

2023 Performance of Approved Varieties - ACSC RR Official Trials
11 sites

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	348.4	100	11617	106	58.94	100	1960	105	33.43	18.43	1.01	17.42	0	77.8
BTS 8034	101	338.6	97	11505	105	55.87	94	1896	102	34.05	18.02	1.10	16.92	0	81.1
BTS 8156	114	348.1	100	11205	102	58.84	99	1890	102	32.29	18.44	1.04	17.40	0	76.1
BTS 8927	109	353.5	101	11392	104	60.55	102	1948	105	32.31	18.65	0.97	17.68	2	81.8
Crystal 022	121	358.1	103	11433	104	61.98	105	1975	106	31.99	18.88	0.97	17.91	0	78.5
Crystal 130	113	353.3	101	11772	107	60.48	102	2009	108	33.44	18.64	0.98	17.66	1	79.5
Crystal 137	122	349.6	100	11339	103	59.31	100	1922	103	32.48	18.52	1.04	17.48	1	80.3
Crystal 793	118	349.4	100	11693	106	59.26	100	1981	106	33.49	18.48	1.01	17.47	0	80.2
Crystal 912	116	340.3	97	12240	111	56.40	95	2025	109	36.04	18.03	1.02	17.01	1	81.6
Crystal 913	106	349.9	100	12043	110	59.42	100	2042	110	34.46	18.49	1.00	17.49	0	81.6
Hilleshög HIL2317	120	347.5	99	11050	100	58.66	99	1862	100	31.88	18.38	1.01	17.37	2	69.1
Hilleshög HIL2366	111	333.3	95	10784	98	54.24	92	1751	94	32.44	17.67	1.00	16.67	0	79.5
Hilleshög HIL2368	119	349.1	100	10270	93	59.17	100	1737	93	29.50	18.47	1.01	17.46	0	69.5
Hilleshög HIL2386	112	342.7	98	11036	100	57.18	97	1836	99	32.30	18.18	1.04	17.14	0	79.5
Hilleshög HIL2389	105	349.2	100	11520	105	59.20	100	1948	105	33.08	18.46	0.99	17.47	0	80.2
Hilleshög HIL9920	115	347.4	99	11132	101	58.62	99	1878	101	32.07	18.40	1.04	17.36	0	76.3
Maribo MA717	110	343.0	98	11241	102	57.26	97	1871	101	32.88	18.14	0.99	17.15	0	78.9
Maribo MA902	124	339.1	97	10491	95	56.06	95	1730	93	31.02	17.96	1.01	16.95	1	79.1
SV 203	123	350.6	100	11599	105	59.64	101	1972	106	33.11	18.52	0.99	17.53	0	80.4
SV 265	107	342.7	98	11161	101	57.15	96	1859	100	32.63	18.12	0.99	17.13	1	81.9
SV 285	108	346.2	99	11357	103	58.25	98	1909	103	32.86	18.33	1.02	17.31	0	82.1
SX 1815	104	350.9	100	11742	107	59.71	101	1996	107	33.51	18.52	0.98	17.54	0	80.8
SX 1818	103	345.0	99	11698	106	57.89	98	1958	105	34.01	18.26	1.01	17.25	0	77.8
SX 1898	102	345.9	99	11474	104	58.17	98	1927	104	33.21	18.32	1.02	17.30	0	80.6
BTS 8337 (CommBench)	125	358.3	103	10624	97	62.04	105	1837	99	29.70	19.00	1.08	17.92	0	76.2
Crystal 578RR (CommBench)	126	342.4	98	11075	101	57.06	96	1838	99	32.49	18.20	1.08	17.12	0	78.3
BTS 8815 (CommBench)	127	343.9	98	10378	94	57.55	97	1733	93	30.25	18.29	1.10	17.19	0	64.9
Crystal 803 (CommBench)	128	352.6	101	11912	108	60.25	102	2033	109	33.83	18.67	1.03	17.64	4	81.9
Experimental Trial (Comm status)															
BTS 8205	205	351.1	101	11640	106	59.77	101	1981	106	33.18	18.61	1.06	17.55	0	77.1
BTS 8226	208	355.3	102	11318	103	61.07	103	1945	105	31.88	18.70	0.93	17.77	0	74.3
BTS 8242	211	356.3	102	11269	102	61.38	104	1940	104	31.70	18.83	1.02	17.81	0	76.7
BTS 8270	232	352.3	101	11519	105	60.15	102	1966	106	32.75	18.65	1.03	17.62	0	78.8
Crystal 138	238	349.4	100	11687	106	59.25	100	1983	107	33.42	18.51	1.03	17.47	0	74.4
Crystal 260	230	348.0	100	11630	106	58.82	99	1962	105	33.50	18.41	1.00	17.40	0	77.9
Crystal 262	227	345.7	99	11510	105	58.10	98	1932	104	33.32	18.28	0.99	17.28	0	76.3
Crystal 269	229	358.1	103	11185	102	61.98	105	1932	104	31.32	19.01	1.11	17.91	0	69.3
Hilleshög HIL2441**	234	347.3	99	10668	97	58.61	99	1797	97	30.78	18.48	1.11	17.37	1	74.6
Hilleshög HIL2442	204	348.8	100	10433	95	59.05	100	1761	95	30.02	18.58	1.15	17.44	0	70.9
Hilleshög HIL2487 (Maribo MA942)	225	346.8	99	10641	97	58.44	99	1794	96	30.70	18.35	1.00	17.34	0	76.8
Maribo MA943	235	350.7	100	10650	97	59.63	101	1810	97	30.39	18.61	1.08	17.54	0	64.6
Comm Benchmark Mean		349.3		10997		59.23		1860		31.57	18.54	1.07			75.3
Comm Trial Mean		347.3		11272		58.61		1899		32.53	18.39	1.02			78.4
Coeff. of Var. (%)		2.6		5.8		4.9		7.0		5.4	2.3	6.9			10.1
Mean LSD (0.05)		4.5		322		1.40		68		0.82	0.22	0.04			2.6
Mean LSD (0.01)		5.9		424		1.85		89		1.09	0.29	0.05			3.4
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from 11 sites

Created 10/23/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed across 11 locations.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Casselton ND

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	347.8	100	8387	101	58.74	101	1415	102	24.20	18.69	1.30	17.39	0	63.7
BTS 8034	101	336.6	97	8991	109	55.25	95	1475	106	26.75	18.25	1.43	16.82	0	59.2
BTS 8156	114	346.5	100	9294	112	58.36	100	1568	113	26.76	18.64	1.31	17.33	0	60.6
BTS 8927	109	350.8	101	8319	101	59.70	102	1415	102	23.76	18.79	1.25	17.54	0	66.7
Crystal 022	121	358.1	103	8627	104	61.97	106	1494	107	24.00	19.15	1.24	17.91	0	63.7
Crystal 130	113	359.3	104	8947	108	62.36	107	1553	112	24.93	19.13	1.16	17.97	0	70.5
Crystal 137	122	346.3	100	8958	108	58.30	100	1512	109	25.79	18.63	1.32	17.31	0	62.2
Crystal 793	118	350.8	101	8665	105	59.69	102	1473	106	24.75	18.75	1.22	17.53	0	67.4
Crystal 912	116	336.7	97	9793	118	55.30	95	1607	115	29.13	18.23	1.40	16.83	0	69.7
Crystal 913	106	346.5	100	8766	106	58.36	100	1476	106	25.29	18.63	1.30	17.33	0	64.7
Hilleshög HIL2317	120	338.7	98	8053	97	55.92	96	1327	95	23.82	18.22	1.29	16.93	0	45.4
Hilleshög HIL2366	111	334.5	97	8452	102	54.61	94	1382	99	25.21	18.09	1.37	16.72	0	64.1
Hilleshög HIL2368	119	338.5	98	7477	90	55.86	96	1233	89	22.10	18.32	1.39	16.93	0	47.4
Hilleshög HIL2386	112	346.6	100	9297	112	58.38	100	1567	113	26.84	18.59	1.26	17.33	0	64.9
Hilleshög HIL2389	105	354.4	102	9642	117	60.82	104	1651	119	27.32	18.95	1.23	17.72	0	66.3
Hilleshög HIL9920	115	343.0	99	8302	100	57.25	98	1385	99	24.18	18.56	1.41	17.15	0	59.9
Maribo MA717	110	349.2	101	8793	106	59.21	101	1489	107	25.18	18.69	1.23	17.46	0	68.8
Maribo MA902	124	337.9	97	7934	96	55.66	95	1306	94	23.45	18.14	1.25	16.89	0	68.7
SV 203	123	345.5	100	8733	106	58.05	99	1467	105	25.26	18.60	1.32	17.28	0	54.3
SV 265	107	333.8	96	7797	94	54.38	93	1271	91	23.36	18.07	1.38	16.69	0	60.4
SV 285	108	338.8	98	8290	100	55.95	96	1367	98	24.51	18.34	1.40	16.94	0	58.7
SX 1815	104	347.8	100	8764	106	58.77	101	1482	106	25.18	18.62	1.22	17.40	0	63.1
SX 1818	103	338.6	98	8385	101	55.87	96	1385	99	24.72	18.27	1.34	16.93	0	46.8
SX 1898	102	330.3	95	7992	97	53.29	91	1286	92	24.24	17.92	1.41	16.51	0	62.9
BTS 8337 (CommBench)	125	356.7	103	7964	96	61.53	105	1373	99	22.36	19.14	1.30	17.84	0	59.7
Crystal 578RR (CommBench)	126	340.1	98	8373	101	56.36	97	1386	100	24.66	18.35	1.34	17.01	0	66.4
BTS 8815 (CommBench)	127	342.0	99	8012	97	56.95	98	1335	96	23.43	18.46	1.36	17.10	0	47.7
Crystal 803 (CommBench)	128	347.6	100	8736	106	58.71	101	1476	106	25.12	18.62	1.24	17.38	0	70.2
Experimental Trial (Comm status)															
BTS 8205	205	339.3	98	8810	107	56.14	96	1468	105	25.73	18.27	1.36	16.91	0	56.4
BTS 8226	208	347.8	100	8670	105	58.74	101	1476	106	24.53	18.53	1.18	17.34	0	60.6
BTS 8242	211	347.8	100	8313	101	58.76	101	1412	101	23.76	18.65	1.30	17.36	0	61.7
BTS 8270	232	346.7	100	8511	103	58.41	100	1425	102	24.60	18.64	1.33	17.31	0	62.4
Crystal 138	238	333.9	96	8524	103	54.48	93	1372	99	25.64	18.11	1.45	16.67	0	51.2
Crystal 260	230	347.2	100	9395	114	58.58	100	1574	113	27.17	18.62	1.30	17.32	0	64.6
Crystal 262	227	339.1	98	8294	100	56.09	96	1360	98	24.56	18.17	1.24	16.93	0	68.1
Crystal 269	229	337.4	97	8690	105	55.56	95	1423	102	25.87	18.29	1.44	16.85	0	48.8
Hilleshög HIL2441**	234	323.8	93	8115	98	51.36	88	1301	93	24.75	17.60	1.47	16.13	0	52.2
Hilleshög HIL2442	204	336.6	97	8360	101	55.30	95	1379	99	24.71	18.27	1.49	16.78	0	46.6
Hilleshög HIL2487 (Maribo MA942)	225	338.0	98	8551	103	55.74	95	1422	102	24.94	18.10	1.24	16.87	0	56.7
Maribo MA943	235	333.3	96	7368	89	54.29	93	1199	86	21.98	18.06	1.43	16.64	0	43.6
Comm Benchmark Mean		346.6		8271		58.39		1393		23.89	18.64	1.31			61.0
Comm Trial Mean		345.1		8545		57.92		1434		24.77	18.56	1.30			62.1
Coeff. of Var. (%)		2.5		7.3		4.7		8.1		7.2	2.1	7.3			17.3
Mean LSD (0.05)		7.8		543		2.44		101		1.55	0.35	0.09			9.0
Mean LSD (0.01)		10.3		715		3.22		133		2.04	0.45	0.11			11.8
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Casselton ND

Created 10/18/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
West of Perley MN (ND)

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	335.2	99	7952	108	54.84	98	1296	106	23.80	18.02	1.26	16.76	0	76.4
BTS 8034	101	337.6	100	8156	111	55.57	99	1342	110	24.21	18.16	1.28	16.88	0	79.9
BTS 8156	114	341.7	101	8153	111	56.86	101	1355	111	23.88	18.36	1.27	17.09	0	75.1
BTS 8927	109	343.9	101	8008	109	57.54	103	1339	110	23.31	18.39	1.20	17.19	0	84.3
Crystal 022	121	359.0	106	8066	109	62.25	111	1400	115	22.47	19.12	1.17	17.95	0	77.7
Crystal 130	113	343.9	101	8158	111	57.54	103	1363	112	23.77	18.43	1.23	17.20	1	78.3
Crystal 137	122	334.4	99	7949	108	54.59	97	1297	107	23.78	17.94	1.22	16.72	0	80.2
Crystal 793	118	335.3	99	8145	110	54.86	98	1328	109	24.37	17.98	1.21	16.77	0	81.0
Crystal 912	116	326.9	96	9564	130	52.23	93	1527	125	29.27	17.53	1.18	16.35	0	81.6
Crystal 913	106	339.1	100	8599	117	56.03	100	1418	116	25.42	18.12	1.17	16.95	0	81.7
Hilleshög HIL2317	120	335.8	99	7514	102	55.01	98	1232	101	22.33	18.05	1.26	16.79	1	66.5
Hilleshög HIL2366	111	325.2	96	7870	107	51.69	92	1250	103	24.24	17.40	1.14	16.26	0	76.3
Hilleshög HIL2368	119	342.4	101	6815	92	57.08	102	1134	93	19.93	18.32	1.20	17.12	0	64.3
Hilleshög HIL2386	112	331.1	98	7527	102	53.56	96	1214	100	22.77	17.74	1.19	16.55	0	78.7
Hilleshög HIL2389	105	343.5	101	8083	110	57.43	102	1354	111	23.51	18.37	1.19	17.18	0	71.6
Hilleshög HIL9920	115	333.8	98	7213	98	54.39	97	1175	96	21.58	17.90	1.22	16.68	0	74.6
Maribo MA717	110	338.2	100	7972	108	55.77	99	1315	108	23.54	18.14	1.23	16.91	0	74.2
Maribo MA902	124	327.1	96	6769	92	52.31	93	1079	89	20.77	17.54	1.19	16.35	0	82.9
SV 203	123	344.3	101	8055	109	57.65	103	1347	111	23.45	18.47	1.26	17.21	0	76.8
SV 265	107	337.8	100	7925	107	55.62	99	1307	107	23.44	18.06	1.17	16.89	0	80.5
SV 285	108	335.7	99	7788	106	54.97	98	1275	105	23.21	17.97	1.19	16.78	0	85.3
SX 1815	104	343.7	101	8069	109	57.48	102	1349	111	23.47	18.36	1.17	17.19	0	82.6
SX 1818	103	337.6	100	8308	113	55.57	99	1368	112	24.59	18.06	1.19	16.87	0	79.4
SX 1898	102	344.7	102	7820	106	57.80	103	1311	108	22.70	18.47	1.23	17.24	0	82.6
BTS 8337 (CommBench)	125	347.8	103	6901	94	58.76	105	1165	96	19.83	18.62	1.23	17.39	0	75.1
Crystal 578RR (CommBench)	126	337.9	100	7560	103	55.66	99	1240	102	22.49	18.16	1.27	16.89	0	77.0
BTS 8815 (CommBench)	127	329.4	97	7131	97	53.01	95	1149	94	21.61	17.78	1.31	16.47	0	63.3
Crystal 803 (CommBench)	128	341.8	101	7906	107	56.89	101	1317	108	23.14	18.36	1.27	17.09	0	76.9
Experimental Trial (Comm status)															
BTS 8205	205	348.1	103	8256	112	58.85	105	1397	115	23.72	18.69	1.29	17.41	0	75.9
BTS 8226	208	347.2	102	7935	108	58.57	104	1338	110	22.87	18.50	1.15	17.35	0	66.9
BTS 8242	211	356.3	105	8109	110	61.43	110	1396	115	22.80	19.03	1.21	17.82	0	73.0
BTS 8270	232	344.0	101	8218	111	57.56	103	1374	113	23.94	18.44	1.23	17.21	0	79.4
Crystal 138	238	345.5	102	8528	116	58.03	103	1434	118	24.66	18.49	1.23	17.26	0	71.5
Crystal 260	230	346.1	102	7847	106	58.23	104	1318	108	22.69	18.44	1.13	17.31	0	73.1
Crystal 262	227	334.4	99	8125	110	54.55	97	1325	109	24.32	17.87	1.16	16.71	0	70.3
Crystal 269	229	351.2	104	7743	105	59.83	107	1319	108	22.09	18.85	1.29	17.57	0	70.3
Hilleshög HIL2441**	234	347.4	102	7518	102	58.64	105	1267	104	21.66	18.61	1.23	17.38	0	71.2
Hilleshög HIL2442	204	343.8	101	7124	97	57.51	103	1190	98	20.76	18.46	1.25	17.21	0	65.9
Hilleshög HIL2487 (Maribo MA942)	225	339.5	100	6316	86	56.17	100	1038	85	18.74	18.15	1.19	16.96	0	68.2
Maribo MA943	235	346.9	102	7830	106	58.49	104	1323	109	22.54	18.65	1.32	17.34	0	65.4
Comm Benchmark Mean		339.2		7375		56.08		1218		21.77	18.23	1.27			73.1
Comm Trial Mean		338.2		7772		55.76		1280		23.01	18.13	1.22			77.2
Coeff. of Var. (%)		2.4		9.0		4.5		9.8		8.9	2.2	5.4			10.6
Mean LSD (0.05)		7.3		620		2.28		111		1.80	0.36	0.06			7.0
Mean LSD (0.01)		9.6		816		3.00		146		2.37	0.48	0.08			9.2
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from West of Perley MN (ND)

Created 10/18/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Halstad MN

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	344.5	97	13869	106	57.74	95	2320	104	40.29	18.08	0.85	17.23	0	79.4
BTS 8034	101	334.5	95	13717	105	54.61	90	2242	100	40.95	17.60	0.87	16.73	0	83.7
BTS 8156	114	349.1	99	13418	103	59.18	98	2271	102	38.56	18.32	0.86	17.46	0	82.3
BTS 8927	109	355.7	101	13468	103	61.23	101	2317	104	37.86	18.58	0.79	17.79	0	84.1
Crystal 022	121	361.3	102	13393	102	62.98	104	2327	104	37.20	18.87	0.80	18.07	0	81.7
Crystal 130	113	359.8	102	14080	108	62.51	103	2445	109	39.14	18.80	0.81	17.99	0	79.7
Crystal 137	122	346.6	98	13141	101	58.38	96	2209	99	38.02	18.18	0.85	17.33	0	83.3
Crystal 793	118	350.2	99	13768	105	59.50	98	2337	105	39.38	18.38	0.87	17.51	0	85.4
Crystal 912	116	343.6	97	14245	109	57.46	95	2379	106	41.53	18.02	0.83	17.19	0	88.7
Crystal 913	106	349.1	99	13914	106	59.15	98	2360	106	39.80	18.32	0.87	17.45	0	84.1
Hilleshög HIL2317	120	350.4	99	12437	95	59.57	98	2113	94	35.51	18.29	0.77	17.52	1	72.9
Hilleshög HIL2366	111	324.4	92	12065	92	51.44	85	1911	85	37.20	16.96	0.74	16.22	0	83.6
Hilleshög HIL2368	119	340.7	96	11924	91	56.54	93	1977	88	35.08	17.79	0.75	17.04	0	79.8
Hilleshög HIL2386	112	327.9	93	12289	94	52.55	87	1968	88	37.48	17.26	0.86	16.40	0	81.4
Hilleshög HIL2389	105	336.2	95	12641	97	55.13	91	2074	93	37.56	17.55	0.74	16.81	0	85.5
Hilleshög HIL9920	115	345.7	98	12516	96	58.10	96	2103	94	36.23	18.05	0.76	17.29	0	81.5
Maribo MA717	110	327.0	92	12751	98	52.26	86	2035	91	39.02	17.12	0.77	16.35	0	83.2
Maribo MA902	124	330.0	93	12195	93	53.21	88	1965	88	37.03	17.26	0.76	16.50	0	84.4
SV 203	123	335.3	95	12529	96	54.86	91	2050	92	37.38	17.57	0.80	16.77	0	87.5
SV 265	107	333.2	94	12333	94	54.19	90	2003	90	37.07	17.35	0.69	16.66	0	85.7
SV 285	108	342.3	97	12722	97	57.03	94	2122	95	37.18	17.96	0.85	17.11	0	89.8
SX 1815	104	347.4	98	13601	104	58.64	97	2298	103	39.11	18.13	0.76	17.37	0	85.2
SX 1818	103	344.9	98	13266	102	57.84	96	2224	99	38.49	18.05	0.81	17.24	0	86.7
SX 1898	102	342.1	97	13219	101	56.99	94	2201	98	38.63	17.91	0.80	17.11	0	85.1
BTS 8337 (CommBench)	125	365.3	103	12805	98	64.22	106	2252	101	34.97	19.23	0.96	18.27	0	83.2
Crystal 578RR (CommBench)	126	346.9	98	13415	103	58.46	97	2259	101	38.70	18.22	0.87	17.35	0	81.7
BTS 8815 (CommBench)	127	345.2	98	12186	93	57.95	96	2047	92	35.34	18.12	0.86	17.26	0	68.5
Crystal 803 (CommBench)	128	356.7	101	13862	106	61.52	102	2387	107	38.90	18.71	0.88	17.83	1	83.9
Experimental Trial (Comm status)															
BTS 8205	205	347.2	98	13124	100	58.56	97	2217	99	37.66	18.25	0.88	17.37	0	85.3
BTS 8226	208	360.4	102	13478	103	62.68	104	2344	105	37.43	18.75	0.74	18.01	0	84.1
BTS 8242	211	360.3	102	13082	100	62.66	104	2277	102	36.27	18.88	0.86	18.02	0	82.1
BTS 8270	232	358.4	101	13123	100	62.04	102	2268	101	36.68	18.76	0.84	17.92	0	85.6
Crystal 138	238	350.8	99	13381	102	59.68	99	2274	102	38.21	18.45	0.91	17.54	0	86.5
Crystal 260	230	348.4	99	13499	103	58.94	97	2284	102	38.75	18.26	0.84	17.42	0	82.0
Crystal 262	227	355.6	101	13400	103	61.18	101	2305	103	37.66	18.56	0.78	17.78	0	83.0
Crystal 269	229	370.3	105	12715	97	65.78	109	2260	101	34.32	19.45	0.93	18.52	0	80.7
Hilleshög HIL2441**	234	348.1	98	11988	92	58.84	97	2025	91	34.43	18.36	0.96	17.40	0	82.2
Hilleshög HIL2442	204	353.5	100	11796	90	60.51	100	2021	90	33.42	18.63	0.96	17.67	0	81.5
Hilleshög HIL2487 (Maribo MA942)	225	345.6	98	12951	99	58.06	96	2176	97	37.48	18.10	0.82	17.28	0	85.0
Maribo MA943	235	356.3	101	12609	96	61.41	101	2171	97	35.40	18.64	0.82	17.82	0	77.1
Comm Benchmark Mean		353.5		13067		60.54		2236		36.98	18.57	0.89			79.3
Comm Trial Mean		344.2		13017		57.64		2179		37.84	18.03	0.82			82.8
Coeff. of Var. (%)		2.6		4.9		4.9		6.3		4.4	2.5	5.9			7.9
Mean LSD (0.05)		8.1		576		2.53		122		1.52	0.41	0.04			5.5
Mean LSD (0.01)		10.7		758		3.34		161		2.00	0.54	0.06			7.2
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Halstad MN

Created 10/17/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Reynolds ND

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	360.0	102	11340	105	62.56	103	1971	106	31.28	19.13	1.13	18.00	0	66.2
BTS 8034	101	348.9	99	11587	107	59.09	98	1968	106	33.14	18.63	1.20	17.43	0	72.8
BTS 8156	114	355.2	101	10531	97	61.07	101	1812	98	29.79	18.89	1.13	17.76	0	66.5
BTS 8927	109	363.7	103	11204	103	63.72	105	1963	106	30.91	19.23	1.04	18.19	0	70.4
Crystal 022	121	366.6	104	11125	103	64.63	107	1964	106	30.29	19.40	1.08	18.32	0	61.6
Crystal 130	113	357.1	101	11595	107	61.66	102	2008	108	32.42	18.91	1.07	17.84	0	68.1
Crystal 137	122	353.2	100	10981	101	60.44	100	1882	101	31.13	18.83	1.17	17.66	0	66.0
Crystal 793	118	354.9	100	11496	106	60.96	101	1972	106	32.33	18.82	1.07	17.75	0	66.2
Crystal 912	116	340.3	96	12189	112	56.42	93	2022	109	35.76	18.14	1.12	17.02	0	69.0
Crystal 913	106	356.0	101	11864	109	61.33	101	2040	110	33.38	18.91	1.10	17.81	0	70.9
Hilleshög HIL2317	120	350.2	99	10854	100	59.51	98	1847	100	30.92	18.57	1.07	17.50	0	54.7
Hilleshög HIL2366	111	336.2	95	10517	97	55.13	91	1729	93	31.12	17.95	1.15	16.80	0	65.5
Hilleshög HIL2368	119	356.6	101	9930	92	61.50	102	1711	92	27.87	18.94	1.11	17.83	0	54.2
Hilleshög HIL2386	112	354.1	100	11061	102	60.74	100	1894	102	31.25	18.85	1.13	17.72	0	66.8
Hilleshög HIL2389	105	360.2	102	11396	105	62.64	104	1982	107	31.62	19.15	1.14	18.01	0	64.9
Hilleshög HIL9920	115	358.9	102	11291	104	62.22	103	1952	105	31.44	19.07	1.12	17.95	0	61.1
Maribo MA717	110	349.4	99	11108	102	59.25	98	1883	102	31.67	18.54	1.08	17.46	0	62.3
Maribo MA902	124	347.8	98	9708	90	58.76	97	1635	88	27.91	18.54	1.14	17.40	0	60.1
SV 203	123	361.4	102	11645	107	62.99	104	2035	110	32.14	19.12	1.07	18.05	0	67.0
SV 265	107	348.6	99	11490	106	59.02	98	1942	105	33.00	18.55	1.11	17.44	0	71.2
SV 285	108	355.0	100	11369	105	61.00	101	1949	105	32.10	18.90	1.13	17.77	0	70.0
SX 1815	104	364.3	103	11901	110	63.89	106	2088	113	32.70	19.26	1.05	18.21	0	65.3
SX 1818	103	359.3	102	11622	107	62.35	103	2017	109	32.46	19.06	1.09	17.97	0	59.7
SX 1898	102	353.3	100	11434	105	60.46	100	1958	106	32.31	18.81	1.15	17.66	0	66.8
BTS 8337 (CommBench)	125	358.4	101	10215	94	62.06	103	1767	95	28.67	19.21	1.28	17.93	0	63.8
Crystal 578RR (CommBench)	126	343.7	97	11094	102	57.49	95	1855	100	32.29	18.47	1.28	17.19	0	63.8
BTS 8815 (CommBench)	127	346.8	98	9657	89	58.43	97	1625	88	27.86	18.59	1.25	17.34	0	48.0
Crystal 803 (CommBench)	128	364.1	103	12389	114	63.84	106	2172	117	34.02	19.35	1.15	18.20	0	73.5
Experimental Trial (Comm status)															
BTS 8205	205	350.8	99	11495	106	59.67	99	1969	106	32.70	18.72	1.18	17.55	0	60.9
BTS 8226	208	348.8	99	10018	92	59.08	98	1708	92	28.89	18.55	1.11	17.44	0	54.6
BTS 8242	211	361.2	102	10926	101	62.91	104	1909	103	30.18	19.26	1.20	18.06	0	58.8
BTS 8270	232	353.6	100	10906	101	60.59	100	1878	101	30.77	18.93	1.24	17.69	0	66.3
Crystal 138	238	350.1	99	11124	103	59.48	98	1882	101	31.73	18.75	1.25	17.50	0	53.2
Crystal 260	230	356.9	101	11373	105	61.59	102	1965	106	31.74	19.02	1.16	17.86	0	64.4
Crystal 262	227	343.2	97	11095	102	57.35	95	1859	100	32.32	18.30	1.14	17.16	0	55.2
Crystal 269	229	357.2	101	11077	102	61.67	102	1912	103	30.94	19.16	1.30	17.85	0	48.8
Hilleshög HIL2441**	234	346.4	98	10346	95	58.33	96	1760	95	29.68	18.56	1.24	17.32	0	54.6
Hilleshög HIL2442	204	358.1	101	10850	100	61.97	102	1885	102	29.93	19.20	1.29	17.90	0	50.1
Hilleshög HIL2487 (Maribo MA942)	225	352.7	100	10104	93	60.26	100	1732	93	28.94	18.79	1.15	17.64	0	60.7
Maribo MA943	235	343.0	97	9167	85	57.28	95	1546	83	26.67	18.38	1.23	17.15	0	38.7
Comm Benchmark Mean		353.3		10839		60.46		1855		30.71	18.91	1.24			62.3
Comm Trial Mean		354.6		11111		60.88		1907		31.34	18.86	1.13			64.8
Coeff. of Var. (%)		3.1		6.0		5.6		7.7		5.1	2.6	7.0			13.4
Mean LSD (0.05)		9.5		570		2.98		125		1.38	0.44	0.07			7.3
Mean LSD (0.01)		12.6		751		3.92		165		1.82	0.58	0.09			9.6
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Reynolds ND

Created 10/19/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Climax MN

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	352.1	102	11316	106	60.09	104	1932	108	32.13	18.60	0.99	17.61	0	85.7
BTS 8034	101	338.9	98	11158	105	55.98	97	1842	103	32.95	18.09	1.14	16.95	0	89.6
BTS 8156	114	346.2	100	10885	102	58.24	100	1830	102	31.44	18.45	1.14	17.31	0	80.0
BTS 8927	109	342.1	99	10852	102	56.99	98	1809	101	31.70	18.17	1.06	17.11	0	88.5
Crystal 022	121	350.9	102	10710	100	59.73	103	1824	102	30.51	18.53	0.99	17.54	0	83.9
Crystal 130	113	349.8	101	11496	108	59.38	102	1954	109	32.83	18.46	0.98	17.48	0	89.9
Crystal 137	122	346.0	100	11122	104	58.20	100	1871	105	32.16	18.45	1.15	17.30	0	90.9
Crystal 793	118	338.5	98	10804	101	55.86	96	1780	100	31.99	18.00	1.07	16.93	0	90.4
Crystal 912	116	338.4	98	11727	110	55.81	96	1932	108	34.70	17.99	1.07	16.92	0	87.8
Crystal 913	106	345.1	100	11878	111	57.92	100	1992	111	34.45	18.25	0.99	17.26	0	93.0
Hilleshög HIL2317	120	341.8	99	10619	100	56.88	98	1767	99	31.09	18.09	1.00	17.09	0	78.1
Hilleshög HIL2366	111	325.3	94	10635	100	51.72	89	1696	95	32.59	17.26	1.00	16.26	0	87.0
Hilleshög HIL2368	119	343.1	99	9807	92	57.30	99	1637	92	28.61	18.17	1.02	17.15	0	73.7
Hilleshög HIL2386	112	345.8	100	11125	104	58.13	100	1869	105	32.20	18.36	1.07	17.29	0	88.3
Hilleshög HIL2389	105	346.7	100	10958	103	58.41	101	1846	103	31.62	18.42	1.09	17.33	0	90.1
Hilleshög HIL9920	115	341.7	99	10710	100	56.86	98	1783	100	31.31	18.14	1.05	17.09	0	83.3
Maribo MA717	110	334.0	97	11194	105	54.45	94	1824	102	33.55	17.71	1.00	16.71	0	84.4
Maribo MA902	124	338.2	98	10423	98	55.77	96	1720	96	30.77	17.93	1.02	16.91	0	91.2
SV 203	123	344.8	100	11322	106	57.83	100	1897	106	32.85	18.32	1.08	17.24	0	84.4
SV 265	107	340.8	99	10165	95	56.56	98	1685	94	29.87	18.11	1.07	17.04	0	85.4
SV 285	108	344.7	100	11349	106	57.78	100	1903	106	32.93	18.30	1.07	17.23	0	87.2
SX 1815	104	349.0	101	11579	109	59.14	102	1962	110	33.18	18.48	1.02	17.46	0	90.1
SX 1818	103	352.3	102	11565	108	60.17	104	1975	111	32.82	18.61	0.99	17.62	0	81.3
SX 1898	102	340.5	99	11091	104	56.47	97	1838	103	32.61	18.15	1.12	17.03	0	87.2
BTS 8337 (CommBench)	125	358.5	104	10244	96	62.09	107	1774	99	28.58	19.05	1.13	17.92	0	83.9
Crystal 578RR (CommBench)	126	331.8	96	10587	99	53.76	93	1712	96	31.96	17.73	1.13	16.60	0	83.6
BTS 8815 (CommBench)	127	342.5	99	10465	98	57.09	98	1742	97	30.61	18.23	1.11	17.12	0	69.8
Crystal 803 (CommBench)	128	348.8	101	11340	106	59.08	102	1920	107	32.51	18.56	1.12	17.44	1	90.6
Experimental Trial (Comm status)															
BTS 8205	205	348.1	101	12469	117	58.84	101	2108	118	35.90	18.54	1.14	17.41	0	84.0
BTS 8226	208	354.1	103	10021	94	60.70	105	1720	96	28.27	18.70	0.99	17.71	0	81.3
BTS 8242	211	350.0	101	10928	103	59.45	102	1857	104	31.21	18.61	1.11	17.51	0	85.6
BTS 8270	232	353.1	102	11839	111	60.40	104	2027	113	33.55	18.74	1.08	17.67	0	88.7
Crystal 138	238	351.7	102	11402	107	59.97	103	1942	109	32.39	18.64	1.07	17.58	0	84.4
Crystal 260	230	349.7	101	11421	107	59.36	102	1935	108	32.73	18.49	1.00	17.49	0	87.9
Crystal 262	227	341.7	99	11094	104	56.86	98	1850	103	32.41	18.16	1.07	17.09	0	82.8
Crystal 269	229	352.1	102	10720	101	60.09	104	1836	103	30.45	18.75	1.14	17.62	0	80.9
Hilleshög HIL2441**	234	337.6	98	10859	102	55.58	96	1790	100	32.17	18.07	1.19	16.88	1	89.9
Hilleshög HIL2442	204	347.0	100	10534	99	58.49	101	1775	99	30.44	18.52	1.19	17.34	0	82.0
Hilleshög HIL2487 (Maribo MA942)	225	338.6	98	10092	95	55.89	96	1669	93	29.68	18.01	1.08	16.93	0	87.5
Maribo MA943	235	344.1	100	11055	104	57.59	99	1855	104	32.16	18.26	1.05	17.21	0	83.6
Comm Benchmark Mean		345.4		10659		58.01		1787		30.92	18.39	1.12			82.0
Comm Trial Mean		343.9		10941		57.54		1830		31.83	18.25	1.06			85.9
Coeff. of Var. (%)		2.2		6.0		4.2		6.8		5.8	2.0	6.4			7.8
Mean LSD (0.05)		6.9		587		2.17		112		1.64	0.33	0.06			5.3
Mean LSD (0.01)		9.2		773		2.85		147		2.17	0.43	0.08			7.0
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Climax MN

Created 10/17/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Grand Forks ND

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	378.9	99	10716	108	68.45	99	1930	107	28.39	19.82	0.88	18.94	0	87.4
BTS 8034	101	367.8	97	10965	110	65.01	94	1936	107	29.84	19.38	0.99	18.39	0	90.0
BTS 8156	114	373.1	98	9726	98	66.65	96	1735	96	26.13	19.58	0.92	18.66	0	83.3
BTS 8927	109	387.7	102	10606	107	71.19	103	1947	108	27.37	20.27	0.88	19.39	0	89.3
Crystal 022	121	380.2	100	10712	108	68.88	100	1940	107	28.17	19.87	0.86	19.01	0	89.8
Crystal 130	113	384.7	101	10637	107	70.28	102	1940	107	27.72	20.16	0.93	19.23	0	86.3
Crystal 137	122	378.0	99	10246	103	68.19	99	1845	102	27.20	19.81	0.91	18.90	0	90.0
Crystal 793	118	379.3	100	10928	110	68.58	99	1975	109	28.86	19.88	0.92	18.96	0	87.0
Crystal 912	116	373.2	98	11204	113	66.68	97	2003	111	30.03	19.47	0.81	18.66	0	88.9
Crystal 913	106	378.2	99	11212	113	68.25	99	2020	112	29.70	19.82	0.90	18.92	0	83.9
Hilleshög HIL2317	120	383.1	101	10275	103	69.78	101	1869	104	26.85	20.04	0.89	19.15	0	81.9
Hilleshög HIL2366	111	369.2	97	10074	101	65.45	95	1783	99	27.37	19.29	0.83	18.46	0	85.3
Hilleshög HIL2368	119	389.1	102	9657	97	71.64	104	1778	98	24.84	20.37	0.92	19.45	0	80.8
Hilleshög HIL2386	112	373.0	98	9954	100	66.63	96	1777	98	26.68	19.63	0.98	18.65	0	89.9
Hilleshög HIL2389	105	376.7	99	10934	110	67.78	98	1968	109	28.99	19.80	0.96	18.84	0	87.1
Hilleshög HIL9920	115	383.3	101	10794	108	69.83	101	1964	109	28.22	20.09	0.93	19.16	0	87.2
Maribo MA717	110	376.3	99	10615	107	67.64	98	1907	106	28.26	19.70	0.89	18.81	0	86.4
Maribo MA902	124	379.3	100	9779	98	68.58	99	1767	98	25.82	19.88	0.92	18.96	0	84.0
SV 203	123	381.9	100	11162	112	69.40	100	2028	112	29.25	20.00	0.91	19.09	0	91.9
SV 265	107	380.5	100	10908	110	68.97	100	1977	110	28.68	19.85	0.82	19.03	0	88.5
SV 285	108	379.3	100	11122	112	68.59	99	2009	111	29.33	19.84	0.88	18.96	0	89.5
SX 1815	104	381.1	100	11469	115	69.16	100	2080	115	30.11	19.94	0.89	19.05	0	94.1
SX 1818	103	378.8	99	10989	110	68.42	99	1983	110	29.03	19.87	0.93	18.94	0	86.9
SX 1898	102	386.4	101	11442	115	70.81	102	2095	116	29.63	20.20	0.89	19.31	0	88.0
BTS 8337 (CommBench)	125	385.2	101	9457	95	70.43	102	1725	96	24.65	20.18	0.92	19.26	0	83.6
Crystal 578RR (CommBench)	126	382.1	100	9739	98	69.45	101	1771	98	25.49	20.05	0.94	19.11	0	88.7
BTS 8815 (CommBench)	127	373.4	98	9443	95	66.73	97	1688	94	25.29	19.68	1.01	18.67	0	73.7
Crystal 803 (CommBench)	128	383.1	101	11191	112	69.78	101	2037	113	29.20	20.10	0.94	19.16	0	89.7
Experimental Trial (Comm status)															
BTS 8205	205	385.8	101	10503	105	70.63	102	1934	107	27.01	20.26	0.95	19.31	0	85.9
BTS 8226	208	382.5	100	10256	103	69.56	101	1870	104	26.79	19.97	0.84	19.12	0	78.7
BTS 8242	211	379.6	100	10103	101	68.67	99	1834	102	26.57	19.97	0.98	18.98	0	83.2
BTS 8270	232	385.0	101	10351	104	70.37	102	1904	105	26.66	20.19	0.94	19.25	0	83.2
Crystal 138	238	381.0	100	10793	108	69.10	100	1976	109	28.00	19.95	0.87	19.07	0	83.5
Crystal 260	230	380.1	100	10684	107	68.83	100	1937	107	28.16	19.90	0.90	18.99	0	85.1
Crystal 262	227	375.8	99	10422	105	67.50	98	1872	104	27.74	19.67	0.89	18.77	0	84.2
Crystal 269	229	391.3	103	10339	104	72.33	105	1922	106	26.19	20.51	0.94	19.57	0	74.3
Hilleshög HIL2441**	234	387.3	102	9551	96	71.08	103	1770	98	24.30	20.31	0.95	19.36	0	83.7
Hilleshög HIL2442	204	378.8	99	8763	88	68.43	99	1602	89	22.66	20.00	1.05	18.94	0	81.1
Hilleshög HIL2487 (Maribo MA942)	225	374.2	98	9467	95	67.01	97	1690	94	25.46	19.60	0.90	18.70	0	84.6
Maribo MA943	235	385.5	101	9648	97	70.51	102	1759	97	25.19	20.19	0.93	19.26	0	74.1
Comm Benchmark Mean		381.0		9958		69.10		1805		26.16	20.00	0.95			83.9
Comm Trial Mean		380.0		10507		68.79		1901		27.69	19.91	0.91			87.0
Coeff. of Var. (%)		2.1		4.8		3.6		5.5		4.5	1.9	6.4			6.7
Mean LSD (0.05)		7.1		457		2.22		96		1.13	0.34	0.05			4.9
Mean LSD (0.01)		9.4		602		2.93		126		1.49	0.44	0.07			6.5
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Grand Forks ND

Created 10/18/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Scandia MN

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	348.6	100	12422	110	59.02	100	2106	110	35.58	18.20	0.77	17.43	0	77.7
BTS 8034	101	347.8	100	12825	114	58.75	99	2165	113	36.88	18.22	0.84	17.38	0	78.7
BTS 8156	114	344.2	99	12121	107	57.62	97	2027	106	35.24	18.01	0.80	17.21	0	73.4
BTS 8927	109	346.6	99	12445	110	58.39	99	2096	110	35.90	18.08	0.75	17.33	1	80.8
Crystal 022	121	359.6	103	12108	107	62.45	106	2103	110	33.68	18.73	0.75	17.98	0	74.9
Crystal 130	113	351.2	101	12452	110	59.80	101	2120	111	35.47	18.30	0.74	17.56	0	77.8
Crystal 137	122	358.9	103	12330	109	62.22	105	2132	111	34.45	18.72	0.77	17.95	0	80.3
Crystal 793	118	353.8	101	12447	110	60.63	102	2131	111	35.16	18.48	0.79	17.69	0	73.4
Crystal 912	116	344.3	99	12752	113	57.67	97	2135	112	37.05	17.97	0.75	17.22	0	80.0
Crystal 913	106	352.3	101	12951	115	60.15	102	2209	115	36.81	18.39	0.77	17.62	0	77.8
Hilleshög HIL2317	120	350.1	100	11403	101	59.47	101	1937	101	32.62	18.32	0.81	17.51	0	68.7
Hilleshög HIL2366	111	337.7	97	11081	98	55.61	94	1821	95	32.90	17.69	0.80	16.89	0	77.4
Hilleshög HIL2368	119	353.6	101	11443	101	60.57	102	1957	102	32.41	18.47	0.79	17.68	0	66.3
Hilleshög HIL2386	112	350.0	100	12313	109	59.44	100	2094	109	35.14	18.30	0.80	17.50	0	78.7
Hilleshög HIL2389	105	346.4	99	11664	103	58.32	99	1965	103	33.66	18.11	0.79	17.32	0	76.0
Hilleshög HIL9920	115	344.0	99	11518	102	57.58	97	1927	101	33.50	18.06	0.85	17.21	0	76.8
Maribo MA717	110	349.6	100	11984	106	59.33	100	2031	106	34.36	18.31	0.83	17.48	0	79.6
Maribo MA902	124	345.6	99	11532	102	58.07	98	1936	101	33.39	18.06	0.78	17.28	0	74.4
SV 203	123	353.8	101	12204	108	60.62	102	2088	109	34.54	18.46	0.77	17.69	0	83.8
SV 265	107	348.0	100	11951	106	58.82	99	2019	106	34.40	18.20	0.80	17.40	0	81.2
SV 285	108	350.8	100	12116	107	59.69	101	2056	107	34.62	18.37	0.83	17.54	0	78.4
SX 1815	104	351.8	101	12351	109	60.00	101	2105	110	35.09	18.35	0.77	17.58	0	78.9
SX 1818	103	347.8	100	12629	112	58.75	99	2135	112	36.28	18.19	0.80	17.39	0	83.1
SX 1898	102	346.8	99	11781	104	58.44	99	1982	104	34.04	18.12	0.78	17.34	0	79.8
BTS 8337 (CommBench)	125	357.5	102	10872	96	61.79	104	1878	98	30.43	18.79	0.91	17.88	0	76.2
Crystal 578RR (CommBench)	126	340.6	98	11219	99	56.52	96	1862	97	32.93	17.91	0.88	17.03	0	71.8
BTS 8815 (CommBench)	127	347.6	100	10431	92	58.71	99	1760	92	30.08	18.24	0.86	17.38	0	63.5
Crystal 803 (CommBench)	128	350.6	100	12662	112	59.62	101	2153	113	36.08	18.35	0.82	17.53	0	77.7
Experimental Trial (Comm status)															
BTS 8205	205	354.2	101	12275	109	60.73	103	2116	111	34.20	18.54	0.84	17.70	0	71.3
BTS 8226	208	353.6	101	12920	114	60.53	102	2208	115	36.57	18.43	0.75	17.69	0	72.3
BTS 8242	211	349.3	100	11892	105	59.22	100	2008	105	34.24	18.30	0.84	17.47	0	72.0
BTS 8270	232	356.7	102	12289	109	61.52	104	2110	110	34.62	18.65	0.81	17.84	0	76.0
Crystal 138	238	347.6	100	12206	108	58.71	99	2062	108	35.07	18.15	0.78	17.38	0	69.3
Crystal 260	230	346.6	99	12253	108	58.38	99	2056	107	35.54	18.11	0.79	17.33	0	71.2
Crystal 262	227	349.2	100	12208	108	59.19	100	2071	108	34.82	18.25	0.80	17.46	0	72.6
Crystal 269	229	364.5	104	11334	100	63.93	108	1997	104	30.81	19.11	0.88	18.23	0	60.2
Hilleshög HIL2441**	234	349.1	100	11348	100	59.15	100	1922	100	32.49	18.41	0.96	17.45	0	72.3
Hilleshög HIL2442	204	340.1	97	11320	100	56.36	95	1876	98	33.24	17.94	0.94	17.00	0	68.9
Hilleshög HIL2487 (Maribo MA942)	225	338.0	97	11944	106	55.72	94	1971	103	35.36	17.71	0.81	16.90	0	74.7
Maribo MA943	235	358.7	103	11452	101	62.13	105	1989	104	31.54	18.81	0.88	17.93	0	61.1
Comm Benchmark Mean		349.1		11296		59.16		1913		32.38	18.32	0.87			72.3
Comm Trial Mean		349.1		11953		59.17		2025		34.25	18.26	0.80			76.2
Coeff. of Var. (%)		2.3		5.1		4.2		5.9		4.9	2.1	6.3			10.4
Mean LSD (0.05)		7.0		541		2.19		106		1.51	0.34	0.04			6.7
Mean LSD (0.01)		9.3		712		2.89		140		1.99	0.44	0.06			8.8
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Scandia MN

Created 10/19/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
East Grand Forks MN

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	310.7	100	11474	103	47.16	99	1737	103	37.00	16.95	1.41	15.54	0	85.9
BTS 8034	101	294.6	94	10608	95	42.14	89	1522	90	36.05	16.34	1.62	14.72	0	90.3
BTS 8156	114	324.1	104	11424	103	51.37	108	1806	107	35.40	17.64	1.43	16.21	0	85.5
BTS 8927	109	322.4	103	11013	99	50.83	107	1737	103	34.29	17.43	1.32	16.11	0	90.1
Crystal 022	121	319.8	102	11588	104	50.00	105	1809	107	36.12	17.41	1.41	16.00	0	84.9
Crystal 130	113	317.4	102	11804	106	49.27	103	1818	108	37.40	17.24	1.37	15.87	0	86.6
Crystal 137	122	317.4	102	11174	100	49.26	103	1738	103	35.16	17.29	1.42	15.87	1	83.8
Crystal 793	118	314.7	101	11540	104	48.42	102	1773	105	36.66	17.08	1.34	15.74	0	86.8
Crystal 912	116	295.6	95	12005	108	42.47	89	1733	102	40.46	16.27	1.50	14.77	0	88.2
Crystal 913	106	318.9	102	11704	105	49.74	104	1819	108	36.73	17.30	1.34	15.96	0	91.7
Hilleshög HIL2317	120	303.4	97	10844	97	44.91	94	1611	95	35.91	16.62	1.46	15.16	0	79.4
Hilleshög HIL2366	111	291.6	93	10445	94	41.21	87	1476	87	35.77	15.92	1.35	14.57	0	85.2
Hilleshög HIL2368	119	300.7	96	10126	91	44.04	92	1483	88	33.79	16.49	1.46	15.03	0	79.6
Hilleshög HIL2386	112	302.8	97	10651	96	44.71	94	1570	93	35.32	16.51	1.38	15.13	0	85.7
Hilleshög HIL2389	105	316.6	101	11309	102	49.01	103	1746	103	35.80	17.19	1.36	15.83	0	86.9
Hilleshög HIL9920	115	299.7	96	10664	96	43.73	92	1552	92	35.58	16.45	1.46	14.99	0	84.2
Maribo MA717	110	290.6	93	10471	94	40.91	86	1461	86	36.16	15.80	1.27	14.53	0	87.7
Maribo MA902	124	293.0	94	9770	88	41.64	87	1387	82	33.38	16.05	1.39	14.66	0	82.2
SV 203	123	321.7	103	11292	101	50.60	106	1782	105	35.03	17.37	1.28	16.09	0	84.8
SV 265	107	299.3	96	10616	95	43.62	92	1544	91	35.50	16.31	1.34	14.97	0	88.6
SV 285	108	307.7	99	11161	100	46.25	97	1678	99	36.34	16.82	1.43	15.39	0	88.5
SX 1815	104	317.8	102	11129	100	49.39	104	1722	102	35.18	17.30	1.40	15.90	0	87.4
SX 1818	103	298.3	96	11028	99	43.30	91	1599	95	37.18	16.37	1.47	14.90	0	85.6
SX 1898	102	301.7	97	10663	96	44.35	93	1564	93	35.47	16.52	1.44	15.08	0	90.7
BTS 8337 (CommBench)	125	328.3	105	10976	99	52.69	111	1752	104	33.62	17.90	1.48	16.42	0	84.4
Crystal 578RR (CommBench)	126	291.3	93	10662	96	41.11	86	1493	88	36.78	16.08	1.51	14.57	0	86.8
BTS 8815 (CommBench)	127	312.4	100	11183	100	47.72	100	1713	101	35.68	17.11	1.49	15.62	0	76.0
Crystal 803 (CommBench)	128	316.3	101	11696	105	48.93	103	1805	107	37.04	17.22	1.40	15.82	1	87.5
Experimental Trial (Comm status)															
BTS 8205	205	315.3	101	11181	100	48.61	102	1720	102	35.61	17.18	1.41	15.77	0	75.9
BTS 8226	208	324.9	104	11323	102	51.60	108	1791	106	34.95	17.51	1.23	16.28	0	80.9
BTS 8242	211	324.3	104	11410	103	51.40	108	1799	106	35.50	17.59	1.38	16.21	0	81.3
BTS 8270	232	316.8	102	11111	100	49.09	103	1711	101	35.49	17.20	1.36	15.85	0	86.2
Crystal 138	238	320.9	103	11741	105	50.35	106	1843	109	36.71	17.46	1.40	16.06	0	80.1
Crystal 260	230	315.5	101	11055	99	48.68	102	1701	101	35.46	17.16	1.39	15.77	0	85.7
Crystal 262	227	312.3	100	11944	107	47.69	100	1814	107	38.33	17.02	1.39	15.62	0	82.0
Crystal 269	229	306.6	98	11245	101	45.90	96	1677	99	36.95	16.88	1.56	15.32	0	81.9
Hilleshög HIL2441**	234	300.5	96	10621	95	44.00	92	1554	92	35.20	16.57	1.53	15.04	0	82.7
Hilleshög HIL2442	204	310.6	100	10458	94	47.16	99	1591	94	33.61	16.96	1.39	15.56	0	77.8
Hilleshög HIL2487 (Maribo MA942)	225	318.9	102	10609	95	49.74	104	1652	98	33.48	17.26	1.32	15.95	0	82.5
Maribo MA943	235	308.4	99	10871	98	46.51	98	1633	97	35.28	17.04	1.58	15.45	0	68.9
Comm Benchmark Mean		312.1		11129		47.61		1691		35.78	17.08	1.47			83.7
Comm Trial Mean		308.6		11016		46.53		1657		35.77	16.84	1.41			85.9
Coeff. of Var. (%)		3.5		5.9		7.3		8.7		5.0	2.9	7.8			8.9
Mean LSD (0.05)		9.9		587		3.10		129		1.62	0.45	0.10			6.4
Mean LSD (0.01)		13.1		773		4.08		170		2.13	0.59	0.13			8.4
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from East Grand Forks MN

Created 10/19/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Stephen MN

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	374.3	99	13760	106	67.04	99	2461	105	36.83	19.49	0.78	18.71	0	75.0
BTS 8034	101	357.8	95	13506	104	61.87	91	2328	100	37.89	18.79	0.90	17.89	0	80.6
BTS 8156	114	372.2	99	13489	104	66.39	98	2401	103	36.32	19.48	0.87	18.61	0	70.2
BTS 8927	109	380.8	101	13534	104	69.07	102	2452	105	35.60	19.84	0.80	19.04	0	76.5
Crystal 022	121	387.9	103	13783	106	71.27	105	2530	108	35.57	20.16	0.76	19.40	0	79.2
Crystal 130	113	384.9	102	14227	109	70.33	104	2596	111	37.04	20.03	0.78	19.25	0	73.8
Crystal 137	122	369.8	98	13492	104	65.61	97	2391	102	36.53	19.34	0.85	18.49	0	76.9
Crystal 793	118	378.8	101	14485	111	68.45	101	2613	112	38.32	19.82	0.88	18.94	0	79.1
Crystal 912	116	372.4	99	13917	107	66.44	98	2485	106	37.32	19.39	0.77	18.62	0	79.0
Crystal 913	106	376.4	100	14363	110	67.68	100	2583	111	38.15	19.64	0.81	18.83	0	81.5
Hilleshög HIL2317	120	378.2	101	13474	104	68.25	101	2431	104	35.63	19.73	0.82	18.91	0	63.4
Hilleshög HIL2366	111	363.5	97	12845	99	63.65	94	2250	96	35.33	19.05	0.87	18.18	0	80.3
Hilleshög HIL2368	119	375.3	100	12195	94	67.35	100	2186	94	32.56	19.60	0.84	18.76	0	69.0
Hilleshög HIL2386	112	372.1	99	13228	102	66.33	98	2357	101	35.59	19.49	0.89	18.60	0	75.5
Hilleshög HIL2389	105	378.8	101	13934	107	68.42	101	2514	108	36.86	19.74	0.80	18.94	0	81.8
Hilleshög HIL9920	115	377.0	100	13839	106	67.87	100	2493	107	36.68	19.69	0.84	18.85	0	76.4
Maribo MA717	110	379.3	101	13775	106	68.60	101	2491	107	36.30	19.82	0.85	18.97	0	79.6
Maribo MA902	124	368.9	98	13211	102	65.36	97	2338	100	35.85	19.33	0.88	18.45	0	80.1
SV 203	123	376.4	100	14604	112	67.69	100	2621	112	38.90	19.64	0.83	18.81	0	85.4
SV 265	107	373.4	99	13989	108	66.76	99	2496	107	37.55	19.52	0.85	18.67	0	82.1
SV 285	108	379.9	101	14049	108	68.78	102	2540	109	37.04	19.80	0.80	19.00	0	85.5
SX 1815	104	377.7	100	14306	110	68.08	101	2577	110	37.91	19.72	0.84	18.88	0	81.0
SX 1818	103	367.2	98	14207	109	64.80	96	2505	107	38.74	19.19	0.83	18.36	0	79.5
SX 1898	102	378.0	100	14321	110	68.18	101	2583	111	37.89	19.68	0.78	18.90	0	78.8
BTS 8337 (CommBench)	125	385.2	102	12655	97	70.43	104	2312	99	32.90	20.11	0.85	19.26	0	72.7
Crystal 578RR (CommBench)	126	375.8	100	12919	99	67.49	100	2318	99	34.42	19.62	0.83	18.79	0	72.8
BTS 8815 (CommBench)	127	372.5	99	12126	93	66.47	98	2161	93	32.63	19.50	0.88	18.62	0	63.6
Crystal 803 (CommBench)	128	371.7	99	14305	110	66.20	98	2549	109	38.48	19.45	0.87	18.58	0	80.8
Experimental Trial (Comm status)															
BTS 8205	205	389.2	103	14788	114	71.67	106	2728	117	37.99	20.30	0.85	19.46	0	75.9
BTS 8226	208	381.0	101	13845	106	69.14	102	2516	108	36.13	19.81	0.77	19.05	0	73.6
BTS 8242	211	393.1	104	14559	112	72.89	108	2701	116	37.00	20.41	0.76	19.66	0	81.6
BTS 8270	232	375.8	100	14248	110	67.48	100	2571	110	37.77	19.67	0.88	18.79	0	74.4
Crystal 138	238	374.5	100	14618	112	67.08	99	2623	112	39.04	19.54	0.81	18.73	0	73.2
Crystal 260	230	370.7	99	14599	112	65.88	97	2606	112	39.19	19.37	0.84	18.53	0	75.5
Crystal 262	227	371.8	99	13809	106	66.23	98	2464	106	37.00	19.43	0.84	18.59	0	78.8
Crystal 269	229	401.7	107	14111	109	75.59	112	2662	114	34.90	20.92	0.84	20.09	0	62.4
Hilleshög HIL2441**	234	384.1	102	12666	97	70.08	104	2307	99	32.95	20.10	0.91	19.20	0	75.8
Hilleshög HIL2442	204	377.5	100	12723	98	68.03	101	2293	98	33.59	20.09	1.22	18.87	0	69.4
Hilleshög HIL2487 (Maribo MA942)	225	381.4	101	13039	100	69.25	102	2371	102	33.97	19.86	0.79	19.08	0	81.5
Maribo MA943	235	380.9	101	12727	98	69.08	102	2316	99	33.39	19.97	0.93	19.05	0	62.4
Comm Benchmark Mean		376.3		13001		67.65		2335		34.61	19.67	0.86			72.5
Comm Trial Mean		375.8		13643		67.49		2448		36.35	19.62	0.83			77.1
Coeff. of Var. (%)		2.3		5.8		4.0		6.2		5.9	2.1	7.0			11.1
Mean LSD (0.05)		7.8		705		2.45		137		1.93	0.37	0.05			7.4
Mean LSD (0.01)		10.3		928		3.22		180		2.55	0.49	0.07			9.7
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Stephen MN

Created 10/19/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
St. Thomas ND

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	328.0	99	13311	107	52.57	99	2130	107	40.57	17.16	0.76	16.40	0	76.2
BTS 8034	101	317.9	96	12143	98	49.43	93	1892	95	38.15	16.69	0.80	15.89	0	76.9
BTS 8156	114	323.6	98	11860	96	51.21	96	1879	94	36.65	16.95	0.77	16.18	0	74.9
BTS 8927	109	340.9	103	13013	105	56.62	106	2160	108	38.17	17.72	0.67	17.05	0	80.8
Crystal 022	121	340.4	103	13022	105	56.45	106	2159	108	38.20	17.72	0.70	17.02	0	78.6
Crystal 130	113	329.0	100	12876	104	52.88	99	2068	103	39.20	17.17	0.73	16.44	0	78.4
Crystal 137	122	328.2	99	12204	98	52.63	99	1960	98	37.16	17.20	0.79	16.41	0	82.9
Crystal 793	118	329.5	100	12995	105	53.05	100	2097	105	39.31	17.24	0.77	16.47	0	80.5
Crystal 912	116	324.7	98	12971	105	51.55	97	2050	103	40.11	17.01	0.77	16.24	1	80.3
Crystal 913	106	331.0	100	13597	110	53.51	101	2195	110	41.14	17.30	0.75	16.55	0	82.2
Hilleshög HIL2317	120	334.1	101	13173	106	54.47	102	2139	107	39.59	17.42	0.72	16.70	0	72.5
Hilleshög HIL2366	111	312.1	95	11925	96	47.62	90	1818	91	38.24	16.43	0.83	15.60	0	81.4
Hilleshög HIL2368	119	334.7	101	11373	92	54.67	103	1856	93	33.93	17.49	0.75	16.74	0	75.2
Hilleshög HIL2386	112	319.6	97	11833	95	49.95	94	1849	93	36.99	16.80	0.82	15.98	0	79.2
Hilleshög HIL2389	105	324.2	98	12809	103	51.39	97	2034	102	39.52	16.93	0.73	16.20	0	81.9
Hilleshög HIL9920	115	330.2	100	12790	103	53.26	100	2061	103	38.70	17.26	0.75	16.51	0	75.2
Maribo MA717	110	325.1	99	11862	96	51.66	97	1884	94	36.54	17.04	0.78	16.26	0	75.8
Maribo MA902	124	313.8	95	11836	95	48.16	91	1816	91	37.67	16.49	0.80	15.69	0	74.9
SV 203	123	327.5	99	12755	103	52.42	99	2043	102	39.02	17.03	0.66	16.37	0	78.5
SV 265	107	324.9	98	12771	103	51.60	97	2029	102	39.35	16.95	0.71	16.24	0	84.4
SV 285	108	316.6	96	12183	98	49.01	92	1887	94	38.45	16.56	0.73	15.83	0	82.7
SX 1815	104	327.0	99	12899	104	52.27	98	2062	103	39.46	17.04	0.68	16.36	0	81.5
SX 1818	103	317.2	96	13299	107	49.22	93	2061	103	41.95	16.64	0.78	15.86	0	78.9
SX 1898	102	327.8	99	13248	107	52.50	99	2122	106	40.48	17.08	0.69	16.39	0	78.4
BTS 8337 (CommBench)	125	334.2	101	11839	95	54.51	102	1934	97	35.36	17.55	0.84	16.71	0	72.7
Crystal 578RR (CommBench)	126	323.5	98	12892	104	51.17	96	2038	102	39.87	17.01	0.83	16.18	0	81.8
BTS 8815 (CommBench)	127	325.3	99	11503	93	51.75	97	1828	91	35.33	17.11	0.84	16.27	0	66.2
Crystal 803 (CommBench)	128	337.0	102	13377	108	55.38	104	2195	110	39.78	17.60	0.75	16.85	0	84.9
Experimental Trial (Comm status)															
BTS 8205	205	329.4	100	11721	95	53.00	100	1887	94	35.68	17.32	0.84	16.48	0	85.6
BTS 8226	208	341.5	103	13146	106	56.79	107	2174	109	38.67	17.75	0.68	17.07	0	83.2
BTS 8242	211	331.8	101	11775	95	53.77	101	1903	95	35.78	17.30	0.69	16.60	0	78.3
BTS 8270	232	331.4	100	12949	104	53.61	101	2096	105	39.09	17.33	0.76	16.58	0	82.4
Crystal 138	238	333.1	101	12899	104	54.19	102	2107	105	38.60	17.38	0.73	16.65	0	77.8
Crystal 260	230	320.4	97	12763	103	50.24	94	1994	100	39.82	16.75	0.73	16.02	0	80.4
Crystal 262	227	332.5	101	13158	106	53.99	101	2145	107	39.16	17.29	0.68	16.61	0	81.3
Crystal 269	229	345.9	105	12334	99	58.11	109	2066	103	35.82	18.12	0.81	17.31	0	74.9
Hilleshög HIL2441**	234	331.3	100	11328	91	53.61	101	1842	92	34.10	17.33	0.77	16.57	0	74.4
Hilleshög HIL2442	204	320.1	97	11130	90	50.15	94	1746	87	34.65	16.83	0.81	16.02	0	76.2
Hilleshög HIL2487 (Maribo MA942)	225	330.5	100	11715	94	53.36	100	1891	95	35.53	17.33	0.80	16.53	0	81.2
Maribo MA943	235	331.8	101	11565	93	53.74	101	1891	95	34.70	17.36	0.77	16.60	0	64.9
Comm Benchmark Mean		330.0		12403		53.20		1999		37.59	17.32	0.82			76.4
Comm Trial Mean		326.7		12538		52.16		2002		38.39	17.09	0.76			78.0
Coeff. of Var. (%)		2.6		4.9		5.1		6.3		4.6	2.4	6.9			9.7
Mean LSD (0.05)		7.6		539		2.37		110		1.56	0.36	0.05			6.3
Mean LSD (0.01)		10.0		710		3.12		145		2.06	0.47	0.06			8.2
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from St. Thomas ND

Created 10/19/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.

2023 Performance of Approved Varieties - ACSC RR Official Trials
Bathgate ND

Description *	Code	Rec/T		Rec/A		Rev/T +		Rev/A +		Yield T/A	Sugar%			Bolters ++	Emerg. %
		lbs.	%Bnch	lbs.	%Bnch	\$	%Bnch	\$	%Bnch		Gross	LTM	Rec		
Commercial Trial															
BTS 8018	117	352.1	99	13500	105	60.10	98	2303	104	38.28	18.57	0.96	17.61	0	81.6
BTS 8034	101	342.3	96	12819	99	57.04	93	2136	96	37.53	18.12	1.01	17.11	0	91.6
BTS 8156	114	352.1	99	12242	95	60.11	98	2088	94	34.77	18.58	0.97	17.61	0	85.5
BTS 8927	109	354.6	100	12795	99	60.87	100	2195	99	36.28	18.65	0.92	17.73	0	87.2
Crystal 022	121	357.5	101	12785	99	61.77	101	2209	99	35.78	18.79	0.91	17.88	0	87.5
Crystal 130	113	352.1	99	13145	102	60.10	98	2241	101	37.40	18.56	0.96	17.60	0	85.4
Crystal 137	122	366.8	103	13080	101	64.70	106	2301	104	35.80	19.30	0.96	18.34	0	87.9
Crystal 793	118	357.0	100	13345	103	61.62	101	2304	104	37.37	18.80	0.95	17.85	0	84.1
Crystal 912	116	346.2	97	14216	110	58.24	95	2391	108	41.07	18.29	0.98	17.31	0	85.0
Crystal 913	106	356.1	100	13605	105	61.35	100	2343	105	38.20	18.75	0.95	17.80	0	87.1
Hilleshög HIL2317	120	355.9	100	13006	101	61.28	100	2233	100	36.66	18.77	0.98	17.79	0	76.7
Hilleshög HIL2366	111	348.3	98	12684	98	58.91	96	2148	97	36.49	18.40	0.99	17.41	0	87.8
Hilleshög HIL2368	119	363.9	102	12203	94	63.79	104	2134	96	33.64	19.12	0.93	18.19	0	72.6
Hilleshög HIL2386	112	347.0	98	12139	94	58.49	96	2044	92	35.02	18.41	1.06	17.35	0	86.5
Hilleshög HIL2389	105	358.7	101	13226	102	62.17	102	2285	103	36.98	18.85	0.92	17.93	0	89.8
Hilleshög HIL9920	115	363.0	102	13017	101	63.51	104	2278	103	35.83	19.14	0.99	18.15	0	78.3
Maribo MA717	110	354.7	100	13203	102	60.90	100	2267	102	37.23	18.73	1.00	17.73	0	87.5
Maribo MA902	124	347.7	98	12327	95	58.71	96	2075	93	35.49	18.35	0.97	17.38	0	87.0
SV 203	123	365.1	103	13254	103	64.16	105	2327	105	36.36	19.17	0.92	18.25	0	88.9
SV 265	107	348.7	98	12743	99	59.05	97	2155	97	36.67	18.40	0.96	17.44	1	92.6
SV 285	108	356.9	100	12864	100	61.58	101	2214	100	36.27	18.78	0.93	17.85	0	87.7
SX 1815	104	352.9	99	13055	101	60.35	99	2234	101	37.05	18.62	0.98	17.64	0	79.6
SX 1818	103	353.5	99	13424	104	60.53	99	2297	103	38.00	18.57	0.90	17.67	0	87.9
SX 1898	102	353.9	100	13192	102	60.66	99	2262	102	37.19	18.67	0.98	17.69	0	86.2
BTS 8337 (CommBench)	125	363.5	102	12896	100	63.66	104	2260	102	35.34	19.16	0.98	18.18	0	82.4
Crystal 578RR (CommBench)	126	351.4	99	13221	102	59.87	98	2249	101	37.62	18.54	0.98	17.56	0	86.0
BTS 8815 (CommBench)	127	345.9	97	11906	92	58.18	95	2003	90	34.43	18.39	1.10	17.29	0	73.5
Crystal 803 (CommBench)	128	360.9	102	13647	106	62.84	103	2377	107	37.79	18.99	0.94	18.05	0	85.0
Experimental Trial (Comm status)															
BTS 8205	205	352.5	99	13092	101	60.20	98	2231	100	37.69	18.60	0.97	17.62	0	90.1
BTS 8226	208	364.9	103	12703	98	64.15	105	2251	101	35.15	19.15	0.91	18.24	0	81.0
BTS 8242	211	365.6	103	12944	100	64.36	105	2244	101	35.99	19.21	0.93	18.27	0	88.0
BTS 8270	232	353.3	99	13123	102	60.47	99	2256	102	37.17	18.60	0.93	17.66	0	83.0
Crystal 138	238	352.0	99	13190	102	60.06	98	2278	103	37.52	18.56	0.96	17.59	0	86.6
Crystal 260	230	343.7	97	12813	99	57.45	94	2147	97	37.72	18.19	1.00	17.19	0	89.4
Crystal 262	227	347.4	98	13152	102	58.60	96	2225	100	37.76	18.34	0.97	17.37	0	83.4
Crystal 269	229	362.3	102	12610	98	63.30	104	2178	98	35.70	19.15	1.03	18.11	0	78.2
Hilleshög HIL2441**	234	362.2	102	13197	102	63.29	104	2288	103	36.52	19.14	1.03	18.10	0	81.2
Hilleshög HIL2442	204	362.2	102	11854	92	63.27	103	2051	92	33.28	19.21	1.09	18.12	0	79.3
Hilleshög HIL2487 (Maribo MA942)	225	358.8	101	12305	95	62.21	102	2143	96	34.69	18.90	0.96	17.94	0	79.8
Maribo MA943	235	370.0	104	12834	99	65.76	108	2271	102	34.95	19.45	0.95	18.50	0	70.4
Comm Benchmark Mean		355.4		12918		61.14		2222		36.30	18.77	1.00			81.7
Comm Trial Mean		354.5		12954		60.85		2222		36.58	18.69	0.97			84.9
Coeff. of Var. (%)		3.1		4.9		5.6		6.6		4.2	2.7	5.7			8.9
Mean LSD (0.05)		9.7		566		3.02		129		1.39	0.45	0.05			6.6
Mean LSD (0.01)		12.7		746		3.97		170		1.83	0.60	0.07			8.6
Sig Lvl		0.01		0.01		0.01		0.01		0.01	0.01	0.01			0.01

2023 Data from Bathgate ND

Created 10/20/2023

%Bnch = percentage of four commercial benchmark (CommBench) varieties used for approval of second year entries.

* Statistics and trial mean are from Commercial trial including benchmark means. Experimental trial data adjusted to commercial status.

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

++ Number of bolters observed at location.

+ Revenue estimates are based on a \$50.09 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter and Emergence not adjusted to commercial status.