

2022 Performance of Approved RR Varieties - ACSC Official Trials  
9 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		
<b>Commercial Trial</b>															
BTS 8018	120	328.6	101	9656	108	49.38	102	1447	109	29.48	17.54	1.11	16.43	0	76.2
BTS 8034	123	315.1	97	9469	106	45.34	94	1362	103	30.04	17.02	1.27	15.75	0	76.6
BTS 8073	102	326.9	101	9787	109	48.88	101	1461	110	29.99	17.50	1.15	16.35	0	72.7
BTS 8092	116	317.5	98	9722	109	46.04	95	1406	106	30.73	17.01	1.14	15.87	0	73.6
BTS 8629	118	313.5	97	9687	108	44.85	93	1385	105	30.88	16.85	1.18	15.67	0	77.8
BTS 8927	104	338.8	104	9399	105	52.46	109	1452	110	27.81	17.97	1.03	16.94	0	78.9
BTS 8961	117	316.4	97	9478	106	45.73	95	1369	103	29.98	17.02	1.20	15.82	0	76.5
Crystal 022	125	339.2	104	9376	105	52.56	109	1449	109	27.69	18.04	1.08	16.96	1	73.4
Crystal 572	108	335.7	103	9292	104	51.53	107	1424	108	27.70	17.92	1.14	16.78	1	77.9
Crystal 684	122	311.9	96	9945	111	44.38	92	1411	107	31.98	16.83	1.23	15.60	0	75.3
Crystal 793	111	330.6	102	9773	109	49.98	104	1476	112	29.59	17.61	1.08	16.53	0	76.1
Crystal 912	107	312.6	96	10047	112	44.59	92	1433	108	32.17	16.82	1.19	15.63	0	76.1
Crystal 913	103	329.1	101	9702	108	49.53	103	1458	110	29.52	17.58	1.13	16.45	0	75.1
Hilleshög HIL2317	112	326.8	101	9185	103	48.84	101	1371	104	28.14	17.40	1.06	16.34	0	75.1
Hilleshög HIL2320	106	322.8	99	9528	107	47.65	99	1403	106	29.57	17.26	1.12	16.14	0	77.4
Hilleshög HIL2366	119	319.3	98	9263	104	46.59	97	1351	102	29.04	17.08	1.12	15.96	0	77.1
Hilleshög HIL9708	124	322.5	99	9127	102	47.55	99	1342	101	28.41	17.23	1.11	16.12	0	80.0
Hilleshög HIL9920	115	324.5	100	9342	104	48.16	100	1383	104	28.83	17.34	1.12	16.22	0	76.7
Hilleshög HM9528RR	101	319.4	98	9374	105	46.64	97	1368	103	29.39	17.07	1.10	15.97	0	76.7
Maribo MA717	121	318.6	98	9605	107	46.39	96	1397	106	30.19	17.07	1.14	15.93	0	76.0
Maribo MA902	110	321.2	99	8954	100	47.16	98	1310	99	27.95	17.17	1.11	16.06	0	81.9
SV 203	113	322.0	99	8835	99	47.41	98	1296	98	27.53	17.28	1.18	16.10	0	62.8
SV 265	109	318.1	98	9114	102	46.24	96	1321	100	28.71	17.01	1.11	15.90	1	75.3
SV 285	105	322.6	99	8672	97	47.58	99	1276	96	26.95	17.31	1.18	16.13	0	65.3
SX 1898	114	320.4	99	8873	99	46.94	97	1297	98	27.77	17.19	1.17	16.02	0	64.9
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	325.4	100	9207	103	48.43	100	1363	103	28.43	17.44	1.17	16.27	0	75.8
*BTS 8133	215	311.5	96	9787	109	44.28	92	1392	105	31.44	16.77	1.19	15.59	0	80.3
BTS 8156	218	327.5	101	9411	105	49.07	102	1410	107	28.67	17.57	1.20	16.37	0	81.5
Crystal 021	226	317.6	98	9577	107	46.11	96	1390	105	30.14	17.06	1.18	15.89	0	71.1
Crystal 026	240	322.3	99	9691	108	47.52	99	1430	108	30.01	17.30	1.18	16.13	0	77.1
Crystal 130	213	332.3	102	9469	106	50.48	105	1436	108	28.55	17.72	1.11	16.61	0	74.1
Crystal 134	202	340.5	105	9228	103	52.96	110	1430	108	27.18	18.07	1.04	17.03	0	70.1
Crystal 137	201	324.6	100	9381	105	48.22	100	1390	105	28.79	17.46	1.22	16.24	0	73.8
Crystal 138	224	332.5	102	9690	108	50.57	105	1471	111	29.18	17.71	1.08	16.63	0	73.9
Hilleshög HIL2367	242	323.0	99	9226	103	47.72	99	1356	102	28.68	17.30	1.15	16.16	0	74.9
Hilleshög HIL2368	241	329.1	101	7696	86	49.55	103	1154	87	23.60	17.58	1.13	16.45	0	53.7
Hilleshög HIL2386	228	322.3	99	9682	108	47.52	99	1424	108	30.07	17.25	1.13	16.13	1	76.5
Hilleshög HIL2389	239	326.8	101	9431	105	48.85	101	1407	106	28.83	17.47	1.13	16.34	0	75.9
Maribo MA932	230	323.8	100	9532	107	47.95	99	1406	106	29.57	17.33	1.14	16.20	0	75.6
SX 1815	203	328.4	101	9366	105	49.35	102	1403	106	28.58	17.53	1.11	16.42	0	76.3
SX 1818	216	321.4	99	9281	104	47.24	98	1361	103	28.98	17.21	1.15	16.07	0	70.8
Comm Benchmark Mean		324.7		8945		48.23		1324		27.65	17.44	1.20			73.7
Comm Trial Mean		323.0		9344		47.71		1377		29.00	17.30	1.15			75.1
Coeff. of Var. (%)		2.8		6.5		5.6		8.1		5.9	2.3	7.4			11.0
Mean LSD (0.05)		5.2		289		1.56		56		0.84	0.24	0.05			3.2
Mean LSD (0.01)		6.9		380		2.06		74		1.11	0.32	0.06			4.2
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from 9 sites

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed across 9 locations.

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

2022 Performance of Approved RR Varieties - ACSC 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		
<b>Commercial Trial</b>															
BTS 8018	120	343.0	99	8353	104	53.71	98	1302	103	24.47	18.43	1.29	17.14	0	82.5
BTS 8034	123	338.6	98	9234	115	52.38	96	1427	113	27.29	18.24	1.31	16.93	0	78.8
BTS 8073	102	350.3	101	9343	116	55.91	102	1484	117	26.80	18.72	1.21	17.51	0	79.2
BTS 8092	116	341.7	99	9559	119	53.33	98	1494	118	27.92	18.29	1.20	17.09	0	78.4
BTS 8629	118	321.8	93	8708	109	47.35	87	1285	102	26.94	17.38	1.29	16.09	0	81.3
BTS 8927	104	356.7	103	8446	105	57.82	106	1367	108	23.70	19.02	1.19	17.83	0	85.6
BTS 8961	117	336.3	97	9110	114	51.69	95	1401	111	27.10	18.09	1.28	16.81	0	84.8
Crystal 022	125	359.2	104	8450	105	58.57	107	1380	109	23.50	19.25	1.29	17.96	0	73.9
Crystal 572	108	347.2	100	8049	100	54.99	101	1277	101	23.17	18.72	1.35	17.37	0	76.0
Crystal 684	122	331.8	96	9097	113	50.35	92	1384	109	27.35	17.98	1.39	16.59	0	78.8
Crystal 793	111	343.6	99	9071	113	53.90	99	1426	113	26.36	18.42	1.24	17.18	0	85.2
Crystal 912	107	333.3	96	9947	124	50.81	93	1516	120	29.84	17.91	1.24	16.67	0	85.3
Crystal 913	103	348.6	101	9132	114	55.39	101	1448	114	26.25	18.67	1.24	17.43	0	81.8
Hilleshög HIL2317	112	346.3	100	8568	107	54.70	100	1355	107	24.76	18.58	1.27	17.31	0	78.8
Hilleshög HIL2320	106	342.4	99	9200	115	53.53	98	1435	113	26.92	18.42	1.30	17.12	0	86.6
Hilleshög HIL2366	119	340.6	98	8540	106	52.99	97	1324	105	25.18	18.27	1.24	17.03	0	84.3
Hilleshög HM9528RR	101	339.2	98	8664	108	52.58	96	1340	106	25.64	18.24	1.28	16.96	0	78.3
Hilleshög HIL9708	124	344.6	100	8218	102	54.18	99	1290	102	23.91	18.47	1.24	17.23	0	80.7
Hilleshög HIL9920	115	345.5	100	8178	102	54.46	100	1289	102	23.66	18.52	1.25	17.27	0	85.3
Maribo MA717	121	332.6	96	9180	114	50.58	93	1396	110	27.61	17.90	1.27	16.63	0	82.8
Maribo MA902	110	343.6	99	8139	101	53.88	99	1270	100	23.74	18.40	1.23	17.17	0	86.2
SV 203	113	345.3	100	8456	105	54.39	100	1332	105	24.48	18.53	1.26	17.27	0	78.0
SV 265	109	342.4	99	8384	104	53.54	98	1309	103	24.52	18.37	1.25	17.12	0	87.9
SV 285	105	337.4	98	7901	98	52.03	95	1218	96	23.39	18.21	1.34	16.87	0	73.4
SX 1898	114	345.0	100	8183	102	54.31	99	1287	102	23.72	18.49	1.23	17.26	0	74.0
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	345.8	100	8780	109	54.57	100	1372	108	25.67	18.66	1.35	17.31	0	79.8
*BTS 8133	215	332.7	96	9131	114	50.58	93	1372	108	27.77	17.95	1.30	16.65	0	73.5
BTS 8156	218	342.0	99	9016	112	53.40	98	1417	112	26.16	18.47	1.37	17.09	0	81.4
Crystal 021	226	334.5	97	9129	114	51.12	94	1391	110	27.39	18.08	1.34	16.74	0	71.4
Crystal 026	240	340.7	98	8983	112	52.99	97	1402	111	26.29	18.33	1.30	17.03	0	76.2
Crystal 130	213	352.2	102	8450	105	56.49	103	1355	107	23.98	18.86	1.24	17.62	0	72.1
Crystal 134	202	369.5	107	8441	105	61.75	113	1408	111	22.89	19.68	1.21	18.47	0	65.2
Crystal 137	201	345.1	100	9606	120	54.35	100	1539	122	27.30	18.60	1.36	17.24	0	71.6
Crystal 138	224	350.3	101	8912	111	55.91	102	1434	113	25.21	18.76	1.24	17.51	0	70.2
Hilleshög HIL2367	242	350.1	101	7896	98	55.85	102	1264	100	22.48	18.75	1.25	17.49	0	74.9
Hilleshög HIL2368	241	363.6	105	7276	91	59.97	110	1184	94	20.31	19.49	1.29	18.19	0	45.3
Hilleshög HIL2386	228	351.9	102	8476	106	56.41	103	1363	108	23.99	18.80	1.21	17.58	0	75.6
Hilleshög HIL2389	239	344.9	100	8387	105	54.30	99	1315	104	24.41	18.56	1.30	17.25	0	73.9
Maribo MA932	230	354.2	102	9076	113	57.10	105	1468	116	25.55	18.95	1.24	17.71	0	72.2
SX 1815	203	349.5	101	8208	102	55.67	102	1307	103	23.51	18.71	1.22	17.48	0	86.1
SX 1818	216	344.8	100	8736	109	54.26	99	1370	108	25.40	18.49	1.24	17.24	0	73.5
Comm Benchmark Mean		346.0		8026		54.62		1265		23.22	18.64	1.33			75.8
Comm Trial Mean		342.4		8617		53.53		1346		25.20	18.40	1.28			80.5
Coeff. of Var. (%)		2.2		9.4		4.2		10.0		9.3	1.9	5.3			10.8
Mean LSD (0.05)		6.7		708		2.01		117		2.06	0.31	0.06			7.7
Mean LSD (0.01)		8.8		932		2.65		154		2.71	0.41	0.08			10.1
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Casselton ND

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

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Averill 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		
<b>Commercial Trial</b>															
BTS 8018	120	302.1	102	8769	110	41.42	105	1197	112	29.10	16.31	1.21	15.10	0	62.7
BTS 8034	123	286.7	97	8610	108	36.81	93	1107	104	29.95	15.75	1.41	14.34	0	65.4
BTS 8073	102	303.2	103	8872	111	41.77	106	1218	114	29.37	16.39	1.22	15.17	0	65.0
BTS 8092	116	285.1	96	8629	108	36.33	92	1095	103	30.34	15.52	1.26	14.26	0	65.7
BTS 8629	118	288.5	98	8616	108	37.34	94	1116	105	29.77	15.66	1.24	14.42	0	69.9
BTS 8927	104	306.6	104	8673	109	42.79	108	1211	113	28.35	16.52	1.19	15.33	0	71.4
BTS 8961	117	290.5	98	8754	110	37.93	96	1145	107	30.13	15.80	1.28	14.52	0	68.8
Crystal 022	125	314.0	106	8558	107	44.99	114	1225	115	27.20	16.94	1.24	15.70	0	65.2
Crystal 572	108	316.7	107	8041	101	45.80	116	1163	109	25.43	17.08	1.25	15.83	0	71.4
Crystal 684	122	282.9	96	9176	115	35.67	90	1158	108	32.37	15.49	1.35	14.14	0	64.7
Crystal 793	111	297.4	101	8659	108	40.03	101	1161	109	29.19	16.13	1.25	14.88	0	59.8
Crystal 912	107	278.1	94	8856	111	34.22	87	1091	102	31.82	15.26	1.35	13.91	0	66.0
Crystal 913	103	304.5	103	8740	109	42.15	107	1206	113	28.91	16.46	1.23	15.23	0	66.7
Hilleshög HIL2317	112	302.9	102	8285	104	41.67	105	1143	107	27.29	16.32	1.17	15.15	0	71.4
Hilleshög HIL2320	106	293.0	99	8196	103	38.71	98	1076	101	27.99	15.89	1.23	14.66	0	70.6
Hilleshög HIL2366	119	282.2	95	7853	98	35.46	90	988	93	27.89	15.37	1.26	14.11	0	65.2
Hilleshög HM9528RR	101	294.8	100	8246	103	39.25	99	1096	103	27.97	15.95	1.20	14.75	0	66.8
Hilleshög HIL9708	124	300.7	102	8028	101	41.00	104	1091	102	26.77	16.25	1.22	15.03	0	76.2
Hilleshög HIL9920	115	302.0	102	8453	106	41.40	105	1159	109	28.07	16.30	1.20	15.10	0	65.0
Maribo MA717	121	283.1	96	8249	103	35.73	90	1040	97	28.99	15.53	1.38	14.15	0	64.3
Maribo MA902	110	304.4	103	7899	99	42.13	107	1088	102	25.95	16.41	1.19	15.22	0	73.6
SV 203	113	290.9	98	8020	100	38.08	96	1052	99	27.60	15.85	1.31	14.54	0	50.9
SV 265	109	297.6	101	8325	104	40.08	101	1121	105	27.85	16.07	1.18	14.89	0	65.3
SV 285	105	291.9	99	7533	94	38.35	97	989	93	25.88	15.90	1.31	14.59	0	58.8
SX 1898	114	291.8	99	7877	99	38.32	97	1031	97	26.92	15.89	1.31	14.58	0	56.9
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	294.8	100	8351	105	39.26	99	1112	104	28.52	16.07	1.33	14.75	0	67.2
*BTS 8133	215	272.2	92	8926	112	32.70	83	1077	101	32.70	14.99	1.39	13.60	0	70.4
BTS 8156	218	294.5	100	8265	104	39.18	99	1104	103	28.11	16.16	1.44	14.72	0	76.5
Crystal 021	226	274.9	93	8200	103	33.46	85	997	93	30.14	15.19	1.46	13.73	0	59.8
Crystal 026	240	289.6	98	8494	106	37.75	96	1111	104	29.38	15.84	1.36	14.48	0	70.7
Crystal 130	213	301.4	102	8540	107	41.18	104	1165	109	28.48	16.39	1.32	15.07	0	65.8
Crystal 134	202	310.3	105	8195	103	43.74	111	1161	109	26.52	16.73	1.21	15.52	0	60.5
Crystal 137	201	294.3	100	8302	104	39.11	99	1105	103	28.25	16.07	1.36	14.72	0	67.9
Crystal 138	224	307.0	104	8684	109	42.78	108	1214	114	28.42	16.57	1.22	15.35	0	64.9
Hilleshög HIL2367	242	295.3	100	7991	100	39.39	100	1065	100	27.12	16.02	1.25	14.77	0	65.8
Hilleshög HIL2368	241	295.8	100	6554	82	39.53	100	884	83	22.20	16.02	1.23	14.79	0	45.0
Hilleshög HIL2386	228	288.3	97	8183	103	37.34	95	1067	100	28.44	15.74	1.34	14.40	0	70.8
Hilleshög HIL2389	239	299.1	101	8409	105	40.49	102	1144	107	27.91	16.23	1.28	14.95	0	67.0
Maribo MA932	230	293.4	99	8298	104	38.85	98	1103	103	28.48	15.97	1.31	14.66	0	68.7
SX 1815	203	304.2	103	8660	108	41.98	106	1195	112	28.57	16.45	1.24	15.21	0	73.2
SX 1818	216	285.2	96	8376	105	36.44	92	1077	101	29.47	15.58	1.34	14.25	0	59.7
Comm Benchmark Mean		295.7		7982		39.52		1068		27.09	16.12	1.33			64.6
Comm Trial Mean		295.3		8335		39.38		1109		28.27	16.03	1.27			66.1
Coeff. of Var. (%)		3.1		5.8		6.9		8.3		5.3	2.5	6.6			13.5
Mean LSD (0.05)		8.1		411		2.42		80		1.28	0.36	0.08			7.5
Mean LSD (0.01)		10.6		541		3.19		105		1.68	0.47	0.10			9.8
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Averill MN

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

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Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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2022 Performance of Approved RR Varieties - ACSC Official Trials  
Ada 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		
<b>Commercial Trial</b>															
BTS 8018	120	342.1	100	11787	108	53.45	101	1839	108	34.51	18.05	0.95	17.10	0	62.7
BTS 8034	123	335.3	98	11517	106	51.39	97	1767	104	34.31	17.82	1.06	16.76	0	68.9
BTS 8073	102	347.3	102	11905	109	55.00	103	1886	111	34.31	18.32	0.95	17.37	0	61.0
BTS 8092	116	326.0	96	10912	100	48.62	91	1628	96	33.44	17.27	0.97	16.30	0	59.8
BTS 8629	118	332.4	97	11538	106	50.54	95	1752	103	34.71	17.62	1.00	16.62	0	65.5
BTS 8927	104	355.8	104	11746	108	57.56	108	1898	112	33.10	18.66	0.87	17.79	0	67.4
BTS 8961	117	336.8	99	11545	106	51.84	98	1779	105	34.29	17.81	0.97	16.84	0	59.4
Crystal 022	125	351.6	103	11103	102	56.30	106	1777	105	31.58	18.47	0.89	17.58	0	62.0
Crystal 572	108	350.9	103	11143	102	56.08	105	1781	105	31.72	18.52	0.98	17.54	0	63.4
Crystal 684	122	330.5	97	12332	113	49.97	94	1862	110	37.40	17.55	1.02	16.53	0	58.9
Crystal 793	111	336.5	99	11274	103	51.77	97	1735	102	33.54	17.75	0.92	16.83	0	61.2
Crystal 912	107	340.8	100	12407	114	53.04	100	1927	113	36.55	17.94	0.90	17.04	0	62.9
Crystal 913	103	343.1	101	11564	106	53.74	101	1812	107	33.60	18.11	0.95	17.16	0	57.1
Hilleshög HIL2317	112	341.6	100	11753	108	53.28	100	1831	108	34.47	17.96	0.89	17.07	0	55.9
Hilleshög HIL2320	106	338.7	99	11433	105	52.43	99	1768	104	33.83	17.93	1.00	16.93	0	60.0
Hilleshög HIL2366	119	337.9	99	11174	102	52.19	98	1724	101	33.10	17.86	0.97	16.89	0	64.5
Hilleshög HIL9708	124	339.1	99	11447	105	52.55	99	1773	104	33.80	17.85	0.89	16.96	0	71.6
Hilleshög HIL9920	115	330.9	97	11327	104	50.09	94	1717	101	34.13	17.52	0.97	16.55	0	63.3
Hilleshög HM9528RR	101	326.0	96	11063	101	48.59	91	1650	97	33.94	17.25	0.95	16.30	0	62.1
Maribo MA717	121	334.3	98	11614	107	51.11	96	1774	104	34.75	17.66	0.94	16.72	0	62.9
Maribo MA902	110	329.5	97	11074	102	49.66	93	1669	98	33.58	17.40	0.93	16.47	0	72.0
SV 203	113	336.3	99	10159	93	51.71	97	1563	92	30.17	17.77	0.96	16.81	0	44.9
SV 265	109	322.3	94	11085	102	47.49	89	1634	96	34.35	17.02	0.90	16.12	0	47.3
SV 285	105	338.7	99	10091	93	52.41	99	1560	92	29.83	17.91	0.98	16.93	0	43.3
SX 1898	114	335.7	98	10620	97	51.52	97	1632	96	31.65	17.78	0.99	16.79	0	39.6
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	340.7	100	10514	96	53.00	100	1631	96	30.93	18.00	0.96	17.04	0	58.7
*BTS 8133	215	337.1	99	12186	112	51.96	98	1876	110	36.20	17.82	0.97	16.85	0	66.2
BTS 8156	218	350.0	103	11166	102	55.84	105	1781	105	31.90	18.47	0.96	17.50	0	63.6
Crystal 021	226	335.9	98	10277	94	51.58	97	1579	93	30.60	17.69	0.90	16.79	0	46.4
Crystal 026	240	344.6	101	11617	107	54.20	102	1828	108	33.70	18.18	0.95	17.23	0	53.1
Crystal 130	213	355.2	104	11387	104	57.41	108	1840	108	32.06	18.62	0.87	17.75	0	62.1
Crystal 134	202	347.8	102	10713	98	55.19	104	1697	100	30.86	18.28	0.90	17.39	0	54.7
Crystal 137	201	351.0	103	11311	104	56.12	106	1807	106	32.20	18.53	0.98	17.54	0	51.6
Crystal 138	224	346.7	102	11594	106	54.85	103	1835	108	33.46	18.24	0.92	17.33	0	55.2
Hilleshög HIL2367	242	329.7	97	11359	104	49.67	93	1711	101	34.43	17.49	1.00	16.49	0	54.2
Hilleshög HIL2368	241	339.6	100	8469	78	52.67	99	1318	78	24.86	17.97	0.99	16.98	0	31.8
Hilleshög HIL2386	228	327.9	96	11839	109	49.12	92	1778	105	35.95	17.37	0.96	16.40	0	62.9
Hilleshög HIL2389	239	330.2	97	11682	107	49.83	94	1761	104	35.40	17.46	0.95	16.50	0	55.5
Maribo MA932	230	325.4	95	10866	100	48.39	91	1620	95	33.29	17.26	0.98	16.27	0	64.4
SX 1815	203	333.1	98	11210	103	50.73	95	1711	101	33.54	17.73	1.07	16.66	0	56.5
SX 1818	216	343.2	101	11172	102	53.78	101	1750	103	32.51	18.13	0.97	17.16	0	46.8
Comm Benchmark Mean		341.2		10903		53.16		1699		31.95	18.05	1.00			57.9
Comm Trial Mean		337.7		11290		52.13		1742		33.44	17.85	0.96			59.9
Coeff. of Var. (%)		2.8		5.5		5.4		7.1		4.9	2.5	6.6			15.3
Mean LSD (0.05)		8.5		557		2.55		111		1.46	0.40	0.06			8.0
Mean LSD (0.01)		11.2		733		3.36		146		1.93	0.52	0.08			10.5
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Ada MN

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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

2022 Performance of Approved RR Varieties - ACSC 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		
<b>Commercial Trial</b>															
BTS 8018	120	346.2	101	9711	116	54.67	102	1531	117	28.09	18.36	1.05	17.31	0	81.5
BTS 8034	123	325.7	95	9140	109	48.52	90	1358	104	28.22	17.55	1.27	16.28	0	83.3
BTS 8073	102	345.0	101	9444	113	54.31	101	1488	113	27.39	18.36	1.11	17.25	0	79.4
BTS 8092	116	334.7	98	9697	116	51.21	95	1480	113	29.14	17.77	1.03	16.74	0	78.7
BTS 8629	118	321.2	94	9478	113	47.15	88	1398	107	29.25	17.20	1.15	16.05	0	81.8
BTS 8927	104	350.9	102	8875	106	56.10	104	1420	108	25.24	18.57	1.02	17.55	0	84.4
BTS 8961	117	336.9	98	9294	111	51.87	96	1427	109	27.67	17.93	1.08	16.85	0	81.3
Crystal 022	125	359.8	105	9156	109	58.77	109	1493	114	25.42	18.99	1.00	17.99	0	75.3
Crystal 572	108	349.5	102	8802	105	55.66	103	1403	107	25.10	18.64	1.16	17.48	0	81.0
Crystal 684	122	323.4	94	9683	116	47.83	89	1427	109	30.08	17.41	1.23	16.18	0	78.1
Crystal 793	111	351.7	102	9850	118	56.32	105	1578	120	28.07	18.58	0.99	17.59	0	80.5
Crystal 912	107	324.1	94	9639	115	48.05	89	1429	109	29.73	17.41	1.20	16.21	0	79.7
Crystal 913	103	342.5	100	9661	115	53.57	100	1508	115	28.25	18.22	1.10	17.12	0	76.3
Hilleshög HIL2317	112	335.7	98	8710	104	51.52	96	1334	102	25.93	17.79	1.01	16.78	0	84.1
Hilleshög HIL2320	106	341.4	99	9628	115	53.24	99	1497	114	28.34	18.10	1.03	17.07	0	79.2
Hilleshög HIL2366	119	336.5	98	9040	108	51.76	96	1387	106	26.90	17.90	1.07	16.83	0	85.9
Hilleshög HIL9708	124	336.7	98	8618	103	51.82	96	1324	101	25.63	18.03	1.20	16.83	0	86.5
Hilleshög HIL9920	115	334.5	97	8850	106	51.15	95	1350	103	26.55	17.86	1.14	16.72	0	81.5
Hilleshög HM9528RR	101	333.5	97	9136	109	50.85	95	1393	106	27.45	17.73	1.06	16.67	0	83.3
Maribo MA717	121	341.5	99	9558	114	53.26	99	1488	113	28.08	18.11	1.03	17.08	0	80.0
Maribo MA902	110	335.6	98	8402	100	51.48	96	1286	98	25.05	17.94	1.16	16.78	0	88.0
SV 203	113	345.3	101	8735	104	54.40	101	1378	105	25.32	18.35	1.08	17.27	0	73.7
SV 265	109	341.3	99	8967	107	53.21	99	1397	107	26.33	18.16	1.09	17.07	0	82.8
SV 285	105	344.5	100	8689	104	54.15	101	1367	104	25.23	18.32	1.10	17.22	0	75.8
SX 1898	114	337.6	98	8617	103	52.10	97	1330	101	25.55	17.95	1.07	16.88	0	75.5
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	340.2	99	8744	104	52.88	98	1358	104	25.76	18.11	1.09	17.02	0	81.6
*BTS 8133	215	324.2	94	9647	115	48.08	89	1449	110	29.45	17.37	1.15	16.21	0	87.9
BTS 8156	218	346.1	101	9833	117	54.63	102	1554	119	28.26	18.42	1.10	17.32	0	87.1
Crystal 021	226	335.7	98	9601	115	51.53	96	1483	113	27.88	17.89	1.10	16.79	0	81.3
Crystal 026	240	349.9	102	9737	116	55.78	104	1561	119	27.47	18.56	1.06	17.50	0	81.3
Crystal 130	213	354.3	103	9343	112	57.11	106	1516	116	26.28	18.75	1.02	17.73	0	78.9
Crystal 134	202	356.2	104	9184	110	57.67	107	1479	113	25.74	18.85	1.04	17.81	0	76.2
Crystal 137	201	344.4	100	9759	117	54.12	101	1533	117	28.11	18.42	1.20	17.22	0	82.0
Crystal 138	224	348.8	102	9742	116	55.47	103	1560	119	27.69	18.48	1.03	17.45	0	73.4
Hilleshög HIL2367	242	348.0	101	9140	109	55.23	103	1440	110	26.72	18.54	1.13	17.41	0	81.6
Hilleshög HIL2368	241	353.2	103	7652	91	56.80	106	1234	94	22.03	18.71	1.05	17.66	0	58.6
Hilleshög HIL2386	228	348.1	101	9863	118	55.23	103	1559	119	28.42	18.46	1.05	17.41	0	82.0
Hilleshög HIL2389	239	346.4	101	9116	109	54.72	102	1449	110	25.79	18.41	1.09	17.32	0	77.0
Maribo MA932	230	346.1	101	9296	111	54.63	102	1454	111	26.92	18.41	1.11	17.30	0	77.3
SX 1815	203	349.3	102	9020	108	55.61	103	1439	110	25.47	18.52	1.05	17.47	0	77.3
SX 1818	216	336.7	98	9321	111	51.84	96	1427	109	27.43	17.93	1.08	16.85	0	82.8
Comm Benchmark Mean		343.2		8373		53.79		1312		24.40	18.36	1.20			77.7
Comm Trial Mean		339.6		9090		52.70		1408		26.81	18.09	1.11			80.6
Coeff. of Var. (%)		2.7		6.9		5.2		8.0		6.8	2.3	8.5			9.3
Mean LSD (0.05)		8.4		565		2.51		101		1.62	0.38	0.09			6.1
Mean LSD (0.01)		11.0		744		3.31		133		2.13	0.49	0.11			8.0
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Grand Forks ND

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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

2022 Performance of Approved RR Varieties - ACSC 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		
<b>Commercial Trial</b>															
BTS 8018	120	355.7	103	10207	109	57.52	105	1648	112	28.73	18.95	1.16	17.79	0	82.2
BTS 8034	123	352.7	102	10599	114	56.62	103	1694	115	30.21	18.94	1.31	17.63	0	80.8
BTS 8073	102	347.8	100	10501	113	55.16	101	1668	114	30.18	18.77	1.38	17.39	0	74.2
BTS 8092	116	338.3	98	10767	115	52.30	95	1658	113	31.96	18.11	1.20	16.91	0	79.6
BTS 8629	118	338.3	98	10987	118	52.31	95	1693	115	32.56	18.22	1.30	16.92	0	79.8
BTS 8927	104	366.7	106	9835	105	60.83	111	1627	111	26.83	19.45	1.11	18.34	0	78.8
BTS 8961	117	342.3	99	10312	111	53.52	98	1612	110	30.16	18.35	1.23	17.12	0	79.8
Crystal 022	125	359.4	104	9776	105	58.64	107	1587	108	27.39	19.16	1.18	17.98	0	77.6
Crystal 572	108	355.8	103	9940	107	57.56	105	1603	109	27.93	18.95	1.16	17.79	0	81.7
Crystal 684	122	327.8	95	10895	117	49.14	90	1621	110	33.48	17.72	1.33	16.39	0	79.7
Crystal 793	111	349.7	101	10550	113	55.73	102	1685	115	30.02	18.67	1.18	17.49	0	80.5
Crystal 912	107	331.7	96	10980	118	50.33	92	1664	113	33.16	17.92	1.33	16.59	0	78.9
Crystal 913	103	351.1	101	10383	111	56.15	102	1655	113	29.74	18.79	1.24	17.55	0	78.6
Hilleshög HIL2317	112	350.4	101	9616	103	55.94	102	1531	104	27.49	18.67	1.15	17.52	0	73.9
Hilleshög HIL2320	106	349.7	101	10029	108	55.72	102	1594	109	28.70	18.61	1.12	17.49	0	79.3
Hilleshög HIL2366	119	342.3	99	10109	108	53.51	98	1576	107	29.69	18.23	1.12	17.11	0	77.9
Hilleshög HIL9708	124	345.4	100	9075	97	54.42	99	1424	97	26.33	18.44	1.18	17.26	0	78.3
Hilleshög HIL9920	115	338.5	98	9640	103	52.37	95	1486	101	28.60	18.07	1.14	16.93	0	79.9
Hilleshög HM9528RR	101	342.2	99	9961	107	53.48	97	1554	106	29.18	18.26	1.15	17.11	0	79.0
Maribo MA717	121	342.3	99	10201	109	53.50	97	1586	108	30.07	18.22	1.11	17.11	0	76.2
Maribo MA902	110	334.5	96	8799	94	51.17	93	1339	91	26.47	17.88	1.16	16.72	0	82.0
SV 203	113	342.1	99	9714	104	53.45	97	1508	103	28.56	18.26	1.16	17.10	0	67.0
SV 265	109	340.4	98	9949	107	52.94	96	1542	105	29.33	18.20	1.17	17.03	0	84.7
SV 285	105	350.0	101	9316	100	55.80	102	1483	101	26.77	18.71	1.21	17.50	0	75.2
SX 1898	114	334.0	96	9798	105	51.02	93	1496	102	29.40	18.00	1.30	16.70	0	70.3
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	360.3	104	9738	104	59.00	108	1592	108	27.20	19.10	1.12	17.98	0	77.1
*BTS 8133	215	337.8	97	10453	112	52.11	95	1615	110	31.04	18.08	1.20	16.88	0	86.6
BTS 8156	218	366.5	106	9791	105	60.89	111	1631	111	26.36	19.44	1.13	18.31	0	83.9
Crystal 021	226	349.7	101	10516	113	55.77	102	1678	114	29.82	18.58	1.10	17.48	0	77.7
Crystal 026	240	353.2	102	10367	111	56.83	104	1674	114	28.84	18.83	1.16	17.67	0	81.2
Crystal 130	213	357.2	103	10309	111	58.07	106	1688	115	28.77	18.99	1.15	17.84	0	80.8
Crystal 134	202	367.9	106	10021	107	61.35	112	1668	114	27.18	19.35	0.98	18.36	0	74.2
Crystal 137	201	347.7	100	9835	105	55.14	100	1563	106	28.50	18.60	1.24	17.36	0	83.7
Crystal 138	224	364.4	105	10780	116	60.27	110	1769	120	29.59	19.24	1.05	18.20	0	77.3
Hilleshög HIL2367	242	343.2	99	9426	101	53.74	98	1474	100	27.73	18.26	1.12	17.14	0	83.9
Hilleshög HIL2368	241	350.5	101	8107	87	56.02	102	1288	88	23.11	18.62	1.10	17.52	0	67.4
Hilleshög HIL2386	228	353.0	102	10521	113	56.76	103	1696	115	29.62	18.72	1.08	17.64	0	78.9
Hilleshög HIL2389	239	352.6	102	9980	107	56.63	103	1593	108	28.39	18.71	1.10	17.61	0	80.4
Maribo MA932	230	342.5	99	9738	104	53.54	98	1526	104	28.39	18.26	1.15	17.11	0	79.4
SX 1815	203	356.3	103	9893	106	57.76	105	1594	109	27.60	18.92	1.11	17.81	0	83.1
SX 1818	216	335.8	97	9844	106	51.47	94	1510	103	29.51	17.91	1.15	16.76	0	78.0
Comm Benchmark Mean		346.9		9326		54.87		1469		26.99	18.61	1.27			78.3
Comm Trial Mean		345.1		9963		54.35		1563		28.99	18.47	1.21			78.4
Coeff. of Var. (%)		2.5		6.8		4.8		7.8		6.5	2.1	8.2			10.1
Mean LSD (0.05)		7.9		591		2.36		108		1.66	0.36	0.09			6.5
Mean LSD (0.01)		10.4		778		3.11		142		2.18	0.47	0.12			8.6
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Scandia MN

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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

2022 Performance of Approved RR Varieties - ACSC Official Trials  
Alvarado 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		
<b>Commercial Trial</b>															
BTS 8018	120	314.1	101	9018	106	45.03	102	1290	106	28.82	16.79	1.09	15.70	0	84.2
BTS 8034	123	298.4	96	8737	102	40.33	91	1181	97	29.24	16.16	1.24	14.92	0	84.7
BTS 8073	102	315.3	101	9267	109	45.39	103	1328	109	29.29	16.88	1.12	15.76	0	79.6
BTS 8092	116	306.7	98	9158	107	42.80	97	1274	105	29.95	16.51	1.17	15.34	0	75.2
BTS 8629	118	305.4	98	9040	106	42.43	96	1253	103	29.58	16.42	1.15	15.27	0	82.9
BTS 8927	104	322.0	103	8874	104	47.41	107	1306	107	27.59	17.06	0.95	16.11	0	83.4
BTS 8961	117	294.5	95	8483	99	39.14	88	1127	93	28.92	15.92	1.20	14.72	0	83.5
Crystal 022	125	322.3	103	8851	104	47.49	107	1309	108	27.27	17.21	1.11	16.10	0	78.3
Crystal 572	108	325.5	104	8930	105	48.47	109	1326	109	27.42	17.43	1.14	16.29	1	86.6
Crystal 684	122	295.1	95	8807	103	39.33	89	1178	97	29.74	15.98	1.23	14.75	0	84.8
Crystal 793	111	325.8	105	9274	109	48.54	110	1378	113	28.47	17.39	1.10	16.29	0	84.7
Crystal 912	107	299.2	96	9361	110	40.56	92	1265	104	31.34	16.11	1.15	14.96	0	85.4
Crystal 913	103	318.0	102	9081	106	46.19	104	1320	109	28.59	17.07	1.18	15.89	0	84.4
Hilleshög HIL2317	112	315.7	101	8679	102	45.50	103	1251	103	27.51	16.84	1.06	15.78	0	86.4
Hilleshög HIL2320	106	305.8	98	8892	104	42.53	96	1235	102	29.09	16.36	1.07	15.29	0	82.9
Hilleshög HIL2366	119	309.0	99	8818	103	43.51	98	1246	102	28.51	16.55	1.11	15.44	0	86.5
Hilleshög HIL9708	124	310.2	100	8611	101	43.86	99	1205	99	27.92	16.65	1.13	15.52	0	87.1
Hilleshög HIL9920	115	323.1	104	9140	107	47.73	108	1352	111	28.30	17.24	1.08	16.16	0	87.8
Hilleshög HM9528RR	101	311.3	100	9073	106	44.20	100	1295	107	29.20	16.65	1.09	15.56	0	84.8
Maribo MA717	121	301.1	97	8845	104	41.13	93	1204	99	29.18	16.27	1.22	15.05	0	83.1
Maribo MA902	110	311.2	100	8799	103	44.15	100	1246	102	28.22	16.69	1.13	15.56	0	90.1
SV 203	113	310.1	100	8070	95	43.85	99	1137	94	26.09	16.78	1.26	15.52	0	59.7
SV 265	109	313.4	101	8506	100	44.82	101	1218	100	27.20	16.75	1.08	15.67	1	78.0
SV 285	105	312.7	100	8373	98	44.62	101	1193	98	26.71	16.85	1.22	15.63	0	62.1
SX 1898	114	311.3	100	8477	99	44.19	100	1200	99	27.44	16.76	1.19	15.57	0	67.9
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	310.7	100	9054	106	43.99	99	1287	106	29.18	16.72	1.20	15.53	0	87.6
*BTS 8133	215	303.1	97	9019	106	41.69	94	1247	103	29.76	16.32	1.20	15.12	0	91.0
BTS 8156	218	321.6	103	8837	104	47.35	107	1306	107	27.54	17.22	1.14	16.08	0	87.4
Crystal 021	226	303.0	97	9205	108	41.67	94	1273	105	30.39	16.32	1.19	15.13	0	85.2
Crystal 026	240	308.5	99	8737	102	43.35	98	1232	101	28.34	16.60	1.20	15.41	0	85.1
Crystal 130	213	322.2	103	9167	107	47.52	107	1359	112	28.47	17.16	1.06	16.10	0	84.9
Crystal 134	202	327.9	105	8524	100	49.27	111	1288	106	26.00	17.49	1.08	16.41	0	77.5
Crystal 137	201	313.4	101	8335	98	44.83	101	1196	98	26.63	16.81	1.18	15.63	0	84.6
Crystal 138	224	320.9	103	8892	104	47.13	106	1311	108	27.74	17.12	1.07	16.05	0	88.5
Hilleshög HIL2367	242	314.5	101	8112	95	45.17	102	1171	96	25.81	16.80	1.10	15.69	0	82.2
Hilleshög HIL2368	241	318.0	102	7142	84	46.21	104	1043	86	22.48	17.02	1.14	15.88	0	63.5
Hilleshög HIL2386	228	319.2	102	8973	105	46.58	105	1318	108	28.11	17.07	1.13	15.94	0	86.0
Hilleshög HIL2389	239	319.2	102	8536	100	46.59	105	1253	103	26.77	17.04	1.09	15.95	0	89.4
Maribo MA932	230	317.5	102	9126	107	46.07	104	1332	110	28.75	16.93	1.07	15.86	0	87.0
SX 1815	203	321.5	103	9047	106	47.32	107	1340	110	28.13	17.13	1.06	16.07	0	81.2
SX 1818	216	323.1	104	8948	105	47.81	108	1332	110	27.69	17.31	1.16	16.15	0	75.5
Comm Benchmark Mean		311.6		8534		44.27		1216		27.48	16.74	1.17			82.7
Comm Trial Mean		310.8		8788		44.04		1244		28.30	16.68	1.14			82.1
Coeff. of Var. (%)		2.5		5.8		5.3		7.8		4.9	2.1	7.6			8.6
Mean LSD (0.05)		7.0		435		2.10		84		1.21	0.32	0.08			6.0
Mean LSD (0.01)		9.2		573		2.77		110		1.60	0.42	0.10			7.9
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Alvarado MN

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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

2022 Performance of Approved RR Varieties - ACSC 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		
<b>Commercial Trial</b>															
BTS 8018	120	319.0	107	9433	109	46.50	115	1374	117	29.70	16.78	0.83	15.95	0	80.2
BTS 8034	123	285.6	96	7571	87	36.46	90	966	83	26.45	15.27	0.99	14.28	0	76.8
BTS 8073	102	307.0	103	8840	102	42.90	106	1237	106	28.75	16.25	0.89	15.36	0	77.4
BTS 8092	116	302.8	102	8961	103	41.63	103	1229	105	29.68	15.96	0.82	15.14	0	78.4
BTS 8629	118	287.2	96	8883	102	36.95	92	1140	97	30.95	15.28	0.92	14.36	0	85.4
BTS 8927	104	312.3	105	8859	102	44.50	110	1266	108	28.28	16.42	0.80	15.62	0	80.2
BTS 8961	117	289.1	97	8206	94	37.54	93	1059	90	28.46	15.41	0.95	14.46	0	80.0
Crystal 022	125	318.4	107	8832	102	46.33	115	1283	110	27.79	16.73	0.81	15.92	0	76.6
Crystal 572	108	315.5	106	9242	106	45.44	113	1329	114	29.30	16.62	0.85	15.77	0	78.7
Crystal 684	122	296.4	99	9479	109	39.72	99	1268	108	32.05	15.75	0.93	14.82	0	76.6
Crystal 793	111	306.1	103	9156	105	42.62	106	1274	109	29.84	16.16	0.85	15.31	0	78.9
Crystal 912	107	297.4	100	9268	107	40.03	99	1248	107	31.13	15.71	0.84	14.87	0	78.4
Crystal 913	103	308.0	103	9246	106	43.20	107	1295	111	30.09	16.23	0.84	15.39	0	76.0
Hilleshög HIL2317	112	302.2	101	7985	92	41.47	103	1094	93	26.43	15.90	0.79	15.11	0	75.3
Hilleshög HIL2320	106	303.4	102	8747	101	41.81	104	1202	103	28.93	16.01	0.84	15.17	0	79.2
Hilleshög HIL2366	119	301.1	101	8421	97	41.13	102	1151	98	28.01	15.87	0.81	15.06	0	81.0
Hilleshög HIL9708	124	302.7	101	8490	98	41.61	103	1165	100	28.06	15.91	0.78	15.13	0	82.3
Hilleshög HIL9920	115	306.1	103	8615	99	42.64	106	1197	102	28.18	16.18	0.87	15.31	0	75.0
Hilleshög HM9528RR	101	298.0	100	8582	99	40.19	100	1158	99	28.72	15.74	0.84	14.90	0	78.1
Maribo MA717	121	312.4	105	8871	102	44.52	110	1263	108	28.38	16.47	0.85	15.62	0	78.4
Maribo MA902	110	309.1	104	8642	99	43.53	108	1218	104	27.92	16.26	0.80	15.46	0	81.3
SV 203	113	302.5	101	8041	93	41.55	103	1103	94	26.68	16.07	0.95	15.12	0	69.5
SV 265	109	296.9	100	8611	99	39.86	99	1157	99	29.00	15.68	0.84	14.84	0	81.5
SV 285	105	300.8	101	8110	93	41.04	102	1104	94	26.94	15.99	0.95	15.04	0	74.0
SX 1898	114	294.5	99	7960	92	39.15	97	1055	90	27.16	15.72	1.00	14.72	0	74.0
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	296.4	99	8357	96	39.75	99	1113	95	28.25	15.76	0.95	14.81	0	82.3
*BTS 8133	215	270.4	91	8158	94	32.37	80	975	83	30.22	14.51	1.00	13.51	0	86.6
BTS 8156	218	281.3	94	7483	86	35.46	88	940	80	26.77	15.12	1.09	14.03	0	89.4
Crystal 021	226	294.7	99	9083	105	39.29	97	1204	103	30.88	15.64	0.88	14.75	0	76.6
Crystal 026	240	283.0	95	8441	97	35.95	89	1063	91	30.11	15.06	0.92	14.15	0	88.4
Crystal 130	213	308.9	104	8985	103	43.31	107	1253	107	29.28	16.31	0.87	15.43	0	75.3
Crystal 134	202	313.5	105	8517	98	44.63	111	1203	103	27.35	16.48	0.80	15.68	0	76.8
Crystal 137	201	286.3	96	7479	86	36.87	91	952	81	26.45	15.34	1.04	14.30	0	81.6
Crystal 138	224	303.2	102	8799	101	41.70	103	1201	103	29.11	16.03	0.86	15.17	0	81.4
Hilleshög HIL2367	242	309.3	104	9443	109	43.44	108	1320	113	30.66	16.30	0.82	15.47	0	81.2
Hilleshög HIL2368	241	307.0	103	6675	77	42.76	106	929	79	21.89	16.22	0.88	15.34	0	60.8
Hilleshög HIL2386	228	297.0	100	8952	103	39.92	99	1198	102	30.40	15.67	0.83	14.84	0	81.3
Hilleshög HIL2389	239	302.3	101	8752	101	41.44	103	1200	103	28.92	15.94	0.83	15.11	0	82.9
Maribo MA932	230	311.4	104	9060	104	44.02	109	1277	109	29.23	16.42	0.86	15.56	0	83.3
SX 1815	203	299.0	100	9244	106	40.50	100	1251	107	31.02	15.84	0.88	14.95	0	84.8
SX 1818	216	289.7	97	7930	91	37.85	94	1036	89	27.47	15.34	0.86	14.48	0	79.4
Comm Benchmark Mean		298.3		8691		40.30		1170		29.21	15.83	0.91			78.5
Comm Trial Mean		302.3		8721		41.49		1195		28.89	15.99	0.87			78.2
Coeff. of Var. (%)		2.5		6.3		5.5		8.1		5.6	2.3	5.5			10.9
Mean LSD (0.05)		6.9		487		2.08		87		1.43	0.33	0.04			6.9
Mean LSD (0.01)		9.1		642		2.74		114		1.88	0.43	0.06			9.1
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from St. Thomas ND

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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



2022 Performance of Approved RR Varieties - ACSC Official Trials  
Hallock 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		
<b>Commercial Trial</b>															
BTS 8018	120	328.3	98	9469	103	49.29	95	1418	100	28.84	17.72	1.30	16.42	0	82.6
BTS 8034	123	324.4	96	9857	107	48.14	93	1467	104	30.37	17.60	1.37	16.23	0	85.9
BTS 8073	102	334.4	99	9959	108	51.11	99	1514	107	29.40	17.85	1.13	16.72	0	82.8
BTS 8092	116	334.5	99	9940	108	51.15	99	1516	107	29.99	17.97	1.25	16.72	0	82.9
BTS 8629	118	336.7	100	10054	109	51.81	100	1550	109	30.13	18.12	1.30	16.82	0	86.7
BTS 8927	104	353.3	105	9347	102	56.80	110	1502	106	26.58	18.74	1.08	17.66	0	87.2
BTS 8961	117	326.3	97	9895	107	48.70	94	1476	104	30.30	17.72	1.40	16.32	0	86.8
Crystal 022	125	344.5	102	9506	103	54.16	105	1491	105	27.35	18.30	1.07	17.23	1	83.3
Crystal 572	108	345.5	103	9436	102	54.45	105	1491	105	27.41	18.38	1.11	17.27	0	89.5
Crystal 684	122	329.9	98	9907	108	49.77	96	1491	105	30.14	17.80	1.31	16.49	0	83.3
Crystal 793	111	343.8	102	9880	107	53.94	104	1546	109	28.72	18.25	1.06	17.19	0	83.8
Crystal 912	107	319.4	95	9974	108	46.62	90	1456	103	31.23	17.29	1.33	15.96	0	84.8
Crystal 913	103	337.1	100	9531	104	51.95	100	1466	104	28.09	18.03	1.15	16.88	0	89.1
Hilleshög HIL2317	112	343.0	102	9323	101	53.72	104	1464	103	27.43	18.19	1.05	17.14	0	82.6
Hilleshög HIL2320	106	323.3	96	9676	105	47.80	92	1427	101	30.03	17.42	1.26	16.16	0	86.8
Hilleshög HIL2366	119	326.8	97	9704	105	48.85	94	1450	102	29.81	17.53	1.19	16.34	0	82.8
Hilleshög HIL9708	124	322.2	96	9913	108	47.45	92	1463	103	30.73	17.33	1.21	16.12	0	88.9
Hilleshög HIL9920	115	339.7	101	9952	108	52.74	102	1545	109	29.11	18.18	1.18	17.00	0	84.1
Hilleshög HM9528RR	101	320.3	95	9710	105	46.90	91	1423	101	30.62	17.17	1.16	16.01	0	87.2
Maribo MA717	121	320.8	95	10112	110	47.03	91	1481	105	31.51	17.27	1.24	16.03	0	86.3
Maribo MA902	110	321.7	96	9461	103	47.31	91	1394	98	29.30	17.29	1.19	16.10	0	92.2
SV 203	113	333.9	99	9183	100	50.97	99	1399	99	27.41	17.93	1.23	16.70	0	71.3
SV 265	109	317.5	94	8845	96	46.04	89	1284	91	27.78	17.04	1.16	15.88	0	87.0
SV 285	105	331.9	99	8885	97	50.37	97	1350	95	26.66	17.81	1.22	16.59	0	70.0
SX 1898	114	343.5	102	9407	102	53.85	104	1475	104	27.51	18.30	1.14	17.16	0	73.3
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	333.1	99	9259	101	50.75	98	1412	100	27.72	17.99	1.32	16.68	0	83.4
*BTS 8133	215	331.1	98	10396	113	50.16	97	1579	112	31.21	17.90	1.34	16.57	0	90.1
BTS 8156	218	336.9	100	9977	108	51.89	100	1540	109	29.38	18.15	1.27	16.88	0	88.1
Crystal 021	226	329.1	98	9645	105	49.57	96	1459	103	29.08	17.82	1.37	16.46	0	81.0
Crystal 026	240	327.3	97	10319	112	49.04	95	1551	110	31.29	17.83	1.46	16.37	0	88.6
Crystal 130	213	334.7	99	9476	103	51.21	99	1447	102	28.23	17.97	1.19	16.78	0	85.8
Crystal 134	202	347.8	103	9283	101	55.11	107	1470	104	26.66	18.56	1.13	17.43	0	80.4
Crystal 137	201	339.1	101	9284	101	52.54	102	1439	102	27.28	18.30	1.33	16.97	0	83.4
Crystal 138	224	333.1	99	9562	104	50.74	98	1459	103	28.64	17.87	1.20	16.67	0	89.6
Hilleshög HIL2367	242	314.6	94	9741	106	45.27	88	1402	99	30.92	17.16	1.45	15.71	0	83.6
Hilleshög HIL2368	241	316.3	94	8871	96	45.80	89	1293	91	27.87	17.09	1.28	15.81	0	72.7
Hilleshög HIL2386	228	308.4	92	9710	105	43.46	84	1372	97	31.30	16.77	1.33	15.45	0	84.4
Hilleshög HIL2389	239	344.3	102	9783	106	54.07	105	1537	109	28.36	18.42	1.19	17.23	0	84.8
Maribo MA932	230	319.9	95	9936	108	46.82	91	1454	103	31.05	17.34	1.35	15.99	0	82.6
SX 1815	203	331.5	99	9161	100	50.29	97	1393	98	27.51	17.86	1.28	16.58	0	83.8
SX 1818	216	334.7	99	9630	105	51.21	99	1478	104	28.69	17.97	1.22	16.75	0	82.5
Comm Benchmark Mean		336.4		9206		51.72		1416		27.34	18.12	1.31			82.2
Comm Trial Mean		332.9		9560		50.69		1454		28.75	17.87	1.22			84.2
Coeff. of Var. (%)		3.3		5.7		6.4		7.9		4.7	2.7	8.5			8.2
Mean LSD (0.05)		9.8		460		2.94		101		1.16	0.44	0.09			5.7
Mean LSD (0.01)		12.9		605		3.87		133		1.53	0.58	0.12			7.5
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Hallock MN

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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

2022 Performance of Approved RR Varieties - ACSC 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		
<b>Commercial Trial</b>															
BTS 8018	120	306.0	101	10143	108	42.60	102	1413	109	33.13	16.45	1.15	15.30	0	65.3
BTS 8034	123	289.3	96	9952	106	37.59	90	1294	100	34.31	15.89	1.42	14.47	0	65.4
BTS 8073	102	291.9	96	10112	107	38.36	92	1331	103	34.56	15.92	1.32	14.60	0	54.7
BTS 8092	116	288.9	95	9883	105	37.47	90	1281	99	34.24	15.77	1.32	14.45	0	62.6
BTS 8629	118	288.5	95	9802	104	37.36	90	1268	98	34.04	15.74	1.32	14.42	0	68.4
BTS 8927	104	325.2	107	9958	106	48.38	116	1484	115	30.63	17.35	1.08	16.27	0	72.4
BTS 8961	117	295.6	98	9668	103	39.49	95	1290	100	32.75	16.15	1.38	14.77	0	64.4
Crystal 022	125	322.3	107	10215	108	47.50	114	1508	117	31.67	17.24	1.13	16.11	0	66.2
Crystal 572	108	314.6	104	10022	106	45.18	109	1440	111	31.76	16.96	1.23	15.73	0	72.0
Crystal 684	122	290.7	96	10209	108	38.00	91	1333	103	35.25	15.81	1.27	14.54	0	73.2
Crystal 793	111	319.9	106	10261	109	46.78	113	1498	116	32.15	17.12	1.12	16.00	0	71.3
Crystal 912	107	289.8	96	10100	107	37.73	91	1318	102	34.74	15.89	1.40	14.49	0	65.9
Crystal 913	103	308.6	102	9952	106	43.38	104	1400	108	32.16	16.66	1.23	15.43	0	63.9
Hilleshög HIL2317	112	302.7	100	9619	102	41.61	100	1322	102	31.90	16.28	1.15	15.13	0	67.6
Hilleshög HIL2320	106	308.0	102	9928	105	43.20	104	1395	108	32.19	16.59	1.18	15.41	0	71.2
Hilleshög HIL2366	119	296.7	98	9579	102	39.82	96	1290	100	32.07	16.12	1.29	14.83	0	67.9
Hilleshög HIL9708	124	301.3	100	9775	104	41.19	99	1338	104	32.43	16.20	1.14	15.06	0	69.7
Hilleshög HIL9920	115	300.2	99	9823	104	40.85	98	1338	104	32.73	16.23	1.22	15.01	0	68.8
Hilleshög HM9528RR	101	309.7	102	9822	104	43.70	105	1382	107	31.81	16.62	1.15	15.47	0	71.0
Maribo MA717	121	300.6	99	10007	106	40.98	99	1367	106	33.16	16.23	1.21	15.02	0	69.7
Maribo MA902	110	299.8	99	9412	100	40.75	98	1276	99	31.50	16.19	1.20	14.99	0	72.0
SV 203	113	292.2	97	9166	97	38.46	93	1204	93	31.37	16.03	1.42	14.61	0	50.4
SV 265	109	292.1	97	9338	99	38.43	92	1227	95	31.98	15.89	1.28	14.61	0	64.7
SV 285	105	295.1	98	9191	98	39.34	95	1225	95	31.21	16.02	1.26	14.76	0	54.4
SX 1898	114	291.1	96	8950	95	38.14	92	1172	91	30.72	15.86	1.30	14.56	0	51.2
<b>Experimental Trial (Comm status)</b>															
BTS 8100	208	303.2	100	9776	104	41.76	100	1353	105	32.08	16.42	1.26	15.16	0	66.9
*BTS 8133	215	295.9	98	10161	108	39.57	95	1364	106	34.45	16.01	1.22	14.79	0	73.1
BTS 8156	218	309.3	102	10202	108	43.60	105	1438	111	33.14	16.73	1.26	15.47	0	75.3
Crystal 021	226	295.8	98	10307	109	39.56	95	1388	107	34.59	16.13	1.30	14.83	0	60.9
Crystal 026	240	302.4	100	10512	112	41.51	100	1450	112	34.59	16.40	1.27	15.13	0	70.5
Crystal 130	213	303.3	100	9405	100	41.77	100	1305	101	30.94	16.44	1.24	15.20	0	60.5
Crystal 134	202	323.3	107	10029	106	47.73	115	1483	115	30.93	17.23	1.09	16.14	0	63.0
Crystal 137	201	309.7	102	10219	109	43.71	105	1435	111	33.28	16.75	1.29	15.46	0	58.7
Crystal 138	224	315.6	104	10219	109	45.47	109	1474	114	32.44	16.96	1.16	15.80	0	63.2
Hilleshög HIL2367	242	304.3	101	9714	103	42.08	101	1343	104	32.09	16.42	1.21	15.21	0	68.2
Hilleshög HIL2368	241	312.4	103	8511	90	44.50	107	1211	94	27.49	16.82	1.22	15.60	0	37.3
Hilleshög HIL2386	228	309.0	102	10524	112	43.50	105	1483	115	34.24	16.68	1.22	15.46	1	65.9
Hilleshög HIL2389	239	301.6	100	10142	108	41.29	99	1386	107	33.80	16.37	1.30	15.07	0	71.7
Maribo MA932	230	298.4	99	10010	106	40.32	97	1357	105	33.66	16.17	1.23	14.94	0	67.1
SX 1815	203	305.6	101	9766	104	42.47	102	1359	105	31.89	16.40	1.09	15.31	0	62.5
SX 1818	216	293.4	97	9527	101	38.83	93	1265	98	32.35	15.96	1.28	14.68	0	58.2
Comm Benchmark Mean		302.6		9418		41.58		1292		31.15	16.44	1.32			66.0
Comm Trial Mean		301.1		9734		41.12		1328		32.36	16.31	1.26			66.1
Coeff. of Var. (%)		3.0		5.4		6.6		7.7		5.0	2.4	7.5			13.8
Mean LSD (0.05)		8.2		473		2.45		92		1.38	0.36	0.09			7.6
Mean LSD (0.01)		10.8		623		3.23		121		1.82	0.47	0.11			10.0
Sig Lvl		**		**		**		**		**	**	**			**

2022 Data from Bathgate ND

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

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

+ Revenue estimates are based on a \$46.80 beet payment at 17.5% sugar & 1.5% loss to molasses and do not consider hauling costs.

Bolter & Emergence not adjusted to commercial status.

++ Number of bolters observed at location.

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