hilleshog 2327		268.4	96.5	10251.5	94.3	16.1	97.0	89.7	99.6	38.3	97.5	4.4	97.6	4.0	137.1	3.8	94.4	60.1	88.1	91.7	89.3	687.7	2327
Hilleshog 2379		271.3	97.6	10165.0	93.5	16.3	97.8	89.9	99.8	37.5	95.5	4.6	101.1	4.0	138.4	4.1	101.9	64.0	93.8	95.0	90.6	693.6	2379

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Oct. 23, 2023 for the final 2022 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 2024 Fully Approved Varieties to Test Market and Specialty Approved Varieties - Two Years of Data (2022-2023)

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		
2024 Fully Approved Varieties - Two Years of Data (% of Mean is of Fully Approved Mean)																							
Beta 9044	290.9	102.2	10106.6	96.8	17.4	102.0	89.9	100.1	34.9	94.7	4.3	97.6	4.1	144.9	3.7	92.2	61.4	95.4	104.8	99.2	736.0	9044	
Beta 9098	278.5	97.9	10163.3	97.3	16.7	97.9	89.9	100.0	36.8	99.8	5.0	111.4	1.9	68.4	5.0	124.9	66.0	102.7	95.7	95.6	712.3	9098	
Beta 9124	285.0	100.1	10526.0	100.8	17.0	100.1	89.9	100.0	37.1	100.6	5.1	114.0	2.1	75.1	4.4	110.7	63.7	99.0	99.6	100.3	756.0	9124	
Beta 9131	RHC	282.8	99.4	10741.3	102.9	16.9	99.3	89.9	100.1	38.2	103.5	4.4	97.8	1.9	68.2	2.9	73.2	61.3	95.4	98.3	101.9	761.6	9131
Crystal M028		289.1	101.6	10342.1	99.0	17.3	101.7	89.8	99.9	35.8	97.1	4.3	96.4	3.8	133.9	4.1	103.1	65.0	101.0	103.2	100.2	750.4	M028
Crystal M106		285.1	100.2	10652.6	102.0	17.1	100.1	89.9	100.0	37.6	101.9	3.7	84.1	4.0	142.8	3.7	94.1	67.1	104.3	100.9	102.9	766.5	M106
Crystal M168		280.6	98.6	10558.2	101.1	16.9	98.9	89.7	99.9	37.7	102.2	4.4	98.7	1.9	66.7	4.0	101.8	65.8	102.2	97.7	99.9	740.5	M168
Mean of Fully Approved:		284.6	100.0	10441.4	100.0	17.0	100.0	89.9	100.0	36.9	100.0	4.5	100.0	2.8	100.0	4.0	100.0	64.3	100.0	100.0	100.0	746.2	Mean
2024 Test Market Varieties for Limited Sales - Two Years of Data (% of mean is of Fully Approved Mean)																							
Beta 9284		290.2	102.0	10654.9	102.0	17.3	101.8	89.9	100.0	36.7	99.6	3.7	83.9	4.0	141.5	3.3	83.1	60.1	93.4	103.5	103.1	772.1	9284
Beta 9291	CLS	282.8	99.4	10310.8	98.7	17.0	99.6	89.8	99.9	36.3	98.5	4.3	96.2	1.6	55.0	4.0	101.1	59.3	92.1	99.3	97.8	723.7	9291
Hilleshog 2395		273.1	96.0	9805.1	93.9	16.4	96.4	89.7	99.8	36.1	98.1	4.8	107.5	4.1	145.6	4.5	112.2	65.1	101.2	91.2	89.3	675.3	2395
Hilleshog 2398		275.7	96.9	9762.3	93.5	16.6	97.4	89.6	99.7	35.3	95.9	4.9	109.8	3.9	136.5	4.2	105.7	62.4	97.0	93.5	89.5	671.5	2398
2024 Specialty Approved Varieties - Two Years of Data (% of mean is of Fully Approved Mean)																							
Beta 9155	RHC	273.9	96.2	10778.5	103.2	16.5	96.6	89.7	99.8	39.4	107.0	4.3	96.9	2.2	77.6	3.2	80.8	64.2	99.8	92.5	98.9	739.2	9155
Crystal M089	RHC	271.6	95.5	10734.5	102.8	16.3	95.9	89.7	99.8	39.7	107.7	4.1	92.1	2.0	71.8	3.6	89.9	63.7	99.1	89.9	96.8	733.2	M089
Crystal M977	RHC+APH	276.8	97.3	10799.5	103.4	16.6	97.3	89.9	100.0	39.2	106.4	3.6	80.9	4.4	155.4	3.1	77.9	61.2	95.1	94.4	100.4	748.7	M977
SV RR863	RHC	275.4	96.8	9737.1	93.3	16.5	97.1	89.8	99.9	35.4	96.2	5.3	118.4	3.9	138.2	3.6	91.1	56.7	88.2	92.8	89.1	672.7	863
2024 Last Year Sales - Two Years of Data (% of mean is of Fully Approved Mean)																							
Hilleshog 2327		275.5	96.8	9790.6	93.8	16.5	97.1	89.7	99.8	35.5	96.3	4.6	104.2	4.0	140.9	3.9	98.3	54.0	84.0	92.5	89.1	672.5	2327
Hilleshog 2379		278.2	97.8	9832.3	94.2	16.7	98.1	89.7	99.8	35.3	95.8	4.8	107.0	4.0	140.7	3.9	98.3	58.0	90.2	95.1	91.1	668.7	2379

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Oct. 23, 2023 for the final 2022 crop payment.

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Table 3. Comparison of 2024 Fully Approved Varieties to Test Market and Specialty Approved Varieties - 1 Year Data (2023)

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	% of	1 yr	% of	1 yr	% of	1 yr	% of	1 yr	% of	1 yr	% of	1 yr	% of	1 yr	% of	1 yr	% of	% of	% of	1 yr		
	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	avg	mean	mean	mean	avg		
2024 Fully Approved Varieties - One Year of Data (% of Mean is of Fully Approved Mean)																							
Beta 9044		287.8	101.6	10371.9	96.7	17.2	101.7	89.9	99.9	36.1	95.1	4.4	96.9	4.0	146.2	3.5	90.7	57.3	92.6	103.2	98.4	748.0	9044
Beta 9098		280.3	99.0	10530.5	98.2	16.7	98.7	90.4	100.3	37.5	98.9	5.2	114.0	1.9	69.4	5.5	141.8	65.4	105.6	98.2	97.2	735.8	9098
Beta 9124		284.1	100.3	10761.3	100.3	16.9	100.0	90.3	100.3	37.9	100.1	5.2	114.0	2.0	71.4	4.3	109.6	58.7	94.8	100.5	100.6	764.5	9124
Beta 9131	RHC	279.1	98.6	10966.9	102.2	16.7	98.5	90.1	100.0	39.4	104.0	4.1	90.4	1.9	67.8	2.3	60.2	62.0	100.2	97.3	101.2	769.8	9131
Crystal M028		286.3	101.1	10568.7	98.5	17.1	101.3	89.8	99.7	37.0	97.5	4.3	94.8	3.8	139.0	4.1	104.2	62.2	100.6	101.6	99.2	757.4	M028
Crystal M106		283.5	100.1	10775.2	100.5	17.0	100.4	89.9	99.8	38.0	100.3	3.9	84.9	3.9	141.7	3.8	96.7	64.8	104.7	100.6	100.9	764.9	M106
Crystal M168		281.3	99.3	11108.9	103.6	16.8	99.3	90.1	100.1	39.4	104.0	4.8	105.0	1.8	64.3	3.8	96.9	62.8	101.4	98.6	102.5	781.4	M168
Mean of Fully Approved:		283.2	100.0	10726.2	100.0	16.9	100.0	90.1	100.0	37.9	100.0	4.6	100.0	2.8	100.0	3.9	100.0	61.9	100.0	100.0	100.0	760.2	Mean
2024 Test Market Varieties - One Year of Data (% of mean is of Fully Approved Mean)																							
Beta 9284		281.6	99.4	10430.3	97.2	16.9	99.8	89.8	99.7	36.9	97.3	3.7	80.7	4.0	146.1	3.1	80.5	56.6	91.5	99.0	96.4	732.6	9284
Beta 9291	CLS	281.6	99.4	10411.6	97.1	16.8	99.6	90.0	99.9	36.8	97.1	4.3	94.6	1.5	55.9	3.8	97.1	53.3	86.2	98.3	95.5	730.6	9291
Hilleshog 2395		271.0	95.7	10072.5	93.9	16.2	95.9	90.0	100.0	37.4	98.7	4.6	100.7	3.9	139.3	4.9	125.8	64.8	104.7	90.4	89.2	689.2	2395
Hilleshog 2398		275.9	97.4	9806.3	91.4	16.5	97.7	89.9	99.8	35.5	93.7	5.3	116.1	3.9	141.9	4.3	110.4	60.3	97.4	94.0	88.1	675.8	2398
2024 Specialty Approved Varieties - One Year of Data (% of mean is of Fully Approved Mean)																							
Beta 9155	RHC	276.4	97.6	11135.7	103.8	16.6	98.1	89.8	99.8	40.3	106.4	4.5	99.5	2.0	72.1	3.2	81.5	59.2	95.7	95.0	101.1	768.6	9155
Crystal M089	RHC	272.8	96.3	10855.8	101.2	16.3	96.4	90.1	100.1	39.9	105.2	4.3	94.2	1.9	67.1	3.6	92.4	57.3	92.5	92.0	96.9	740.2	M089
Crystal M977	RHC+APH	273.7	96.6	10761.6	100.3	16.4	97.1	89.9	99.8	39.5	104.3	3.7	80.5	4.0	145.4	2.9	74.5	60.6	97.9	92.7	96.7	740.6	M977
SV RR863	RHC	276.5	97.6	9680.8	90.3	16.6	97.9	90.0	99.9	35.0	92.2	5.8	127.1	3.8	137.5	3.7	95.5	55.3	89.4	95.7	88.4	667.7	863
2024 Last Year Sales - One Year of Data (% of mean is of Fully Approved Mean)																							
Hilleshog 2327		274.9	97.1	9696.7	90.4	16.5	97.4	89.9	99.9	35.2	93.0	4.7	103.6	3.9	140.0	4.0	102.6	50.8	82.1	94.0	87.4	668.8	2327
Hilleshog 2379		277.1	97.8	9703.3	90.5	16.6	98.2	89.9	99.8	34.8	91.8	5.2	114.7	3.8	138.8	4.1	105.2	53.0	85.6	95.3	87.6	670.3	2379

*Revenue per Ton and Revenue per Acre figures were produced using the payment calculation with factors released on Oct. 23, 2023 for the final 2022 crop payment.

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