










# 2021 Variety Performance from the Shareholder Database

**ESTESA:** Is a 3:1 (quality to root yield) mathematical model with high predictability to shareholder profit.

 = Values omitted due to less than 15 fields or less than 1000 acres planted.

## Comprehensive variety performance from crop year 2021.

### All Varieties

Primary Variety (90% of field or more)	Field Count	Harvested Acres	TonsA	Sugar	Purity	EST	ESA	ES	ESTESA
Crystal M509	27	3615	42.21	16.09	90.45	270.21	11,422	13.51	771.6
<i>Crystal M977</i>	36	3835	40.26	16.34	90.52	275.02	11,091	13.75	762.5
<i>Crystal M951</i>			39.56	16.38	90.75	276.73	10,978	13.84	759.5
<i>Hilleshog 2327</i>	20	2393	38.29	16.44	90.76	277.80	10,648	13.89	739.5
Beta 9935	19	2303	36.39	16.74	90.79	283.21	10,334	14.16	731.7
<i>Beta 9986</i>	35	3694	38.26	16.29	90.98	276.01	10,545	13.80	727.6
MIXED	80	9822	37.45	16.43	90.65	277.16	10,399	13.86	720.6
<i>Crystal M837</i>	16	2026	36.37	16.61	90.65	280.41	10,201	14.02	715.1
Beta 9780	44	5570	36.71	16.51	90.63	278.52	10,214	13.93	711.2
<i>Crystal M002</i>			39.42	15.96	90.40	267.90	10,602	13.39	710.0
<i>Beta 9098</i>	17	1601	38.14	16.09	90.31	269.84	10,290	13.49	694.2
<i>SV RR863</i>	49	6524	37.09	16.08	89.58	271.15	10,188	13.56	690.6
<i>SV RR862</i>			36.48	16.07	90.22	269.12	9,809	13.46	660.0
<i>Beta 9952</i>			34.78	16.22	90.27	271.89	9,457	13.59	642.8
Beta 9810	46	5007	33.99	16.38	90.24	274.59	9,338	13.73	641.0

Totals 423 50039 *Total field count and harvest acres include omitted varieties.*  
 Averages 37.69 16.31 90.48 274.64 10,368 13.73 711.9





### Important Notes and Information

\* Varieties that are provided in **Bold**, **Colored**, **Italicized Font** are varieties that are available for sales and planting in crop year 2022.

\* Yield parameters listed in this document represent a weighted average that accounts for the relative "impact" a variety had on overall cooperative performance due to extent of usage.





## Traditional Variety versus High Cercospora Leafspot tolerance performance 2021

### High CLS Tolerance Varieties (CR+ gene)

Primary Variety (90% of field or more)	Field Count	Harvested Acres	TonsA	Sugar	Purity	EST	ESA	ES	ESTESA
<i>Crystal M951</i>			39.56	16.38	90.75	276.73	10,978	13.84	759.5
<i>Beta 9986</i>	35	3694	38.26	16.29	90.98	276.01	10,545	13.80	727.6
<i>Crystal M002</i>			39.42	15.96	90.40	267.90	10,602	13.39	710.0
<i>Beta 9098</i>	17	1601	38.14	16.09	90.31	269.84	10,290	13.49	694.2

Totals 69 7044 *Total field count and harvest acres include omitted varieties.*  
 Averages 38.84 16.18 90.61 272.62 10,604 13.63 722.8

### Traditional Varieties

Primary Variety (90% of field or more)	Field Count	Harvested Acres	TonsA	Sugar	Purity	EST	ESA	ES	ESTESA
Crystal M509	27	3615	42.21	16.09	90.45	270.21	11,422	13.51	771.6
<i>Crystal M977</i>	36	3835	40.26	16.34	90.52	275.02	11,091	13.75	762.5
<i>Hilleshog 2327</i>	20	2393	38.29	16.44	90.76	277.80	10,648	13.89	739.5
Beta 9935	19	2303	36.39	16.74	90.79	283.21	10,334	14.16	731.7
MIXED	80	9822	37.45	16.43	90.65	277.16	10,399	13.86	720.6
<i>Crystal M837</i>	16	2026	36.37	16.61	90.65	280.41	10,201	14.02	715.1
Beta 9780	44	5570	36.71	16.51	90.63	278.52	10,214	13.93	711.2
<i>SV RR863</i>	49	6524	37.09	16.08	89.58	271.15	10,188	13.56	690.6
<i>SV RR862</i>			36.48	16.07	90.22	269.12	9,809	13.46	660.0
<i>Beta 9952</i>			34.78	16.22	90.27	271.89	9,457	13.59	642.8
Beta 9810	46	5007	33.99	16.38	90.24	274.59	9,338	13.73	641.0

Totals 354 42995 *Total field count and harvest acres include omitted varieties.*  
 Averages 37.28 16.35 90.43 275.37 10,282 13.77 707.9

\* ESTESA represents a new standardized ranking calculation possessing a high level predictability for relative shareholder profitability for use in assessing various crop inputs including but not limited to variety performance.

\* ESTESA values range from 0 - 1000 where the higher the value the greater the balance of quality, yield, and ultimately profit potential.

\* Contact your Ag-Staff representative for questions about ESTESA or any other questions relating to this document.