

RESULTS OF AMERICAN CRYSTAL SUGAR COMPANY'S 2025 CODED OFFICIAL VARIETY TRIALS

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American Crystal Sugar Company's coded Official Variety Trials (OVT) are designed to provide an unbiased evaluation of the genetic potential of sugarbeet variety entries under several different environments. The two-year averages of these evaluations are then used to establish a list of approved varieties which ensures the use of high quality, productive varieties to maximize returns for growers and the cooperative as a whole.

This report presents data from the 2025 American Crystal Sugar Company (ACSC) OVTs and describes the procedures and cultural practices utilized in the trials.

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Procedures and cultural practices

All official trials utilize seed identified by code numbers which prevents ACSC personnel from knowing variety names when conducting trials. All entries were assigned code numbers by KayJay Ag Services, Horace, ND. The seed then was sent to ACSC Technical Services Center at Moorhead for official testing.

Sugarbeet official variety yield trials and disease nurseries were conducted across the ACSC growing region of the Red River Valley with additional disease nurseries conducted by third party cooperators. The 2025 official coded variety performance trials included 13 yield trials and 10 disease nurseries planted at a total of 17 sites by ACSC personnel. Seven additional disease/insect nurseries were planted by third party cooperators.

Results from the Official Variety Trial sites were excellent overall. Planting dates ranged from April 25 to May 14 for yield trial sites. The Caledonia, ND site was replanted May 28 due to poor emergence caused by soil crusting. Stands in the trials varied from poor to excellent with most locations being good. Twelve of thirteen planted sites were harvested and used for variety approval calculations. The site at East Grand Forks, MN was abandoned due to poor emergence. Sites targeting Aphanomyces were located at Perley and Alvarado, MN, but moisture conditions were not favorable for Aphanomyces until later in the season when plants were not as susceptible. As a result, there is no new data for yield under Aphanomyces conditions. Rainfall amount and timing were sporadic for sites across the Red River Valley with some sites receiving ample rainfall for large yields and others affected by moisture stress. Coefficients of variation (CVs) for yield ranged from 3.9 to 6.8 (mean = 5.3) for Commercial trials and from 3.8 to 6.0 (mean = 4.7) for the Experimental trials. Percent sugar CVs ranged from 1.2 to 3.0 (mean = 2.2) for the Commercial trials and from 1.7 to 3.9 (mean = 2.6) for the Experimental trials. Rhizoctonia crown and root rot was present at low levels at a few sites. Revenue calculations in 2025 are based on a hypothetical \$60.97 payment (5-year rolling average) assuming 17.5% sugar and 1.5% SLM not considering hauling or production costs.

Aphanomyces root rot ratings are from naturally infested nurseries at Glyndon (Magno) and Shakopee (KWS), MN. Cercospora leafspot ratings are from inoculated nurseries at Randolph, MN (KWS) and Saginaw, MI (BSDF) as well as non-inoculated nurseries at Caledonia, ND and Averill and Stephen MN (ACSC). Correlation of Cercospora ratings among the three non-inoculated sites in the RRV and the inoculated site in MI were very good. Rhizoctonia crown and root rot ratings are from inoculated nurseries at Crookston and Moorhead (two trials), MN (ACSC) and Saginaw, MI (BSDF). Fusarium ratings are from naturally infested sites at Moorhead and Sabin, MN (ACSC). Root aphid ratings are from greenhouse assays at Moorhead (ACSC) and Shakopee (KWS), MN.

2025 harvest conditions were very good overall. Sites at Bathgate, ND and Northcote, MN with heavy soils were challenging to keep pinch wheels deep enough to dig smaller roots. Sugarbeet roots at most sites lifted very well.

The 2025 data have been combined with previous years' data for several tables. Results from 2025 for the yield trials from individual sites are included in this report and available on the internet at www.crystalsugar.com/agronomy/crystal-beet-seed/official-coded-trials/.

Conventional varieties were not planted in the 2025 OVTs. Conventional varieties tested in 2017-2019 that were approved for 2020-2025 sales are permitted to continue in 2026 sales.

Yield trials were planted with regular pellets to stand at 4.5-inch seed spacing. Starter fertilizer (10-34-0, 3 GPA) and AZteroid fungicide (5.7 fl oz/A) were applied in-furrow (6 GPA total volume) in all yield trials. Counter 20G (8.9 lb/A) was applied in a 7-inch band after planting at all yield trial sites. Plots were planted perpendicular to the cooperators' normal farming operations, where possible. Plot row lengths for all official trials were maintained at 47 feet with about 40 feet harvested. Planting was performed with a 12-row SRES vacuum planter. The GPS controlled planter gave good single seed spacing which facilitated emergence counting. Seed companies had the option of treating seed with an Aphanomyces seed treatment, insecticide and a Rhizoctonia seed treatment fungicide. Emergence counts were taken on 24 feet of each plot. Multiple seedlings were counted as a single plant if they emerged less than one inch apart.

Ethofumesate (Norton, 6 pt/A) was applied pre-emerge at most yield trial sites (Table 30). Roundup PowerMAX 3 with Class Act (surfactant) and full rates of Cercospora fungicides were applied by ACSC technical staff using a pickup sprayer driven down the alleys. One or two applications of Roundup (25 oz/A) were made at the 2-4 and/or 6-10 leaf stages in 10 GPA using 50-60 psi. Hand weeding was used as necessary. In addition to AZteroid at planting (see above), all yield trials were treated with Quadris in a 7-inch band during the 6-10 leaf stage (10 oz/A) for Rhizoctonia control. Mustang Maxx (4 oz/A) was applied postemergence for additional root maggot control at Ada, MN, and chlorpyrifos 4E (2pt/A) was applied at Reynolds and St Thomas, ND. Treatments used for Cercospora control in 2025 included Inspire XT/Manzate Max, Agri Tin/Topsin, Manzate Max, Proline/Manzate Max, and Priaxor/Agri Tin. Cercospora fungicides were applied in 20 GPA using 75-80 psi.

Roundup Ready (RR) entries with commercial seed available were planted in four-row plots with six replicates. The RR experimental entries were planted in two-row plots with four replicates.

All plot ranges were measured for total length after approximately 3.5 feet at each end were removed at the end of August, with skips greater than 60 inches being measured for yield adjustment purposes. Harvest was performed with one custom six-row harvester with increased cleaning capacity. All harvested beets of each plot were used for yield determination while one sample (approximately 20 lbs.) was obtained from each plot for tare, sugar, and impurity analysis. Quality analysis was performed at the ACSC Technical Services Quality Lab in Moorhead, MN.

Varieties were planted in nurseries in North Dakota, Minnesota, Michigan, and Colorado to evaluate varieties for disease and insect susceptibility. ACSC adjusts the Aphanomyces, Cercospora, Rhizoctonia, and Fusarium nursery data each year to provide a consistent target for variety approval criteria.

Acknowledgements

Thanks to the sugarbeet seed companies for their participation in the official variety testing program and to the grower-cooperators. Thanks are extended to the dedicated Technical Services staff (Earl Hodson, Gary Hamann, Marcus Lunde, Nathan Quistorff, and Scott Ratliff) for official trial planting, plot care, data collection, and harvest. Thanks to Ray Dobratz, and the Quality Lab at the Technical Services Center for quality sample analysis. Thanks to Maureen Aubol and the Northwest Research and Outreach Center for hosting a Rhizoctonia nursery, Randy Nelson for RRV disease ratings, USDA staff in Michigan for Cercospora and Rhizoctonia nursery data, United Beet Seed staff for running Aphanomyces and root aphid nurseries, KWS staff for Aphanomyces and Cercospora nursery data, and KayJay Ag Services for sampling and coding all variety entries.

Table 1.
Varieties Meeting ACSC Approval Criteria for the 2026 Sugarbeet Crop

Roundup Ready®	<u>Full Market</u>	<u>Aph Spec</u>	<u>Rhc Spec</u>	<u>Rhizomania</u>	2019 Conventional	<u>Full Market</u>	<u>Rhizomania</u>
BTS 8018	Yes	Yes	New	MG	Crystal R761	Yes	MG
BTS 8034	Yes	Yes		MG	Crystal 620	Yes	MG
BTS 8156	Yes	Yes		MG	Crystal 840	Yes	MG
BTS 8226	Yes	Yes	Yes	MG	Crystal 950	Yes	MG
BTS 8270	Yes	Yes	Yes	MG	Hilleshög HM3035Rz	Yes	SG
BTS 8365	Yes	Yes	Yes	MG	SX 8869 Cnv	Yes	MG
BTS 8440	New	New	New	MG	SV 48777	Yes	MG
BTS 8457	New		New	MG			
BTS 8927	Yes	Yes	Yes	MG			
Crystal 022	Yes	Yes	Yes	MG			
Crystal 130	Yes	Yes	Yes	MG			
Crystal 138	Yes	Yes	Yes	MG			
Crystal 260	Yes	Yes	Yes	MG			
Crystal 269	Yes	Yes		MG			
Crystal 361	Yes	Yes	Yes	MG			
Crystal 364	Yes	Yes	Yes	MG			
Crystal 369	Yes	Yes		MG			
Crystal 470	New	New	New	MG			
Crystal 471	New	New	New	MG			
Crystal 793	Yes	Yes		MG			
Crystal 912	Yes	Yes	Yes	MG			
Hilleshög HIL2389	Yes	Yes		MG			
Hilleshög HIL2479	Yes			MG			
Hilleshög HIL2480	No		Yes	MG			
Hilleshög HIL2493	No		New	MG			
Maribo MA717	Yes			MG			
SX 1815	Yes			MG			
SX 1835	No		Yes	MG			
SV 231	Yes		Yes	MG			
SV 345	No		New	MG			

Aph Spec = variety meets Aphanomyces specialty requirements
Rhc Spec = variety meets Rhizoctonia specialty requirements
MG (Multigenic) = Contains multiple genes for Rhizomania resistance
SG (Single gene) = Contains a single gene for Rhizomania resistance

Created 10/21/2025

++ 2nd Year of not meeting Specialty Approval of previously approved Specialty variety. According to Approval Policy, may be sold as Specialty in 2026
+ 1st Year of not meeting Specialty Approval of previously approved Specialty variety. According to Approval Policy, may be sold as Specialty in 2026
Roundup Ready® is a registered trademark of Bayer Group.

Table 2. Performance Data of RR Varieties During 2024 & 2025 Growing Seasons (All Locations Combined) Approved for Sale to ACSC Growers in 2026 +++

Variety	Yrs Com	Rev/Ton ++			Rev/Acre ++			Rec/Ton		Rec/Acre		Yield		Sugar		Molasses		Emergence +		Cerc. *		Aphan. *		Rhizoc. *		Fusarium *		Rzm *
		25	2 Yr	2Y%	25	2 Yr	2Y%	25	2 Yr	25	2 Yr	25	2 Yr	25	2 Yr	25	2 Yr	25	2 Yr	25	2 Yr	25	2 Yr	25	2 Yr	25	2 Yr	
Number of locations →		12	24		12	24		12	24	12	24	12	24	12	24	12	24	12	24	5	10	2	5	4	8	2	4	
Previous Approved																												
BTS 8018	4	62.57	61.20	99	2179	2140	103	324	330	11348	11576	35.2	35.1	17.23	17.52	1.01	1.01	75	79	3.9	3.6	3.5	3.6	3.8	3.8	2.4	2.3	MG
BTS 8034	4	58.73	57.30	93	2051	2015	97	314	319	11001	11239	35.2	35.3	16.83	17.09	1.14	1.15	67	76	4.3	4.0	3.5	4.0	4.2	4.3	2.3	2.1	MG
BTS 8156	3	62.42	60.42	98	2130	2073	99	324	328	11082	11260	34.3	34.4	17.27	17.47	1.07	1.07	70	76	4.4	4.1	3.6	3.9	4.4	4.3	2.4	2.3	MG
BTS 8226	2	66.83	65.01	105	2256	2201	106	336	341	11373	11568	34.0	34.0	17.74	18.01	0.95	0.96	73	77	4.1	3.8	3.4	3.6	3.6	3.5	2.9	2.8	MG
BTS 8270	2	65.80	63.06	102	2189	2127	102	333	335	11114	11340	33.5	33.9	17.64	17.78	0.99	1.02	65	72	3.6	3.4	3.6	3.7	3.9	3.9	2.3	2.3	MG
BTS 8365	1	67.89	66.20	107	2151	2120	102	339	344	10770	11051	31.9	32.1	17.91	18.19	0.98	0.96	64	72	4.0	4.1	3.7	3.8	3.7	3.7	2.6	2.4	MG
BTS 8927	5	65.76	64.27	104	2215	2170	104	333	339	11262	11471	34.0	33.9	17.63	17.93	0.98	0.98	73	79	4.2	4.3	3.7	4.0	3.9	3.7	2.2	2.1	MG
Crystal 022	4	67.03	64.74	105	2216	2130	102	336	340	11185	11219	33.4	33.1	17.80	18.00	0.98	0.99	74	77	4.8	4.7	3.3	3.6	3.9	3.7	2.3	2.5	MG
Crystal 130	3	64.94	62.63	101	2213	2145	103	331	334	11312	11464	34.4	34.4	17.54	17.72	1.00	1.02	71	76	4.3	3.9	3.5	3.6	3.8	3.7	2.6	2.7	MG
Crystal 138	2	65.28	62.18	100	2216	2120	102	332	333	11297	11361	34.2	34.2	17.59	17.68	1.00	1.04	68	73	4.5	4.6	3.6	3.7	3.8	3.7	2.6	2.8	MG
Crystal 260	2	64.91	63.05	102	2219	2172	104	331	335	11333	11571	34.4	34.6	17.48	17.74	0.95	0.97	70	78	3.6	3.4	3.6	3.8	3.8	3.8	2.6	2.5	MG
Crystal 269	2	65.76	64.28	104	2253	2196	105	333	339	11455	11612	34.5	34.3	17.74	18.04	1.09	1.09	69	73	4.4	4.5	3.1	3.3	4.1	4.2	2.3	2.4	MG
Crystal 361	1	67.32	64.21	104	2282	2200	106	337	339	11455	11623	34.1	34.4	17.80	17.90	0.94	0.98	74	77	3.7	3.5	3.1	3.5	4.0	3.9	2.3	2.2	MG
Crystal 364	NC	60.09	58.58	95	2162	2122	102	318	323	11497	11724	36.5	36.5	16.96	17.21	1.07	1.08	78	81	4.4	4.4	3.4	3.6	3.6	3.7	2.2	2.2	MG
Crystal 369	1	63.41	62.00	100	2214	2158	103	327	332	11445	11585	35.2	34.9	17.43	17.74	1.10	1.11	68	75	3.9	4.0	3.4	3.4	4.3	4.5	2.3	2.3	MG
Crystal 793	7	64.00	62.37	101	2220	2156	103	328	334	11427	11542	35.0	34.7	17.40	17.68	0.99	1.00	75	78	4.0	4.1	3.2	3.4	4.2	4.0	2.5	2.4	MG
Crystal 912	4	57.95	55.64	90	2174	2105	101	312	314	11742	11896	37.8	37.9	16.66	16.79	1.07	1.09	74	79	5.0	5.0	3.3	3.4	3.1	3.3	4.2	3.9	MG
Hilleshög HIL2389	3	63.20	61.65	100	2116	2089	100	326	331	10945	11243	33.7	34.0	17.31	17.58	1.01	1.01	67	76	4.5	4.6	3.8	3.7	4.0	4.0	5.4	5.5	MG
Hilleshög HIL2479	1	62.71	61.64	100	2067	1968	94	325	332	10751	10601	33.2	32.1	17.30	17.64	1.06	1.06	72	75	4.2	4.2	4.2	4.5	3.5	3.9	4.5	4.5	MG
Hilleshög HIL2480 **	1	60.90	59.58	96	2052	1969	94	320	326	10818	10772	34.0	33.2	17.19	17.48	1.20	1.20	69	74	4.2	4.2	4.1	4.2	3.4	3.5	2.6	2.8	MG
Maribo MA717	7	59.56	57.69	93	2065	2022	97	316	320	11043	11260	35.2	35.3	16.89	17.08	1.08	1.08	64	72	4.8	4.8	4.9	4.5	3.9	4.0	5.1	4.7	MG
SX 1815	3	62.66	61.52	99	2097	2084	100	325	331	10925	11244	33.9	34.0	17.25	17.58	1.02	1.02	65	74	4.7	4.7	4.3	4.1	4.1	4.2	6.1	5.8	MG
SX 1835 **	1	59.93	57.94	94	2160	2110	101	317	321	11469	11703	36.3	36.5	16.96	17.16	1.10	1.12	72	79	4.6	4.6	4.4	4.4	3.8	3.9	4.7	4.1	MG
SV 231	1	60.80	58.69	95	2179	2147	103	320	323	11491	11833	36.1	36.6	17.02	17.20	1.04	1.05	75	79	4.7	4.8	4.1	4.3	3.8	3.8	5.1	4.8	MG
Newly Approved																												
BTS 8440	NC	67.86	64.75	105	2290	2197	105	339	340	11469	11564	34.0	34.1	17.86	17.94	0.92	0.94	74	78	3.2	3.0	3.6	3.8	3.8	3.7	2.5	2.7	MG
BTS 8457	NC	65.74	63.75	103	2228	2194	105	333	337	11344	11646	34.3	34.6	17.54	17.78	0.90	0.92	73	76	4.1	3.8	4.0	4.1	3.8	3.7	2.7	2.5	MG
Crystal 470	NC	63.15	60.93	98	2247	2196	105	326	329	11623	11883	35.8	36.1	17.29	17.47	0.98	1.00	73	78	4.2	4.0	3.7	3.7	3.8	3.8	2.7	2.5	MG
Crystal 471	NC	66.82	64.59	104	2251	2204	106	336	340	11370	11631	34.0	34.3	17.74	17.96	0.95	0.97	69	75	4.1	3.8	3.6	3.8	3.9	3.8	2.4	2.3	MG
Hilleshög HIL2493 **	NC	60.14	58.67	95	2164	2157	103	318	323	11486	11910	36.3	37.0	16.95	17.21	1.06	1.06	73	77	4.6	4.7	4.3	4.2	3.6	3.7	4.4	4.6	MG
SV 345 **	NC	60.41	57.76	93	2147	2138	103	318	320	11366	11891	35.9	37.2	17.00	17.08	1.07	1.07	69	78	4.8	4.9	4.1	4.2	3.6	3.5	4.9	4.6	MG
Benchmark var. mean		64.15	61.90		2150	2085		329	332	11049	11201	33.8	33.8	17.44	17.64	1.01	1.03	71	78									

+++ 2025 Sites include Casselton, Averill, Perley, Ada, Caledonia, Scandia, Reynolds, Alvarado, Stephen, St Thomas, Northcote, and Bathgate

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++ 2024 Sites include Casselton, Averill, Ada, Hillsboro, Climax, Grand Forks, Scandia, Forest River, Alvarado, St Thomas, Hallock, and Bathgate

+ 2025 Revenue estimate based on a \$60.97 beet payment (5-yr ave) at 17.5% crop with a 1.5% loss to molasses and 2024 Revenue estimate based on a \$54.53 beet payment (5-yr ave) at 17.5% crop with a 1.5% loss to molasses.

+ Emergence is % of planted seeds producing a 4 leaf beet.

** Does not meet Full Market Approval. Meets Aphanomyces and/or Rhizoctonia Specialty Approval.

* 2025 Cercospora from Saginaw MI, Randolph MN, Averill MN, Caledonia ND and Stephen MN (res.<4.4, susc>5.0). Aphanomyces ratings from Shakopee MN and Glyndon MN (res.<4.0, susc>4.8).

Rhizoctonia from Saginaw MI, Moorhead MN and Crookston MN (res.<3.8, susc>5). Fusarium from Moorhead MN and Sabin MN (res.<3.0, susc>5.0). MG indicates multigenic resistance to Rhizomania.

* 2024 Cercospora from Saginaw MI, Randolph MN, Foxhome MN, Averill MN and Forest River ND (res.<4.4, susc>5.0). Aphanomyces ratings from Shakopee MN, Glyndon MN, and Perley MN (res.<4.0, susc>4.8).

Rhizoctonia from Saginaw MI, Moorhead MN and Crookston MN (res.<3.8, susc>5). Fusarium from Moorhead MN and Sabin MN (res.<3.0, susc>5.0).

Table 3. Performance Data of RR 2025 Approved Varieties Under Aphanomyces Conditions +++

Variety	Yrs Com	Aph SpC +	Rev/Ton++				Rev/Acre++				Rec/Ton		Rec/Acre		Sugar		Yield		Cerc. *		Aphan. *		Rhizoc. *		Fusarium *		
			2024	%Mn	2020	%Mn^	2024	%Mn	2020	%Mn^	2024	2020	2024	2020	2024	2020	2024	2020	25	2Yr	25	2Yr	25	2Yr	25	2Yr	
Number of locations →			1	3	1	3	1	3	1	3	1	3	1	3	1	3	5	9	2	5	4	8	2	4			
Previous Approved																											
BTS 8018	4	Yes	59.33	98	40.59	107	1396	111	982	112	334.6	303.9	7861	7256	17.81	16.22	23.43	23.62	3.88	3.62	3.51	3.62	3.83	3.75	2.42	2.31	
BTS 8034	4	Yes	59.65	99	35.57	94	1446	115	887	102	335.5	286.7	8117	7046	17.89	15.53	24.14	24.32	4.28	3.99	3.52	4.00	4.20	4.29	2.31	2.10	
BTS 8156	3	Yes	61.11	101	--	--	1379	110	--	--	339.9	--	7678	--	18.06	--	22.60	--	4.38	4.12	3.59	3.93	4.38	4.33	2.36	2.25	
BTS 8226	2	Yes	64.54	107	--	--	1409	112	--	--	350.3	--	7641	--	18.48	--	21.79	--	4.05	3.79	3.43	3.62	3.64	3.55	2.91	2.77	
BTS 8270	2	Yes	62.52	103	--	--	1371	109	--	--	344.2	--	7542	--	18.23	--	21.89	--	3.56	3.44	3.61	3.69	3.85	3.85	2.28	2.34	
BTS 8365	1	Yes	65.38	108	--	--	1387	111	--	--	353.0	--	7498	--	18.66	--	20.96	--	3.95	4.07	3.69	3.78	3.73	3.67	2.56	2.35	
BTS 8927	5	Yes	63.12	104	43.12	114	1298	103	985	113	346.0	312.6	7102	7070	18.33	16.58	20.46	22.44	4.22	4.34	3.67	4.04	3.87	3.72	2.18	2.14	
Crystal 022	4	Yes	66.63	110	44.07	117	1453	116	1047	120	356.6	315.8	7782	7422	18.81	16.80	21.85	23.24	4.78	4.72	3.33	3.64	3.87	3.75	2.33	2.54	
Crystal 130	3	Yes	58.82	97	--	--	1385	110	--	--	333.0	--	7839	--	17.72	--	23.53	--	4.27	3.92	3.46	3.59	3.79	3.67	2.58	2.67	
Crystal 138	2	Yes	64.24	106	--	--	1391	111	--	--	349.4	--	7576	--	18.50	--	21.77	--	4.47	4.60	3.56	3.70	3.77	3.73	2.60	2.79	
Crystal 260	2	Yes	60.37	100	--	--	1364	109	--	--	337.7	--	7634	--	17.94	--	22.61	--	3.60	3.37	3.58	3.83	3.80	3.75	2.64	2.51	
Crystal 269	2	Yes	61.85	102	--	--	1405	112	--	--	342.2	--	7758	--	18.14	--	22.61	--	4.42	4.48	3.07	3.29	4.06	4.18	2.28	2.41	
Crystal 361	1	Yes	60.40	100	--	--	1262	101	--	--	337.9	--	7080	--	18.03	--	21.01	--	3.71	3.52	3.13	3.47	3.99	3.88	2.31	2.16	
Crystal 364	NC	Yes	55.79	92	--	--	1293	103	--	--	323.7	--	7556	--	17.23	--	23.38	--	4.37	4.41	3.38	3.58	3.60	3.69	2.23	2.18	
Crystal 369	1	Yes	60.53	100	--	--	1272	101	--	--	338.3	--	7128	--	18.01	--	21.06	--	3.88	3.96	3.35	3.40	4.27	4.49	2.28	2.27	
Crystal 793	7	Yes	61.18	101	37.97	101	1316	105	886	101	340.1	294.9	7324	6732	18.02	15.80	21.56	22.43	3.98	4.13	3.17	3.45	4.18	4.04	2.46	2.43	
Crystal 912	4	Yes	53.61	89	35.21	93	1207	96	886	101	317.3	285.5	7142	7041	16.92	15.44	22.52	24.35	5.04	5.05	3.27	3.42	3.12	3.29	4.25	3.86	
Hilleshög HIL2389	3	Yes	60.04	99	--	--	1301	104	--	--	336.7	--	7312	--	17.86	--	21.77	--	4.53	4.55	3.80	3.68	4.01	4.04	5.44	5.46	
Hilleshög HIL2479	1	No	58.75	97	--	--	729	58	--	--	332.8	--	4074	--	17.82	--	11.93	--	4.21	4.23	4.18	4.47	3.50	3.87	4.46	4.53	
Hilleshög HIL2480 **	1	No	60.05	99	--	--	963	77	--	--	336.8	--	5435	--	18.02	--	16.33	--	4.24	4.16	4.06	4.25	3.37	3.51	2.62	2.84	
Maribo MA717	7	No	55.88	92	34.86	92	976	78	731	84	324.1	284.0	5649	5834	17.30	15.24	17.42	20.22	4.82	4.83	4.88	4.53	3.90	4.05	5.06	4.71	
SX 1815	3	No	62.01	103	--	--	1353	108	--	--	342.6	--	7471	--	18.16	--	21.78	--	4.74	4.72	4.28	4.12	4.09	4.20	6.05	5.80	
SX 1835 **	1	No	58.83	97	--	--	1124	90	--	--	333.0	--	6430	--	17.70	--	19.45	--	4.60	4.63	4.43	4.37	3.79	3.93	4.69	4.10	
SV 231	1	No	59.63	99	--	--	1191	95	--	--	335.5	--	6783	--	17.73	--	20.45	--	4.73	4.75	4.11	4.27	3.81	3.76	5.06	4.84	
Newly Approved																											
BTS 8440	NC	Yes	64.45	107	--	--	1310	104	--	--	350.2	--	7132	--	18.50	--	20.44	--	3.18	3.04	3.61	3.82	3.82	3.75	2.49	2.73	
BTS 8457	NC	No	61.39	102	--	--	1259	100	--	--	340.8	--	7039	--	17.99	--	20.82	--	4.07	3.81	3.96	4.15	3.76	3.74	2.69	2.52	
Crystal 470	NC	Yes	58.51	97	--	--	1186	95	--	--	332.0	--	6662	--	17.62	--	19.64	--	4.21	3.96	3.74	3.71	3.78	3.82	2.73	2.49	
Crystal 471	NC	Yes	63.47	105	--	--	1274	102	--	--	347.1	--	6988	--	18.37	--	20.00	--	4.10	3.79	3.62	3.81	3.86	3.77	2.40	2.25	
Hilleshög HIL2493 **	NC	No	59.64	99	--	--	1226	98	--	--	335.5	--	6915	--	17.75	--	20.68	--	4.65	4.74	4.27	4.21	3.56	3.69	4.38	4.55	
SV 345 **	NC	No	58.74	97	--	--	1046	83	--	--	332.7	--	5920	--	17.63	--	17.70	--	4.84	4.89	4.12	4.16	3.59	3.54	4.94	4.65	
AP CK SUS RR#2			56.88	94	--	--	687	55	--	--	327.1	--	3975	--	17.45	--	12.40	--									
Trial mean (includes AP CK SUS RR#2)			60.45	100	--	--	1254	100	--	--	337.9	--	7016	--	17.95	--	20.75	--									
AP SUS RR#5			--	--	30.80	82	--	--	590	67	--	269.8	--	4984	--	14.75	--	18.00									
Trial mean (includes AP SUS RR#5)			--	--	37.77	100	--	--	874	100	--	294.1	--	6673	--	15.79	--	22.33									
Mean of specialty varieties			61.1	101	39.42	104	1352	108	946	108	339.8	299.9	7532	7095	18.04	16.06	22.16	23.40									

+++ 2024 Sites include Perley

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+++ 2020 Data from Climax, Perley, and Grandin

++ 2024 Revenue estimate based on a \$54.53 beet payment (5-yr ave) at 17.5% crop with a 1.5% loss to molasses. 2020 Revenue estimate based on \$45.12 beet payment. Revenue does not consider hauling or production costs.

+ Yes indicates varieties that have met the current Aphanomyces Specialty requirement for 2025 with a 2 yr rating ≤ 4.0 or previously met Aphanomyces Specialty requirement maintaining a 3 year rating ≤ 4.3.

%Mn = Percent of 2024 trial mean (includes previously approved varieties and susceptible check AP SUS RR#2)

%Mn^ = Percent of 2020 trial mean (including susceptible check AP SUS RR#5)

** Does not meet Full Market Approval. Meets Aphanomyces and/or Rhizoctonia Specialty Approval.

* 2025 Cercospora from Saginaw MI, Randolph MN, Averill MN, Caledonia ND and Stephen MN (res.<4.4, susc>5.0). Aphanomyces ratings from Shakopee MN and Glyndon MN (res.<4.0, susc>4.8).

Rhizoctonia from Saginaw MI, Moorhead MN (two sites) and Crookston MN (res.<3.8, susc>5). Fusarium from Moorhead MN and Sabin MN (res.<3.0, susc>5.0). MG indicates muligenic resistance to Rhizomania.

* 2024 Cercospora from Saginaw MI, Randolph MN, Foxhome MN, Averill MN and Forest River ND (res.<4.4, susc>5.0). Aphanomyces ratings from Shakopee MN, Glyndon MN, and Perley MN (res.<4.0, susc>4.8).

Rhizoctonia from Saginaw MI, Moorhead MN (two sites) and Crookston MN (res.<3.8, susc>5). Fusarium from Moorhead MN and Sabin MN (res.<3.0, susc>5.0).

Table 4. Performance Data of Conventional Varieties During 2017, 2018, 2019 Growing Seasons (All Locations Combined) +++

Variety	Yrs Com	Rev/Ton ++					Rev/Acre ++					Rec/Ton		Rec/Acre		Sugar		Yield		Molasses		Emergence *		Cerc. *		Aphan. *		Rhizoc. *		Fusarium *		Rzm *	
		19	2 Yr	2Y%	3Yr	3Y%	19	2 Yr	2Y%	3Yr	3Yr%	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr	19	2 Yr
Number of locations →		3	8	14			3	8	14			3	8	3	8	3	8	3	8	3	8	3	8	3	6	2	3	3	6	2	4		
Previous Approved																																	
Crystal 620	NC	41.74	47.24	97	49.48	99	1394	1631	118	1656	104	311	326	10403	11312	16.59	17.38	33.7	34.9	1.07	1.06	54	67	3.95	4.13	4.7	4.2	5.1	4.6	2.5	3.0	MG	
Crystal R761	10	38.62	43.53	89	46.06	92	1375	1582	115	1618	101	299	313	10742	11457	16.18	16.86	36.0	36.7	1.21	1.19	61	72	4.98	4.85	4.4	4.3	4.9	4.6	3.0	3.6	MG	
Crystal 840	NC	39.30	45.48	93	30.32	60	1288	1585	115	NA	--	302	320	9916	11173	16.23	17.10	33.1	35.1	1.15	1.10	52	65	4.18	4.25	4.0	3.9	4.7	4.4	2.7	3.1	MG	
Hilleshög HM3035Rz	13	43.77	49.17	101	50.89	101	1294	1379	100	1405	88	318	333	9439	9422	16.91	17.65	29.9	28.5	1.02	1.00	72	71	4.42	4.32	5.1	5.2	4.4	4.2	4.1	4.3	SG	
Seedex 8869 Cnv	NC	40.88	45.47	93	48.33	96	1374	1617	117	1658	104	307	320	10388	11418	16.40	17.00	33.9	35.8	1.02	1.00	64	74	4.52	4.59	4.8	4.8	5.1	4.9	3.5	3.7	MG	
SV 48777	NC	45.18	50.25	103	52.63	105	1452	1634	118	1656	104	323	337	10342	10954	17.08	17.78	31.8	32.5	0.94	0.93	63	73	4.10	4.33	4.9	5.0	5.0	4.7	4.3	4.4	MG	
Newly Approved																																	
Crystal 950	NC	41.21	--	--	--	--	1430	--	--	--	--	309	--	10719	--	16.49	--	34.7	--	1.06	--	62	--	4.72	--	4.8	--	4.8	--	2.9	--	MG	
Benchmark var. mean		44.35	48.87	50.20			1427	1381	1595			320	332	10330	10887	17.07	17.68	32.4	33.0	1.08	1.09	66	75										

+++ 2019 Sites include Grand Forks, Scandia, and Bathgate

+++ 2018 Sites include Casselton, Ada, Grand Forks, Scandia, and St. Thomas

+++ 2017 Sites include Casselton, Hendrum, Grand Forks, Scandia, St. Thomas, and Humboldt

++ 2019 Revenue estimate is based on a \$44.38 beet payment (5-yr ave) at 17.5% sugar and 1.5% loss to molasses. 2018 Revenue estimate is based on a \$46.40 beet payment and 2017 Revenue estimate is based on a \$48.49 beet payment.

+ Emergence is % of planted seeds producing a 4 leaf beet.

* 2019 Aphanomyces ratings from Shakopee MN (res<4.4, susc>5.0). Cercospora ratings from Randolph MN, Foxhome MN & Saginaw MI (res<4.5, susc>5.0). Fusarium ratings from Moorhead MN (res<3.0, susc>5.0).

Rhizoctonia from Moorhead MN, Crookston MN, and Saginaw MI (res<3.8, susc>5). MG (Multigenic) contains multiple genes for Rhizomania resistance. SG (Single gene) contains a single gene for Rhizomania resistance.

* 2018 Aphanomyces ratings from Shakopee MN and Georgetown MN (res<4.4, susc>5.0). Cercospora ratings from Randolph MN, Foxhome MN & Saginaw MI (res<4.5, susc>5.0). Fusarium ratings from Moorhead MN (res<3.0, susc>5.0).

Rhizoctonia from Moorhead MN and Saginaw MI (res<3.8, susc>5).

Created 10/21/2025

Table 5. ACSC Official Trial Disease Nurseries 2023-2025 (Varieties tested in 2025)

Cercospora, Aphanomyces, Rhizoctonia & Fusarium

Code	Description	< 4.5 Cercospora > 5.0					< 4.0 Aphanomyces > 4.8					< 3.82 Rhizoctonia > 5.0					< 3.0 Fusarium > 5.0					Rhizomania
		25 Mean	24 Mean	23 Mean	2 Yr Mean	3 Yr Mean	25 Mean	24 Mean	23 Mean	2 Yr Mean	3 Yr Mean	25 Mean	24 Mean	23 Mean	2 Yr Mean	3 Yr Mean	25 Mean	24 Mean	23 Mean	2 Yr Mean	3 Yr Mean	
Previously Approved																						
534	BTS 8018	3.88	3.35	2.42	3.62	3.22	3.51	3.73	3.95	3.62	3.73	3.83	3.68	4.06	3.75	3.86	2.42	2.19	3.20	2.31	2.61	MG
506	BTS 8034	4.28	3.69	2.54	3.99	3.51	3.52	4.48	3.80	4.00	3.93	4.20	4.38	4.09	4.29	4.22	2.31	1.89	2.72	2.10	2.31	MG
529	BTS 8156	4.38	3.87	2.53	4.12	3.59	3.59	4.27	3.97	3.93	3.94	4.38	4.28	3.93	4.33	4.20	2.36	2.15	2.80	2.25	2.44	MG
504	BTS 8226	4.05	3.52	2.33	3.79	3.30	3.43	3.81	3.72	3.62	3.65	3.64	3.46	3.78	3.55	3.62	2.91	2.64	3.85	2.77	3.13	MG
549	BTS 8270	3.56	3.32	2.43	3.44	3.10	3.61	3.76	3.90	3.69	3.76	3.85	3.86	3.67	3.85	3.79	2.28	2.41	3.46	2.34	2.71	MG
505	BTS 8365	3.95	4.18	4.15	4.07	4.10	3.69	3.87	3.62	3.78	3.73	3.73	3.60	3.69	3.67	3.67	2.56	2.15	3.43	2.35	2.71	MG
512	BTS 8927	4.22	4.45	4.38	4.34	4.35	3.67	4.41	3.26	4.04	3.78	3.87	3.57	3.98	3.72	3.81	2.18	2.10	3.08	2.14	2.45	MG
537	Crystal 022	4.78	4.66	4.97	4.72	4.81	3.33	3.95	3.66	3.64	3.65	3.87	3.63	3.85	3.75	3.78	2.33	2.75	3.43	2.54	2.84	MG
525	Crystal 130	4.27	3.56	2.60	3.92	3.48	3.46	3.72	4.00	3.59	3.73	3.79	3.54	3.69	3.67	3.67	2.58	2.76	3.55	2.67	2.96	MG
545	Crystal 138	4.47	4.73	4.77	4.60	4.66	3.56	3.84	4.06	3.70	3.82	3.77	3.68	3.81	3.73	3.76	2.60	2.98	3.76	2.79	3.11	MG
517	Crystal 260	3.60	3.13	2.15	3.37	2.96	3.58	4.08	3.84	3.83	3.83	3.80	3.70	3.46	3.75	3.65	2.64	2.38	3.38	2.51	2.80	MG
503	Crystal 269	4.42	4.54	4.38	4.48	4.45	3.07	3.50	3.62	3.29	3.40	4.06	4.30	3.90	4.18	4.09	2.28	2.54	4.11	2.41	2.98	MG
546	Crystal 361	3.71	3.33	2.24	3.52	3.09	3.13	3.80	3.45	3.47	3.46	3.99	3.78	3.54	3.88	3.77	2.31	2.02	3.24	2.16	2.52	MG
539	Crystal 364	4.37	4.46	4.26	4.41	4.36	3.38	3.78	3.79	3.58	3.65	3.60	3.77	3.79	3.69	3.72	2.23	2.12	3.12	2.18	2.49	MG
542	Crystal 369	3.88	4.03	3.78	3.96	3.90	3.35	3.45	4.02	3.40	3.61	4.27	4.72	3.98	4.49	4.32	2.28	2.25	3.24	2.27	2.59	MG
516	Crystal 793	3.98	4.28	4.20	4.13	4.15	3.17	3.72	4.31	3.45	3.73	4.18	3.89	4.35	4.04	4.14	2.46	2.40	3.40	2.43	2.76	MG
536	Crystal 912	5.04	5.06	5.00	5.05	5.03	3.27	3.57	3.41	3.42	3.42	3.12	3.45	3.50	3.29	3.36	4.25	3.46	3.82	3.86	3.84	MG
532	Hilleshög HIL2389	4.53	4.57	4.51	4.55	4.54	3.80	3.56	5.42	3.68	4.26	4.01	4.08	4.45	4.04	4.18	5.44	5.49	5.50	5.46	5.47	MG
538	Hilleshög HIL2479	4.21	4.25	4.09	4.23	4.18	4.18	4.76	4.38	4.47	4.44	3.50	4.24	3.43	3.87	3.72	4.46	4.59	4.43	4.53	4.50	MG
524	Hilleshög HIL2480 **	4.24	4.08	4.00	4.16	4.11	4.06	4.43	4.30	4.25	4.26	3.37	3.65	3.70	3.51	3.57	2.62	3.06	3.30	2.84	2.99	MG
527	Maribo MA717	4.82	4.85	5.04	4.83	4.90	4.88	4.18	4.61	4.53	4.55	3.90	4.19	4.10	4.05	4.07	5.06	4.36	4.53	4.71	4.65	MG
533	SX 1815	4.74	4.70	4.74	4.72	4.73	4.28	3.96	6.15	4.12	4.80	4.09	4.30	4.35	4.20	4.25	6.05	5.54	5.60	5.80	5.73	MG
530	SX 1835 **	4.60	4.66	4.55	4.63	4.60	4.43	4.31	5.99	4.37	4.91	3.79	4.07	3.55	3.93	3.80	4.69	3.52	3.92	4.10	4.04	MG
526	SV 231	4.73	4.77	4.83	4.75	4.78	4.11	4.43	6.25	4.27	4.93	3.81	3.71	3.69	3.76	3.74	5.06	4.62	4.21	4.84	4.63	MG
Newly Approved																						
511	BTS 8440	3.18	2.90	--	3.04	--	3.61	4.03	--	3.82	--	3.82	3.68	--	3.75	--	2.49	2.97	--	2.73	--	MG
518	BTS 8457	4.07	3.55	--	3.81	--	3.96	4.33	--	4.15	--	3.76	3.71	--	3.74	--	2.69	2.35	--	2.52	--	MG
522	Crystal 470	4.21	3.71	--	3.96	--	3.74	3.67	--	3.71	--	3.78	3.85	--	3.82	--	2.73	2.25	--	2.49	--	MG
548	Crystal 471	4.10	3.49	--	3.79	--	3.62	3.99	--	3.81	--	3.86	3.69	--	3.77	--	2.40	2.10	--	2.25	--	MG
553	Hilleshög HIL2493 **	4.65	4.82	--	4.74	--	4.27	4.15	--	4.21	--	3.56	3.83	--	3.69	--	4.38	4.72	--	4.55	--	MG
535	SV 345 **	4.84	4.93	--	4.89	--	4.12	4.20	--	4.16	--	3.59	3.48	--	3.54	--	4.94	4.35	--	4.65	--	MG

Created 10/21/2025

** Does not meet full market approval. Meets Aphanomyces and/or Rhizoctonia Specialty approval.

Green font ratings indicate specialty or good resistance.

Red font ratings indicate level of concern for some fields.

-- indicates data not available

MG (Multigenic) = Contains multiple genes for Rhizomania resistance

Table 6. Root Aphid Ratings
ACSC, KWS and Magno Seed from 2023 - 2025

Code	Variety	Moorhead, MN ^X (1=Exc - 4=Poor)					Shakopee, MN ^Y (1=Exc - 4=Poor)					Longmont, CO ^Z (% Infested Plants)				
		2023*	2024	2025	2 Yr	3 Yr	2023	2024	2025	2 Yr	3 Yr	2023**	2024	2025**	2 Yr	3 Yr
721	BTS 8018	--	1.17	1.33	1.25	--	1.16	1.00	1.00	1.00	1.05	--	5.00	--	--	--
716	BTS 8034	--	1.00	1.33	1.17	--	1.28	1.00	1.00	1.00	1.09	--	7.86	--	--	--
712	BTS 8156	--	1.00	1.33	1.17	--	1.20	1.04	1.04	1.04	1.09	--	3.00	--	--	--
714	BTS 8226	--	1.00	1.17	1.08	--	1.00	1.04	1.08	1.06	1.04	--	2.91	--	--	--
729	BTS 8270	--	1.00	1.17	1.08	--	1.08	1.04	1.12	1.08	1.08	--	4.79	--	--	--
732	BTS 8365	--	1.00	1.33	1.17	--	--	1.12	1.00	1.06	--	--	1.35	--	--	--
724	BTS 8440	--	--	1.17	--	--	--	--	1.04	--	--	--	--	--	--	--
706	BTS 8457	--	--	1.33	--	--	--	--	1.00	--	--	--	--	--	--	--
731	BTS 8927	--	1.00	1.50	1.25	--	1.12	1.08	1.00	1.04	1.07	--	3.97	--	--	--
708	Crystal 022	--	1.00	1.00	1.00	--	1.04	1.00	1.08	1.04	1.04	--	1.92	--	--	--
710	Crystal 130	--	1.00	1.17	1.08	--	1.00	1.12	1.04	1.08	1.05	--	5.10	--	--	--
701	Crystal 138	--	1.00	1.17	1.08	--	1.04	1.00	1.00	1.00	1.01	--	2.45	--	--	--
730	Crystal 260	--	1.00	1.00	1.00	--	1.12	1.04	1.00	1.02	1.05	--	1.04	--	--	--
719	Crystal 269	--	1.00	1.00	1.00	--	1.04	1.04	1.00	1.02	1.03	--	8.60	--	--	--
722	Crystal 361	--	1.00	1.17	1.08	--	--	1.04	1.00	1.02	--	--	2.16	--	--	--
707	Crystal 364	--	1.00	1.50	1.25	--	--	1.08	1.04	1.06	--	--	3.58	--	--	--
702	Crystal 369	--	1.00	1.00	1.00	--	--	1.04	1.08	1.06	--	--	7.20	--	--	--
718	Crystal 470	--	--	1.17	--	--	--	--	1.04	--	--	--	--	--	--	--
720	Crystal 471	--	--	1.17	--	--	--	--	1.00	--	--	--	--	--	--	--
728	Crystal 793	--	1.00	1.33	1.17	--	1.08	1.12	1.00	1.06	1.07	--	5.00	--	--	--
715	Crystal 912	--	1.00	1.50	1.25	--	1.04	1.04	1.00	1.02	1.03	--	10.92	--	--	--
711	Hilleshög HIL2389	--	1.67	2.50	2.08	--	2.04	2.04	2.32	2.18	2.13	--	11.03	--	--	--
709	Hilleshög HIL2479	--	1.00	1.50	1.25	--	--	PE	1.16	--	--	--	1.52	--	--	--
726	Hilleshög HIL2480	--	1.00	1.33	1.17	--	--	1.20	1.08	1.14	--	--	3.33	--	--	--
703	Hilleshög HIL2493	--	--	2.00	--	--	--	--	1.88	--	--	--	--	--	--	--
713	Hilleshög HIL2494	--	--	2.50	--	--	--	--	2.08	--	--	--	--	--	--	--
704	Maribo MA717	--	1.67	3.17	2.42	--	3.40	3.12	2.40	2.76	2.97	--	5.86	--	--	--
705	SX 1815	--	1.00	2.00	1.50	--	2.36	1.76	1.48	1.62	1.87	--	3.01	--	--	--
723	SX 1835	--	1.83	1.83	1.83	--	--	1.64	1.76	1.70	--	--	2.78	--	--	--
727	SV 231	--	1.67	2.50	2.08	--	--	2.04	1.56	1.80	--	--	0.00	--	--	--
717	SV 345	--	--	1.67	--	--	--	--	2.04	--	--	--	--	--	--	--
725	SV 347	--	--	2.33	--	--	--	--	2.00	--	--	--	--	--	--	--
733	Root Aphid Res CK#3	--	1.00	1.33	1.17	--	1.08	1.00	1.00	1.00	1.03	--	5.27	--	--	--
734	Root Aphid Susc CK#6	--	2.33	3.33	2.83	--	3.20	2.48	2.21	2.35	2.63	--	4.20	--	--	--
735	Root Aphid Susc CK#8	--	2.17	3.33	2.75	--	--	3.76	2.60	3.18	--	--	3.75	--	--	--
736	Root Aphid Res CK#4	--	--	1.67	--	--	--	--	1.00	--	--	--	--	--	--	--
	Trial Mean			1.63					1.34							
	Sus. Check Mean			3.33					2.41							
	Mean LSD (0.05)			0.69					0.37							

^X Growth room assay based on a 1-4 rating scale (1 = no aphids, 4 = very susceptible), Moorhead, MN, ACSC

Created 11/17/2025

^Y Greenhouse assay based on a 1-4 rating scale (1 = no aphids, 4 = very susceptible), Shakopee, MN, KWS

^Z Field trial based on incidence (% infested plants), Longmont, CO, Magno Seed, LLC

* Growth room assay not conducted

** No data available due to low root aphid levels

PE = not evaluated due to poor emergence

Table 7. Planting & Harvest Dates, Previous Crop and Disease Levels for 2025 ACSC Official Trial Sites *

Yield Trials Location	District / Trial Type	Cooperator	Planting Date	Harvest Date	Preceding Crop	Soil Type	Diseases Present @						Comments
							Aph	Rhc	Rzm	Fus	Maggot	Rt Aphid	
Casselton ND	Mhd	Todd Weber Farms	5/6	10/4	Wheat	Medium	L-M	L	N	N	N	N	Very good overall
Averill MN	Mhd	Tang Farms	5/10	9/8	Wheat	Medium/Light	N	N	N	N	N	N	Very good overall
Perley MN	Mhd/Aph	TD Hoff Partnership	5/7	10/3	Wheat	Heavy	L	L	N	N	N	N	Lower and variable stands
Ada MN	Hill	Mark Maring	4/25	9/9	Wheat	Medium	N	N	N	N	N	N	Very good overall, Cerc. developing prior to harvest
Caledonia ND	Hill	Cotton Farms	5/28	10/2	Wheat	Medium/Light	N	N	N	N	N	N	Replanted with excellent uniformity
Scandia MN	Crk	Deboer Farms	4/25	9/29	Wheat	Medium	N	N	N	N	N	N	Early nurse crop competition, some rows dropped due to row 7 planter issue
Reynolds ND	EGF	Drees Farming Association	5/8	9/10	Wheat	Medium/Light	N	N	N	N	N	N	Excellent overall
East Grand Forks MN	EGF	Mark Holy	5/14	--	Wheat	Medium	N	N	N	N	N	N	Abandoned due to poor emergence
Alvarado MN	EGF	Nordling Farms	5/9	9/24	Wheat	Heavy	L	N	N	N	N	N	Some gappy stands but uniform canopy
Stephen MN	Dtn	Brent Riopelle	4/26	9/23	Wheat	Heavy	N	N	N	N	N	L	Excellent overall, late moisture stress
St Thomas ND	Dtn	Baldwin Farms	5/4	9/16	Wheat	Light	N	N	N	N	L-M	N	Very good overall, Verticillium wilt present
Northcote MN	Dtn	Younggren Farms	4/26	9/18	Wheat	Heavy	N	L	N	N	N	N	Some rows dropped due to tillage wheel track effects
Bathgate ND	Dtn	McCull Farms	5/3	9/26	Wheat	Medium/Heavy	N	L	N	N	N	N	Lower and variable stands

Disease Trials Location	District / Trial Type	Cooperator	Planting Date	Rating Date	Preceding Crop	Soil Type	Diseases Present @						Comments
							Aph	Rhc	Rzm	Fus	Maggot	Rt Aphid	
Moorhead Fus-N MN	Fus Nurs	Nelson Farms	5/7	6/26 to 7/15	Wheat	Medium/Heavy	N	N	N	M	N	N	Moderate Fusarium pressure, rated 4 times
Sabin Fus-S MN	Fus Nurs	Krabbenhoft & Sons Farm	5/7	7/2 to 7/25	Wheat	Medium/Light	N	N	N	L-M	N	N	Later onset of light to moderate Fusarium pressure, rated 4 times
Mhd Rhc-N MN	Rhc Nurs	Jon Hickel, ACSC	5/13	8/19	Soybean	Heavy	N	M-V	N	L	N	N	Moderate to heavy Rhizoctonia pressure
Mhd Rhc-S MN	Rhc Nurs	Jon Hickel, ACSC	5/13	7/31	Soybean	Heavy	N	M	N	L	N	N	Moderate Rhizoctonia pressure
NWROC MN	Rhc Nurs	Maureen Aubol, U of MN	5/9	8/13	Soybean	Medium/Heavy	N	M	N	N	N	N	Moderate Rhizoctonia pressure
Saginaw MI	Rhc Nurs	Linda Hanson, USDA & BSDF	5/12	8/7 to 8/8	--	--	L	V	N	N	N	N	Severe Rhizoctonia pressure
Shakopee MN	Aphanomyces	Patrick O'Boyle, KWS	5/12	8/26	--	--	M-V	L	N	N	N	N	Nice range of moderate Aphanomyces symptoms
Glyndon MN	Aphanomyces	Ryan Brady, Magno Seed	5/27	8/28	--	Light	L-M	N	N	L	N	N	Light to moderate Aphanomyces pressure
Perley MN	Aphanomyces	TD Hoff Partnership	5/7	--	Wheat	Heavy	L	L	N	N	N	N	Not rated due to low Aphanomyces pressure
Alvarado MN	Aphanomyces	Nordling Farms	5/9	--	Wheat	Heavy	L	N	N	N	N	N	Not rated due to low Aphanomyces pressure
Shakopee MN	Root Aphid	Patrick O'Boyle, KWS	--	--	--	--	NA	NA	NA	NA	NA	NA	Greenhouse trial
Moorhead MN TSC	Root Aphid	ACSC	--	--	--	--	NA	NA	NA	NA	NA	NA	Growth chamber trial
Longmont CO	Root Aphid	Ryan Brady, Magno Seed	5/6	--	--	--	NA	NA	NA	NA	NA	L	Not rated due to low root aphid pressure
Saginaw MI	Cercospora	Linda Hanson, USDA & BSDF	4/30	7/30 to 8/20	--	--	N	N	N	N	N	N	Very nice Cercospora pressure, inoculated
Randolph MN	Cercospora	Patrick O'Boyle, KWS	5/30	7/28 to 8/28	--	--	N	N	N	N	N	N	Severe Cercospora pressure, inoculated
Averill MN	Cercospora	Tang Farms	5/10	8/12 to 9/17	Wheat	Medium/Light	N	N	N	N	N	N	Severe Cercospora pressure, non-inoculated
Caledonia ND	Cercospora	Cotton Farms	5/28	8/28 to 9/30	Wheat	Medium/Light							Moderate Cercospora pressure, non-inoculated
Stephen MN	Cercospora	Brent Riopelle	4/26	8/21 to 9/25	Wheat	Heavy	N	N	N	N	N	N	Moderate Cercospora pressure, non-inoculated

* Fertilizer applied in accordance with cooperative recommendations.

@ Disease notes for Aphanomyces, Rhizoctonia, Rhizomania, Fusarium, Root Maggot and Root Aphids were based upon visual evaluations (N=none, L=light, M=moderate, V=severe, NA=not observed)

Created 10/03/2024

Table 8. Seed Treatments Used on Varieties in Official Variety Trials in 2025

Description	Years in Trial	Years Comm.	Fungicide Seed Treatment			Insecticide (Springtails & Maggots)	Priming (Emergence)
			(Damping-off)	(Rhizoctonia)	(Aphanomyces)		
ACSC Commercial							
BTS 8018	6	4	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8034	6	4	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8156	5	3	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8226	4	2	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8270	4	2	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8365	3	1	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8927	7	5	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
Crystal 022	6	4	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 130	5	3	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 138	5	2	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 260	4	2	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 269	4	2	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 361	3	1	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 369	3	1	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 793	9	7	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 912	7	4	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Hilleshög HIL2389	5	3	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Hilleshög HIL2479	3	1	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Hilleshög HIL2480	3	1	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Maribo MA717	9	7	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
SX 1815	5	3	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
SX 1835	3	1	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
SV 231	3	1	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
BTS 8815 (CommBench)	8	6	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
Crystal 803 (CommBench)	8	5	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
AP CK MOD RES RR#7	7	4	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
AP CK MOD SUS RR#8	6	4	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
ACSC Experimental							
BTS 8440	2	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8457	2	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8509	1	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8513	1	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8520	1	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8531	1	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8555	1	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8580	1	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
BTS 8598	1	NC	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
Crystal 364	3	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 470	2	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 471	2	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 580	1	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 581	1	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 583	1	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 584	1	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 591	1	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Crystal 594	1	NC	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
Hilleshög HIL2493	2	NC	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Hilleshög HIL2494	2	NC	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Hilleshög HIL2532	1	NC	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Hilleshög HIL2533	1	NC	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Hilleshög HIL2534	1	NC	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
Hilleshög HIL2535	1	NC	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
SV 251	1	NC	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
SV 254	1	NC	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
SV 255	1	NC	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
SV 256	1	NC	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
SV 345	2	NC	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
SV 347	2	NC	Apron XL/Thiram	Zeltera	Tach 45	NipsIt	Xbeet®
BTS 8815 (CommBench)	8	6	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
Crystal 803 (CommBench)	8	5	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®
BTS 8927 (CommBench)	7	5	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
HIL2389 (CommBench)	5	3	Apron XL/Thiram/Maxim	Vibrance	Tach 45	Cruiser	Xbeet®
BTS 8156 (1stYearBench)	5	3	Allegiance/Thiram	Kabina	Tach 35	Poncho Beta	Ultipro
AP CK MOD RES RR#7	7	4	Allegiance/Thiram	Kabina	Tach 45	Poncho Beta	Xbeet®

Created 2/26/2025

Table 9. 2025 Performance of Varieties - ACSC RR Official Trials
12 sites

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %	
Commercial Trial																		
BTS 8018	106	324.3	99	11348	103	62.57	98	2179	101	35.15	17.23	1.01	16.22	219	1403	333	74.6	
BTS 8034	122	314.0	96	11001	100	58.73	92	2051	95	35.17	16.83	1.14	15.69	261	1638	350	67.5	
BTS 8156	118	323.9	99	11082	100	62.42	97	2130	99	34.30	17.27	1.07	16.20	222	1601	326	69.7	
BTS 8226	117	335.9	102	11373	103	66.83	104	2256	105	33.98	17.74	0.95	16.79	199	1345	305	72.5	
BTS 8270	116	333.1	101	11114	101	65.80	103	2189	102	33.49	17.64	0.99	16.65	191	1459	312	65.3	
BTS 8365	120	338.7	103	10770	97	67.89	106	2151	100	31.93	17.91	0.98	16.93	190	1390	317	63.8	
BTS 8927 (CommBench)	115	333.0	101	11262	102	65.76	103	2215	103	33.99	17.63	0.98	16.65	205	1365	320	72.6	
Crystal 022	105	336.4	102	11185	101	67.03	104	2216	103	33.44	17.80	0.98	16.82	196	1385	323	73.9	
Crystal 130	110	330.8	101	11312	102	64.94	101	2213	103	34.35	17.54	1.00	16.54	202	1435	321	70.6	
Crystal 138	119	331.7	101	11297	102	65.28	102	2216	103	34.18	17.59	1.00	16.59	188	1436	329	68.4	
Crystal 260	104	330.7	101	11333	103	64.91	101	2219	103	34.39	17.48	0.95	16.53	192	1423	289	70.5	
Crystal 269	107	333.0	101	11455	104	65.76	103	2253	105	34.53	17.74	1.09	16.65	217	1519	360	68.6	
Crystal 361	111	337.2	103	11455	104	67.32	105	2282	106	34.09	17.80	0.94	16.86	188	1323	306	74.0	
Crystal 369	109	326.6	99	11445	104	63.41	99	2214	103	35.20	17.43	1.10	16.33	225	1521	366	68.1	
Crystal 793	112	328.2	100	11427	103	64.00	100	2220	103	34.97	17.40	0.99	16.41	215	1389	317	74.5	
Crystal 912	102	311.9	95	11742	106	57.95	90	2174	101	37.79	16.66	1.07	15.59	286	1364	363	74.3	
Hilleshög HIL2389 (CommBench)	103	326.0	99	10945	99	63.20	99	2116	98	33.70	17.31	1.01	16.30	194	1494	317	67.5	
Hilleshög HIL2479	101	324.7	99	10751	97	62.71	98	2067	96	33.24	17.30	1.06	16.24	265	1418	351	72.1	
Hilleshög HIL2480	113	319.8	97	10818	98	60.90	95	2052	95	33.98	17.19	1.20	15.99	288	1508	421	69.3	
Maribo MA717	121	316.2	96	11043	100	59.56	93	2065	96	35.19	16.89	1.08	15.81	263	1503	342	64.1	
SX 1815	108	324.6	99	10925	99	62.66	98	2097	98	33.85	17.25	1.02	16.23	210	1514	314	64.8	
SX 1835	114	317.2	97	11469	104	59.93	93	2160	100	36.25	16.96	1.10	15.86	233	1541	355	72.3	
SV 231	123	319.5	97	11491	104	60.80	95	2179	101	36.07	17.02	1.04	15.98	221	1510	324	75.2	
BTS 8815 (CommBench)	124	328.2	100	10786	98	63.99	100	2095	97	33.02	17.47	1.06	16.41	225	1570	320	71.0	
Crystal 803 (CommBench)	125	327.2	100	11202	101	63.64	99	2174	101	34.32	17.36	1.00	16.36	202	1436	316	74.7	
AP CK MOD RES RR#7	126	312.9	95	11738	106	58.36	91	2178	101	37.69	16.69	1.04	15.65	266	1375	343	76.8	
AP CK MOD SUS RR#8	127	334.7	102	11479	104	66.39	103	2269	106	34.46	17.70	0.97	16.73	187	1393	311	73.3	
Experimental Trial (Comm status)																		
BTS 8440	222	338.7	103	11469	104	67.86	106	2290	107	34.01	17.86	0.92	16.94	172	1362	281	73.5	
BTS 8457	202	333.0	101	11344	103	65.74	102	2228	104	34.30	17.54	0.90	16.65	203	1244	282	72.6	
BTS 8509	211	334.5	102	11354	103	66.31	103	2244	104	34.06	17.63	0.90	16.73	184	1315	276	70.9	
BTS 8513	210	325.4	99	10890	99	62.94	98	2101	98	33.60	17.46	1.20	16.26	219	1636	406	68.8	
BTS 8520	223	326.2	99	11605	105	63.27	99	2242	104	35.73	17.32	1.00	16.32	205	1415	320	69.7	
BTS 8531	228	323.3	98	11585	105	62.17	97	2217	103	36.08	17.20	1.03	16.17	222	1446	328	74.2	
BTS 8555	206	329.8	100	10966	99	64.59	101	2136	99	33.46	17.47	0.98	16.50	186	1364	321	71.5	
BTS 8580	208	332.0	101	10454	95	65.37	102	2054	96	31.60	17.60	1.00	16.60	199	1394	324	74.6	
BTS 8598	214	337.4	103	11378	103	67.37	105	2262	105	33.90	17.83	0.96	16.87	182	1364	306	72.1	
Crystal 364	226	317.6	97	11497	104	60.09	94	2162	101	36.45	16.96	1.07	15.89	248	1561	317	77.6	
Crystal 470	213	325.9	99	11623	105	63.15	98	2247	105	35.77	17.29	0.98	16.31	200	1384	313	73.1	
Crystal 471	217	335.9	102	11370	103	66.82	104	2251	105	34.05	17.74	0.95	16.79	188	1335	303	69.2	
Crystal 580	224	328.5	100	11366	103	64.13	100	2208	103	34.79	17.44	1.01	16.43	200	1441	318	71.2	
Crystal 581	227	338.6	103	11395	103	67.84	106	2270	106	33.88	17.89	0.96	16.93	183	1367	304	66.4	
Crystal 583	201	325.3	99	11344	103	62.90	98	2185	102	35.06	17.22	0.95	16.27	229	1336	293	73.9	
Crystal 584	204	339.1	103	11278	102	68.00	106	2254	105	33.39	17.94	0.98	16.96	183	1393	316	72.6	
Crystal 591	209	339.3	103	11529	104	68.09	106	2307	107	34.09	17.93	0.96	16.97	183	1349	308	73.6	
Crystal 594	203	336.2	102	11662	106	66.92	104	2312	108	34.88	17.74	0.93	16.81	187	1329	290	72.3	
Hilleshög HIL2493	220	317.7	97	11486	104	60.14	94	2164	101	36.34	16.95	1.06	15.89	232	1518	326	73.0	
Hilleshög HIL2494	229	316.1	96	11200	101	59.57	93	2101	98	35.61	16.94	1.13	15.81	222	1588	361	72.4	
Hilleshög HIL2532	216	322.8	98	10615	96	61.98	97	2030	94	33.05	17.20	1.05	16.15	207	1491	336	65.7	
Hilleshög HIL2533	218	317.9	97	11464	104	60.22	94	2159	100	36.28	16.94	1.04	15.90	205	1513	321	72.8	
Hilleshög HIL2534	221	320.5	98	10674	97	61.15	95	2026	94	33.53	17.16	1.13	16.03	217	1569	373	65.7	
Hilleshög HIL2535	205	326.4	99	11086	100	63.33	99	2145	100	34.08	17.33	1.00	16.33	183	1476	311	68.7	
SV 251	207	326.3	99	11519	104	63.31	99	2226	104	35.46	17.37	1.05	16.32	195	1581	311	71.1	
SV 254	212	319.6	97	11178	101	60.82	95	2118	98	35.15	17.06	1.08	15.98	227	1556	329	68.6	
SV 255	215	317.6	97	11433	103	60.10	94	2155	100	36.16	16.94	1.06	15.88	228	1527	323	71.4	
SV 256	225	319.1	97	11162	101	60.65	95	2112	98	35.18	17.02	1.06	15.96	216	1538	327	67.5	
SV 345	219	318.4	97	11366	103	60.41	94	2147	100	35.87	17.00	1.07	15.93	223	1559	327	69.5	
SV 347	230	325.8	99	10913	99	63.12	98	2101	98	33.74	17.36	1.06	16.30	202	1538	330	69.1	
BTS 8815 (CommBench)	231	325.6	99	10870	98	63.06	98	2095	97	33.54	17.35	1.06	16.29	224	1565	317	68.6	
Crystal 803 (CommBench)	232	328.8	100	11188	101	64.24	100	2183	102	34.09	17.44	1.00	16.45	191	1443	315	76.5	
BTS 8927 (CommBench)	233	335.4	102	11249	102	66.64	104	2231	104	33.64	17.71	0.95	16.76	184	1355	299	75.1	
HIL2389 (CommBench)	234	324.6	99	10889	99	62.65	98	2091	97	33.77	17.27	1.04	16.23	210	1518	318	66.8	
BTS 8156 (1stYearBench)	235	325.1	99	10816	98	62.84	98	2085	97	33.39	17.32	1.05	16.27	220	1605	303	69.5	
AP CK MOD RES RR#7	236	311.9	95	11706	106	58.00	90	2169	101	37.69	16.66	1.07	15.59	263	1400	350	74.5	
Comm Benchmark Mean		328.6		11049		64.15		2150		33.76	17.44	1.01		207	1466	318	71.5	
Comm Trial Mean		326.7		11231		63.44		2171		34.55	17.36	1.03						

Table 10. 2025 Performance of Varieties - ACSC RR Official Trials
Casselton ND

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	315.7	98	12711	104	59.37	96	2388	101	40.30	16.72	0.94	15.78	269	1258	293	81.8
BTS 8034	122	316.0	98	12901	105	59.48	96	2432	103	40.79	16.81	1.01	15.80	285	1381	309	71.6
BTS 8156	118	328.1	102	13004	106	63.98	103	2536	108	39.61	17.41	1.00	16.41	235	1384	321	70.7
BTS 8226	117	336.7	104	13632	111	67.13	108	2719	116	40.43	17.70	0.87	16.83	210	1194	279	74.1
BTS 8270	116	327.5	102	12852	105	63.74	103	2502	106	39.39	17.29	0.90	16.39	177	1287	294	69.6
BTS 8365	120	331.7	103	12534	102	65.31	106	2468	105	37.79	17.52	0.93	16.59	249	1240	299	67.2
BTS 8927 (CommBench)	115	321.6	100	12849	105	61.57	100	2459	105	39.90	17.07	0.99	16.08	308	1221	332	78.3
Crystal 022	105	331.8	103	13173	107	65.32	106	2589	110	39.74	17.52	0.94	16.58	250	1278	300	78.9
Crystal 130	110	325.5	101	12933	105	63.01	102	2504	106	39.69	17.21	0.93	16.28	233	1269	301	75.2
Crystal 138	119	328.0	102	13318	109	63.94	103	2596	110	40.55	17.37	0.98	16.39	234	1321	321	71.8
Crystal 260	104	319.0	99	12678	103	60.60	98	2408	102	39.75	16.89	0.93	15.96	242	1283	289	71.1
Crystal 269	107	324.6	101	13469	110	62.68	101	2605	111	41.37	17.33	1.09	16.24	265	1394	376	76.3
Crystal 361	111	329.1	102	13378	109	64.33	104	2616	111	40.61	17.34	0.88	16.46	218	1183	289	80.4
Crystal 369	109	317.1	98	13061	107	59.91	97	2467	105	41.19	16.90	1.05	15.85	295	1334	350	69.4
Crystal 793	112	328.0	102	13661	111	63.92	103	2661	113	41.62	17.25	0.86	16.39	278	1119	264	76.2
Crystal 912	102	301.2	93	13410	109	54.02	87	2403	102	44.55	16.10	1.04	15.06	370	1169	356	80.1
Hilleshög HIL2389 (CommBench)	103	320.8	99	12203	100	61.26	99	2331	99	38.04	16.94	0.90	16.04	215	1237	285	72.7
Hilleshög HIL2479	101	315.2	98	11211	91	59.18	96	2106	90	35.63	16.91	1.15	15.76	313	1285	433	72.6
Hilleshög HIL2480	113	307.3	95	10633	87	56.28	91	1952	83	34.56	16.57	1.20	15.37	391	1296	443	73.1
Maribo MA717	121	305.2	95	11033	90	55.49	90	2005	85	36.22	16.34	1.08	15.26	354	1217	382	72.5
SX 1815	108	320.9	100	12493	102	61.28	99	2383	101	39.02	16.94	0.90	16.04	230	1207	294	69.6
SX 1835	114	309.5	96	11403	93	57.08	92	2109	90	36.71	16.48	1.01	15.47	276	1291	340	79.0
SV 231	123	315.4	98	12142	99	59.27	96	2279	97	38.60	16.77	1.00	15.77	266	1339	323	74.1
BTS 8815 (CommBench)	124	324.6	101	11849	97	62.68	101	2291	97	36.45	17.22	0.99	16.23	263	1302	323	76.0
Crystal 803 (CommBench)	125	322.8	100	12142	99	62.00	100	2331	99	37.54	17.14	1.00	16.14	269	1286	337	82.3
AP CK MOD RES RR#7	126	302.2	94	13335	109	54.38	88	2396	102	44.19	16.13	1.02	15.11	383	1148	346	75.8
AP CK MOD SUS RR#8	127	331.4	103	13034	106	65.17	105	2565	109	39.31	17.46	0.89	16.57	210	1286	274	79.4
Experimental Trial (Comm status)																	
BTS 8440	222	331.8	103	12778	104	65.31	106	2504	106	38.91	17.47	0.91	16.55	190	1296	318	72.6
BTS 8457	202	316.4	98	12443	101	59.67	96	2340	99	39.66	16.74	0.95	15.79	249	1247	346	75.9
BTS 8509	211	322.7	100	12352	101	62.01	100	2358	100	38.44	17.02	0.88	16.14	207	1317	281	70.8
BTS 8513	210	319.2	99	12286	100	60.69	98	2329	99	38.71	17.19	1.24	15.95	198	1630	495	74.9
BTS 8520	223	319.8	99	12426	101	60.89	98	2361	100	38.94	17.00	1.02	15.98	232	1359	374	68.1
BTS 8531	228	312.4	97	12561	102	58.19	94	2338	99	40.17	16.67	1.06	15.62	209	1442	395	76.2
BTS 8555	206	324.5	101	12618	103	62.63	101	2426	103	38.83	17.23	0.98	16.25	185	1346	360	69.4
BTS 8580	208	324.8	101	11554	94	62.76	101	2230	95	35.55	17.23	0.99	16.24	205	1419	347	73.6
BTS 8598	214	327.0	101	12552	102	63.56	103	2434	103	38.71	17.27	0.95	16.31	217	1354	336	75.8
Crystal 364	226	306.5	95	12877	105	56.03	91	2348	100	42.12	16.36	1.03	15.33	259	1481	342	77.7
Crystal 470	213	320.0	99	13216	108	60.99	99	2560	109	40.72	16.97	0.98	15.99	231	1370	341	74.1
Crystal 471	217	331.4	103	12766	104	65.16	105	2499	106	38.61	17.46	0.90	16.56	175	1323	314	73.2
Crystal 580	224	315.0	98	11813	96	59.16	96	2204	94	37.71	16.78	1.02	15.76	207	1491	342	72.7
Crystal 581	227	326.9	101	13139	107	63.52	103	2530	108	40.70	17.32	0.99	16.33	197	1453	339	66.2
Crystal 583	201	314.7	98	13038	106	59.04	95	2436	104	41.69	16.64	0.93	15.71	243	1360	307	80.7
Crystal 584	204	339.3	105	12527	102	68.09	110	2516	107	36.86	17.85	0.88	16.98	179	1285	292	72.5
Crystal 591	209	333.3	103	12425	101	65.86	106	2440	104	37.49	17.57	0.90	16.67	186	1291	314	77.9
Crystal 594	203	327.1	101	13075	107	63.59	103	2534	108	40.21	17.33	1.00	16.33	227	1384	353	75.5
Hilleshög HIL2493	220	305.6	95	11375	93	55.70	90	2060	88	37.59	16.34	1.07	15.27	247	1564	360	74.9
Hilleshög HIL2494	229	298.7	93	11095	90	53.19	86	1977	84	37.24	16.02	1.11	14.91	258	1492	404	73.4
Hilleshög HIL2532	216	320.4	99	11986	98	61.12	99	2275	97	37.78	16.94	0.95	15.99	195	1371	330	73.5
Hilleshög HIL2533	218	289.1	90	11500	94	49.67	80	1963	83	40.14	15.54	1.09	14.45	268	1543	358	80.4
Hilleshög HIL2534	221	312.3	97	11158	91	58.17	94	2074	88	35.82	16.72	1.12	15.61	230	1505	406	63.2
Hilleshög HIL2535	205	314.1	97	11476	94	58.83	95	2135	91	36.82	16.65	0.95	15.70	198	1405	314	73.1
SV 251	207	317.8	99	12673	103	60.17	97	2395	102	39.96	16.89	1.01	15.88	202	1451	356	80.5
SV 254	212	307.5	95	11105	91	56.38	91	2026	86	36.37	16.52	1.16	15.36	321	1624	386	75.0
SV 255	215	313.0	97	11726	96	58.43	94	2191	93	37.60	16.64	1.02	15.62	229	1543	337	78.4
SV 256	225	302.8	94	10519	86	54.69	88	1915	81	34.50	16.16	1.01	15.15	225	1517	328	76.3
SV 345	219	306.9	95	11262	92	56.18	91	2060	88	36.79	16.46	1.13	15.33	251	1632	382	74.4
SV 347	230	311.8	97	11720	96	57.99	94	2175	92	37.57	16.63	1.04	15.60	199	1527	363	73.7
BTS 8815 (CommBench)	231	331.9	103	12312	100	65.35	106	2420	103	37.15	17.50	0.91	16.59	198	1365	286	70.1
Crystal 803 (CommBench)	232	313.8	97	12156	99	58.70	95	2303	98	38.18	16.76	1.07	15.69	218	1551	360	78.2
BTS 8927 (CommBench)	233	334.3	104	12584	103	66.21	107	2490	106	37.51	17.67	0.95	16.72	218	1351	326	74.4
HIL2389 (CommBench)	234	309.9	96	11990	98	57.25	93	2199	93	39.09	16.44	0.95	15.48	223	1435	305	78.1
BTS 8156 (1stYearBench)	235	322.7	100	12163	99	62.00	100	2330	99	37.81	17.18	1.05	16.13	205	1611	346	77.3
AP CK MOD RES RR#7	236	305.4	95	12643	103	55.61	90	2299	98	41.60	16.31	1.05	15.26	269	1433	361	81.9
Comm Benchmark Mean		322.5		12261		61.88		2353		37.98	17.09	0.97		264	1262	319	77.3
Comm Trial Mean		320.6		12631		61.20		2411		39.39	17.01	0.98		270			

Table 11. 2025 Performance of Varieties - ACSC RR Official Trials
Averill MN

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	304.8	100	9266	101	55.34	100	1693	101	30.33	16.52	1.29	15.23	264	1565	485	68.0
BTS 8034	122	282.3	92	8777	96	47.00	85	1452	87	31.26	15.60	1.49	14.11	402	1908	496	61.2
BTS 8156	118	302.3	99	8840	96	54.42	98	1598	96	29.32	16.49	1.37	15.12	325	1876	447	72.2
BTS 8226	117	320.0	105	9208	100	60.97	110	1752	105	28.74	17.20	1.20	16.00	243	1507	439	64.0
BTS 8270	116	317.3	104	8703	95	59.98	108	1640	98	27.31	17.06	1.19	15.87	244	1560	421	55.0
BTS 8365	120	320.7	105	8098	88	61.22	110	1542	92	25.31	17.22	1.19	16.03	238	1543	424	46.7
BTS 8927 (CommBench)	115	318.3	104	9378	102	60.34	109	1773	106	29.59	17.10	1.18	15.92	244	1470	436	74.6
Crystal 022	105	317.6	104	9089	99	60.06	108	1711	102	28.44	17.11	1.24	15.87	245	1539	459	71.0
Crystal 130	110	317.8	104	9358	102	60.14	108	1755	105	29.68	17.12	1.23	15.89	221	1604	447	60.9
Crystal 138	119	308.9	101	9154	100	56.85	102	1682	101	29.70	16.70	1.25	15.45	241	1605	457	60.3
Crystal 260	104	317.5	104	9302	101	60.04	108	1746	104	29.35	17.10	1.22	15.88	262	1564	437	65.5
Crystal 269	107	313.1	103	9274	101	58.41	105	1734	104	29.59	17.03	1.38	15.65	253	1733	518	58.2
Crystal 361	111	327.4	107	9250	101	63.69	115	1792	107	28.16	17.47	1.10	16.37	220	1396	400	69.6
Crystal 369	109	307.9	101	8885	97	56.47	102	1618	97	28.85	16.69	1.29	15.40	255	1689	461	48.3
Crystal 793	112	318.0	104	9390	102	60.21	108	1770	106	29.90	17.06	1.16	15.90	241	1519	409	70.3
Crystal 912	102	293.8	96	9932	108	51.29	92	1736	104	33.62	16.01	1.32	14.69	326	1565	488	72.5
Hilleshög HIL2389 (CommBench)	103	303.9	100	9354	102	55.00	99	1700	102	30.74	16.48	1.28	15.20	264	1778	426	58.6
Hilleshög HIL2479	101	305.2	100	8694	95	55.49	100	1597	95	28.37	16.63	1.38	15.25	382	1621	495	55.6
Hilleshög HIL2480	113	299.2	98	8701	95	53.28	96	1555	93	29.19	16.45	1.49	14.96	363	1785	543	58.1
Maribo MA717	121	294.8	97	8826	96	51.64	93	1523	91	30.15	16.02	1.28	14.74	342	1670	419	59.5
SX 1815	108	290.8	95	9070	99	50.17	90	1575	94	31.06	15.94	1.40	14.54	322	1832	482	57.3
SX 1835	114	299.8	98	9904	108	53.50	96	1775	106	32.82	16.37	1.38	14.99	307	1766	486	68.8
SV 231	123	297.5	97	9850	107	52.65	95	1744	104	33.12	16.15	1.28	14.87	298	1676	434	76.3
BTS 8815 (CommBench)	124	299.2	98	8949	97	53.28	96	1599	96	30.04	16.27	1.31	14.96	316	1796	424	58.8
Crystal 803 (CommBench)	125	299.9	98	9053	99	53.52	96	1618	97	30.01	16.27	1.28	14.99	297	1728	424	71.0
AP CK MOD RES RR#7	126	303.1	99	9639	105	54.70	98	1746	104	31.83	16.33	1.17	15.16	271	1504	411	73.3
AP CK MOD SUS RR#8	127	315.3	103	9901	108	59.24	107	1858	111	31.74	17.03	1.26	15.77	262	1600	456	78.3
Experimental Trial (Comm status)																	
BTS 8440	222	324.6	106	9190	100	62.52	113	1772	106	28.29	17.35	1.12	16.24	227	1475	384	66.2
BTS 8457	202	313.8	103	9031	98	58.60	106	1692	101	28.91	16.75	1.09	15.67	258	1310	387	61.0
BTS 8509	211	315.4	103	8632	94	59.16	107	1619	97	27.39	16.93	1.15	15.78	251	1477	397	62.4
BTS 8513	210	297.8	98	8630	94	52.81	95	1532	92	29.12	16.36	1.48	14.88	346	1805	520	57.8
BTS 8520	223	305.5	100	9117	99	55.62	100	1663	99	30.02	16.46	1.20	15.26	256	1534	415	60.9
BTS 8531	228	314.8	103	9842	107	58.96	106	1844	110	31.26	16.90	1.16	15.74	247	1470	403	70.4
BTS 8555	206	307.9	101	8881	97	56.46	102	1632	98	28.85	16.62	1.24	15.38	255	1514	443	64.7
BTS 8580	208	313.8	103	8726	95	58.59	105	1628	97	27.96	16.85	1.17	15.68	238	1462	411	74.8
BTS 8598	214	323.8	106	9227	100	62.25	112	1779	106	28.45	17.28	1.10	16.19	214	1403	392	68.2
Crystal 364	226	295.2	97	9362	102	51.89	93	1644	98	31.92	16.02	1.27	14.75	327	1701	400	73.1
Crystal 470	213	313.4	103	9146	100	58.48	105	1708	102	29.30	16.81	1.15	15.66	255	1489	385	66.7
Crystal 471	217	323.1	106	9420	103	61.97	112	1806	108	29.18	17.32	1.15	16.18	223	1506	398	70.8
Crystal 580	224	304.4	100	9245	101	55.18	99	1674	100	30.46	16.47	1.25	15.22	270	1540	449	66.1
Crystal 581	227	335.2	110	9448	103	66.36	119	1874	112	28.20	17.84	1.07	16.77	193	1415	369	58.9
Crystal 583	201	303.6	99	9214	100	54.91	99	1671	100	30.49	16.36	1.19	15.17	325	1475	396	67.1
Crystal 584	204	320.1	105	9386	102	60.89	110	1789	107	29.48	17.18	1.20	15.98	236	1473	430	69.2
Crystal 591	209	326.3	107	9516	104	63.16	114	1844	110	29.12	17.43	1.11	16.32	222	1447	385	73.7
Crystal 594	203	331.6	109	9579	104	65.07	117	1887	113	28.79	17.67	1.08	16.59	207	1381	383	67.9
Hilleshög HIL2493	220	291.6	96	9698	106	50.57	91	1687	101	33.19	15.98	1.39	14.58	335	1739	475	70.7
Hilleshög HIL2494	229	289.5	95	9549	104	49.78	90	1647	98	32.94	15.89	1.41	14.48	313	1846	476	69.2
Hilleshög HIL2532	216	293.3	96	9072	99	51.18	92	1589	95	30.78	16.10	1.43	14.67	319	1748	510	56.7
Hilleshög HIL2533	218	304.5	100	10092	110	55.24	99	1828	109	33.26	16.52	1.30	15.22	275	1680	443	70.8
Hilleshög HIL2534	221	280.1	92	8522	93	46.39	84	1411	84	30.43	15.54	1.54	14.00	338	1820	564	65.0
Hilleshög HIL2535	205	307.6	101	9301	101	56.36	101	1709	102	30.26	16.66	1.28	15.38	250	1785	412	58.8
SV 251	207	302.4	99	9875	108	54.46	98	1777	106	32.65	16.44	1.32	15.12	288	1760	435	66.8
SV 254	212	301.4	99	9664	105	54.11	97	1744	104	32.23	16.29	1.26	15.03	276	1660	403	65.3
SV 255	215	285.5	94	9431	103	48.35	87	1599	96	33.10	15.61	1.35	14.26	390	1665	447	68.4
SV 256	225	302.5	99	8968	98	54.53	98	1613	96	29.72	16.41	1.28	15.13	279	1798	396	62.3
SV 345	219	287.4	94	9280	101	49.03	88	1586	95	32.42	15.68	1.33	14.35	365	1674	433	59.5
SV 347	230	305.3	100	9395	102	55.53	100	1713	102	30.76	16.54	1.27	15.27	257	1840	392	60.3
BTS 8815 (CommBench)	231	293.7	96	8831	96	51.32	92	1549	93	30.08	16.06	1.39	14.66	336	1814	450	67.5
Crystal 803 (CommBench)	232	310.2	102	9195	100	57.28	103	1702	102	29.77	16.67	1.16	15.51	230	1516	397	76.3
BTS 8927 (CommBench)	233	316.1	104	9387	102	59.44	107	1765	106	29.72	16.97	1.16	15.81	242	1495	399	74.3
HIL2389 (CommBench)	234	301.3	99	9322	102	54.09	97	1674	100	30.82	16.43	1.34	15.09	304	1761	452	65.8
BTS 8156 (1stYearBench)	235	306.1	100	8943	97	55.83	101	1632	98	29.14	16.69	1.37	15.32	304	1837	451	74.8
AP CK MOD RES RR#7	236	283.9	93	9552	104	47.75	86	1610	96	33.84	15.55	1.38	14.17	375	1560	497	75.3
Comm Benchmark Mean		305.3		9184		55.54		1673		30.10	16.53	1.26		280	1693	427	65.7
Comm Trial Mean		307.3		9179		56.25		1677		29.93	16.65	1.28		283	1644	453	64.2
Coeff. of Var																	

Table 12. 2025 Performance of Varieties - ACSC RR Official Trials
Perley MN

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	341.4	98	12942	103	68.88	97	2590	101	38.27	18.11	1.04	17.07	180	1427	364	67.5
BTS 8034	122	337.6	97	12622	101	67.47	95	2529	99	37.32	17.94	1.07	16.87	152	1629	339	65.6
BTS 8156	118	343.2	99	12606	101	69.55	98	2563	100	36.69	18.22	1.06	17.16	162	1591	341	63.7
BTS 8226	117	354.4	102	12977	104	73.71	104	2709	106	36.41	18.57	0.84	17.73	131	1249	275	67.0
BTS 8270	116	349.8	101	12414	99	71.97	102	2528	99	35.98	18.44	0.96	17.48	146	1473	300	58.5
BTS 8365	120	359.5	104	12532	100	75.60	107	2634	103	34.75	18.93	0.95	17.98	135	1329	335	59.4
BTS 8927 (CommBench)	115	351.2	101	12601	101	72.51	102	2589	101	36.26	18.43	0.88	17.55	128	1377	269	69.0
Crystal 022	105	354.4	102	12544	100	73.70	104	2594	101	35.39	18.72	1.00	17.72	155	1393	348	70.3
Crystal 130	110	344.9	99	12617	101	70.18	99	2553	100	36.84	18.24	1.00	17.24	151	1418	344	65.9
Crystal 138	119	344.5	99	12609	101	70.03	99	2559	100	36.41	18.28	1.05	17.23	148	1466	372	68.6
Crystal 260	104	337.3	97	12029	96	67.36	95	2411	94	35.56	17.82	0.95	16.87	199	1467	276	66.0
Crystal 269	107	351.2	101	13095	104	72.52	102	2718	106	37.04	18.80	1.23	17.57	146	1526	495	72.2
Crystal 361	111	349.6	101	12495	100	71.93	102	2569	100	36.11	18.38	0.91	17.47	124	1339	302	75.1
Crystal 369	109	334.7	97	12266	98	66.42	94	2427	95	36.85	17.89	1.15	16.74	194	1504	425	64.8
Crystal 793	112	343.7	99	12792	102	69.73	98	2594	101	37.19	18.14	0.96	17.18	156	1337	328	71.3
Crystal 912	102	329.2	95	13236	106	64.37	91	2587	101	40.47	17.54	1.09	16.45	221	1362	400	70.8
Hilleshög HIL2389 (CommBench)	103	337.0	97	12217	97	67.24	95	2444	96	36.47	17.92	1.08	16.84	139	1555	370	64.8
Hilleshög HIL2479	101	332.4	96	11364	91	65.57	93	2253	88	33.89	17.67	1.04	16.63	191	1390	363	70.2
Hilleshög HIL2480	113	345.1	100	11949	95	70.25	99	2438	95	34.68	18.41	1.16	17.25	182	1501	434	71.0
Maribo MA717	121	329.7	95	12125	97	64.54	91	2366	92	36.66	17.62	1.13	16.49	199	1574	387	60.9
SX 1815	108	349.8	101	12434	99	72.01	102	2547	100	35.63	18.41	0.91	17.50	135	1503	259	64.1
SX 1835	114	329.9	95	12598	101	64.63	91	2475	97	37.97	17.59	1.10	16.49	160	1550	378	65.0
SV 231	123	330.3	95	12801	102	64.78	91	2520	98	38.53	17.53	1.01	16.52	166	1488	325	72.2
BTS 8815 (CommBench)	124	354.1	102	12445	99	73.59	104	2584	101	35.14	18.71	1.00	17.71	152	1529	316	71.9
Crystal 803 (CommBench)	125	344.4	99	12869	103	69.99	99	2617	102	37.24	18.21	1.00	17.21	156	1451	329	67.3
AP CK MOD RES RR#7	126	333.1	96	13191	105	65.79	93	2613	102	39.46	17.65	0.99	16.66	165	1418	331	71.0
AP CK MOD SUS RR#8	127	338.8	98	13504	108	67.93	96	2702	106	39.87	17.91	0.96	16.95	151	1379	326	69.7
Experimental Trial (Comm status)																	
BTS 8440	222	356.6	103	12316	98	74.48	105	2579	101	34.68	18.73	0.88	17.84	109	1350	257	63.0
BTS 8457	202	349.1	101	13329	106	71.73	101	2733	107	38.31	18.32	0.86	17.46	135	1225	262	63.4
BTS 8509	211	354.5	102	12485	100	73.69	104	2590	101	35.30	18.61	0.88	17.73	129	1297	261	71.3
BTS 8513	210	337.4	97	12415	99	67.44	95	2474	97	36.69	18.11	1.27	16.84	154	1592	458	68.6
BTS 8520	223	344.4	99	12695	101	70.01	99	2584	101	37.05	18.15	0.94	17.22	134	1312	293	63.8
BTS 8531	228	335.2	97	13862	111	66.63	94	2756	108	41.36	17.74	0.98	16.76	152	1384	298	77.1
BTS 8555	206	341.3	98	12074	96	68.85	97	2438	95	35.41	18.03	0.97	17.06	143	1368	298	61.6
BTS 8580	208	346.5	100	11262	90	70.78	100	2297	90	32.65	18.31	1.00	17.31	145	1316	331	77.7
BTS 8598	214	360.5	104	13094	104	75.93	107	2753	108	36.37	18.91	0.87	18.03	125	1272	261	65.4
Crystal 364	226	329.2	95	12954	103	64.44	91	2531	99	39.42	17.52	1.07	16.45	167	1570	315	83.0
Crystal 470	213	344.4	99	13173	105	70.02	99	2668	104	38.35	18.14	0.94	17.21	128	1331	285	63.7
Crystal 471	217	355.0	102	11823	94	73.89	104	2453	96	33.63	18.63	0.88	17.74	116	1351	252	61.0
Crystal 580	224	346.1	100	12801	102	70.62	100	2600	102	36.99	18.30	1.01	17.29	145	1401	315	61.8
Crystal 581	227	357.0	103	12396	99	74.60	105	2580	101	34.92	18.79	0.95	17.84	124	1385	280	58.9
Crystal 583	201	344.3	99	13106	105	69.98	99	2659	104	38.19	18.13	0.92	17.22	147	1361	260	68.1
Crystal 584	204	355.6	103	12669	101	74.10	105	2627	103	35.74	18.76	0.99	17.77	116	1423	306	64.2
Crystal 591	209	351.4	101	13555	108	72.57	102	2798	109	38.63	18.50	0.93	17.57	147	1260	294	71.8
Crystal 594	203	355.2	102	12637	101	73.97	104	2626	103	35.79	18.67	0.92	17.75	123	1319	275	70.0
Hilleshög HIL2493	220	334.0	96	13739	110	66.17	93	2724	106	41.24	17.72	1.03	16.69	152	1423	326	69.6
Hilleshög HIL2494	229	340.5	98	13322	106	68.55	97	2678	105	39.11	18.01	1.00	17.00	116	1496	297	74.3
Hilleshög HIL2532	216	342.5	99	11325	90	69.33	98	2299	90	33.17	18.16	1.04	17.12	137	1531	313	62.1
Hilleshög HIL2533	218	325.5	94	12263	98	63.07	89	2376	93	37.81	17.33	1.07	16.26	160	1533	322	63.2
Hilleshög HIL2534	221	345.3	100	12067	96	70.33	99	2449	96	34.98	18.32	1.07	17.25	121	1573	331	65.5
Hilleshög HIL2535	205	344.4	99	12391	99	70.02	99	2524	99	36.12	18.17	0.95	17.23	133	1419	278	66.6
SV 251	207	339.0	98	12513	100	68.03	96	2516	98	36.79	18.05	1.12	16.94	144	1607	342	66.2
SV 254	212	339.8	98	11831	94	68.29	96	2375	93	35.13	18.01	1.03	16.97	160	1574	282	55.2
SV 255	215	335.3	97	12799	102	66.69	94	2534	99	38.34	17.84	1.10	16.74	166	1564	327	64.1
SV 256	225	336.9	97	12544	100	67.26	95	2492	97	37.38	17.86	1.03	16.82	161	1374	332	66.8
SV 345	219	329.3	95	12599	101	64.47	91	2467	96	38.17	17.51	1.06	16.45	136	1515	331	67.6
SV 347	230	340.7	98	11560	92	68.66	97	2323	91	34.05	18.06	1.04	17.02	141	1489	319	61.8
BTS 8815 (CommBench)	231	339.3	98	12048	96	68.12	96	2422	95	35.49	18.02	1.06	16.95	138	1488	338	71.2
Crystal 803 (CommBench)	232	350.3	101	12714	101	72.17	102	2623	103	36.38	18.48	0.97	17.51	130	1418	291	74.3
BTS 8927 (CommBench)	233	348.8	101	12856	103	71.59	101	2627	103	37.15	18.36	0.93	17.44	139	1306	285	69.6
HIL2389 (CommBench)	234	348.4	100	12514	100	71.45	101	2562	100	36.09	18.41	1.00	17.41	131	1461	301	67.1
BTS 8156 (1stYearBench)	235	337.4	97	11818	94	67.44	95	2356	92	35.26	17.86	1.00	16.86	145	1598	259	57.1
AP CK MOD RES RR#7	236	329.1	95	13174	105	64.38	91	2576	101	40.13	17.41	0.96	16.45	172	1322	295	65.3
Comm Benchmark Mean		346.7		12533		70.83		2559		36.28	18.32	0.99		144	1478	321	68.2
Comm Trial Mean		342.6		12588		69.34		2545		36.78	18.15	1.02		160	1		

Table 13. 2025 Performance of Varieties - ACSC RR Official Trials
Ada MN

Description @	Code	Rec/T		Rec/A		Rev/T		Rev/A		Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$ +	%Bnch	\$ +	%Bnch								
Commercial Trial																	
BTS 8018	106	310.0	98	9872	105	57.28	97	1826	103	31.82	16.49	0.99	15.50	207	1184	374	79.6
BTS 8034	122	303.4	96	9631	102	54.81	92	1738	98	31.58	16.28	1.11	15.17	281	1472	368	67.8
BTS 8156	118	322.2	102	9753	103	61.79	104	1874	105	30.17	17.12	1.00	16.12	228	1420	317	68.2
BTS 8226	117	325.4	103	9968	106	62.96	106	1925	108	30.67	17.16	0.89	16.27	178	1162	316	77.9
BTS 8270	116	317.9	101	10272	109	60.18	102	1939	109	32.39	16.87	0.98	15.89	188	1222	364	73.4
BTS 8365	120	332.8	106	9914	105	65.69	111	1959	110	29.83	17.49	0.85	16.64	161	1161	293	69.6
BTS 8927 (CommBench)	115	320.2	102	9654	102	61.03	103	1838	103	30.22	16.96	0.95	16.01	179	1160	362	74.7
Crystal 022	105	323.0	102	9639	102	62.09	105	1852	104	30.02	17.06	0.91	16.15	172	1167	333	77.0
Crystal 130	110	318.3	101	10109	107	60.35	102	1903	107	31.63	16.84	0.92	15.92	196	1231	317	76.2
Crystal 138	119	318.7	101	10239	108	60.48	102	1939	109	32.00	16.84	0.90	15.94	179	1157	326	69.0
Crystal 260	104	324.4	103	10117	107	62.59	106	1957	110	31.13	17.07	0.85	16.22	155	1196	283	74.9
Crystal 269	107	317.6	101	10316	109	60.07	101	1948	109	32.32	16.89	1.01	15.88	215	1262	370	74.3
Crystal 361	111	318.1	101	9886	105	60.27	102	1879	106	31.19	16.85	0.94	15.91	197	1114	360	79.0
Crystal 369	109	312.0	99	10246	108	58.00	98	1900	107	32.87	16.65	1.05	15.60	213	1273	401	74.8
Crystal 793	112	314.3	100	9835	104	58.84	99	1846	104	31.38	16.65	0.93	15.72	189	1179	341	80.8
Crystal 912	102	287.9	91	9669	102	49.09	83	1655	93	33.46	15.48	1.08	14.40	293	1150	426	74.7
Hilleshög HIL2389 (CommBench)	103	311.5	99	9065	96	57.83	98	1695	95	29.04	16.62	1.05	15.57	203	1210	415	71.4
Hilleshög HIL2479	101	310.4	98	9808	104	57.42	97	1808	102	31.75	16.55	1.02	15.53	261	1145	392	75.4
Hilleshög HIL2480	113	311.4	99	9993	106	57.79	98	1853	104	32.27	16.74	1.16	15.58	269	1254	468	73.2
Maribo MA717	121	299.1	95	10080	107	53.22	90	1787	100	34.05	16.07	1.11	14.96	289	1246	423	66.1
SX 1815	108	317.7	101	9106	96	60.11	101	1724	97	28.80	16.88	1.00	15.88	183	1239	376	62.9
SX 1835	114	302.8	96	10148	107	54.60	92	1840	103	33.22	16.19	1.05	15.14	231	1307	382	74.8
SV 231	123	301.5	96	9882	105	54.14	91	1772	100	32.65	16.16	1.09	15.07	237	1259	422	78.0
BTS 8815 (CommBench)	124	314.3	100	9212	98	58.84	99	1728	97	29.32	16.75	1.03	15.72	227	1338	363	78.9
Crystal 803 (CommBench)	125	315.6	100	9843	104	59.33	100	1857	104	31.05	16.72	0.94	15.78	216	1193	332	75.8
AP CK MOD RES RR#7	126	290.0	92	9865	104	49.88	84	1699	95	33.79	15.53	1.03	14.50	264	1116	406	78.8
AP CK MOD SUS RR#8	127	325.0	103	9878	105	62.82	106	1907	107	30.55	17.19	0.94	16.25	172	1177	348	81.5
Experimental Trial (Comm status)																	
BTS 8440	222	325.0	103	10371	110	62.73	106	2012	113	31.85	17.15	0.90	16.25	161	1216	299	83.1
BTS 8457	202	319.5	101	10181	108	60.74	102	1942	109	31.84	16.87	0.89	15.98	171	1122	313	82.7
BTS 8509	211	317.2	101	9805	104	59.92	101	1859	104	30.90	16.81	0.94	15.87	166	1167	346	75.9
BTS 8513	210	314.4	100	10006	106	58.90	99	1881	106	31.87	16.85	1.12	15.73	167	1367	413	76.4
BTS 8520	223	312.0	99	10418	110	58.03	98	1940	109	33.32	16.65	1.06	15.60	204	1325	372	78.2
BTS 8531	228	313.7	99	9841	104	58.67	99	1844	104	31.31	16.68	1.01	15.68	208	1214	364	77.4
BTS 8555	206	315.7	100	9528	101	59.38	100	1796	101	30.11	16.81	1.02	15.79	158	1211	384	75.3
BTS 8580	208	316.7	100	9447	100	59.71	101	1790	101	29.78	16.82	1.01	15.81	202	1209	363	80.7
BTS 8598	214	326.5	104	10116	107	63.29	107	1968	111	30.92	17.31	0.98	16.33	167	1236	355	79.3
Crystal 364	226	301.8	96	9834	104	54.34	92	1778	100	32.54	16.16	1.07	15.09	234	1396	349	86.4
Crystal 470	213	314.7	100	10193	108	59.00	100	1917	108	32.34	16.68	0.95	15.73	184	1146	354	76.9
Crystal 471	217	327.0	104	10326	109	63.46	107	2015	113	31.50	17.24	0.88	16.36	164	1120	311	76.4
Crystal 580	224	312.6	99	9823	104	58.24	98	1836	103	31.43	16.65	1.02	15.64	195	1170	385	78.6
Crystal 581	227	323.8	103	10282	109	62.32	105	1986	112	31.74	17.17	0.96	16.21	158	1164	352	72.6
Crystal 583	201	311.1	99	9499	101	57.68	97	1771	100	30.44	16.48	0.93	15.55	176	1111	348	80.7
Crystal 584	204	317.1	101	9486	100	59.89	101	1800	101	29.92	16.87	1.01	15.86	172	1205	377	81.5
Crystal 591	209	320.9	102	10204	108	61.27	103	1957	110	31.78	17.03	0.97	16.05	180	1208	352	80.1
Crystal 594	203	309.6	98	9874	105	57.17	96	1827	103	31.90	16.40	0.91	15.48	175	1060	346	75.0
Hilleshög HIL2493	220	311.9	99	9901	105	57.99	98	1849	104	31.73	16.61	1.03	15.59	194	1290	360	79.4
Hilleshög HIL2494	229	309.5	98	9781	104	57.11	96	1810	102	31.54	16.56	1.07	15.50	191	1372	370	76.7
Hilleshög HIL2532	216	309.2	98	8996	95	57.00	96	1662	93	29.07	16.54	1.11	15.44	191	1292	423	62.4
Hilleshög HIL2533	218	310.6	98	9711	103	57.51	97	1804	101	31.22	16.54	1.03	15.52	196	1245	376	79.7
Hilleshög HIL2534	221	303.7	96	9123	97	55.01	93	1659	93	29.96	16.39	1.22	15.17	191	1402	478	65.2
Hilleshög HIL2535	205	307.9	98	8840	94	56.54	95	1628	91	28.68	16.46	1.06	15.40	191	1209	408	65.7
SV 251	207	317.1	101	10117	107	59.90	101	1917	108	31.88	16.87	1.00	15.87	163	1390	316	79.5
SV 254	212	303.1	96	9477	100	54.80	92	1721	97	31.21	16.24	1.10	15.14	208	1309	409	70.1
SV 255	215	310.1	98	9694	103	57.33	97	1799	101	31.21	16.51	1.02	15.50	194	1268	361	81.5
SV 256	225	300.9	95	9572	101	53.97	91	1726	97	31.77	16.13	1.09	15.04	209	1350	385	75.4
SV 345	219	304.8	97	9550	101	55.41	94	1741	98	31.31	16.34	1.11	15.23	220	1330	400	71.9
SV 347	230	315.9	100	8883	94	59.45	100	1677	94	28.09	16.84	1.05	15.79	162	1248	398	78.0
BTS 8815 (CommBench)	231	310.3	98	9193	97	57.39	97	1708	96	29.58	16.62	1.11	15.51	215	1383	388	77.3
Crystal 803 (CommBench)	232	313.7	99	9736	103	58.65	99	1825	103	31.02	16.65	0.97	15.68	160	1191	361	85.9
BTS 8927 (CommBench)	233	316.2	100	9632	102	59.54	100	1819	102	30.44	16.72	0.92	15.80	184	1171	322	84.4
HIL2389 (CommBench)	234	321.5	102	9213	98	61.45	104	1766	99	28.59	17.06	0.96	16.09	158	1244	343	69.7
BTS 8156 (1stYearBench)	235	315.4	100	9193	97	59.26	100	1735	98	29.07	16.84	1.07	15.77	221	1417	347	67.8
AP CK MOD RES RR#7	236	288.4	91	9595	102	49.46	83	1652	93	33.29	15.46	1.04	14.43	257	1153	381	83.4
Comm Benchmark Mean		315.4		9444		59.26		1780		29.91	16.76	0.99		206	1225	368	75.2
Comm Trial Mean		313.5		9852		58.57		1839		31.45</							

Table 14. 2025 Performance of Varieties - ACSC RR Official Trials
Caledonia ND

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	334.6	101	9959	105	66.36	102	1981	106	29.77	17.58	0.85	16.73	155	1337	252	95.6
BTS 8034	122	313.6	95	9278	98	58.58	90	1741	93	29.71	16.69	1.02	15.67	228	1598	287	87.8
BTS 8156	118	324.5	98	9405	99	62.61	96	1815	97	28.98	17.17	0.94	16.23	155	1602	248	90.7
BTS 8226	117	341.6	103	9904	104	68.94	106	1998	107	29.03	17.91	0.83	17.08	155	1323	234	86.9
BTS 8270	116	330.2	100	9165	97	64.75	99	1800	97	27.69	17.50	1.00	16.50	190	1550	290	85.4
BTS 8365	120	343.0	103	9451	100	69.48	106	1919	103	27.40	18.07	0.93	17.14	174	1417	282	87.2
BTS 8927 (CommBench)	115	337.8	102	9786	103	67.55	104	1951	105	29.08	17.76	0.87	16.89	159	1345	259	87.0
Crystal 022	105	343.4	104	9660	102	69.64	107	1955	105	28.05	18.05	0.87	17.18	151	1365	260	89.3
Crystal 130	110	329.1	99	9406	99	64.35	99	1841	99	28.50	17.43	0.97	16.46	177	1451	298	89.0
Crystal 138	119	331.8	100	9891	104	65.34	100	1941	104	29.96	17.52	0.92	16.60	152	1424	280	89.3
Crystal 260	104	329.5	99	9471	100	64.47	99	1852	99	28.79	17.39	0.92	16.47	160	1448	270	87.5
Crystal 269	107	329.5	99	9615	101	64.48	99	1881	101	29.20	17.50	1.04	16.46	199	1526	325	87.5
Crystal 361	111	332.3	100	9971	105	65.53	100	1966	106	29.98	17.54	0.92	16.62	190	1313	295	88.3
Crystal 369	109	329.2	99	10051	106	64.38	99	1958	105	30.65	17.51	1.04	16.47	189	1559	324	87.0
Crystal 793	112	320.4	97	9574	101	61.10	94	1828	98	30.07	16.93	0.92	16.01	176	1400	274	92.1
Crystal 912	102	315.5	95	9472	100	59.29	91	1778	95	30.03	16.72	0.94	15.78	227	1332	291	89.0
Hilleshög HIL2389 (CommBench)	103	332.9	100	9474	100	65.73	101	1867	100	28.52	17.51	0.86	16.65	146	1375	248	87.6
Hilleshög HIL2479	101	326.5	98	8956	94	63.37	97	1737	93	27.37	17.36	1.03	16.33	239	1478	317	91.9
Hilleshög HIL2480	113	314.1	95	8946	94	58.80	90	1676	90	28.35	16.86	1.16	15.70	251	1626	372	90.9
Maribo MA717	121	335.5	101	10309	109	66.69	102	2047	110	30.77	17.69	0.92	16.77	166	1417	274	81.9
SX 1815	108	331.7	100	9330	98	65.30	100	1838	99	28.11	17.49	0.90	16.59	160	1467	254	85.6
SX 1835	114	320.2	97	9564	101	61.05	94	1824	98	29.75	16.98	0.98	16.00	186	1448	304	87.5
SV 231	123	324.2	98	9420	99	62.50	96	1818	98	29.13	17.16	0.96	16.20	196	1453	287	91.8
BTS 8815 (CommBench)	124	327.8	99	8965	94	63.85	98	1740	93	27.44	17.31	0.91	16.40	172	1506	242	88.8
Crystal 803 (CommBench)	125	327.9	99	9727	103	63.90	98	1892	102	29.62	17.31	0.92	16.39	172	1462	260	91.5
AP CK MOD RES RR#7	126	312.3	94	9524	100	58.12	89	1776	95	30.57	16.54	0.93	15.61	214	1357	285	92.5
AP CK MOD SUS RR#8	127	344.5	104	9848	104	70.03	107	2001	107	28.45	18.13	0.91	17.22	161	1431	264	89.3
Experimental Trial (Comm status)																	
BTS 8440	222	343.5	104	10275	108	69.79	107	2080	112	29.92	17.96	0.80	17.16	144	1315	271	86.8
BTS 8457	202	341.6	103	10294	108	69.11	106	2079	112	30.12	17.86	0.79	17.07	191	1251	256	87.1
BTS 8509	211	337.2	102	10022	106	67.42	103	1998	107	29.72	17.68	0.82	16.85	194	1319	265	87.1
BTS 8513	210	320.4	97	9436	99	60.95	93	1791	96	29.46	17.17	1.12	16.05	222	1652	407	92.5
BTS 8520	223	341.9	103	10149	107	69.19	106	2048	110	29.74	18.00	0.89	17.11	182	1452	286	87.4
BTS 8531	228	312.0	94	9938	105	57.77	89	1828	98	32.07	16.56	0.96	15.60	205	1487	327	91.5
BTS 8555	206	332.8	100	10035	106	65.73	101	1980	106	30.12	17.52	0.88	16.64	174	1366	304	89.5
BTS 8580	208	323.7	98	9182	97	62.25	95	1766	95	28.38	17.31	1.09	16.21	348	1432	399	90.7
BTS 8598	214	348.2	105	10453	110	71.63	110	2148	115	30.03	18.26	0.87	17.39	185	1350	299	85.5
Crystal 364	226	319.7	96	9854	104	60.72	93	1869	100	30.86	16.99	0.98	16.00	230	1581	306	90.7
Crystal 470	213	341.5	103	10455	110	69.07	106	2113	113	30.63	17.93	0.87	17.06	191	1380	289	89.1
Crystal 471	217	343.8	104	10212	108	69.91	107	2070	111	29.75	18.10	0.91	17.19	187	1327	324	84.4
Crystal 580	224	339.8	102	9961	105	68.42	105	1996	107	29.40	17.90	0.90	17.01	162	1394	314	88.2
Crystal 581	227	340.4	103	10177	107	68.60	105	2046	110	29.86	17.89	0.87	17.02	178	1296	306	82.1
Crystal 583	201	323.7	98	10060	106	62.26	95	1925	103	31.05	17.06	0.87	16.19	234	1323	284	95.8
Crystal 584	204	346.7	105	10169	107	71.02	109	2078	112	29.35	18.25	0.92	17.34	192	1389	313	91.5
Crystal 591	209	339.2	102	9898	104	68.18	104	1983	106	29.14	17.83	0.88	16.95	179	1369	303	92.2
Crystal 594	203	342.2	103	10083	106	69.31	106	2037	109	29.47	18.00	0.87	17.13	178	1300	305	83.6
Hilleshög HIL2493	220	327.8	99	9525	100	63.82	98	1851	99	28.99	17.40	0.99	16.41	251	1526	319	90.6
Hilleshög HIL2494	229	318.4	96	9710	102	60.21	92	1830	98	30.53	16.98	1.04	15.94	264	1557	352	87.5
Hilleshög HIL2532	216	329.3	99	9091	96	64.36	99	1770	95	27.61	17.44	0.97	16.47	199	1467	342	85.1
Hilleshög HIL2533	218	328.2	99	9735	103	63.99	98	1889	101	29.68	17.36	0.93	16.42	196	1418	322	89.8
Hilleshög HIL2534	221	337.4	102	9191	97	67.48	103	1832	98	27.28	17.78	0.92	16.86	164	1450	314	83.1
Hilleshög HIL2535	205	333.1	100	9896	104	65.84	101	1950	105	29.72	17.58	0.91	16.68	182	1392	314	90.2
SV 251	207	330.2	100	9544	101	64.73	99	1866	100	28.97	17.44	0.93	16.51	197	1514	292	87.1
SV 254	212	325.0	98	9716	102	62.77	96	1872	100	29.86	17.28	1.00	16.28	240	1492	341	86.3
SV 255	215	328.8	99	9996	105	64.20	98	1946	104	30.35	17.38	0.93	16.45	199	1475	308	88.7
SV 256	225	331.9	100	9520	100	65.35	100	1873	101	28.69	17.58	0.98	16.60	213	1490	342	85.3
SV 345	219	327.9	99	9728	103	63.84	98	1890	101	29.75	17.32	0.92	16.40	220	1469	292	87.5
SV 347	230	329.4	99	9863	104	64.41	99	1925	103	29.86	17.41	0.93	16.48	190	1483	306	83.6
BTS 8815 (CommBench)	231	333.6	101	9532	100	66.05	101	1882	101	28.60	17.53	0.85	16.68	191	1476	240	89.1
Crystal 803 (CommBench)	232	337.6	102	9741	103	67.52	103	1945	104	28.90	17.76	0.89	16.87	177	1405	297	91.0
BTS 8927 (CommBench)	233	333.7	101	9525	100	66.07	101	1877	101	28.76	17.54	0.85	16.69	216	1346	277	91.9
HIL2389 (CommBench)	234	321.5	97	9154	96	61.39	94	1746	94	28.40	17.06	0.97	16.09	224	1546	312	86.6
BTS 8156 (1stYearBench)	235	323.5	98	9558	101	62.16	95	1831	98	29.63	17.11	0.93	16.18	210	1560	279	90.9
AP CK MOD RES RR#7	236	323.1	97	10028	106	62.01	95	1917	103	31.15	17.05	0.88	16.17	223	1271	307	90.7
Comm Benchmark Mean		331.6		9488		65.26		1863		28.67	17.47	0.89		162	1422	252	88.7
Comm Trial Mean		329.0		9560		64.30		1867		29.07	17.39	0.94		181	1445	281	88.9

Table 15. 2025 Performance of Varieties - ACSC RR Official Trials
Scandia MN

Description @	Code	Rec/T		Rec/A		Rev/T		Rev/A		Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$ +	%Bnch	\$ +	%Bnch								
Commercial Trial																	
BTS 8018	106	279.4	95	12127	98	45.93	89	1995	92	43.20	15.34	1.37	13.97	435	1393	529	55.0
BTS 8034	122	292.0	99	12968	105	50.60	98	2248	104	44.52	15.99	1.39	14.60	388	1627	505	58.0
BTS 8156	118	298.2	101	12903	105	52.89	103	2286	106	43.35	16.28	1.37	14.91	359	1632	498	61.5
BTS 8226	117	297.4	101	13007	105	52.59	102	2300	106	43.62	16.13	1.26	14.87	389	1371	469	61.2
BTS 8270	116	312.4	106	12893	104	58.15	113	2391	111	41.42	16.83	1.21	15.62	309	1416	452	53.5
BTS 8365	120	307.3	104	12593	102	56.26	109	2306	107	41.09	16.55	1.19	15.36	267	1373	455	50.6
BTS 8927 (CommBench)	115	299.1	102	12660	103	53.22	103	2254	104	42.24	16.16	1.21	14.95	310	1378	455	58.1
Crystal 022	105	300.6	102	12687	103	53.80	105	2262	105	42.22	16.31	1.28	15.03	326	1444	486	67.6
Crystal 130	110	307.6	104	13328	108	56.37	110	2446	113	43.43	16.60	1.23	15.37	334	1446	445	65.0
Crystal 138	119	310.2	105	13109	106	57.32	111	2425	112	42.36	16.64	1.13	15.51	260	1442	399	57.1
Crystal 260	104	323.6	110	13845	112	62.30	121	2665	123	42.83	17.24	1.07	16.17	261	1385	362	63.6
Crystal 269	107	291.9	99	12837	104	50.57	98	2219	103	43.87	15.97	1.37	14.60	410	1550	499	53.9
Crystal 361	111	316.0	107	13322	108	59.49	116	2523	117	42.10	16.86	1.07	15.79	289	1252	389	61.8
Crystal 369	109	291.5	99	12536	102	50.40	98	2167	100	43.08	15.87	1.30	14.57	356	1459	490	53.7
Crystal 793	112	297.3	101	12952	105	52.58	102	2287	106	43.68	16.08	1.21	14.87	346	1350	453	61.8
Crystal 912	102	289.4	98	13803	112	49.65	96	2374	110	47.60	15.83	1.36	14.47	461	1329	534	59.6
Hilleshög HIL2389 (CommBench)	103	283.3	96	11873	96	47.37	92	1996	92	41.58	15.46	1.30	14.16	367	1557	455	48.6
Hilleshög HIL2479	101	274.9	93	12090	98	44.29	86	1958	91	43.63	15.09	1.34	13.75	489	1482	466	61.6
Hilleshög HIL2480	113	290.2	99	13375	108	49.95	97	2299	106	46.16	15.80	1.28	14.52	429	1368	475	53.0
Maribo MA717	121	267.8	91	12570	102	41.65	81	1952	90	47.04	14.60	1.21	13.39	425	1493	386	53.8
SX 1815	108	274.9	93	12019	97	44.27	86	1938	90	43.48	15.04	1.29	13.75	351	1522	462	49.5
SX 1835	114	290.3	99	13548	110	49.97	97	2339	108	46.59	15.85	1.33	14.52	367	1520	495	59.8
SV 231	123	292.2	99	13395	109	50.69	98	2321	107	45.87	15.81	1.20	14.61	339	1441	420	70.8
BTS 8815 (CommBench)	124	290.2	99	12092	98	49.92	97	2077	96	41.76	15.82	1.31	14.51	355	1522	480	57.7
Crystal 803 (CommBench)	125	304.9	104	12751	103	55.38	108	2321	107	41.73	16.31	1.06	15.25	260	1289	385	67.2
AP CK MOD RES RR#7	126	278.5	95	13347	108	45.62	89	2180	101	48.00	15.30	1.37	13.93	472	1307	542	62.4
AP CK MOD SUS RR#8	127	310.5	105	13281	108	57.47	112	2462	114	42.88	16.71	1.18	15.53	280	1415	438	54.7
Experimental Trial (Comm status)																	
BTS 8440	222	315.0	107	13178	107	58.93	114	2467	114	42.50	16.72	1.02	15.70	238	1291	394	64.7
BTS 8457	202	304.7	104	12962	105	55.21	107	2377	110	42.21	16.24	0.98	15.25	303	1145	385	56.8
BTS 8509	211	306.7	104	12512	101	55.97	109	2278	105	41.06	16.36	1.02	15.33	280	1320	368	61.5
BTS 8513	210	302.8	103	11902	96	54.55	106	2140	99	39.33	16.46	1.32	15.15	332	1610	528	51.0
BTS 8520	223	298.6	101	13206	107	53.00	103	2350	109	44.23	16.08	1.17	14.92	313	1304	487	52.9
BTS 8531	228	292.6	99	13132	106	50.83	99	2292	106	45.05	15.72	1.12	14.60	353	1405	407	59.7
BTS 8555	206	306.1	104	12274	99	55.69	108	2246	104	40.33	16.33	1.06	15.27	257	1289	426	52.8
BTS 8580	208	299.9	102	11725	95	53.46	104	2110	98	38.38	16.09	1.10	14.99	255	1358	442	57.1
BTS 8598	214	305.0	104	12319	100	55.31	107	2240	104	40.68	16.36	1.13	15.23	278	1412	438	65.0
Crystal 364	226	276.1	94	13116	106	44.85	87	2128	98	47.61	15.06	1.25	13.80	421	1586	447	66.3
Crystal 470	213	298.6	101	12718	103	53.02	103	2276	105	42.42	16.07	1.14	14.94	319	1306	458	62.3
Crystal 471	217	298.8	102	12847	104	53.08	103	2278	105	43.10	16.06	1.13	14.94	321	1233	455	55.9
Crystal 580	224	285.7	97	12059	98	48.33	94	2055	95	41.80	15.50	1.20	14.30	398	1411	457	53.2
Crystal 581	227	296.1	101	12668	103	52.08	101	2244	104	42.46	16.00	1.18	14.82	313	1386	475	54.5
Crystal 583	201	291.8	99	12365	100	50.51	98	2132	99	42.38	15.69	1.11	14.58	363	1286	429	59.6
Crystal 584	204	298.6	101	11931	97	52.99	103	2147	99	40.07	16.01	1.10	14.92	288	1373	421	58.3
Crystal 591	209	311.6	106	12582	102	57.71	112	2348	109	40.29	16.71	1.12	15.59	244	1323	458	56.2
Crystal 594	203	296.5	101	12897	104	52.22	101	2268	105	43.41	15.91	1.09	14.82	301	1400	402	61.7
Hilleshög HIL2493	220	274.7	93	12466	101	44.37	86	1993	92	45.98	15.01	1.29	13.72	432	1584	469	61.2
Hilleshög HIL2494	229	278.3	95	12424	101	45.65	89	2035	94	44.61	15.32	1.38	13.93	352	1691	546	55.7
Hilleshög HIL2532	216	272.7	93	10894	88	43.65	85	1731	80	40.50	14.92	1.31	13.61	428	1498	503	40.1
Hilleshög HIL2533	218	282.6	96	12133	98	47.24	92	2008	93	43.07	15.30	1.17	14.13	338	1492	426	58.9
Hilleshög HIL2534	221	278.2	95	12304	100	45.64	89	2020	93	43.94	15.27	1.38	13.90	386	1605	545	57.9
Hilleshög HIL2535	205	302.2	103	12886	104	54.34	106	2303	107	42.96	16.19	1.11	15.08	245	1460	424	51.4
SV 251	207	290.1	99	12707	103	49.92	97	2200	102	43.75	15.61	1.12	14.50	353	1522	376	51.8
SV 254	212	290.3	99	13377	108	49.98	97	2295	106	46.19	15.75	1.24	14.51	319	1546	480	53.5
SV 255	215	284.9	97	13493	109	48.03	93	2281	106	46.73	15.47	1.20	14.26	354	1466	450	59.0
SV 256	225	275.0	93	12422	101	44.44	86	2010	93	45.33	15.06	1.34	13.73	397	1541	532	54.5
SV 345	219	284.2	97	12548	102	47.79	93	2112	98	44.59	15.49	1.29	14.20	353	1602	489	60.1
SV 347	230	280.7	95	12342	100	46.53	90	2046	95	43.81	15.37	1.34	14.03	411	1597	504	60.5
BTS 8815 (CommBench)	231	291.4	99	12451	101	50.37	98	2159	100	42.79	15.88	1.32	14.56	414	1635	483	52.4
Crystal 803 (CommBench)	232	297.8	101	12297	100	52.72	102	2183	101	41.03	16.03	1.13	14.91	296	1387	432	59.3
BTS 8927 (CommBench)	233	311.9	106	12901	105	57.83	112	2400	111	41.27	16.62	1.03	15.59	249	1271	403	63.2
HIL2389 (CommBench)	234	276.4	94	11727	95	44.97	87	1906	88	42.22	15.22	1.40	13.82	503	1657	521	43.3
BTS 8156 (1stYearBench)	235	293.7	100	11894	96	51.25	100	2077	96	40.61	15.89	1.21	14.67	371	1612	425	58.2
AP CK MOD RES RR#7	236	285.5	97	13024	106	48.26	94	2195	102	45.92	15.58	1.34	14.25	467	1457	530	63.6
Comm Benchmark Mean		294.4		12344		51.47		2162		41.83	15.94	1.22		323	1437	444	57.9
Comm Trial Mean		295.2		12886													

Table 16. 2025 Performance of Varieties - ACSC RR Official Trials
Reynolds ND

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	335.0	101	12309	107	66.53	101	2439	107	36.85	17.62	0.87	16.75	276	1245	244	78.4
BTS 8034	122	312.9	94	11253	98	58.34	89	2094	92	36.19	16.82	1.17	15.65	410	1560	341	72.6
BTS 8156	118	331.0	99	11712	102	65.03	99	2300	101	35.29	17.52	0.97	16.55	297	1425	267	70.6
BTS 8226	117	336.5	101	11678	101	67.07	102	2333	103	34.72	17.74	0.92	16.82	315	1227	268	78.9
BTS 8270	116	335.4	101	11531	100	66.67	101	2285	100	34.48	17.70	0.93	16.77	277	1361	258	67.4
BTS 8365	120	340.0	102	11348	98	68.36	104	2278	100	33.43	17.94	0.94	17.00	295	1249	290	69.9
BTS 8927 (CommBench)	115	334.7	101	11630	101	66.39	101	2308	101	34.76	17.67	0.94	16.73	312	1240	284	76.0
Crystal 022	105	329.9	99	11383	99	64.63	98	2219	98	34.61	17.50	1.00	16.50	353	1302	304	73.5
Crystal 130	110	332.0	100	11869	103	65.42	100	2339	103	35.67	17.54	0.94	16.60	310	1332	264	75.9
Crystal 138	119	324.9	98	11106	96	62.77	96	2139	94	34.35	17.20	0.96	16.24	299	1317	281	75.0
Crystal 260	104	332.6	100	11928	103	65.62	100	2360	104	35.60	17.53	0.90	16.63	287	1331	242	67.3
Crystal 269	107	340.0	102	11763	102	68.35	104	2362	104	34.70	17.94	0.94	17.00	300	1339	261	71.6
Crystal 361	111	340.4	102	11982	104	68.50	104	2412	106	35.16	17.88	0.86	17.02	269	1211	246	77.8
Crystal 369	109	333.2	100	12314	107	65.84	100	2433	107	36.93	17.64	0.98	16.66	288	1413	280	75.1
Crystal 793	112	338.1	102	11700	101	67.65	103	2342	103	34.67	17.86	0.96	16.90	285	1310	288	75.4
Crystal 912	102	311.9	94	11952	104	57.97	88	2211	97	38.59	16.57	0.97	15.60	427	1220	273	73.6
Hilleshög HIL2389 (CommBench)	103	331.4	100	11617	101	65.17	99	2284	100	35.01	17.49	0.92	16.57	287	1304	266	74.4
Hilleshög HIL2479	101	332.6	100	10842	94	65.62	100	2142	94	32.48	17.60	0.97	16.63	359	1235	291	81.7
Hilleshög HIL2480	113	309.6	93	10906	95	57.12	87	2010	88	35.36	16.71	1.22	15.49	523	1252	422	75.6
Maribo MA717	121	311.8	94	11204	97	57.94	88	2082	91	35.89	16.60	1.01	15.59	400	1302	291	71.3
SX 1815	108	323.6	97	11069	96	62.31	95	2131	94	34.23	17.14	0.95	16.19	305	1282	287	74.2
SX 1835	114	310.0	93	11775	102	57.26	87	2177	96	37.93	16.50	1.00	15.50	372	1349	278	78.9
SV 231	123	323.0	97	11960	104	62.09	94	2302	101	36.89	17.08	0.92	16.16	308	1335	250	76.3
BTS 8815 (CommBench)	124	326.3	98	10940	95	63.30	96	2114	93	33.49	17.32	1.01	16.31	330	1444	278	70.3
Crystal 803 (CommBench)	125	339.0	102	11931	103	67.99	103	2396	105	35.24	17.81	0.86	16.95	256	1247	243	76.5
AP CK MOD RES RR#7	126	309.5	93	11909	103	57.07	87	2196	97	38.50	16.50	1.02	15.48	397	1290	304	82.3
AP CK MOD SUS RR#8	127	340.6	102	12053	105	68.59	104	2433	107	35.45	17.90	0.87	17.03	226	1264	253	74.5
Experimental Trial (Comm status)																	
BTS 8440	222	347.7	104	11850	103	71.25	108	2406	106	34.23	18.25	0.87	17.39	256	1250	254	80.8
BTS 8457	202	327.1	98	11383	99	63.56	97	2210	97	34.86	17.23	0.89	16.35	357	1047	289	71.9
BTS 8509	211	345.7	104	12222	106	70.53	107	2490	109	35.10	18.09	0.80	17.29	240	1146	237	69.6
BTS 8513	210	325.5	98	11287	98	62.93	96	2196	97	34.48	17.41	1.14	16.27	394	1552	341	72.7
BTS 8520	223	337.2	101	12438	108	67.34	102	2470	109	36.75	17.74	0.89	16.85	284	1282	246	75.5
BTS 8531	228	317.4	95	11764	102	59.94	91	2213	97	36.98	16.89	1.01	15.87	381	1307	308	72.6
BTS 8555	206	329.6	99	11765	102	64.51	98	2303	101	35.53	17.34	0.87	16.48	297	1169	262	76.5
BTS 8580	208	342.2	103	11319	98	69.20	105	2286	100	32.94	18.00	0.90	17.10	277	1238	275	79.5
BTS 8598	214	343.3	103	11692	101	69.61	106	2374	104	33.88	18.00	0.85	17.15	269	1202	245	78.0
Crystal 364	226	320.0	96	11460	99	60.91	93	2182	96	35.66	17.08	1.07	16.01	397	1439	316	79.6
Crystal 470	213	338.3	102	12540	109	67.76	103	2521	111	36.73	17.83	0.92	16.91	294	1300	265	75.6
Crystal 471	217	332.7	100	11462	99	65.66	100	2258	99	34.33	17.53	0.90	16.64	336	1117	281	75.9
Crystal 580	224	343.1	103	12517	109	69.51	106	2540	112	36.26	17.99	0.85	17.14	244	1302	230	78.5
Crystal 581	227	349.1	105	12224	106	71.79	109	2527	111	34.85	18.31	0.87	17.45	243	1215	267	67.3
Crystal 583	201	326.0	98	11653	101	63.14	96	2258	99	35.72	17.22	0.92	16.31	416	1117	277	79.8
Crystal 584	204	351.9	106	12186	106	72.80	111	2531	111	34.50	18.49	0.91	17.59	253	1260	288	77.1
Crystal 591	209	349.5	105	12296	107	71.94	109	2523	111	35.35	18.37	0.91	17.47	268	1242	285	73.4
Crystal 594	203	347.4	104	12550	109	71.13	108	2580	113	36.02	18.18	0.82	17.36	243	1154	248	72.9
Hilleshög HIL2493	220	314.1	94	11569	100	58.74	89	2176	96	36.42	16.70	0.98	15.71	350	1279	305	78.6
Hilleshög HIL2494	229	320.3	96	11825	103	61.02	93	2254	99	36.92	17.02	1.00	16.02	319	1364	318	77.0
Hilleshög HIL2532	216	332.1	100	11101	96	65.43	100	2187	96	33.33	17.52	0.93	16.60	245	1314	286	75.8
Hilleshög HIL2533	218	329.5	99	12574	109	64.46	98	2466	108	37.94	17.33	0.86	16.48	275	1281	235	74.4
Hilleshög HIL2534	221	309.2	93	10336	90	56.87	87	1901	84	33.18	16.59	1.11	15.47	445	1392	344	71.1
Hilleshög HIL2535	205	329.8	99	11623	101	64.57	98	2291	101	35.16	17.38	0.90	16.49	220	1342	272	80.0
SV 251	207	342.2	103	13127	114	69.20	105	2645	116	38.36	17.94	0.83	17.11	232	1337	215	71.5
SV 254	212	324.9	98	12398	108	62.71	95	2395	105	38.12	17.17	0.94	16.23	278	1316	286	78.4
SV 255	215	316.1	95	12133	105	59.45	90	2281	100	38.48	16.83	1.03	15.79	428	1332	300	72.5
SV 256	225	319.3	96	11574	100	60.63	92	2203	97	36.39	16.93	0.97	15.95	354	1337	285	66.9
SV 345	219	324.2	97	12686	110	62.47	95	2441	107	39.16	17.21	1.00	16.21	313	1415	299	78.9
SV 347	230	331.8	100	11091	96	65.34	99	2178	96	33.61	17.58	0.97	16.60	290	1342	313	70.4
BTS 8815 (CommBench)	231	329.7	99	11322	98	64.54	98	2217	97	34.42	17.51	1.03	16.48	351	1434	305	71.9
Crystal 803 (CommBench)	232	328.1	99	11422	99	63.92	97	2232	98	34.48	17.37	0.96	16.41	319	1356	281	81.9
BTS 8927 (CommBench)	233	341.6	103	11905	103	69.00	105	2399	105	35.04	17.92	0.85	17.07	269	1195	250	77.1
HIL2389 (CommBench)	234	331.9	100	11469	99	65.38	99	2255	99	34.55	17.48	0.89	16.60	306	1263	254	72.9
BTS 8156 (1stYearBench)	235	332.7	100	11401	99	65.67	100	2243	99	34.00	17.70	1.06	16.63	359	1464	313	76.9
AP CK MOD RES RR#7	236	307.0	92	12036	104	56.03	85	2182	96	39.46	16.41	1.06	15.35	438	1231	351	82.6
Comm Benchmark Mean		332.9		11530		65.71		2276		34.63	17.57	0.93		296	1309	267	74.3
Comm Trial Mean		328.4		11617		64.06		2264		35.42	17.38	0.96					

Table 17. 2025 Performance of Varieties - ACSC RR Official Trials
Alvarado MN

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	299.6	99	11900	104	53.43	97	2117	102	39.90	15.95	0.97	14.98	190	1317	334	62.5
BTS 8034	122	289.0	95	10984	96	49.49	90	1878	91	38.19	15.48	1.03	14.45	185	1480	347	55.4
BTS 8156	118	298.2	98	11414	100	52.89	96	2022	98	38.37	15.97	1.06	14.91	186	1490	361	56.2
BTS 8226	117	312.3	103	11403	100	58.13	106	2117	102	36.54	16.52	0.90	15.62	174	1247	298	60.4
BTS 8270	116	307.7	101	10964	96	56.42	103	2009	97	35.70	16.41	1.03	15.38	170	1405	361	50.6
BTS 8365	120	309.3	102	10256	90	57.02	104	1886	91	33.24	16.44	0.97	15.47	158	1330	342	42.1
BTS 8927 (CommBench)	115	313.6	103	11631	102	58.60	106	2164	105	36.96	16.66	0.97	15.69	163	1275	356	59.4
Crystal 022	105	310.4	102	11278	99	57.40	104	2086	101	36.20	16.53	1.01	15.52	164	1310	372	62.1
Crystal 130	110	306.7	101	11295	99	56.05	102	2064	100	36.88	16.31	0.98	15.33	194	1331	335	62.9
Crystal 138	119	302.9	100	11512	101	54.64	99	2072	100	37.93	16.18	1.03	15.15	163	1381	367	53.4
Crystal 260	104	299.9	99	11562	101	53.54	97	2073	100	38.55	15.89	0.90	14.99	134	1264	317	61.2
Crystal 269	107	305.0	100	11064	97	55.41	101	2002	97	36.51	16.30	1.06	15.24	195	1434	366	47.8
Crystal 361	111	309.8	102	11606	102	57.20	104	2139	103	37.32	16.40	0.90	15.50	164	1218	314	64.6
Crystal 369	109	294.5	97	10644	93	51.53	94	1863	90	36.14	15.81	1.08	14.73	212	1441	376	48.8
Crystal 793	112	294.1	97	11274	99	51.37	93	1967	95	38.47	15.81	1.11	14.70	257	1485	370	62.8
Crystal 912	102	290.2	95	11892	104	49.94	91	2038	99	41.03	15.58	1.06	14.52	236	1321	386	63.6
Hilleshög HIL2389 (CommBench)	103	306.8	101	11558	101	56.09	102	2116	102	37.68	16.31	0.97	15.34	147	1433	317	55.0
Hilleshög HIL2479	101	309.4	102	11568	101	57.05	104	2137	103	37.44	16.52	1.05	15.47	232	1428	350	60.1
Hilleshög HIL2480	113	294.7	97	10913	95	51.59	94	1903	92	36.88	15.88	1.14	14.74	239	1430	416	59.4
Maribo MA717	121	302.5	100	11384	100	54.50	99	2046	99	37.76	16.19	1.06	15.13	211	1467	355	51.7
SX 1815	108	294.7	97	11003	96	51.61	94	1921	93	37.48	15.88	1.15	14.73	229	1580	385	56.1
SX 1835	114	290.8	96	11687	102	50.18	91	2017	98	40.19	15.72	1.18	14.54	194	1537	436	62.0
SV 231	123	293.6	97	11621	102	51.19	93	2035	98	39.44	15.72	1.04	14.68	192	1512	337	64.7
BTS 8815 (CommBench)	124	302.4	99	11068	97	54.45	99	1990	96	36.75	16.14	1.03	15.11	201	1585	302	58.9
Crystal 803 (CommBench)	125	292.9	96	11454	100	50.96	93	2002	97	38.89	15.63	0.98	14.65	185	1315	341	62.0
AP CK MOD RES RR#7	126	285.5	94	12283	107	48.20	88	2059	100	43.51	15.30	1.03	14.27	250	1314	361	63.7
AP CK MOD SUS RR#8	127	311.3	102	11754	103	57.73	105	2178	105	37.71	16.45	0.88	15.57	155	1238	298	66.2
Experimental Trial (Comm status)																	
BTS 8440	222	310.3	102	11529	101	57.39	104	2140	103	37.05	16.43	0.92	15.52	161	1260	319	59.9
BTS 8457	202	302.1	99	11253	98	54.35	99	2014	97	37.79	15.98	0.91	15.08	207	1178	317	63.9
BTS 8509	211	311.5	103	11871	104	57.87	105	2224	108	38.25	16.37	0.82	15.56	151	1197	268	61.7
BTS 8513	210	292.5	96	11397	100	50.77	92	1965	95	38.87	15.85	1.21	14.64	179	1482	481	54.2
BTS 8520	223	290.4	96	11316	99	49.99	91	1962	95	39.42	15.54	1.05	14.49	214	1325	394	54.3
BTS 8531	228	293.8	97	11280	99	51.28	93	1958	95	38.92	15.75	1.08	14.67	254	1434	369	64.9
BTS 8555	206	303.3	100	11709	102	54.81	100	2124	103	38.98	16.09	0.97	15.13	164	1250	356	66.6
BTS 8580	208	313.7	103	10389	91	58.68	107	1958	95	33.45	16.50	0.85	15.66	142	1223	281	61.3
BTS 8598	214	303.4	100	11355	99	54.83	100	2067	100	37.83	16.14	1.00	15.14	183	1234	380	60.8
Crystal 364	226	298.1	98	12247	107	52.85	96	2165	105	41.05	15.93	1.01	14.92	236	1441	324	66.4
Crystal 470	213	286.9	94	11325	99	48.73	89	1933	93	40.09	15.31	1.00	14.31	200	1276	371	68.9
Crystal 471	217	306.8	101	11283	99	56.09	102	2051	99	36.95	16.26	0.93	15.34	169	1209	340	55.7
Crystal 580	224	299.3	98	11795	103	53.29	97	2097	101	39.95	15.94	1.02	14.92	198	1348	366	54.6
Crystal 581	227	317.2	104	11745	103	59.98	109	2235	108	37.27	16.74	0.92	15.83	163	1271	312	59.1
Crystal 583	201	303.3	100	12082	106	54.82	100	2205	107	39.98	16.08	0.94	15.15	210	1281	308	65.4
Crystal 584	204	309.2	102	11211	98	57.00	104	2067	100	36.54	16.45	1.01	15.44	162	1308	380	67.0
Crystal 591	209	317.1	104	11908	104	59.94	109	2266	110	37.45	16.75	0.90	15.86	150	1237	312	65.3
Crystal 594	203	312.7	103	11960	105	58.29	106	2234	108	38.86	16.49	0.92	15.58	195	1228	320	58.9
Hilleshög HIL2493	220	292.8	96	11840	104	50.87	92	2044	99	40.48	15.65	1.01	14.64	187	1396	345	57.6
Hilleshög HIL2494	229	292.5	96	11625	102	50.77	92	2025	98	39.88	15.70	1.09	14.61	179	1507	377	68.0
Hilleshög HIL2532	216	294.7	97	10875	95	51.61	94	1913	92	36.67	15.74	0.99	14.76	158	1391	343	52.7
Hilleshög HIL2533	218	291.0	96	11748	103	50.22	91	2022	98	40.55	15.58	1.04	14.54	172	1466	362	64.9
Hilleshög HIL2534	221	296.4	98	11224	98	52.21	95	1997	97	38.55	15.83	1.07	14.76	176	1479	377	53.7
Hilleshög HIL2535	205	302.2	99	11055	97	54.38	99	1977	96	36.80	16.08	0.99	15.10	152	1460	328	55.2
SV 251	207	296.2	97	10877	95	52.16	95	1918	93	37.43	15.74	0.99	14.76	187	1505	296	55.7
SV 254	212	300.2	99	11493	101	53.65	98	2052	99	38.41	15.98	0.97	15.02	188	1452	304	52.3
SV 255	215	295.7	97	11400	100	51.96	94	2000	97	38.48	15.77	0.99	14.78	170	1452	318	61.9
SV 256	225	295.2	97	11274	99	51.77	94	1965	95	38.70	15.78	1.06	14.72	179	1566	343	55.6
SV 345	219	297.6	98	11664	102	52.69	96	2076	100	39.56	15.84	0.99	14.85	174	1445	332	50.1
SV 347	230	301.8	99	11767	103	54.25	99	2120	103	39.28	16.15	1.09	15.06	175	1551	375	63.0
BTS 8815 (CommBench)	231	299.2	98	11425	100	53.28	97	2039	99	38.12	16.00	1.04	14.96	182	1489	347	49.7
Crystal 803 (CommBench)	232	305.9	101	11909	104	55.75	101	2175	105	39.05	16.20	0.92	15.29	166	1321	306	66.1
BTS 8927 (CommBench)	233	314.6	104	11288	99	59.01	107	2098	101	36.08	16.62	0.91	15.72	139	1204	336	67.3
HIL2389 (CommBench)	234	296.0	97	11089	97	52.06	95	1960	95	37.03	15.91	1.08	14.83	173	1463	388	51.8
BTS 8156 (1stYearBench)	235	299.9	99	11181	98	53.54	97	1996	97	37.38	15.95	0.96	15.00	200	1482	286	55.1
AP CK MOD RES RR#7	236	287.9	95	11887	104	49.10	89	2027	98	41.74	15.44	1.08	14.36	255	1362	388	59.3
Comm Benchmark Mean		303.9		11428		55.03		2068		37.57	16.19	0.99		174	1402	329	58.8
Comm Trial Mean		301.0		11369		53.95		2033		37.84	16.07	1.02		192	1391	3	

Table 18. 2025 Performance of Varieties - ACSC RR Official Trials
Stephen MN

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	371.1	98	11251	99	79.87	97	2420	98	30.37	19.49	0.94	18.55	140	1630	245	75.7
BTS 8034	122	366.3	97	11364	100	78.10	95	2417	98	31.14	19.28	0.97	18.31	138	1750	239	71.3
BTS 8156	118	359.1	95	10984	97	75.44	92	2312	94	30.49	18.93	0.97	17.96	133	1719	247	80.4
BTS 8226	117	379.6	101	11341	100	83.01	101	2481	101	29.85	19.81	0.82	18.99	108	1521	196	82.2
BTS 8270	116	380.1	101	11383	100	83.20	101	2494	101	29.89	19.89	0.88	19.01	115	1584	220	71.4
BTS 8365	120	382.6	102	10797	95	84.11	103	2373	96	28.16	20.02	0.88	19.14	114	1575	226	69.3
BTS 8927 (CommBench)	115	377.8	100	11276	99	82.36	100	2456	100	29.97	19.76	0.88	18.88	137	1541	221	78.6
Crystal 022	105	385.6	102	11405	101	85.22	104	2521	102	29.53	20.12	0.84	19.28	113	1492	215	77.6
Crystal 130	110	375.6	100	11631	103	81.55	99	2527	102	30.95	19.67	0.89	18.78	122	1560	229	75.3
Crystal 138	119	379.0	101	11214	99	82.78	101	2453	99	29.56	19.84	0.90	18.94	134	1596	222	70.5
Crystal 260	104	374.6	99	11309	100	81.16	99	2446	99	30.31	19.55	0.82	18.73	120	1512	193	75.4
Crystal 269	107	379.4	101	11916	105	82.96	101	2606	106	31.33	19.92	0.94	18.98	124	1639	250	73.5
Crystal 361	111	377.5	100	11214	99	82.25	100	2443	99	29.72	19.72	0.85	18.87	122	1509	213	73.8
Crystal 369	109	380.2	101	12184	107	83.23	102	2663	108	32.14	19.97	0.97	19.00	130	1668	261	77.0
Crystal 793	112	378.7	100	11795	104	82.67	101	2576	104	31.14	19.79	0.85	18.94	120	1494	222	79.5
Crystal 912	102	373.6	99	12701	112	80.79	99	2745	111	33.99	19.51	0.83	18.68	132	1445	216	83.6
Hilleshög HIL2389 (CommBench)	103	373.7	99	11198	99	80.83	99	2420	98	30.00	19.63	0.95	18.68	124	1720	234	68.7
Hilleshög HIL2479	101	375.7	100	11555	102	81.56	99	2507	102	30.75	19.70	0.92	18.78	135	1557	250	72.9
Hilleshög HIL2480	113	369.2	98	11506	101	79.18	97	2467	100	31.09	19.56	1.10	18.46	156	1766	323	70.3
Maribo MA717	121	366.8	97	11754	104	78.27	95	2508	102	32.09	19.34	1.00	18.34	151	1771	252	59.8
SX 1815	108	373.1	99	11160	98	80.63	98	2414	98	29.93	19.58	0.93	18.65	125	1683	233	65.4
SX 1835	114	368.5	98	11743	104	78.92	96	2513	102	31.86	19.42	0.99	18.43	136	1765	248	70.6
SV 231	123	374.2	99	11941	105	81.02	99	2585	105	31.96	19.64	0.94	18.70	122	1703	229	77.3
BTS 8815 (CommBench)	124	379.0	101	11253	99	82.80	101	2461	100	29.67	19.87	0.92	18.95	131	1720	210	78.8
Crystal 803 (CommBench)	125	376.9	100	11637	103	82.01	100	2535	103	30.87	19.73	0.89	18.84	117	1605	223	77.2
AP CK MOD RES RR#7	126	367.6	98	12738	112	78.57	96	2721	110	34.63	19.28	0.90	18.38	153	1539	232	82.6
AP CK MOD SUS RR#8	127	378.3	100	11254	99	82.52	101	2456	100	29.74	19.79	0.88	18.91	120	1560	223	77.8
Experimental Trial (Comm status)																	
BTS 8440	222	379.2	101	11760	104	82.86	101	2571	104	31.02	19.81	0.85	18.96	110	1517	187	84.4
BTS 8457	202	388.2	103	11300	100	86.22	105	2504	101	29.13	20.22	0.81	19.40	115	1422	179	83.3
BTS 8509	211	386.6	103	11954	105	85.63	104	2656	108	30.81	20.14	0.79	19.34	107	1362	179	74.6
BTS 8513	210	385.8	102	11204	99	85.32	104	2483	101	29.11	20.38	1.10	19.28	134	1783	294	81.6
BTS 8520	223	373.1	99	12043	106	80.61	98	2611	106	32.19	19.55	0.90	18.65	154	1497	206	82.8
BTS 8531	228	382.4	101	12386	109	84.07	103	2723	110	32.31	20.02	0.90	19.13	118	1532	215	86.3
BTS 8555	206	381.8	101	10882	96	83.82	102	2389	97	28.42	19.91	0.81	19.10	103	1398	192	77.7
BTS 8580	208	383.9	102	10741	95	84.60	103	2367	96	27.98	20.16	0.97	19.18	123	1604	238	83.6
BTS 8598	214	386.8	103	11460	101	85.70	105	2550	103	29.63	20.25	0.92	19.33	109	1546	216	74.7
Crystal 364	226	373.7	99	12052	106	80.83	99	2616	106	32.01	19.65	0.96	18.69	125	1655	220	83.6
Crystal 470	213	373.0	99	11583	102	80.55	98	2502	101	31.16	19.50	0.85	18.65	123	1443	203	77.4
Crystal 471	217	388.0	103	11951	105	86.13	105	2656	108	30.76	20.30	0.90	19.40	109	1511	212	77.7
Crystal 580	224	377.1	100	11678	103	82.10	100	2543	103	31.13	19.75	0.91	18.85	117	1567	214	75.5
Crystal 581	227	383.4	102	11210	99	84.45	103	2474	100	29.18	20.06	0.89	19.18	155	1474	204	68.4
Crystal 583	201	381.5	101	11573	102	83.73	102	2539	103	30.42	19.90	0.83	19.07	124	1410	196	75.0
Crystal 584	204	388.4	103	11414	101	86.28	105	2545	103	29.35	20.27	0.84	19.42	107	1483	190	75.8
Crystal 591	209	386.2	102	11435	101	85.48	104	2536	103	29.55	20.19	0.87	19.32	111	1462	207	80.5
Crystal 594	203	382.1	101	12052	106	83.94	102	2646	107	31.62	19.94	0.85	19.09	116	1472	190	86.3
Hilleshög HIL2493	220	373.1	99	12175	107	80.59	98	2634	107	32.59	19.62	0.97	18.65	118	1687	224	74.2
Hilleshög HIL2494	229	374.9	99	11968	106	81.25	99	2599	105	32.01	19.78	1.06	18.73	124	1753	264	79.5
Hilleshög HIL2532	216	380.2	101	11349	100	83.25	102	2486	101	29.80	19.96	0.97	18.99	111	1629	234	65.3
Hilleshög HIL2533	218	375.2	100	11668	103	81.37	99	2528	102	31.20	19.68	0.94	18.74	115	1666	209	75.8
Hilleshög HIL2534	221	376.0	100	10726	95	81.69	100	2335	95	28.58	19.80	1.00	18.80	114	1709	250	64.8
Hilleshög HIL2535	205	377.7	100	11611	102	82.32	100	2534	103	30.78	19.79	0.92	18.87	117	1571	215	80.4
SV 251	207	375.6	100	11598	102	81.52	99	2525	102	30.85	19.80	1.04	18.76	122	1712	259	77.2
SV 254	212	374.4	99	11848	104	81.08	99	2563	104	31.86	19.67	0.98	18.69	129	1682	227	77.9
SV 255	215	370.1	98	11642	103	79.50	97	2500	101	31.58	19.46	0.97	18.49	122	1679	226	78.2
SV 256	225	383.4	102	11696	103	84.44	103	2575	104	30.58	20.06	0.91	19.16	108	1581	208	71.9
SV 345	219	372.3	99	11522	102	80.31	98	2491	101	30.75	19.60	0.97	18.63	128	1705	215	66.5
SV 347	230	377.8	100	11021	97	82.33	100	2408	98	29.20	19.84	0.97	18.87	126	1660	222	71.5
BTS 8815 (CommBench)	231	373.7	99	11175	99	80.83	99	2418	98	29.99	19.62	0.95	18.67	129	1638	215	78.1
Crystal 803 (CommBench)	232	377.2	100	11757	104	82.12	100	2558	104	31.24	19.79	0.94	18.85	125	1559	239	80.1
BTS 8927 (CommBench)	233	381.9	101	10982	97	83.87	102	2420	98	28.69	19.94	0.84	19.10	111	1459	187	78.1
HIL2389 (CommBench)	234	374.7	99	11450	101	81.18	99	2476	100	30.59	19.63	0.91	18.72	112	1599	203	69.2
BTS 8156 (1stYearBench)	235	364.2	97	10843	96	77.33	94	2314	94	29.62	19.20	0.98	18.22	131	1675	227	73.0
AP CK MOD RES RR#7	236	374.0	99	12888	114	80.92	99	2798	113	34.35	19.59	0.90	18.69	144	1504	205	80.7
Comm Benchmark Mean		376.9		11341		82.00		2468		30.13	19.75	0.91		127	1647	222	75.8
Comm Trial Mean		374.9		11537		81.30		2501		30.78							

Table 19. 2025 Performance of Varieties - ACSC RR Official Trials
St. Thomas ND

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	338.0	100	12719	109	67.64	100	2543	109	37.64	17.65	0.75	16.90	145	1305	183	92.0
BTS 8034	122	306.5	91	10483	90	55.98	83	1914	82	34.22	16.23	0.90	15.33	217	1481	224	86.8
BTS 8156	118	324.3	96	11163	96	62.55	92	2153	93	34.41	17.06	0.84	16.22	196	1367	219	87.5
BTS 8226	117	342.9	101	12327	106	69.42	103	2498	107	35.91	17.86	0.72	17.14	146	1218	179	92.4
BTS 8270	116	339.0	100	11645	100	68.00	100	2335	100	34.36	17.72	0.77	16.95	145	1313	193	81.7
BTS 8365	120	341.2	101	11497	99	68.80	102	2319	100	33.71	17.83	0.78	17.05	146	1318	198	80.5
BTS 8927 (CommBench)	115	338.5	100	12108	104	67.81	100	2421	104	35.85	17.69	0.76	16.93	170	1260	196	84.6
Crystal 022	105	344.7	102	11965	103	70.12	104	2439	105	34.60	17.99	0.76	17.23	127	1325	187	90.5
Crystal 130	110	329.9	98	11874	102	64.61	95	2327	100	35.98	17.26	0.77	16.49	139	1320	192	84.7
Crystal 138	119	342.9	101	11398	98	69.44	103	2312	99	33.18	17.88	0.74	17.14	133	1324	172	85.1
Crystal 260	104	331.1	98	11630	100	65.06	96	2284	98	35.16	17.32	0.77	16.55	152	1332	186	89.0
Crystal 269	107	337.1	100	11419	98	67.30	99	2281	98	33.83	17.71	0.85	16.86	166	1398	228	86.7
Crystal 361	111	345.7	102	12337	106	70.47	104	2514	108	35.73	18.02	0.73	17.29	140	1204	197	84.9
Crystal 369	109	337.4	100	12521	108	67.42	100	2500	107	37.11	17.73	0.85	16.88	155	1405	231	88.0
Crystal 793	112	336.2	99	12277	106	66.97	99	2443	105	36.55	17.61	0.80	16.81	161	1316	210	91.0
Crystal 912	102	307.6	91	12009	103	56.38	83	2202	95	39.03	16.22	0.84	15.38	247	1208	238	85.1
Hilleshög HIL2389 (CommBench)	103	338.6	100	11299	97	67.83	100	2261	97	33.43	17.70	0.77	16.93	135	1293	205	81.0
Hilleshög HIL2479	101	335.6	99	10481	90	66.74	99	2079	89	31.33	17.58	0.80	16.78	184	1229	227	89.4
Hilleshög HIL2480	113	339.3	100	10856	93	68.11	101	2181	94	31.93	17.82	0.85	16.97	184	1332	238	82.1
Maribo MA717	121	331.7	98	11272	97	65.30	97	2211	95	34.13	17.44	0.85	16.59	165	1400	225	81.5
SX 1815	108	334.2	99	11664	100	66.20	98	2313	99	34.88	17.42	0.71	16.71	124	1285	168	80.4
SX 1835	114	324.2	96	12185	105	62.54	92	2349	101	37.61	17.02	0.81	16.21	185	1364	197	88.6
SV 231	123	328.2	97	12351	106	64.00	95	2410	104	37.58	17.15	0.74	16.41	139	1303	180	88.6
BTS 8815 (CommBench)	124	339.0	100	11116	96	68.00	100	2234	96	32.70	17.74	0.79	16.95	150	1401	184	85.6
Crystal 803 (CommBench)	125	336.3	99	12004	103	67.01	99	2388	103	35.76	17.60	0.78	16.82	144	1309	209	88.1
AP CK MOD RES RR#7	126	322.5	95	11927	103	61.88	91	2288	98	37.01	16.92	0.79	16.13	175	1245	219	96.2
AP CK MOD SUS RR#8	127	338.0	100	11983	103	67.63	100	2397	103	35.49	17.63	0.73	16.90	148	1237	185	84.8
Experimental Trial (Comm status)																	
BTS 8440	222	339.8	100	11841	102	68.28	101	2378	102	34.86	17.73	0.75	16.98	150	1319	188	83.1
BTS 8457	202	342.8	101	12453	107	69.38	103	2515	108	36.44	17.81	0.67	17.14	147	1125	180	90.6
BTS 8509	211	335.5	99	12341	106	66.73	99	2446	105	36.94	17.50	0.70	16.80	173	1242	168	90.3
BTS 8513	210	339.0	100	11213	96	67.99	100	2249	97	33.05	17.81	0.87	16.94	151	1481	241	80.1
BTS 8520	223	332.7	98	12591	108	65.69	97	2471	106	38.14	17.39	0.74	16.65	146	1318	184	84.5
BTS 8531	228	329.2	97	12180	105	64.38	95	2382	102	37.06	17.29	0.83	16.46	170	1391	227	85.7
BTS 8555	206	335.9	99	12039	103	66.88	99	2390	103	35.85	17.57	0.78	16.79	157	1296	217	84.0
BTS 8580	208	333.8	99	11029	95	66.10	98	2177	94	33.21	17.47	0.77	16.70	153	1312	203	82.6
BTS 8598	214	343.1	101	12191	105	69.49	103	2460	106	35.83	17.91	0.74	17.17	150	1244	201	85.1
Crystal 364	226	329.8	98	12032	103	64.61	95	2349	101	36.61	17.34	0.84	16.50	185	1470	208	84.8
Crystal 470	213	330.1	98	13053	112	64.73	96	2552	110	39.61	17.26	0.74	16.52	155	1320	184	84.0
Crystal 471	217	335.7	99	12297	106	66.81	99	2435	105	36.93	17.56	0.75	16.81	163	1257	201	83.9
Crystal 580	224	339.3	100	12615	108	68.08	101	2526	109	37.18	17.72	0.76	16.96	146	1353	197	89.1
Crystal 581	227	351.4	104	12972	112	72.56	107	2666	115	37.13	18.28	0.69	17.59	138	1216	179	90.0
Crystal 583	201	335.2	99	12413	107	66.60	98	2459	106	37.12	17.48	0.71	16.77	158	1217	187	80.0
Crystal 584	204	349.1	103	12563	108	71.73	106	2579	111	36.02	18.19	0.73	17.46	149	1289	188	86.7
Crystal 591	209	340.4	101	12649	109	68.49	101	2537	109	37.40	17.86	0.82	17.04	179	1346	229	86.9
Crystal 594	203	344.7	102	12431	107	70.07	104	2521	108	36.21	17.96	0.72	17.24	161	1231	186	81.3
Hilleshög HIL2493	220	323.6	96	12098	104	62.32	92	2326	100	37.55	16.95	0.76	16.19	178	1265	205	88.8
Hilleshög HIL2494	229	326.5	97	11011	95	63.39	94	2123	91	34.09	17.16	0.81	16.35	172	1396	209	83.0
Hilleshög HIL2532	216	336.5	100	11159	96	67.09	99	2222	96	33.24	17.59	0.76	16.83	149	1290	204	86.5
Hilleshög HIL2533	218	327.7	97	12625	109	63.82	94	2446	105	38.85	17.19	0.79	16.40	142	1398	202	82.0
Hilleshög HIL2534	221	331.7	98	10811	93	65.31	97	2117	91	32.78	17.42	0.81	16.61	151	1372	227	86.4
Hilleshög HIL2535	205	338.8	100	12366	106	67.90	100	2471	106	36.69	17.68	0.73	16.95	142	1308	180	81.4
SV 251	207	336.6	100	12147	104	67.12	99	2414	104	36.29	17.61	0.77	16.84	139	1404	189	84.6
SV 254	212	323.6	96	11352	98	62.32	92	2183	94	35.12	17.06	0.87	16.20	180	1472	236	83.4
SV 255	215	322.0	95	12374	106	61.73	91	2363	102	38.61	16.95	0.85	16.10	157	1423	236	86.4
SV 256	225	328.8	97	12755	110	64.22	95	2492	107	38.86	17.25	0.81	16.44	153	1468	202	82.6
SV 345	219	330.9	98	12807	110	65.03	96	2508	108	38.87	17.31	0.74	16.57	150	1322	188	86.9
SV 347	230	332.3	98	11338	97	65.55	97	2223	96	34.43	17.40	0.77	16.63	156	1300	207	85.1
BTS 8815 (CommBench)	231	339.9	101	11502	99	68.31	101	2301	99	33.98	17.78	0.78	17.00	163	1430	183	81.0
Crystal 803 (CommBench)	232	340.9	101	12210	105	68.68	102	2457	106	35.80	17.79	0.75	17.04	138	1362	184	83.3
BTS 8927 (CommBench)	233	337.8	100	11529	99	67.57	100	2311	99	34.16	17.72	0.83	16.89	167	1369	235	82.5
HIL2389 (CommBench)	234	333.8	99	11285	97	66.09	98	2234	96	33.80	17.43	0.74	16.69	133	1306	196	83.3
BTS 8156 (1stYearBench)	235	331.9	98	11124	96	65.39	97	2189	94	33.61	17.46	0.85	16.61	185	1483	214	80.7
AP CK MOD RES RR#7	236	314.4	93	11446	98	58.91	87	2154	93	36.21	16.51	0.81	15.70	187	1308	227	77.9
Comm Benchmark Mean		338.1		11632		67.66		2326		34.44	17.68	0.78		150	1316	198	84.8
Comm Trial Mean		333.7		11723		66.05		2318		35.15	17.47	0.79					

Table 20. 2025 Performance of Varieties - ACSC RR Official Trials
Northcote MN

Description @	Code	Rec/T lbs.	%Bnch	Rec/A lbs.	%Bnch	Rev/T \$ +	%Bnch	Rev/A \$ +	%Bnch	Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
Commercial Trial																	
BTS 8018	106	341.3	99	9550	100	68.86	97	1929	99	27.98	18.29	1.22	17.07	160	1689	443	75.4
BTS 8034	122	329.9	95	9725	102	64.63	91	1898	97	29.63	17.92	1.42	16.50	223	2024	485	61.6
BTS 8156	118	342.2	99	9862	103	69.17	98	1996	102	28.77	18.43	1.32	17.11	183	1998	428	65.2
BTS 8226	117	344.7	99	9126	96	70.10	99	1860	95	26.39	18.52	1.29	17.23	170	1695	486	68.6
BTS 8270	116	345.1	100	9911	104	70.27	99	2021	104	28.64	18.43	1.18	17.25	158	1740	391	65.5
BTS 8365	120	352.9	102	9192	96	73.13	103	1904	98	26.06	18.90	1.25	17.65	168	1685	463	68.9
BTS 8927 (CommBench)	115	355.6	103	10017	105	74.15	105	2087	107	28.18	18.91	1.13	17.78	142	1622	392	74.4
Crystal 022	105	358.7	104	9772	102	75.28	106	2050	105	27.32	19.04	1.11	17.93	136	1613	384	78.0
Crystal 130	110	346.9	100	9694	102	70.91	100	1980	102	27.95	18.57	1.23	17.34	163	1729	432	64.8
Crystal 138	119	347.6	100	9807	103	71.16	101	2014	103	28.14	18.66	1.28	17.38	144	1701	490	69.9
Crystal 260	104	357.0	103	10363	109	74.67	106	2168	111	29.03	18.99	1.14	17.85	141	1712	378	70.4
Crystal 269	107	358.4	103	9997	105	75.18	106	2096	107	27.83	19.12	1.19	17.93	158	1785	389	65.4
Crystal 361	111	359.0	104	9956	104	75.40	107	2087	107	27.77	19.13	1.17	17.96	152	1646	416	73.5
Crystal 369	109	351.4	101	10679	112	72.58	103	2204	113	30.43	18.94	1.37	17.57	171	1845	507	75.5
Crystal 793	112	346.0	100	9896	104	70.59	100	2019	104	28.65	18.46	1.16	17.30	167	1673	395	73.3
Crystal 912	102	329.7	95	10629	111	64.57	91	2090	107	31.98	17.75	1.26	16.49	194	1768	434	77.1
Hilleshög HIL2389 (CommBench)	103	338.2	98	9405	99	67.71	96	1887	97	27.79	18.10	1.20	16.90	152	1913	363	70.7
Hilleshög HIL2479	101	341.1	98	10061	105	68.78	97	2028	104	29.46	18.25	1.19	17.06	186	1691	406	77.2
Hilleshög HIL2480	113	332.5	96	9912	104	65.61	93	1958	100	29.81	18.12	1.50	16.62	210	1871	586	72.8
Maribo MA717	121	334.7	97	9893	104	66.40	94	1962	101	29.58	18.07	1.33	16.74	191	1857	470	57.8
SX 1815	108	352.2	102	9915	104	72.88	103	2053	105	28.16	18.74	1.14	17.60	140	1835	342	64.9
SX 1835	114	337.8	97	10497	110	67.53	95	2100	108	31.01	18.22	1.33	16.89	169	1928	458	76.7
SV 231	123	336.9	97	10100	106	67.23	95	2020	104	29.84	18.13	1.29	16.84	170	1927	422	75.2
BTS 8815 (CommBench)	124	346.3	100	9434	99	70.69	100	1927	99	27.33	18.58	1.27	17.31	190	1883	414	75.4
Crystal 803 (CommBench)	125	345.8	100	9300	97	70.51	100	1900	97	26.81	18.57	1.28	17.29	159	1790	456	77.8
AP CK MOD RES RR#7	126	338.4	98	10795	113	67.77	96	2166	111	31.84	18.16	1.24	16.92	192	1742	427	77.8
AP CK MOD SUS RR#8	127	348.9	101	9595	101	71.66	101	1975	101	27.39	18.63	1.18	17.45	151	1669	419	67.7
Experimental Trial (Comm status)																	
BTS 8440	222	361.8	104	9688	102	76.27	108	2050	105	26.63	19.11	1.03	18.09	132	1601	278	78.1
BTS 8457	202	355.2	103	9679	101	73.89	104	2009	103	27.42	18.75	1.00	17.76	138	1483	283	76.6
BTS 8509	211	348.4	101	9996	105	71.47	101	2055	105	28.59	18.54	1.13	17.41	146	1561	355	74.0
BTS 8513	210	342.8	99	9720	102	69.45	98	1966	101	28.48	18.56	1.42	17.14	158	1959	462	71.0
BTS 8520	223	337.5	97	9962	104	67.52	95	2005	103	29.43	18.05	1.20	16.86	158	1704	367	70.2
BTS 8531	228	351.3	101	10085	106	72.49	102	2083	107	28.90	18.75	1.22	17.54	156	1731	369	81.3
BTS 8555	206	355.3	103	9013	94	73.93	104	1880	96	25.54	18.95	1.16	17.78	156	1662	357	75.3
BTS 8580	208	348.1	100	8632	90	71.36	101	1764	90	24.97	18.59	1.21	17.38	149	1694	375	72.8
BTS 8598	214	362.1	105	9686	102	76.39	108	2042	105	26.97	19.19	1.08	18.11	125	1614	321	78.1
Crystal 364	226	341.8	99	10048	105	69.06	98	2033	104	29.50	18.31	1.23	17.08	165	1771	367	87.9
Crystal 470	213	328.7	95	9381	98	64.38	91	1844	95	28.54	17.67	1.25	16.42	168	1737	394	81.0
Crystal 471	217	359.8	104	9152	96	75.56	107	1932	99	25.29	19.09	1.08	18.01	142	1627	312	66.7
Crystal 580	224	354.7	102	9780	103	73.73	104	2025	104	27.86	18.88	1.15	17.73	150	1726	329	78.4
Crystal 581	227	359.9	104	8956	94	75.58	107	1879	96	25.03	19.11	1.12	17.99	144	1696	318	65.9
Crystal 583	201	344.4	99	9616	101	70.01	99	1959	100	28.11	18.39	1.18	17.22	169	1700	348	70.8
Crystal 584	204	359.6	104	9698	102	75.50	107	2029	104	27.07	19.13	1.15	17.98	143	1634	355	73.1
Crystal 591	209	355.3	103	9390	98	73.95	104	1962	101	26.46	18.96	1.16	17.79	172	1628	361	73.3
Crystal 594	203	356.3	103	9840	103	74.30	105	2049	105	27.79	18.85	1.01	17.84	151	1559	271	74.5
Hilleshög HIL2493	220	346.8	100	10591	111	70.88	100	2163	111	30.55	18.55	1.23	17.32	157	1851	342	81.0
Hilleshög HIL2494	229	334.4	97	9481	99	66.41	94	1889	97	28.36	18.06	1.35	16.71	149	1915	431	72.8
Hilleshög HIL2532	216	344.5	99	9625	101	70.05	99	1962	101	27.87	18.40	1.19	17.22	148	1757	344	75.5
Hilleshög HIL2533	218	339.8	98	10422	109	68.37	97	2083	107	30.90	18.23	1.25	16.98	143	1853	373	81.9
Hilleshög HIL2534	221	345.8	100	10157	106	70.53	100	2063	106	29.40	18.56	1.30	17.26	144	1838	411	61.5
Hilleshög HIL2535	205	345.1	100	9627	101	70.29	99	1953	100	28.09	18.44	1.19	17.26	168	1812	332	72.7
SV 251	207	340.3	98	10097	106	68.55	97	2032	104	29.82	18.38	1.41	16.98	158	2024	433	79.3
SV 254	212	336.7	97	9623	101	67.22	95	1918	98	28.79	18.11	1.30	16.81	173	1919	380	66.6
SV 255	215	332.2	96	9808	103	65.62	93	1932	99	29.51	17.84	1.24	16.60	157	1858	360	71.0
SV 256	225	339.2	98	10007	105	68.13	96	1996	102	30.01	18.18	1.25	16.93	161	1868	363	63.0
SV 345	219	345.0	100	10186	107	70.21	99	2073	106	29.56	18.49	1.24	17.25	154	1879	347	69.5
SV 347	230	350.7	101	9740	102	72.31	102	2003	103	27.70	18.81	1.27	17.54	144	1837	385	64.1
BTS 8815 (CommBench)	231	345.2	100	9252	97	70.32	99	1891	97	26.70	18.55	1.27	17.28	169	1861	375	64.8
Crystal 803 (CommBench)	232	343.9	99	10177	107	69.84	99	2077	107	29.58	18.44	1.25	17.19	148	1718	405	79.0
BTS 8927 (CommBench)	233	349.0	101	9456	99	71.67	101	1931	99	27.35	18.58	1.16	17.41	144	1636	364	74.1
HIL2389 (CommBench)	234	347.8	100	9271	97	71.22	101	1903	98	26.48	18.59	1.20	17.39	135	1827	341	72.9
BTS 8156 (1stYearBench)	235	348.1	100	9811	103	71.36	101	2018	103	28.20	18.61	1.21	17.40	160	1925	311	73.1
AP CK MOD RES RR#7	236	329.5	95	10790	113	64.64	91	2126	109	32.83	17.76	1.31	16.45	176	1700	445	75.3
Comm Benchmark Mean		346.5		9539		70.77		1950		27.53	18.54	1.22		161	1802	406	74.6
Comm Trial Mean		345.2		9892		70.27		2014		28.66	18.50	1.25		168	1779		

Table 21. 2025 Performance of Varieties - ACSC RR Official Trials
Bathgate ND

Description @	Code	Rec/T		Rec/A		Rev/T		Rev/A		Yield T/A	Gross	Sugar% LTM	Rec	Na ppm	K ppm	AmN ppm	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$ +	%Bnch	\$ +	%Bnch								
Commercial Trial																	
BTS 8018	106	320.8	98	11616	99	61.27	96	2222	97	36.10	16.99	0.94	16.05	204	1473	266	64.9
BTS 8034	122	320.4	98	11993	102	61.13	96	2288	100	37.41	17.06	1.04	16.02	225	1759	259	49.8
BTS 8156	118	315.5	96	11401	97	59.28	93	2134	93	36.17	16.75	0.97	15.78	218	1714	218	48.9
BTS 8226	117	336.4	103	11689	99	67.02	105	2334	102	34.72	17.68	0.87	16.81	182	1434	225	55.2
BTS 8270	116	332.4	101	11617	99	65.55	103	2298	100	34.97	17.52	0.90	16.62	183	1587	212	53.6
BTS 8365	120	343.9	105	11107	94	69.79	109	2247	98	32.44	18.03	0.84	17.19	184	1469	191	53.8
BTS 8927 (CommBench)	115	325.2	99	11448	97	62.87	98	2216	97	34.99	17.24	0.98	16.26	204	1497	284	55.4
Crystal 022	105	337.4	103	11795	100	67.39	105	2354	103	35.00	17.72	0.85	16.87	162	1386	231	51.6
Crystal 130	110	337.0	103	11811	100	67.26	105	2351	103	35.26	17.76	0.91	16.85	192	1521	230	53.2
Crystal 138	119	341.3	104	12252	104	68.85	108	2468	108	35.86	17.98	0.91	17.07	164	1483	253	51.2
Crystal 260	104	323.0	98	11900	101	62.08	97	2287	100	36.82	17.08	0.93	16.15	200	1577	228	54.2
Crystal 269	107	345.8	105	12606	107	70.50	110	2567	112	36.61	18.25	0.96	17.29	182	1644	246	56.8
Crystal 361	111	340.7	104	11992	102	68.63	107	2415	105	35.34	17.93	0.90	17.03	167	1490	240	58.5
Crystal 369	109	330.5	101	12119	103	64.85	101	2376	104	36.62	17.58	1.05	16.53	230	1673	287	55.2
Crystal 793	112	328.0	100	11972	102	63.92	100	2332	102	36.37	17.32	0.92	16.40	188	1473	250	60.3
Crystal 912	102	309.8	94	12001	102	57.18	89	2215	97	38.76	16.57	1.08	15.49	297	1512	324	60.7
Hilleshög HIL2389 (CommBench)	103	332.8	101	11860	101	65.72	103	2343	102	35.82	17.53	0.89	16.64	161	1553	224	54.7
Hilleshög HIL2479	101	335.5	102	12411	105	66.68	104	2474	108	36.95	17.67	0.90	16.77	214	1475	227	56.4
Hilleshög HIL2480	113	324.6	99	12052	102	62.67	98	2334	102	37.19	17.35	1.11	16.24	255	1609	342	51.2
Maribo MA717	121	315.5	96	12264	104	59.29	93	2304	100	38.87	16.77	0.99	15.78	266	1611	245	52.4
SX 1815	108	331.3	101	11837	101	65.14	102	2329	102	35.75	17.56	0.99	16.57	210	1714	239	49.3
SX 1835	114	323.4	99	12704	108	62.23	97	2441	106	39.29	17.16	0.99	16.17	210	1664	252	54.2
SV 231	123	317.5	97	12358	105	60.05	94	2342	102	38.81	16.89	1.02	15.87	224	1685	260	57.6
BTS 8815 (CommBench)	124	334.7	102	11933	101	66.41	104	2371	103	35.48	17.84	1.11	16.73	213	1820	296	51.0
Crystal 803 (CommBench)	125	319.2	97	11835	101	60.65	95	2243	98	37.12	16.90	0.94	15.96	189	1568	246	60.0
AP CK MOD RES RR#7	126	314.9	96	12268	104	59.08	92	2303	100	38.80	16.71	0.96	15.75	252	1516	250	63.7
AP CK MOD SUS RR#8	127	332.8	101	11618	99	65.72	103	2296	100	34.93	17.54	0.90	16.64	203	1472	231	56.9
Experimental Trial (Comm status)																	
BTS 8440	222	331.1	101	12591	107	65.03	102	2472	108	38.00	17.47	0.91	16.56	169	1430	205	61.2
BTS 8457	202	336.2	103	11961	102	66.88	105	2381	104	35.53	17.69	0.87	16.82	167	1361	200	55.2
BTS 8509	211	333.2	102	12069	103	65.81	103	2380	104	36.23	17.54	0.86	16.67	152	1379	188	53.8
BTS 8513	210	324.8	99	11255	96	62.77	98	2174	95	34.62	17.32	1.09	16.23	203	1751	236	48.0
BTS 8520	223	325.6	99	12672	108	63.04	99	2452	107	39.07	17.26	0.99	16.27	189	1583	217	55.1
BTS 8531	228	322.5	98	12054	102	61.95	97	2306	101	37.48	17.15	1.03	16.12	212	1570	233	48.9
BTS 8555	206	322.3	98	10848	92	61.87	97	2078	91	33.69	17.10	0.98	16.11	169	1453	248	61.9
BTS 8580	208	334.6	102	11264	96	66.30	104	2233	97	33.63	17.69	0.95	16.74	163	1471	223	59.6
BTS 8598	214	325.0	99	11646	99	62.86	98	2256	98	35.80	17.22	0.97	16.25	185	1535	219	50.0
Crystal 364	226	319.5	97	12018	102	60.87	95	2284	100	37.73	17.03	1.07	15.96	230	1648	239	52.4
Crystal 470	213	323.9	99	12545	107	62.48	98	2414	105	38.93	17.12	0.93	16.19	150	1502	211	55.9
Crystal 471	217	328.2	100	12408	105	64.00	100	2418	105	37.89	17.35	0.94	16.41	157	1464	219	53.7
Crystal 580	224	328.2	100	12585	107	64.01	100	2452	107	38.43	17.36	0.95	16.41	171	1554	200	55.2
Crystal 581	227	326.7	100	11645	99	63.47	99	2258	98	35.63	17.29	0.96	16.33	193	1453	224	50.2
Crystal 583	201	322.8	98	11744	100	62.04	97	2256	98	36.44	17.00	0.85	16.15	167	1426	163	61.1
Crystal 584	204	339.6	104	11832	101	68.11	107	2371	103	34.90	17.97	0.99	16.97	192	1501	236	54.9
Crystal 591	209	340.5	104	12199	104	68.41	107	2449	107	35.85	17.91	0.87	17.03	149	1392	195	57.4
Crystal 594	203	331.2	101	12614	107	65.06	102	2479	108	38.09	17.50	0.93	16.57	158	1450	219	57.9
Hilleshög HIL2493	220	318.1	97	12582	107	60.38	94	2388	104	39.58	16.88	0.98	15.90	194	1631	195	49.0
Hilleshög HIL2494	229	312.1	95	12394	105	58.22	91	2311	101	39.62	16.73	1.14	15.59	222	1664	285	54.7
Hilleshög HIL2532	216	319.1	97	11722	100	60.71	95	2230	97	36.63	16.96	1.00	15.96	191	1595	219	52.7
Hilleshög HIL2533	218	316.6	97	13041	111	59.79	94	2468	108	41.17	16.79	0.96	15.82	174	1533	206	52.9
Hilleshög HIL2534	221	331.4	101	12340	105	65.16	102	2425	106	37.35	17.60	1.05	16.56	151	1675	247	52.7
Hilleshög HIL2535	205	318.5	97	11743	100	60.52	95	2226	97	37.00	16.92	1.02	15.91	183	1553	235	52.6
SV 251	207	329.5	100	12560	107	64.46	101	2461	107	38.03	17.51	1.03	16.48	169	1735	213	53.9
SV 254	212	310.1	95	12092	103	57.46	90	2241	98	38.93	16.56	1.07	15.49	252	1656	225	57.0
SV 255	215	316.9	97	12684	108	59.95	94	2399	105	39.98	16.84	0.99	15.85	184	1624	209	46.3
SV 256	225	318.4	97	12535	107	60.47	95	2378	104	39.52	16.90	1.00	15.90	166	1607	225	47.4
SV 345	219	315.5	96	12571	107	59.42	93	2367	103	39.77	16.79	1.03	15.77	208	1701	202	58.1
SV 347	230	331.7	101	11981	102	65.26	102	2353	103	36.27	17.54	0.96	16.58	144	1614	197	54.4
BTS 8815 (CommBench)	231	321.8	98	11454	97	61.68	97	2197	96	35.49	17.10	1.00	16.09	173	1724	195	51.3
Crystal 803 (CommBench)	232	323.7	99	10912	93	62.39	98	2103	92	33.68	17.18	0.99	16.18	186	1543	230	60.8
BTS 8927 (CommBench)	233	339.7	104	12380	105	68.14	107	2478	108	36.59	17.90	0.92	16.98	142	1475	205	55.9
HIL2389 (CommBench)	234	326.6	100	12330	105	63.44	99	2395	104	37.65	17.34	1.00	16.34	177	1635	214	44.9
BTS 8156 (1stYearBench)	235	325.0	99	11551	98	62.83	98	2226	97	35.65	17.20	0.96	16.24	168	1623	193	49.3
AP CK MOD RES RR#7	236	313.6	96	13220	112	58.73	92	2471	108	42.24	16.66	0.99	15.66	212	1468	240	60.1
Comm Benchmark Mean		328.0		11769		63.91		2293		35.85	17.38	0.98		192	1610	262	55.3
Comm Trial Mean		328.5		11943													

Table 22. Calculation for Approval of Sugarbeet Varieties for ACSC Market for 2026

Description	Approval Status	Rec/Ton				Rev/Acre++				R/T + \$/A	Cercospora Rating ^				
		2024	2025	2 Yr	% Bench	2024	2025	2 Yr	% Bench	% Bench	2023	2024	2025	2 Yr Mean	3 Yr Mean
Previously Approved (3 Yr)															
BTS 8018	Approved	336.0	324.3	330.2	99.2	2101	2179	2140	102.2	201.4	2.42	3.35	3.88	3.62	3.22
BTS 8034	Approved	324.1	314.0	319.1	95.9	1978	2051	2015	96.2	192.0	2.54	3.69	4.28	3.99	3.51
BTS 8156	Approved	331.8	323.9	327.9	98.5	2015	2130	2073	98.9	197.4	2.53	3.87	4.38	4.12	3.59
BTS 8226	Approved	346.2	335.9	341.1	102.5	2146	2256	2201	105.1	207.5	2.33	3.52	4.05	3.79	3.30
BTS 8270	Approved	337.5	333.1	335.3	100.7	2064	2189	2127	101.5	202.3	2.43	3.32	3.56	3.44	3.10
BTS 8365	Approved	350.3	338.7	344.5	103.5	2088	2151	2120	101.2	204.7	4.15	4.18	3.95	4.07	4.10
BTS 8927	Approved	345.0	333.0	339.0	101.8	2124	2215	2170	103.6	205.4	4.38	4.45	4.22	4.34	4.35
Crystal 022	Approved	344.0	336.4	340.2	102.2	2044	2216	2130	101.7	203.9	4.97	4.66	4.78	4.72	4.81
Crystal 130	Approved	337.5	330.8	334.2	100.4	2077	2213	2145	102.4	202.8	2.60	3.56	4.27	3.92	3.48
Crystal 138	Approved	333.8	331.7	332.8	100.0	2024	2216	2120	101.2	201.2	4.77	4.73	4.47	4.60	4.66
Crystal 260	Approved	340.2	330.7	335.5	100.8	2124	2219	2172	103.7	204.4	2.15	3.13	3.60	3.37	2.96
Crystal 269	Approved	345.0	333.0	339.0	101.8	2139	2253	2196	104.8	206.7	4.38	4.54	4.42	4.48	4.45
Crystal 361	Approved	339.9	337.2	338.6	101.7	2119	2282	2201	105.1	206.8	2.24	3.33	3.71	3.52	3.09
Crystal 364	Approved	327.7	317.6	322.7	96.9	2081	2162	2122	101.3	198.2	4.26	4.46	4.37	4.41	4.36
Crystal 369	Approved	338.3	326.6	332.5	99.9	2101	2214	2158	103.0	202.9	3.78	4.03	3.88	3.96	3.90
Crystal 793	Approved	338.8	328.2	333.5	100.2	2092	2220	2156	102.9	203.1	4.20	4.28	3.98	4.13	4.15
Crystal 912	Approved	316.4	311.9	314.2	94.4	2035	2174	2105	100.5	194.8	5.00	5.06	5.04	5.05	5.03
Hilleshög HIL2389	Approved	336.9	326.0	331.5	99.6	2062	2126	2089	99.7	199.3	4.51	4.57	4.53	4.55	4.54
Hilleshög HIL2479	Approved	338.3	324.7	331.5	99.6	1868	2067	1968	93.9	193.5	4.09	4.25	4.21	4.23	4.18
Hilleshög HIL2480	Specialty	331.3	319.8	325.6	97.8	1886	2052	1969	94.0	191.8	4.00	4.08	4.24	4.16	4.11
Maribo MA717	Approved	323.9	316.2	320.1	96.2	1978	2065	2022	96.5	192.7	5.04	4.85	4.82	4.83	4.90
SX 1815	Approved	337.7	324.6	331.2	99.5	2070	2097	2084	99.5	199.0	4.74	4.70	4.74	4.72	4.73
SX 1835	Specialty	324.4	317.2	320.8	96.4	2060	2160	2110	100.7	197.1	4.55	4.66	4.60	4.63	4.60
SV 231	Approved	326.2	319.5	322.9	97.0	2116	2179	2148	102.5	199.5	4.83	4.77	4.73	4.75	4.78
Candidates for Approval (2 Yr)															
BTS 8440	Approved	341.6	338.7	340.2	102.2	2105	2290	2198	104.9	207.1	--	2.90	3.18	3.04	--
BTS 8457	Approved	341.9	333.0	337.5	101.4	2159	2228	2194	104.7	206.1	--	3.55	4.07	3.81	--
Crystal 470	Approved	332.6	325.9	329.3	98.9	2145	2247	2196	104.8	203.8	--	3.71	4.21	3.96	--
Crystal 471	Approved	343.7	335.9	339.8	102.1	2157	2251	2204	105.2	207.3	--	3.49	4.10	3.79	--
Hilleshög HIL2493	Not Approved	328.1	317.7	322.9	97.0	2149	2164	2157	102.9	200.0	--	4.82	4.65	4.74	--
Hilleshög HIL2494	Not Approved	332.7	316.1	324.4	97.5	2123	2101	2112	100.8	198.3	--	4.60	4.70	4.65	--
SV 345	Not Approved	321.8	318.4	320.1	96.2	2129	2147	2138	102.1	198.2	--	4.93	4.84	4.89	--
SV 347	Not Approved	336.5	325.8	331.2	99.5	2085	2101	2093	99.9	199.4	--	4.81	4.73	4.77	--
Benchmark Varieties															
Crystal 578RR (Check)	Benchmark	346.1				1907									
BTS 8815 (CommBench)	Benchmark	344.7	332.0	328.2		1703	2009	2095							
Crystal 803 (CommBench)	Benchmark	350.5	337.1	327.2		2003	2044	2174							
BTS 8927 (CommBench)	Benchmark	356.0	343.5	333.0		1897	2018	2215							
HIL2389 (CommBench)	Benchmark	335.8	326.0			2087	2116								
Benchmark mean		349.3	337.1	328.6	2yr 332.9	3yr 338.3	1878	2039	2150	2yr 2095	3yr 2022				

Variety approval criteria include: 1) Two years of official trial data, 2) Cercospora rating must not exceed 5.00 (1982 adjusted data), AND 3a) R/T >= 100% of Bench OR 3b) R/T >= 97% and R/T + \$/A >= 202% of Bench. Three years of data may be considered for initial approval.

Created 10/17/2025

"Specialty" = Does not meet full market approval. Meets Aphanomyces and/or Rhizoctonia Specialty approval.

To maintain approval, the three-year Cercospora rating must not exceed 5.30 (1982 adjusted data).

++2025 Revenue estimate based on a \$60.97 beet payment (5-yr ave) at 17.5% crop with a 1.5% loss to molasses and 2024 Revenue estimate based on a \$54.53 beet payment.

Revenue does not consider hauling or production costs.

^ All Cercospora ratings 2023-2025 were adjusted to 1982 basis.

Table 23. 2025 First Year Experimental Varieties
New Benchmark Comparison
Projected Calculation for Approval of Sugarbeet Varieties for ACSC Market

Description	Approval ^	Rec/Ton		Rev/Acre ++		R/T + \$/A	CR Rating ^^
		%		%		%	
		2025	Bench	2025	Bench	Bench	2025
Candidates for Retesting (1 Yr)							
BTS 8509	On Track	334.5	101.8	2244	104.5	206.3	3.73
BTS 8513	Not On Track	325.4	99.1	2101	97.8	196.9	3.63
BTS 8520	On Track	326.2	99.3	2242	104.4	203.7	3.71
BTS 8531	Not On Track	323.3	98.4	2217	103.2	201.7	4.12
BTS 8555	On Track	329.8	100.4	2136	99.5	199.9	3.88
BTS 8580	On Track	332.0	101.1	2054	95.6	196.7	3.00
BTS 8598	On Track	337.4	102.7	2262	105.3	208.0	3.54
Crystal 580	On Track	328.5	100.0	2208	102.8	202.8	4.07
Crystal 581	On Track	338.6	103.1	2270	105.7	208.8	3.86
Crystal 583	Not On Track	325.3	99.0	2185	101.7	200.8	4.37
Crystal 584	On Track	339.1	103.2	2254	105.0	208.2	3.85
Crystal 591	On Track	339.3	103.3	2307	107.4	210.7	3.24
Crystal 594	On Track	336.2	102.4	2312	107.7	210.0	4.75
Hilleshög HIL2532	Not On Track	322.8	98.3	2030	94.5	192.8	4.67
Hilleshög HIL2533	Not On Track	317.9	96.8	2159	100.5	197.3	4.80
Hilleshög HIL2534	Not On Track	320.5	97.6	2026	94.3	191.9	4.55
Hilleshög HIL2535	Not On Track	326.4	99.4	2145	99.9	199.3	4.84
SV 251	On Track	326.3	99.3	2226	103.7	203.0	4.64
SV 254	Not On Track	319.6	97.3	2118	98.6	195.9	4.28
SV 255	Not On Track	317.6	96.7	2155	100.3	197.0	4.56
SV 256	Not On Track	319.1	97.1	2112	98.3	195.5	4.58
Benchmarks *							
Crystal 803 (CommBench)		328.8	100.1	2183	101.6		
BTS 8927 (CommBench)		335.4	102.1	2231	103.9		
HIL2389 (CommBench)		324.6	98.8	2091	97.4		
BTS 8156 (1stYearBench)		325.1	99.0	2085	97.1		
Benchmark Mean		328.5		2148			

Variety approval criteria include: 1) Two years of official trial data, 2) Cercospora rating must not exceed 5.00 (1982 adjusted data), AND 3a) R/T >= 100% of Bench OR 3b) R/T >= 97% and R/T + \$/A >= 202% of Bench.
++2025 Revenue estimate based on a \$60.97 beet payment (5-yr ave) at 17.5% crop with a 1.5% loss to molasses.

Created 10/17/2025

Revenue does not consider hauling or production cost

* 2025 benchmark varieties for first year entries dropped BTS 8815 and added BTS 8156

^^ All Cercospora ratings from 2025 were adjusted to 1982 basis.

^ Not On Track = data is not tracking for potential approval. On Track = data is tracking for potential approval.

Table 24. Calculation for Approval of Sugarbeet Varieties for ACSC Aphanomyces Specialty Market for 2026

Description	Approval Status	Aphanomyces Root Rating					Cercospora Rating *				
		2023	2024	2025	2 Yr	3 Yr	2023	2024	2025	2 Yr	3 Yr
Previously Approved (3 Yr)		<=4.30					<=5.30				
BTS 8018	Approved	3.95	3.73	3.51	3.62	3.73	2.42	3.35	3.88	3.62	3.22
BTS 8034	Approved	3.80	4.48	3.52	4.00	3.93	2.54	3.69	4.28	3.99	3.51
BTS 8156	Approved	3.97	4.27	3.59	3.93	3.94	2.53	3.87	4.38	4.12	3.59
BTS 8226	Approved	3.72	3.81	3.43	3.62	3.65	2.33	3.52	4.05	3.79	3.30
BTS 8270	Approved	3.90	3.76	3.61	3.69	3.76	2.43	3.32	3.56	3.44	3.10
BTS 8365	Approved	3.62	3.87	3.69	3.78	3.73	4.15	4.18	3.95	4.07	4.10
BTS 8927	Approved	3.26	4.41	3.67	4.04	3.78	4.38	4.45	4.22	4.34	4.35
Crystal 022	Approved	3.66	3.95	3.33	3.64	3.65	4.97	4.66	4.78	4.72	4.81
Crystal 130	Approved	4.00	3.72	3.46	3.59	3.73	2.60	3.56	4.27	3.92	3.48
Crystal 138	Approved	4.06	3.84	3.56	3.70	3.82	4.77	4.73	4.47	4.60	4.66
Crystal 260	Approved	3.84	4.08	3.58	3.83	3.83	2.15	3.13	3.60	3.37	2.96
Crystal 269	Approved	3.62	3.50	3.07	3.29	3.40	4.38	4.54	4.42	4.48	4.45
Crystal 361	Approved	3.45	3.80	3.13	3.47	3.46	2.24	3.33	3.71	3.52	3.09
Crystal 364	Approved	3.79	3.78	3.38	3.58	3.65	4.26	4.46	4.37	4.41	4.36
Crystal 369	Approved	4.02	3.45	3.35	3.40	3.61	3.78	4.03	3.88	3.96	3.90
Crystal 793	Approved	4.31	3.72	3.17	3.45	3.73	4.20	4.28	3.98	4.13	4.15
Crystal 912	Approved	3.41	3.57	3.27	3.42	3.42	5.00	5.06	5.04	5.05	5.03
Hilleshög HIL2389	Approved	5.42	3.56	3.80	3.68	4.26	4.51	4.57	4.53	4.55	4.54
Candidates for Approval (2 Yr)		<=4.00					<=5.00				
BTS 8440	Approved	--	4.03	3.61	3.82	--	--	2.90	3.18	3.04	--
BTS 8457	Not Approved	--	4.33	3.96	4.15	--	--	3.55	4.07	3.81	--
Crystal 470	Approved	--	3.67	3.74	3.71	--	--	3.71	4.21	3.96	--
Crystal 471	Approved	--	3.99	3.62	3.81	--	--	3.49	4.10	3.79	--
Hilleshög HIL2479	Not Approved	4.38	4.76	4.18	4.47	4.44	4.09	4.25	4.21	4.23	4.18
Hilleshög HIL2480	Not Approved	4.30	4.43	4.06	4.25	4.26	4.00	4.08	4.24	4.16	4.11
Hilleshög HIL2493	Not Approved	--	4.15	4.27	4.21	--	--	4.82	4.65	4.74	--
Hilleshög HIL2494	Not Approved	--	4.10	4.13	4.11	--	--	4.60	4.70	4.65	--
Maribo MA717	Not Approved	4.61	4.18	4.88	4.53	4.55	5.04	4.85	4.82	4.83	4.90
SX 1815	Not Approved	6.15	3.96	4.28	4.12	4.80	4.74	4.70	4.74	4.72	4.73
SX 1835	Not Approved	5.99	4.31	4.43	4.37	4.91	4.55	4.66	4.60	4.63	4.60
SV 231	Not Approved	6.25	4.43	4.11	4.27	4.93	4.83	4.77	4.73	4.75	4.78
SV 345	Not Approved	--	4.20	4.12	4.16	--	--	4.93	4.84	4.89	--
SV 347	Not Approved	--	4.22	4.13	4.18	--	--	4.81	4.73	4.77	--
Approval Criteria new varieties					4.00						
Criteria to Maintain Approval					4.30						

* All Cercospora ratings 2023-2025 were adjusted to 1982 basis.

Created 10/20/2025

Aphanomyces approval criteria include: 1) Cercospora rating 2 year mean must not exceed 5.00 (1982 adjusted data), 2) Aph root rating 2 year mean <= 4.00.

Three years of data may be considered for initial approval.

To maintain Aphanomyces approval, criteria include: 1) Cercospora 3 year mean must not exceed 5.30, 2) Aph root rating 3 year mean <= 4.30.

Previously approved varieties not meeting current approval standards may be sold in 2026.

Table 25. Calculation for Approval of Sugarbeet Varieties for ACSC Rhizoctonia Specialty Market for 2026

Description	Approval Status	Rhizoctonia Root Rating ⁺					Cercospora Rating				
		2023	2024	2025	2 Yr Mn	3 Yr Mn	2023	2024	2025	2 Yr Mn	3 Yr Mn
Previously Approved (3 Yr)		<=4.12					<=5.30				
BTS 8226	Approved	3.78	3.46	3.64	3.55	3.62	2.33	3.52	4.05	3.79	3.30
BTS 8270	Approved	3.67	3.86	3.85	3.85	3.79	2.43	3.32	3.56	3.44	3.10
BTS 8365	Approved	3.69	3.60	3.73	3.67	3.67	4.15	4.18	3.95	4.07	4.10
BTS 8927	Approved	3.98	3.57	3.87	3.72	3.81	4.38	4.45	4.22	4.34	4.35
Crystal 022	Approved	3.85	3.63	3.87	3.75	3.78	4.97	4.66	4.78	4.72	4.81
Crystal 130	Approved	3.69	3.54	3.79	3.67	3.67	2.60	3.56	4.27	3.92	3.48
Crystal 138	Approved	3.81	3.68	3.77	3.73	3.76	4.77	4.73	4.47	4.60	4.66
Crystal 260	Approved	3.46	3.70	3.80	3.75	3.65	2.15	3.13	3.60	3.37	2.96
Crystal 361	Approved	3.54	3.78	3.99	3.88	3.77	2.24	3.33	3.71	3.52	3.09
Crystal 364	Approved	3.79	3.77	3.60	3.69	3.72	4.26	4.46	4.37	4.41	4.36
Crystal 912	Approved	3.50	3.45	3.12	3.29	3.36	5.00	5.06	5.04	5.05	5.03
Hilleshög HIL2480	Approved	3.70	3.65	3.37	3.51	3.57	4.00	4.08	4.24	4.16	4.11
SX 1835	Approved	3.55	4.07	3.79	3.93	3.80	4.55	4.66	4.60	4.63	4.60
SV 231	Approved	3.69	3.71	3.81	3.76	3.74	4.83	4.77	4.73	4.75	4.78
Candidates for Approval (2 Yr)		<=3.82					<=5.00				
BTS 8018	Approved	4.06	3.68	3.83	3.75	3.86	2.42	3.35	3.88	3.62	3.22
BTS 8034	Not Approved	4.09	4.38	4.20	4.29	4.22	2.54	3.69	4.28	3.99	3.51
BTS 8156	Not Approved	3.93	4.28	4.38	4.33	4.20	2.53	3.87	4.38	4.12	3.59
BTS 8440	Approved	--	3.68	3.82	3.75	--	--	2.90	3.18	3.04	--
BTS 8457	Approved	--	3.71	3.76	3.74	--	--	3.55	4.07	3.81	--
Crystal 269	Not Approved	3.90	4.30	4.06	4.18	4.09	4.38	4.54	4.42	4.48	4.45
Crystal 369	Not Approved	3.98	4.72	4.27	4.49	4.32	3.78	4.03	3.88	3.96	3.90
Crystal 470	Approved	--	3.85	3.78	3.82	--	--	3.71	4.21	3.96	--
Crystal 471	Approved	--	3.69	3.86	3.77	--	--	3.49	4.10	3.79	--
Crystal 793	Not Approved	4.35	3.89	4.18	4.04	4.14	4.20	4.28	3.98	4.13	4.15
Hilleshög HIL2389	Not Approved	4.45	4.08	4.01	4.04	4.18	4.51	4.57	4.53	4.55	4.54
Hilleshög HIL2479	Not Approved	3.43	4.24	3.50	3.87	3.72	4.09	4.25	4.21	4.23	4.18
Hilleshög HIL2493	Approved	--	3.83	3.56	3.69	--	--	4.82	4.65	4.74	--
Hilleshög HIL2494	Not Approved	--	3.97	3.93	3.95	--	--	4.60	4.70	4.65	--
Maribo MA717	Not Approved	4.10	4.19	3.90	4.05	4.07	5.04	4.85	4.82	4.83	4.90
SX 1815	Not Approved	4.35	4.30	4.09	4.20	4.25	4.74	4.70	4.74	4.72	4.73
SV 345	Approved	--	3.48	3.59	3.54	--	--	4.93	4.84	4.89	--
SV 347	Not Approved	--	4.28	4.02	4.15	--	--	4.81	4.73	4.77	--
Approval Criteria new varieties					3.82						
Criteria to Maintain Approval					4.12						

+ Root Rating based on a scale of 0 (healthy) to 7 (dead). Candidates must have 2 yr Rhizoctonia rating less than or equal to 3.82.

Created 10/20/2025

To maintain approval, 3 yr Rhizoctonia rating must be less than or equal to 4.12.

Rhc and CR ratings were adjusted based upon check performance.

Previously approved varieties not meeting current approval standards may be sold in 2026.

Table 26. 2025 Aphanomyces Ratings for Official Trial Entries
KWS (Shakopee, MN) - UBS (Glyndon, MN)

Chk	Code	Description	Unadjusted				Adjusted ++					Trial Yrs ss				
			Perl	Alva	Shak ²	Glyn	Perl	Alva	Shak ²	Glyn	2025		2 Yr	3 Yr	2024++	2023++
			NA	NA	8/26	8/28	NA	NA	8/26	8/28						
534	BTS 8018	--	--	3.25	2.90	--	--	3.25	3.78	3.51	3.62	3.73	3.73	3.95	6	
506	BTS 8034	--	--	2.67	3.35	--	--	2.67	4.37	3.52	4.00	3.93	4.48	3.80	6	
529	BTS 8156	--	--	3.14	3.10	--	--	3.14	4.04	3.59	3.93	3.94	4.27	3.97	5	
504	BTS 8226	--	--	2.69	3.20	--	--	2.69	4.17	3.43	3.62	3.65	3.81	3.72	4	
549	BTS 8270	--	--	3.28	3.03	--	--	3.28	3.95	3.61	3.69	3.76	3.76	3.90	4	
505	BTS 8365	--	--	3.18	3.22	--	--	3.18	4.20	3.69	3.78	3.73	3.87	3.62	3	
511	BTS 8440	--	--	3.27	3.03	--	--	3.27	3.95	3.61	3.82	--	4.03	--	2	
518	BTS 8457	--	--	3.83	3.14	--	--	3.83	4.09	3.96	4.15	--	4.33	--	2	
540	BTS 8509	--	--	3.85	2.69	--	--	3.85	3.51	3.68	--	--	--	--	1	
547	BTS 8513	--	--	3.12	3.24	--	--	3.12	4.22	3.67	--	--	--	--	1	
502	BTS 8520	--	--	3.81	3.00	--	--	3.81	3.91	3.86	--	--	--	--	1	
543	BTS 8531	--	--	3.22	2.57	--	--	3.22	3.35	3.28	--	--	--	--	1	
541	BTS 8555	--	--	4.09	2.58	--	--	4.09	3.36	3.72	--	--	--	--	1	
550	BTS 8580	--	--	3.46	2.42	--	--	3.46	3.15	3.31	--	--	--	--	1	
509	BTS 8598	--	--	3.05	2.78	--	--	3.05	3.62	3.34	--	--	--	--	1	
512	BTS 8927	--	--	3.35	3.06	--	--	3.35	3.99	3.67	4.04	3.78	4.41	3.26	7	
537	Crystal 022	--	--	3.16	2.69	--	--	3.16	3.51	3.33	3.64	3.65	3.95	3.66	6	
525	Crystal 130	--	--	2.95	3.05	--	--	2.95	3.98	3.46	3.59	3.73	3.72	4.00	5	
545	Crystal 138	--	--	3.50	2.78	--	--	3.50	3.62	3.56	3.70	3.82	3.84	4.06	5	
517	Crystal 260	--	--	3.19	3.05	--	--	3.19	3.98	3.58	3.83	3.83	4.08	3.84	4	
503	Crystal 269	--	--	2.67	2.67	--	--	2.67	3.48	3.07	3.29	3.40	3.50	3.62	4	
546	Crystal 361	--	--	3.05	2.47	--	--	3.05	3.22	3.13	3.47	3.46	3.80	3.45	3	
539	Crystal 364	--	--	3.52	2.49	--	--	3.52	3.25	3.38	3.58	3.65	3.78	3.79	3	
542	Crystal 369	--	--	2.86	2.95	--	--	2.86	3.84	3.35	3.40	3.61	3.45	4.02	3	
522	Crystal 470	--	--	3.75	2.87	--	--	3.75	3.74	3.74	3.71	--	3.67	--	2	
548	Crystal 471	--	--	3.46	2.91	--	--	3.46	3.79	3.62	3.81	--	3.99	--	2	
531	Crystal 580	--	--	3.73	2.82	--	--	3.73	3.68	3.70	--	--	--	--	1	
501	Crystal 581	--	--	3.20	2.46	--	--	3.20	3.21	3.20	--	--	--	--	1	
544	Crystal 583	--	--	3.81	2.52	--	--	3.81	3.28	3.55	--	--	--	--	1	
507	Crystal 584	--	--	3.43	2.51	--	--	3.43	3.27	3.35	--	--	--	--	1	
528	Crystal 591	--	--	3.50	2.57	--	--	3.50	3.35	3.42	--	--	--	--	1	
513	Crystal 594	--	--	3.85	3.24	--	--	3.85	4.22	4.03	--	--	--	--	1	
516	Crystal 793	--	--	2.83	2.70	--	--	2.83	3.52	3.17	3.45	3.73	3.72	4.31	9	
536	Crystal 912	--	--	3.21	2.55	--	--	3.21	3.32	3.27	3.42	3.42	3.57	3.41	7	
532	Hilleshög HIL2389	--	--	3.65	3.03	--	--	3.65	3.95	3.80	3.68	4.26	3.56	5.42	5	
538	Hilleshög HIL2479	--	--	4.64	2.85	--	--	4.64	3.71	4.18	4.47	4.44	4.76	4.38	3	
524	Hilleshög HIL2480	--	--	4.49	2.79	--	--	4.49	3.64	4.06	4.25	4.26	4.43	4.30	3	
553	Hilleshög HIL2493	--	--	4.59	3.03	--	--	4.59	3.95	4.27	4.21	--	4.15	--	2	
510	Hilleshög HIL2494	--	--	4.51	2.88	--	--	4.51	3.75	4.13	4.11	--	4.10	--	2	
515	Hilleshög HIL2532	--	--	3.80	2.83	--	--	3.80	3.69	3.74	--	--	--	--	1	
523	Hilleshög HIL2533	--	--	5.19	3.23	--	--	5.19	4.21	4.70	--	--	--	--	1	
521	Hilleshög HIL2534	--	--	4.21	2.54	--	--	4.21	3.31	3.76	--	--	--	--	1	
552	Hilleshög HIL2535	--	--	4.21	3.82	--	--	4.21	4.98	4.59	--	--	--	--	1	
527	Maribo MA717	--	--	5.05	3.61	--	--	5.05	4.71	4.88	4.53	4.55	4.18	4.61	9	
533	SX 1815	--	--	3.73	3.71	--	--	3.73	4.84	4.28	4.12	4.80	3.96	6.15	5	
530	SX 1835	--	--	4.09	3.67	--	--	4.09	4.78	4.43	4.37	4.91	4.31	5.99	3	
526	SV 231	--	--	4.43	2.91	--	--	4.43	3.79	4.11	4.27	4.93	4.43	6.25	3	
520	SV 251	--	--	4.30	3.33	--	--	4.30	4.34	4.32	--	--	--	--	1	
514	SV 254	--	--	4.65	3.09	--	--	4.65	4.03	4.34	--	--	--	--	1	
551	SV 255	--	--	4.32	3.65	--	--	4.32	4.76	4.54	--	--	--	--	1	
508	SV 256	--	--	4.22	3.63	--	--	4.22	4.73	4.47	--	--	--	--	1	
535	SV 345	--	--	4.56	2.82	--	--	4.56	3.68	4.12	4.16	--	4.20	--	2	
519	SV 347	--	--	4.05	3.23	--	--	4.05	4.21	4.13	4.18	--	4.22	--	2	
1	1001	AP CK#32 CRY5981	--	--	2.57	3.38	--	--	2.57	4.41	3.49	3.66	3.81	3.84	4.10	17
1	1002	AP CK#43 BTS80RR32	--	--	4.87	3.22	--	--	4.87	4.20	4.53	4.75	4.89	4.97	5.17	16
1	1003	AP CK#45 CRY5986	--	--	4.60	3.72	--	--	4.60	4.85	4.72	4.41	4.28	4.09	4.01	17
1	1004	AP CK#51 CRY5246	--	--	4.80	4.38	--	--	4.80	5.71	5.25	5.04	4.88	4.82	4.58	14
1	1005	AP CK#55 CRY5247	--	--	4.53	3.27	--	--	4.53	4.26	4.39	4.66	4.59	4.93	4.46	14
1	1006	AP CK#56 BTS8363	--	--	6.90	5.70	--	--	6.89	7.43	7.16	6.43	5.96	5.69	5.03	13
1	1007	AP CK#57 CRY5578	--	--	3.94	2.81	--	--	3.94	3.66	3.80	4.12	4.19	4.45	4.33	11
1	1008	AP CK#58 CRY5572	--	--	4.48	3.12	--	--	4.48	4.07	4.27	4.31	4.42	4.36	4.63	11
1	1009	AP CK#59 BTS8606	--	--	4.19	3.49	--	--	4.19	4.55	4.37	4.48	4.46	4.59	4.43	10
1	1010	AP CK#61 HIL9708	--	--	4.79	2.58	--	--	4.79	3.36	4.07	4.40	4.58	4.73	4.93	11
1	1011	AP CK#63 HIL9920	--	--	4.10	3.60	--	--	4.10	4.69	4.39	4.25	4.66	4.11	5.49	9
1	1012	AP CK#64 SX1818	--	--	5.89	3.40	--	--	5.89	4.43	5.16	4.85	5.60	4.54	7.09	5
12		Check Mean	--	--	4.64	3.56	--	--	4.63	4.63	4.63					
		Trial Mean	--	--	3.87	3.08	--	--	3.87	4.01	3.94					
		Coeff. of Var. (%)	--	--	10.1	17.2										
		Mean LSD (0.05)	--	--	0.47	0.78										
		Mean LSD (0.01)	--	--	0.62	1.03										
		Sig Lvl	--	--	**	**										
		Adjustment Factor					NA	NA	0.999	1.303						

++ Ratings adjusted to 2003 basis. (2000-2002 Aph nurseries). Ratings adjusted on the basis of checks.

\$\$ Trial years indicates how many years the entry has been in the official trials.

² Trial mean and statistics for Shakopee include five extra filler entries (not shown)

Chk = varieties used to adjust Aph readings to 2003 basis. Ratings * (Adj. factor) = Adj Rating.

Perley (Perl) and Alvarado (Alva) not rated due to lack of Aphanomyces pressure

Lower numbers indicate better Aphanomyces resistance (1=Ex, 9=Poor)

Ratings in green font indicate good resistance.

Ratings in red font indicate a level of concern.

Table 27. 2025 Cercospora Ratings for Official Trial Entries
 KWS (Randolph, MN) - BSDF (Saginaw, MI) - AC South (Averill, MN) - AC Middle (Caledonia, ND) - AC North (Stephen, MN)

Chk	Code	Description	Unadjusted					Adjusted ++					2025 5 loc	2 Yr	3 Yr	2024++	2023++	Trial Yrs \$\$
			KWS ² Avg 10 Dates+	BSDF Avg 4 Dates+	Averill Avg 6 Dates+	Caledonia Avg 6 Dates+	Stephen Avg 6 Dates+	KWS ² Avg 10 Dates+	BSDF Avg 4 Dates+	Averill Avg 6 Dates+	Caledonia Avg 6 Dates+	Stephen Avg 6 Dates+						
534	BTS 8018		2.20	4.14	4.43	3.34	3.13	2.03	4.32	4.53	4.33	4.17	3.88	3.62	3.22	3.35	2.42	6
506	BTS 8034		2.97	4.77	4.40	3.96	3.04	2.74	4.98	4.50	5.14	4.05	4.28	3.99	3.51	3.69	2.54	6
529	BTS 8156		3.05	4.97	4.66	3.95	2.99	2.81	5.18	4.77	5.13	3.99	4.38	4.12	3.59	3.87	2.53	5
504	BTS 8226		2.52	4.20	4.57	3.63	3.12	2.33	4.38	4.68	4.71	4.16	4.05	3.79	3.30	3.52	2.33	4
549	BTS 8270		2.21	3.72	4.18	3.14	2.65	2.04	3.88	4.28	4.07	3.53	3.56	3.44	3.10	3.32	2.43	4
505	BTS 8365		4.55	3.76	3.72	2.99	2.97	4.20	3.92	3.81	3.88	3.96	3.95	4.07	4.10	4.18	4.15	3
511	BTS 8440		1.91	3.68	3.77	2.78	2.14	1.76	3.84	3.86	3.61	2.85	3.18	3.04	--	2.90	--	2
518	BTS 8457		2.46	4.57	4.33	3.61	3.14	2.27	4.77	4.43	4.68	4.19	4.07	3.81	--	3.55	--	2
540	BTS 8509		4.21	3.98	3.57	2.77	2.53	3.88	4.15	3.65	3.59	3.37	3.73	--	--	--	--	1
547	BTS 8513		2.54	3.84	4.02	3.23	2.62	2.34	4.01	4.11	4.19	3.49	3.63	--	--	--	--	1
502	BTS 8520		2.24	3.99	4.15	3.23	2.93	2.07	4.16	4.25	4.19	3.91	3.71	--	--	--	--	1
543	BTS 8531		4.29	4.30	3.83	3.22	3.05	3.96	4.49	3.92	4.18	4.07	4.12	--	--	--	--	1
541	BTS 8555		3.69	4.16	3.69	2.99	3.01	3.40	4.34	3.78	3.88	4.01	3.88	--	--	--	--	1
550	BTS 8580		1.69	3.70	3.23	2.58	2.19	1.56	3.86	3.31	3.35	2.92	3.00	--	--	--	--	1
509	BTS 8598		1.86	4.03	3.90	3.14	2.78	1.72	4.20	3.99	4.07	3.71	3.54	--	--	--	--	1
512	BTS 8927		4.61	4.03	3.95	3.17	3.35	4.25	4.20	4.04	4.11	4.47	4.22	4.34	4.35	4.45	4.38	7
537	Crystal 022		4.69	4.55	4.68	3.77	3.86	4.33	4.75	4.79	4.89	5.15	4.78	4.72	4.81	4.66	4.97	6
525	Crystal 130		2.62	4.55	4.75	3.78	3.30	2.42	4.75	4.86	4.91	4.40	4.27	3.92	3.48	3.56	2.60	5
545	Crystal 138		4.53	4.47	4.21	3.53	3.47	4.18	4.66	4.31	4.58	4.63	4.47	4.60	4.66	4.73	4.77	5
517	Crystal 260		2.07	4.22	4.01	3.25	2.54	1.91	4.40	4.10	4.22	3.39	3.60	3.37	2.96	3.13	2.15	4
503	Crystal 269		4.99	4.20	4.36	3.34	3.22	4.60	4.38	4.46	4.33	4.29	4.42	4.48	4.45	4.54	4.38	4
546	Crystal 361		2.37	3.91	4.05	3.36	2.83	2.19	4.08	4.14	4.36	3.77	3.71	3.52	3.09	3.33	2.24	3
539	Crystal 364		4.93	3.69	4.21	3.64	3.30	4.55	3.85	4.31	4.72	4.40	4.37	4.41	4.36	4.46	4.26	3
542	Crystal 369		4.20	3.63	3.96	2.98	2.88	3.88	3.79	4.05	3.87	3.84	3.88	3.96	3.90	4.03	3.78	3
522	Crystal 470		2.63	4.42	4.75	3.71	3.25	2.43	4.61	4.86	4.81	4.33	4.21	3.96	--	3.71	--	2
548	Crystal 471		2.56	4.31	4.75	3.73	2.96	2.36	4.50	4.86	4.84	3.95	4.10	3.79	--	3.49	--	2
531	Crystal 580		2.40	4.32	4.91	3.36	3.20	2.21	4.51	5.02	4.36	4.27	4.07	--	--	--	--	1
501	Crystal 581		2.33	4.01	4.39	3.31	3.12	2.15	4.18	4.49	4.30	4.16	3.86	--	--	--	--	1
544	Crystal 583		4.68	4.26	4.23	3.54	3.14	4.32	4.44	4.33	4.59	4.19	4.37	--	--	--	--	1
507	Crystal 584		4.32	3.77	3.65	3.03	2.76	3.99	3.93	3.73	3.93	3.68	3.85	--	--	--	--	1
528	Crystal 591		1.89	3.47	3.67	2.89	2.48	1.74	3.62	3.76	3.75	3.31	3.24	--	--	--	--	1
513	Crystal 594		5.09	4.36	4.77	3.75	3.58	4.70	4.55	4.88	4.87	4.77	4.75	--	--	--	--	1
516	Crystal 793		4.45	3.55	4.02	3.11	2.97	4.11	3.70	4.11	4.04	3.96	3.98	4.13	4.15	4.28	4.20	9
536	Crystal 912		5.08	4.96	4.82	3.91	4.00	4.69	5.17	4.93	5.07	5.33	5.04	5.05	5.03	5.06	5.00	7
532	Hilleshög HIL2389		5.27	3.82	4.63	3.55	3.36	4.86	3.99	4.74	4.61	4.48	4.53	4.55	4.54	4.57	4.51	5
538	Hilleshög HIL2479		4.29	4.53	4.29	3.21	2.86	3.96	4.73	4.39	4.17	3.81	4.21	4.23	4.18	4.25	4.09	3
524	Hilleshög HIL2480		4.66	4.53	4.04	3.30	2.80	4.30	4.73	4.13	4.28	3.73	4.24	4.16	4.11	4.08	4.00	3
553	Hilleshög HIL2493		5.20	4.31	4.65	3.64	3.35	4.80	4.50	4.76	4.72	4.47	4.65	4.74	--	4.82	--	2
510	Hilleshög HIL2494		4.80	4.14	4.97	3.63	3.71	4.43	4.32	5.09	4.71	4.95	4.70	4.65	--	4.60	--	2
515	Hilleshög HIL2532		5.33	4.12	4.64	3.71	3.43	4.92	4.30	4.75	4.81	4.57	4.67	--	--	--	--	1
523	Hilleshög HIL2533		5.17	4.22	4.78	3.82	3.72	4.77	4.40	4.89	4.96	4.96	4.80	--	--	--	--	1
521	Hilleshög HIL2534		4.91	3.90	4.62	3.58	3.60	4.53	4.07	4.73	4.65	4.80	4.55	--	--	--	--	1
552	Hilleshög HIL2535		5.44	4.48	4.70	3.83	3.54	5.02	4.67	4.81	4.97	4.72	4.84	--	--	--	--	1
527	Maribo MA717		5.40	4.53	4.81	3.81	3.38	4.98	4.73	4.92	4.94	4.51	4.82	4.83	4.90	4.85	5.04	9
533	SX 1815		5.09	4.64	4.67	3.78	3.35	4.70	4.84	4.78	4.91	4.47	4.74	4.72	4.73	4.70	4.74	5
530	SX 1835		5.06	4.00	4.64	3.58	3.57	4.67	4.17	4.75	4.65	4.76	4.60	4.63	4.60	4.66	4.55	3
526	SV 231		5.26	4.14	4.82	3.77	3.50	4.85	4.32	4.93	4.89	4.67	4.73	4.75	4.78	4.77	4.83	3
520	SV 251		4.74	4.42	4.37	3.69	3.72	4.37	4.61	4.47	4.79	4.96	4.64	--	--	--	--	1
514	SV 254		4.64	4.03	4.21	3.50	3.03	4.28	4.20	4.31	4.54	4.04	4.28	--	--	--	--	1
551	SV 255		4.93	4.30	4.71	3.60	3.21	4.55	4.49	4.82	4.67	4.28	4.56	--	--	--	--	1
508	SV 256		5.03	4.23	4.52	3.52	3.49	4.64	4.41	4.63	4.57	4.65	4.58	--	--	--	--	1
535	SV 345		5.16	4.71	4.82	3.79	3.52	4.76	4.91	4.93	4.92	4.69	4.84	4.89	--	4.93	--	2
519	SV 347		5.23	4.56	4.55	3.75	3.39	4.83	4.76	4.66	4.87	4.52	4.73	4.77	--	4.81	--	2
1	1101 CR CK#41 CRY5981RR		5.73	5.40	5.51	3.83	4.13	5.29	5.63	5.64	4.97	5.51	5.41	5.32	5.22	5.23	5.04	17
1	1102 CR CK#43 CRY5246RR		5.29	4.49	4.46	3.69	3.67	4.88	4.68	4.56	4.79	4.89	4.76	4.73	4.69	4.70	4.62	14
1	1103 CR CK#44 BETA80RR32		5.68	4.77	4.53	3.88	3.41	5.24	4.98	4.64	5.03	4.55	4.89	4.96	5.01	5.03	5.10	16
1	1104 CR CK#45 HIL4448RR		5.63	5.07	5.41	4.22	4.22	5.20	5.29	5.54	5.48	5.63	5.42	5.50	5.53	5.57	5.58	14
1	1105 CR CK#48 MARI504		5.30	5.32	5.11	3.82	4.05	4.89	5.55	5.23	4.96	5.40	5.21	5.17	5.07	5.14	4.87	11
1	1106 CR CK#49 CRY5578RR		5.24	4.22	4.81	3.40	3.61	4.84	4.40	4.92	4.41	4.81	4.68	4.76	4.76	4.84	4.77	11
1	1107 CR CK#51 CRY5355RR		4.94	4.70	4.77	3.44	3.52	4.56	4.90	4.88	4.46	4.69	4.70	4.78	4.78	4.86	4.77	13
1	1108 CR CK#52 MARI717		5.22	5.14	4.46	4.02	3.51	4.82	5.36	4.56	5.22	4.68	4.93	4.88	4.82	4.84	4.70	9
1	1109 CR CK#53 CRY5684RR		4.79	3.74	3.91	3.40	3.14	4.42	3.90	4.00	4.41	4.19	4.18	4.28	4.30	4.37	4.34	10
1	1110 CR CK#54 CRY5912		5.07	4.79	4.97	3.82	3.68	4.68	5.00	5.09	4.96	4.91	4.93	4.85	4.90	4.77	5.00	7
1	1111 CR CK#55 HIL2366		5.38	4.67	4.91	4.03	3.73	4.96	4.87	5.02	5.23	4.97	5.01	4.97	4.99	4.93	5.02	6
1	1112 CR CK#56 SES203		5.56	4.15	4.71	3.84	3.50	5.13	4.33	4.82	4.98	4.67	4.79	4.69	4.72	4.60	4.78	6
12	Check Mean		5.32	4.71	4.80	3.78	3.68	4.91	4.91	4.91	4.91	4.91	4.91					
	Trial Mean		4.16	4.29	4.43	3.51	3.25	3.84	4.48	4.53	4.55	4.33	4.35					
	Coeff. of Var. (%)		4.9	7.90	7.5	6.5	11.3											
	Mean LSD (0.05)		0.27	0.52	0.39	0.27	0.43											
	Mean LSD (0.01)		0.35	0.69	0.52	0.35	0.56											
	Sig Mrk		**	**	**	**	**											
	Adj Factor							0.92275	1.04321	1.02327	1.29763	1.33347						

++ Ratings adjusted to 1982 basis (1978-81 CR nurseries). Ratings adjusted on the basis of checks.
 \$\$ Trial years indicates how many years the entry has been in the official trials.

² Trial mean and statistics for Randolph include four extra filler varieties (not shown)
 Chk = varieties used to adjust CR readings to 1982 basis. Ratings * (Adj. factor) = Adj Rating.
 + Average rating based upon multiple rating dates.

Lower numbers indicate better Cercospora resistance (1-Ex,9=Poor).
 Ratings in green font indicate good resistance.
 Ratings in red font indicate a level of concern.

Table 28. 2025 Fusarium Ratings for Official Trial Entries
 ACSC (Moorhead, MN) - ACSC (Sabin, MN)

Chk	Code	Description	Unadjusted		Adjusted ++					Trial Yrs \$\$		
			Mhd ²	Sab ²	Mhd ²	Sab ²	2025	2 Yr	3 Yr		2024	2023
			4 Dates+	4 Dates+	4 Dates+	4 Dates+						
534	BTS 8018	1.81	1.10	2.37	2.48	2.42	2.31	2.61	2.19	3.20	6	
506	BTS 8034	1.52	1.17	1.99	2.64	2.31	2.10	2.31	1.89	2.72	6	
529	BTS 8156	1.67	1.12	2.19	2.53	2.36	2.25	2.44	2.15	2.80	5	
504	BTS 8226	2.08	1.37	2.72	3.09	2.91	2.77	3.13	2.64	3.85	4	
549	BTS 8270	1.55	1.12	2.03	2.53	2.28	2.34	2.71	2.41	3.46	4	
505	BTS 8365	1.81	1.22	2.37	2.75	2.56	2.35	2.71	2.15	3.43	3	
511	BTS 8440	1.80	1.16	2.36	2.62	2.49	2.73	--	2.97	--	2	
518	BTS 8457	1.99	1.23	2.60	2.77	2.69	2.52	--	2.35	--	2	
540	BTS 8509	1.51	1.16	1.98	2.62	2.30	--	--	--	--	1	
547	BTS 8513	1.50	1.08	1.96	2.44	2.20	--	--	--	--	1	
502	BTS 8520	1.49	1.11	1.95	2.50	2.23	--	--	--	--	1	
543	BTS 8531	1.54	1.01	2.01	2.28	2.15	--	--	--	--	1	
541	BTS 8555	1.52	1.07	1.99	2.41	2.20	--	--	--	--	1	
550	BTS 8580	1.90	1.13	2.49	2.55	2.52	--	--	--	--	1	
509	BTS 8598	1.94	1.12	2.54	2.53	2.53	--	--	--	--	1	
512	BTS 8927	1.51	1.06	1.98	2.39	2.18	2.14	2.45	2.10	3.08	7	
537	Crystal 022	1.69	1.09	2.21	2.46	2.33	2.54	2.84	2.75	3.43	6	
525	Crystal 130	1.77	1.26	2.32	2.84	2.58	2.67	2.96	2.76	3.55	5	
545	Crystal 138	2.03	1.13	2.66	2.55	2.60	2.79	3.11	2.98	3.76	5	
517	Crystal 260	2.15	1.09	2.81	2.46	2.64	2.51	2.80	2.38	3.38	4	
503	Crystal 269	1.63	1.08	2.13	2.44	2.28	2.41	2.98	2.54	4.11	4	
546	Crystal 361	1.56	1.14	2.04	2.57	2.31	2.16	2.52	2.02	3.24	3	
539	Crystal 364	1.52	1.10	1.99	2.48	2.23	2.18	2.49	2.12	3.12	3	
542	Crystal 369	1.73	1.02	2.26	2.30	2.28	2.27	2.59	2.25	3.24	3	
522	Crystal 470	2.00	1.26	2.62	2.84	2.73	2.49	--	2.25	--	2	
548	Crystal 471	1.79	1.09	2.34	2.46	2.40	2.25	--	2.10	--	2	
531	Crystal 580	1.03	1.05	1.35	2.37	1.86	--	--	--	--	1	
501	Crystal 581	1.38	1.05	1.81	2.37	2.09	--	--	--	--	1	
544	Crystal 583	1.94	1.17	2.54	2.64	2.59	--	--	--	--	1	
507	Crystal 584	1.18	1.05	1.54	2.37	1.96	--	--	--	--	1	
528	Crystal 591	1.15	0.99	1.50	2.23	1.87	--	--	--	--	1	
513	Crystal 594	1.28	1.24	1.67	2.80	2.24	--	--	--	--	1	
516	Crystal 793	1.69	1.20	2.21	2.71	2.46	2.43	2.76	2.40	3.40	9	
536	Crystal 912	3.18	1.92	4.16	4.33	4.25	3.86	3.84	3.46	3.82	7	
532	Hilleshög HIL2389	4.01	2.50	5.25	5.64	5.44	5.46	5.47	5.49	5.50	5	
538	Hilleshög HIL2479	3.78	1.76	4.95	3.97	4.46	4.53	4.50	4.59	4.43	3	
524	Hilleshög HIL2480	2.08	1.12	2.72	2.53	2.62	2.84	2.99	3.06	3.30	3	
553	Hilleshög HIL2493	2.96	2.17	3.87	4.89	4.38	4.55	--	4.72	--	2	
510	Hilleshög HIL2494	2.77	1.68	3.62	3.79	3.71	3.63	--	3.56	--	2	
515	Hilleshög HIL2532	4.03	2.37	5.27	5.34	5.31	--	--	--	--	1	
523	Hilleshög HIL2533	3.31	1.97	4.33	4.44	4.39	--	--	--	--	1	
521	Hilleshög HIL2534	2.90	1.75	3.79	3.95	3.87	--	--	--	--	1	
552	Hilleshög HIL2535	4.14	2.96	5.42	6.67	6.05	--	--	--	--	1	
527	Maribo MA717	3.87	2.24	5.06	5.05	5.06	4.71	4.65	4.36	4.53	9	
533	SX 1815	4.51	2.75	5.90	6.20	6.05	5.80	5.73	5.54	5.60	5	
530	SX 1835	3.55	2.10	4.64	4.74	4.69	4.10	4.04	3.52	3.92	3	
526	SV 231	3.62	2.39	4.74	5.39	5.06	4.84	4.63	4.62	4.21	3	
520	SV 251	3.87	2.28	5.06	5.14	5.10	--	--	--	--	1	
514	SV 254	3.73	2.20	4.88	4.96	4.92	--	--	--	--	1	
551	SV 255	3.41	2.25	4.46	5.07	4.77	--	--	--	--	1	
508	SV 256	3.46	2.29	4.53	5.16	4.85	--	--	--	--	1	
535	SV 345	3.68	2.25	4.81	5.07	4.94	4.65	--	4.35	--	2	
519	SV 347	3.55	2.36	4.64	5.32	4.98	4.74	--	4.50	--	2	
1	1201 FS CK #18 CRY5768RR	3.09	1.63	4.04	3.68	3.86	4.10	4.13	4.33	4.19	17	
1	1202 FS CK #29 CRY5875RR	3.47	2.07	4.54	4.67	4.60	4.51	4.60	4.43	4.76	18	
1	1203 FS CK #30 BTS8337	2.93	1.44	3.83	3.25	3.54	3.41	3.51	3.28	3.71	13	
1	1204 FS CK #31 SXMarathon	4.28	1.95	5.60	4.40	5.00	4.92	4.99	4.85	5.13	11	
1	1205 FS CK #32 CRY5574	1.38	1.12	1.81	2.53	2.17	2.29	2.51	2.41	2.96	11	
1	1206 FS CK #33 SES375	4.11	2.77	5.38	6.25	5.81	5.38	5.34	4.95	5.25	9	
1	1207 FS CK #34 SES265	4.39	2.10	5.74	4.74	5.24	5.38	5.46	5.53	5.62	10	
1	1208 FS CK #35 SES203	4.81	3.25	6.29	7.33	6.81	6.66	6.30	6.50	5.59	6	
1	1209 FS CK #36 SES285	4.37	2.82	5.72	6.36	6.04	6.33	6.06	6.63	5.51	8	
1	1210 FS CK#37 HIL2317	4.43	2.47	5.80	5.57	5.68	5.77	5.79	5.86	5.83	7	
10	Check Mean	3.73	2.16	4.88	4.88	4.88						
	Trial Mean	2.56	1.61	3.35	3.63	3.49						
	Coeff. of Var. (%)	17.3	15.7									
	Mean LSD (0.05)	0.55	0.30									
	Mean LSD (0.01)	0.72	0.39									
	Sig Mrk	**	**									
	Adj Factor			1.3084	2.2549							

++ Ratings adjusted to 2007 basis. (2005-2006 Fus Nurseries). Ratings adjusted on the basis of checks.

\$\$ Trial years indicates how many years the entry has been in the official trials.

² Trial mean and statistics for Moorhead and Sabin include one extra filler variety (not shown)

Chk = varieties used to adjust Fus readings to 2007 basis. Ratings * (Adj. factor) = Adj Rating.

+ Average rating based upon multiple rating dates.

Lower numbers indicate better Fusarium resistance (1=Ex, 9=Poor).

Ratings in green font indicate good resistance.

Ratings in red font indicate a level of concern.

Table 29. 2025 Rhizoctonia Ratings for Official Trial Entries
 BSDF (Saginaw, MI) - ACSC (TSC S) - ACSC (TSC N) - ACSC (NWROC)

Chk Code	Description	Unadjusted				Adjusted ++				2025	2 Yr	3 Yr	2024++	2023++	Trial Yrs \$\$\$
		BSDF 8/8	TSC-S ² 7/31	TSC-N ² 8/19	NWROC ² 8/13	BSDF 8/8	TSC-S ² 7/31	TSC-N ² 8/19	NWROC ² 8/13						
534	BTS 8018	4.89	3.70	4.13	3.30	3.84	3.81	4.05	3.61	3.83	3.75	3.86	3.68	4.06	6
506	BTS 8034	5.27	4.09	4.54	3.63	4.14	4.22	4.46	3.97	4.20	4.29	4.22	4.38	4.09	6
529	BTS 8156	5.84	4.11	4.50	3.92	4.59	4.24	4.42	4.28	4.38	4.33	4.20	4.28	3.93	5
504	BTS 8226	5.03	3.48	3.66	3.13	3.95	3.59	3.59	3.42	3.64	3.55	3.62	3.46	3.78	4
549	BTS 8270	4.90	3.76	4.20	3.26	3.85	3.88	4.12	3.56	3.85	3.85	3.79	3.86	3.67	4
505	BTS 8365	4.84	3.79	3.54	3.41	3.81	3.91	3.48	3.73	3.73	3.67	3.67	3.60	3.69	3
511	BTS 8440	5.31	3.84	3.57	3.35	4.17	3.96	3.50	3.66	3.82	3.75	--	3.68	--	2
518	BTS 8457	5.11	3.74	3.68	3.27	4.02	3.85	3.61	3.57	3.76	3.74	--	3.71	--	2
540	BTS 8509	5.50	3.63	3.79	3.28	4.32	3.74	3.72	3.58	3.84	--	--	--	--	1
547	BTS 8513	4.98	3.24	3.42	2.82	3.92	3.34	3.36	3.08	3.42	--	--	--	--	1
502	BTS 8520	5.39	3.69	3.76	3.61	4.24	3.80	3.69	3.94	3.92	--	--	--	--	1
543	BTS 8531	5.01	4.19	4.79	3.86	3.94	4.32	4.70	4.22	4.29	--	--	--	--	1
541	BTS 8555	5.42	3.73	4.16	3.70	4.26	3.84	4.08	4.04	4.06	--	--	--	--	1
550	BTS 8580	5.73	4.06	4.11	3.65	4.50	4.18	4.03	3.99	4.18	--	--	--	--	1
509	BTS 8598	5.20	3.77	3.81	3.38	4.09	3.89	3.74	3.69	3.85	--	--	--	--	1
512	BTS 8927	4.86	3.79	3.85	3.62	3.82	3.91	3.78	3.95	3.87	3.72	3.81	3.57	3.98	7
537	Crystal 022	5.00	3.83	3.83	3.50	3.93	3.95	3.76	3.82	3.87	3.75	3.78	3.63	3.85	6
525	Crystal 130	4.70	3.76	4.01	3.36	3.69	3.88	3.94	3.67	3.79	3.67	3.67	3.54	3.69	5
545	Crystal 138	5.07	3.65	3.70	3.40	3.99	3.76	3.63	3.71	3.77	3.73	3.76	3.68	3.81	5
517	Crystal 260	5.31	3.72	3.80	3.18	4.17	3.83	3.73	3.47	3.80	3.75	3.65	3.70	3.46	4
503	Crystal 269	5.28	3.80	4.46	3.49	4.15	3.92	4.38	3.81	4.06	4.18	4.09	4.30	3.90	4
546	Crystal 361	5.32	3.81	4.08	3.52	4.18	3.93	4.01	3.85	3.99	3.88	3.77	3.78	3.54	3
539	Crystal 364	4.83	3.52	3.64	3.10	3.80	3.63	3.57	3.39	3.60	3.69	3.72	3.77	3.79	3
542	Crystal 369	5.32	4.23	4.36	3.90	4.18	4.36	4.28	4.26	4.27	4.49	4.32	4.72	3.98	3
522	Crystal 470	4.98	3.75	3.74	3.36	3.92	3.87	3.67	3.67	3.78	3.82	--	3.85	--	2
548	Crystal 471	4.98	3.62	4.25	3.30	3.92	3.73	4.17	3.61	3.86	3.77	--	3.69	--	2
531	Crystal 580	5.43	3.56	3.62	3.29	4.27	3.67	3.55	3.59	3.77	--	--	--	--	1
501	Crystal 581	5.18	3.87	4.16	3.13	4.07	3.99	4.08	3.42	3.89	--	--	--	--	1
544	Crystal 583	5.53	3.91	3.65	3.29	4.35	4.03	3.58	3.59	3.89	--	--	--	--	1
507	Crystal 584	4.97	3.85	3.80	3.48	3.91	3.97	3.73	3.80	3.85	--	--	--	--	1
528	Crystal 591	5.15	3.62	4.18	3.57	4.05	3.73	4.10	3.90	3.95	--	--	--	--	1
513	Crystal 594	4.80	3.52	3.56	2.96	3.77	3.63	3.49	3.23	3.53	--	--	--	--	1
516	Crystal 793	5.25	3.99	4.31	3.90	4.13	4.11	4.23	4.26	4.18	4.04	4.14	3.89	4.35	9
536	Crystal 912	4.08	2.87	3.26	2.86	3.21	2.96	3.20	3.12	3.12	3.29	3.36	3.45	3.50	7
532	Hilleshög HIL2389	4.87	4.06	4.20	3.56	3.83	4.18	4.12	3.89	4.01	4.04	4.18	4.08	4.45	5
538	Hilleshög HIL2479	4.81	3.22	3.43	3.23	3.78	3.32	3.37	3.53	3.50	3.87	3.72	4.24	3.43	3
524	Hilleshög HIL2480	3.94	3.21	3.55	3.28	3.10	3.31	3.49	3.58	3.37	3.51	3.57	3.65	3.70	3
553	Hilleshög HIL2493	4.67	3.38	3.64	3.22	3.67	3.48	3.57	3.52	3.56	3.69	--	3.83	--	2
510	Hilleshög HIL2494	4.85	3.89	4.02	3.60	3.81	4.01	3.95	3.93	3.93	3.95	--	3.97	--	2
515	Hilleshög HIL2532	4.43	3.33	3.83	3.44	3.48	3.43	3.76	3.76	3.61	--	--	--	--	1
523	Hilleshög HIL2533	4.83	3.55	4.01	3.43	3.80	3.66	3.94	3.75	3.79	--	--	--	--	1
521	Hilleshög HIL2534	4.96	3.80	4.05	3.80	3.90	3.92	3.98	4.15	3.99	--	--	--	--	1
552	Hilleshög HIL2535	5.31	4.01	4.49	3.70	4.17	4.13	4.41	4.04	4.19	--	--	--	--	1
527	Maribo MA717	4.78	3.58	4.16	3.71	3.76	3.69	4.08	4.05	3.90	4.05	4.07	4.19	4.10	9
533	SX 1815	5.26	3.74	4.61	3.53	4.14	3.85	4.53	3.86	4.09	4.20	4.25	4.30	4.35	5
530	SX 1835	5.29	3.76	3.66	3.22	4.16	3.88	3.59	3.52	3.79	3.93	3.80	4.07	3.55	3
526	SV 231	4.79	3.90	3.98	3.26	3.77	4.02	3.91	3.56	3.81	3.76	3.74	3.71	3.69	3
520	SV 251	5.57	3.94	4.28	3.68	4.38	4.06	4.20	4.02	4.17	--	--	--	--	1
514	SV 254	4.57	3.84	3.87	3.34	3.59	3.96	3.80	3.65	3.75	--	--	--	--	1
551	SV 255	4.90	3.77	3.96	3.36	3.85	3.89	3.89	3.67	3.82	--	--	--	--	1
508	SV 256	4.73	3.96	3.72	3.49	3.72	4.08	3.65	3.81	3.82	--	--	--	--	1
535	SV 345	5.06	3.58	3.43	3.05	3.98	3.69	3.37	3.33	3.59	3.54	--	3.48	--	2
519	SV 347	4.88	4.13	3.98	3.73	3.84	4.26	3.91	4.08	4.02	4.15	--	4.28	--	2
1	1301 RH CK#49 CRY5247	5.35	4.39	4.19	3.87	4.21	4.52	4.11	4.23	4.27	4.36	4.34	4.45	4.31	14
1	1302 RH CK#52 CRY5573	5.80	4.16	4.64	4.00	4.56	4.29	4.56	4.37	4.44	4.44	4.37	4.43	4.22	11
1	1303 RH CK#53 BTS8500	5.60	4.21	4.21	3.80	4.40	4.34	4.13	4.15	4.26	4.22	4.23	4.19	4.24	11
1	1304 RH CK#54 CRY5574	5.47	4.02	4.50	3.94	4.30	4.14	4.42	4.30	4.29	4.27	4.32	4.26	4.40	11
1	1305 RH CK#55 CRY5803	5.75	4.45	4.65	4.44	4.52	4.59	4.56	4.85	4.63	4.56	4.53	4.49	4.47	8
1	1306 RH CK#56 MARI504	5.46	3.66	4.30	4.21	4.29	3.77	4.22	4.60	4.22	4.32	4.36	4.43	4.44	11
1	1307 RH CK#57 BTS8606	5.47	4.39	4.74	4.02	4.30	4.52	4.65	4.39	4.47	4.46	4.56	4.46	4.75	10
1	1308 RH CK#58 CRY5793	5.69	4.31	4.38	3.87	4.47	4.44	4.30	4.23	4.36	4.27	4.24	4.18	4.17	9
1	1309 RH CK#59 SEED1818	4.88	3.79	4.12	3.56	3.84	3.91	4.04	3.89	3.92	4.05	4.05	4.19	4.06	5
1	1310 RH CK#60 CRY5913	5.67	3.96	4.18	3.79	4.46	4.08	4.10	4.14	4.20	4.08	4.12	3.97	4.19	7
1	1311 RH CK#61 HIL2386	5.23	3.88	4.10	3.57	4.11	4.00	4.02	3.90	4.01	3.95	3.94	3.90	3.91	5
1	1312 RH CK#62 HIL9920	5.53	5.02	4.74	4.33	4.35	5.17	4.65	4.73	4.73	4.65	4.57	4.57	4.42	9
12	Mean of Check Varieties	5.49	4.19	4.40	3.95	4.32	4.32	4.32	4.32	4.32					
	Trial Mean	5.12	3.83	4.02	3.52	4.03	3.95	3.95	3.85	3.94					
	Coeff. of Var. (%)	10.5	9.2	8.4	8.8										
	Mean LSD (0.05)	0.69	0.45	0.45	0.37										
	Mean LSD (0.01)	0.92	0.59	0.59	0.49										
	Sig Lvl	**	**	**	**										
	Adjustment Factor					0.7862	1.0307	0.9817	1.0925						

++ Ratings adjusted to 2009 basis (2007-2009) RH nurseries. Ratings adjusted on the basis of checks

\$\$\$ Trial years indicates how many years the entry has been in the official trials.

² Trial mean and statistics for TSC-S, TSC-N and NWROC include one extra filler entry (not shown)

Chk = varieties used to adjust Rhc readings to 2009 basis. Ratings * (Adj. factor) = Adj Rating.

Lower numbers indicate better Rhizoctonia resistance (0=Ex, 7=Poor).

Ratings in green font indicate good resistance.

Ratings in red font indicate a level of concern.

Table 30. Pesticides Applied to ACSC Official Trials

Location	Herbicide			Cercospora Fungicides		
	Pre-emerge	Spray Date	Post	Spray Dates	Fungicide Used	Spray Dates
Casselton	N1	5/14	RU1	6/10	CR1, CR2, CR3, CR4, CR5	7/1, 7/14, GR ^A , 8/14, 9/2
Averill	N1	5/14	RU1, RU2	6/11,6/24	CR1, CR2, CR3, CR4, CR5	7/2, 7/14, 7/29, 8/12, 8/25
Perley	None	-	RU1, RU2	6/3,6/24	CR1, CR2, CR3, CR4, CR5	7/2, 7/14, 7/29, 8/12, 8/25
Ada	Grower	4/26	RU1, RU2	5/29,6/27	CR4, CR5	8/18, 8/25
Caledonia	Grower ^B	4/23	RU1	6,24	CR1, CR2, CR3, CR4, CR5	7/8, 7/14, 7/30, 8/12, 8/25
Scandia	N1	5/7	RU1, RU2	6/4,8/11	CR1, CR2, CR3, CR4, CR5	7/2, 7/14, 7/31, 8/12, 8/26
Reynolds	None	-	RU1	6/11	CR1, CR2, CR3, CR4, CR5	7/2, 7/17, 8/1, 8/12, 8/26
EGF	Grower	5/13	RU1	6/3	CR1	7/2
Alvarado	None	-	RU1, RU2	6/4,6/27	CR1, CR2, CR3, CR4, CR5	7/2, 7/17, 7/30, 8/12, 8/26
Stephen	N1	5/7	RU1, RU2	5/29,8/5	CR1, CR2, CR3, CR4, CR5	7/1, 7/17, 7/29, 8/13, 8/27
St. Thomas	None	-	RU1	6/4	CR1, CR2, CR3, CR4, CR5	7/1, 7/17, 7/29, 8/13, 8/27
Northcote	None	-	RU1, RU2	5/29,8/5	CR1, CR2, CR3, CR4, CR5	7/1, 7/17, 7/30, 8/13, 8/27
Bathgate	None	-	RU1, RU2	6/11,8/5	CR1, CR2, CR3, CR4, CR5	7/1, 7/17, 7/30, 8/13, 8/27

Ground applications made by Official Variety Trial personnel from ACSC Tech. Services Center.

Created 10/29/2025

Counter 20G (8.9 lbs./A) applied at all locations.

Mustang Maxx (4 fl oz/A) applied post at Ada; Chlorpyrifos 4E AG(2 pt/A) applied post at Reynolds and St Thomas.

Azteroid (5.7 fl oz/A) applied in-furrow at all locations.

Quadris (10 fl oz/A) applied in a 7-inch band to 6-10 leaf beets at all locations.

N1 = Nortron (6 pt/A)

RU1 and RU2 = Roundup PowerMAX 3 (25 fl oz/A), ClassAct (2.5 gal/100 gal of water).

^A Grower applied third Cercospora spray by air due to wet soil conditions

^B Grower applied Dual Magnum (0.5 pt/A) PPI

CR1 = Inspire XT + Manzate Max

CR2 = Agritin + Topsin

CR3 = Manzate Max

CR4 = Manzate Max + Proline (Just manzate at Ada)

CR5 = Priaxor + Agritin