

## 2019 Performance of Approved RR Varieties - ACSC Official Trials

7 sites

Description @	Code	Rec/T lbs.	Rec/T %Bnch	Rec/A lbs.	Rec/A %Bnch	Loss Mol %	Rev/T \$ ++	Rev/T %Bnch	Rev/A \$ ++	Rev/A %Bnch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerg. %
<b>Commercial Trial</b>																	
BTS 8337		130 326.6	101	10204	102	1.00	46.23	103	1442	103	17.34	31.31	190	1520	306	0	68.8
BTS 8500		122 310.9	96	10588	106	1.09	41.85	93	1418	102	16.64	34.24	216	1629	334	0	65.3
BTS 8524		127 304.0	94	10742	107	1.08	39.93	89	1408	101	16.28	35.40	226	1655	311	0	69.5
BTS 8606		132 315.9	98	10275	103	1.02	43.24	96	1404	101	16.82	32.57	212	1553	303	0	63.4
BTS 8629		115 309.0	96	10814	108	1.07	41.33	92	1445	104	16.52	34.99	234	1461	353	0	65.4
BTS 8735		123 311.8	97	10500	105	0.99	42.11	94	1413	101	16.58	33.81	208	1393	319	0	62.7
BTS 8749		118 317.8	99	10122	101	1.10	43.77	97	1393	100	16.99	31.86	221	1637	338	3	56.7
BTS 8767		129 317.4	99	10546	105	1.03	43.65	97	1447	104	16.90	33.29	206	1560	310	0	68.0
BTS 8784		108 327.3	102	9923	99	0.98	46.43	103	1409	101	17.35	30.33	170	1449	312	0	54.0
Crystal 093RR		110 324.8	101	10460	104	1.02	45.71	102	1470	105	17.26	32.25	170	1551	316	0	71.8
Crystal 247RR		121 311.9	97	9838	98	0.98	42.12	94	1330	95	16.57	31.52	220	1577	261	0	67.1
Crystal 355RR		119 325.2	101	9413	94	1.05	45.84	102	1321	95	17.31	29.04	190	1583	326	0	72.1
Crystal 572RR		124 331.7	103	10286	103	0.97	47.63	106	1476	106	17.55	31.03	164	1446	309	0	69.3
Crystal 574RR		104 313.3	97	10623	106	1.06	42.50	94	1436	103	16.72	34.00	207	1592	320	0	71.5
Crystal 578RR		103 314.3	98	10420	104	1.03	42.81	95	1417	102	16.75	33.18	218	1579	299	0	71.6
Crystal 684RR		133 310.3	96	10675	107	1.07	41.68	93	1429	102	16.58	34.50	227	1620	314	0	64.4
Crystal 793RR		111 325.5	101	11046	110	0.93	45.92	102	1555	112	17.21	34.00	182	1414	282	0	63.8
Crystal 796RR		243 315.0	98	11210	112	1.01	42.94	95	1530	110	16.77	35.56	202	1558	295	0	78.4
Hilleshög HM4302RR		101 311.3	97	9439	94	1.00	41.96	93	1271	91	16.57	30.34	237	1598	265	0	56.0
Hilleshög HM4448RR		109 315.5	98	10659	106	0.98	43.13	96	1455	104	16.75	33.82	190	1464	299	3	69.2
Hilleshög HM9528RR		112 317.7	99	10587	106	0.96	43.73	97	1455	104	16.85	33.38	202	1478	281	0	65.7
Hilleshög HIL9708		105 316.3	98	10459	104	0.98	43.37	96	1433	103	16.80	33.05	221	1466	289	0	71.7
Hilleshög HIL9920		106 325.2	101	10172	102	0.97	45.83	102	1430	103	17.23	31.34	195	1537	276	0	69.6
Maribo MA109		120 326.2	101	9339	93	0.97	46.11	102	1321	95	17.28	28.59	197	1509	279	0	52.0
Maribo MA504		113 307.1	95	10694	107	1.00	40.79	91	1420	102	16.35	34.83	232	1470	296	0	69.1
Maribo MA717		126 319.8	99	10682	107	0.99	44.33	99	1476	106	16.98	33.50	196	1478	301	0	69.5
SX Bronco RR		128 321.8	100	10119	101	1.02	44.88	100	1415	101	17.11	31.40	217	1553	296	0	58.1
SX Canyon RR		102 319.0	99	10396	104	0.99	44.10	98	1434	103	16.94	32.66	181	1491	304	0	67.5
SX Marathon RR		125 318.2	99	10028	100	0.99	43.87	97	1380	99	16.90	31.60	195	1527	291	0	55.3
SV RR265		131 319.7	99	10280	103	0.96	44.31	98	1422	102	16.94	32.21	189	1520	270	0	62.6
SV RR268		116 319.8	99	10166	102	0.97	44.33	99	1408	101	16.96	31.86	185	1515	283	0	63.4
SV RR333		117 322.9	100	10086	101	0.96	45.19	100	1408	101	17.10	31.31	176	1493	280	0	69.7
SV RR351		107 320.6	100	10132	101	0.99	44.56	99	1401	100	17.02	31.76	187	1511	297	0	65.4
SV RR371		114 320.6	100	9920	99	0.95	44.55	99	1377	99	16.98	30.96	181	1518	268	0	55.5
<b>Experimental Trial (Comm status)</b>																	
BTS 8815		202 325.5	101	10338	103	0.98	45.96	102	1458	105	17.27	31.77	196	1604	271	0	66.9
BTS 8882		228 316.0	98	10550	105	1.07	43.24	96	1445	104	16.88	33.33	219	1638	313	0	57.8
Crystal 803RR		227 329.5	102	10472	105	0.96	47.10	105	1493	107	17.45	31.85	172	1454	302	0	76.3
Crystal 804RR		237 319.2	99	10684	107	1.03	44.15	98	1472	106	16.99	33.58	206	1560	311	0	61.7
Crystal 808RR		240 315.4	98	10711	107	1.05	43.05	96	1456	104	16.83	34.07	232	1570	317	0	73.1
SX 1887		238 326.6	101	10046	100	0.97	46.26	103	1421	102	17.31	30.78	180	1520	291	0	61.8
SX 1888		236 323.2	100	10543	105	0.96	45.30	101	1475	106	17.13	32.64	179	1484	291	0	61.1
SV 285		241 324.2	101	10125	101	0.97	45.58	101	1422	102	17.19	31.25	199	1518	282	0	59.1
SV 289		223 324.2	101	9838	98	0.96	45.57	101	1376	99	17.18	30.51	182	1503	282	0	53.6
SV RR375		204 323.6	100	10195	102	0.95	45.40	101	1431	103	17.13	31.50	176	1500	282	0	63.1
Comm Benchmark Mean		322.2		10011		1.05	45.00		1394		17.16	31.15	202	1585	320		64.7
Trial Mean		317.5		10226		1.01	43.70		1404		16.89	32.27	203	1533	301		64.0
Coeff. of Var. (%)		2.9		5.6		9.3	5.8		7.6		2.5	4.8	17.6	4.6	20.1		11.8
Mean LSD (0.05)		5.8		488		0.05	1.61		82		0.27	1.38	25	47	33		4.2
Mean LSD (0.01)		7.6		644		0.07	2.12		108		0.35	1.82	33	62	43		5.5
Sig Lvl		**		**		**	**		**		**	**	**	**	**		**

\* 2019 Data from 7 sites

Bolters based upon 60,000 seed per acre.

Created 11/22/2019

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 19ACSEXPB

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved RR Varieties - ACSC Official Trials

### Casselton ND

Description @	Rec/T Code	Rec/T lbs.	Rec/T %Bnch	Rec/A lbs.	Rec/A %Bnch	Loss Mol %	Rev/T \$ ++	Rev/T %Bnch	Rev/A \$ ++	Rev/A %Bnch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerge. %
<b>Commercial Trial</b>																	
BTS 8337	130	294.4	102	10032	101	1.35	37.26	105	1268	103	16.08	34.12	220	1776	496	0	66.4
BTS 8500	122	269.3	93	10518	105	1.44	30.27	85	1181	96	14.91	39.13	253	1971	501	0	62.7
BTS 8524	127	273.0	95	10701	107	1.39	31.29	88	1228	100	15.04	39.21	256	1955	463	0	66.8
BTS 8606	132	284.1	99	10021	100	1.26	34.39	97	1212	99	15.47	35.28	252	1860	391	0	58.9
BTS 8629	115	262.3	91	9729	98	1.50	28.31	80	1047	85	14.61	37.22	296	1812	575	0	65.1
BTS 8735	123	280.4	97	10379	104	1.29	33.36	94	1235	101	15.31	37.02	233	1624	483	0	64.1
BTS 8749	118	283.0	98	10426	105	1.37	34.07	96	1255	102	15.53	36.76	227	1933	467	0	59.4
BTS 8767	129	277.8	96	10443	105	1.34	32.62	92	1224	100	15.23	37.65	266	1845	455	0	67.0
BTS 8784	108	298.0	103	10434	105	1.26	38.26	108	1343	109	16.15	34.94	195	1689	456	0	56.4
Crystal 093RR	110	283.0	98	9579	96	1.42	34.09	96	1157	94	15.57	33.78	216	1878	522	0	67.8
Crystal 247RR	121	271.5	94	9484	95	1.34	30.87	87	1078	88	14.91	34.87	300	1950	407	0	64.1
Crystal 355RR	119	292.2	101	9681	97	1.32	36.64	103	1210	98	15.93	33.28	226	1824	456	0	67.4
Crystal 572RR	124	295.6	102	9975	100	1.31	37.60	106	1268	103	16.09	33.80	191	1759	476	0	66.1
Crystal 574RR	104	273.4	95	10547	106	1.38	31.41	88	1210	98	15.05	38.64	240	1899	474	0	62.8
Crystal 578RR	103	283.6	98	9923	99	1.27	34.25	96	1198	98	15.45	35.01	271	1868	386	0	68.9
Crystal 684RR	133	270.2	94	10704	107	1.43	30.50	86	1214	99	14.94	39.42	272	1928	495	0	58.1
Crystal 793RR	111	294.2	102	11196	112	1.23	37.19	104	1416	115	15.94	38.17	216	1742	414	0	61.1
Crystal 796RR	243	289.0	100	10369	104	1.19	35.77	100	1284	105	15.65	35.85	218	1827	363	0	69.8
Hilleshög HM4302RR	101	272.7	95	8737	88	1.34	31.22	88	1006	82	14.97	31.84	287	1932	415	0	54.7
Hilleshög HM4448RR	109	267.2	93	8878	89	1.36	29.68	83	985	80	14.73	33.27	271	1766	488	0	63.8
Hilleshög HM9528RR	112	279.5	97	9733	98	1.30	33.10	93	1155	94	15.28	34.70	249	1770	446	0	58.8
Hilleshög HIL9708	105	275.1	95	8994	90	1.28	31.88	90	1043	85	15.03	32.52	262	1708	443	0	67.1
Hilleshög HIL9920	106	281.2	97	9383	94	1.29	33.59	94	1119	91	15.35	33.40	255	1837	419	0	62.7
Maribo MA109	120	289.3	100	8807	88	1.32	35.84	101	1092	89	15.79	30.39	257	1820	449	0	45.0
Maribo MA504	113	262.1	91	9177	92	1.34	28.25	79	989	80	14.44	35.00	293	1730	472	0	68.6
Maribo MA717	126	283.9	98	9725	98	1.34	34.33	96	1175	96	15.54	34.28	240	1754	486	0	72.9
SX Bronco RR	128	277.3	96	9044	91	1.40	32.48	91	1059	86	15.26	32.67	298	1909	470	0	47.3
SX Canyon RR	102	275.1	95	9393	94	1.39	31.88	90	1091	89	15.15	34.14	238	1873	494	0	62.7
SX Marathon RR	125	267.5	93	8570	86	1.44	29.77	84	955	78	14.82	31.96	313	1913	498	0	44.5
SV RR265	131	281.0	97	9656	97	1.23	33.53	94	1151	94	15.29	34.51	241	1842	377	0	51.1
SV RR268	116	281.8	98	9589	96	1.31	33.74	95	1150	94	15.41	34.00	225	1890	433	0	53.7
SV RR333	117	286.0	99	9534	96	1.26	34.91	98	1161	95	15.55	33.36	223	1823	407	0	62.1
SV RR351	107	279.4	97	9320	93	1.34	33.07	93	1104	90	15.31	33.34	237	1836	467	0	56.6
SV RR371	114	287.9	100	9181	92	1.27	35.43	100	1128	92	15.67	32.03	218	1811	426	0	44.1
<b>Experimental Trial (Comm status)</b>																	
BTS 8815	202	289.9	101	10015	100	1.30	36.00	101	1245	101	15.79	34.50	262	1882	415	0	57.8
BTS 8882	228	276.3	96	9630	97	1.35	32.26	91	1125	92	15.18	34.84	291	1961	428	0	45.9
Crystal 803RR	227	295.3	102	10923	110	1.15	37.48	105	1388	113	15.91	36.95	200	1674	374	0	66.3
Crystal 804RR	237	270.5	94	10398	104	1.38	30.64	86	1178	96	14.91	38.44	266	1841	483	0	53.0
Crystal 808RR	240	267.3	93	9862	99	1.49	29.78	84	1098	89	14.86	36.89	324	1857	540	0	68.0
SX 1887	238	287.4	100	9227	93	1.32	35.33	99	1134	92	15.69	32.11	232	1830	449	0	52.3
SX 1888	236	289.5	100	9466	95	1.21	35.88	101	1172	95	15.69	32.74	222	1793	389	0	54.2
SV 285	241	282.0	98	9437	95	1.35	33.83	95	1131	92	15.46	33.49	267	1844	462	0	51.0
SV 289	223	279.9	97	9818	98	1.36	33.24	93	1164	95	15.35	35.13	265	1829	474	0	42.5
SV RR375	204	294.0	102	9554	96	1.16	37.12	104	1207	98	15.86	32.46	228	1779	345	0	52.2
Comm Benchmark Mean		288.4		9973		1.34	35.59		1229		15.76	34.63	239	1848	458		60.7
Trial Mean	5001	279.4		9712		1.34	33.08		1150		15.31	34.76	250	1838	456		59.4
Coeff. of Var. (%)	5002	3.7		5.4		7.2	8.7		9.8		3.0	3.5	16.0	4.2	12.3		13.4
Mean LSD (0.05)	5004	12.3		634		0.12	3.44		134		0.54	1.53	49	97	68		9.2
Mean LSD (0.01)	5005	16.3		837		0.16	4.54		177		0.71	2.01	65	128	90		12.2
Sig Lvl	5007	**		**		**	**		**		**	**	**	**	**		**

\* 2019 Data from Casselton ND Bolters based upon 60,000 seed per acre.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

Created 11/22/2019

Trial # = 198301

2019 Performance of Approved RR Varieties - ACSC Official Trials

Glyndon MN

Description @	Code	Rec/T lbs.	Rec/T %Bnch	Rec/A lbs.	Rec/A %Bnch	Loss Mol %	Rev/T \$ ++	Rev/T %Bnch	Rev/A \$ ++	Rev/A %Bnch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerg. %
<b>Commercial Trial</b>																	
BTS 8337		130 314.5	100	8254	102	0.94	42.85	99	1123	101	16.66	26.33	302	1174	302	0	48.2
BTS 8500		122 295.5	94	8263	102	1.07	37.56	87	1047	94	15.85	28.02	358	1317	351	0	47.1
BTS 8524		127 299.5	95	8432	104	0.95	38.67	90	1095	98	15.93	27.92	289	1278	293	0	58.3
BTS 8606		132 300.8	95	8174	101	0.95	39.04	90	1069	96	15.99	26.97	324	1255	284	0	42.7
BTS 8629		115 292.9	93	8689	107	1.07	36.84	85	1104	99	15.72	29.32	381	1262	357	0	48.6
BTS 8735		123 294.9	93	8337	103	1.01	37.41	87	1053	95	15.76	28.45	352	1129	356	0	42.4
BTS 8749		118 304.9	97	7806	96	1.07	40.19	93	1034	93	16.32	25.51	382	1304	344	0	31.6
BTS 8767		129 302.4	96	8181	101	0.89	39.48	91	1074	97	16.00	26.91	291	1264	244	0	51.2
BTS 8784		108 317.8	101	7079	87	1.01	43.76	101	995	89	16.89	21.87	248	1222	364	0	30.1
Crystal 093RR		110 320.5	102	8342	103	0.85	44.53	103	1159	104	16.88	26.00	222	1266	246	0	56.0
Crystal 247RR		121 292.4	93	8665	85	0.92	36.69	85	867	78	15.54	23.33	327	1271	254	0	53.5
Crystal 355RR		119 317.8	101	7911	97	0.92	43.78	101	1096	98	16.81	24.74	257	1221	292	0	50.6
Crystal 572RR		124 322.6	102	8168	101	0.85	45.10	104	1155	104	16.98	25.11	208	1176	270	0	51.1
Crystal 574RR		104 297.3	94	8431	104	0.94	38.07	88	1078	97	15.80	28.33	323	1221	281	0	60.8
Crystal 578RR		103 301.7	96	8232	101	0.96	39.30	91	1078	97	16.04	27.15	317	1281	285	0	58.2
Crystal 684RR		133 291.3	92	8039	99	1.01	36.38	84	1004	90	15.58	27.56	348	1297	313	0	55.6
Crystal 793RR		111 315.0	100	9221	114	0.90	42.98	100	1254	113	16.65	29.41	289	1126	296	0	45.9
Crystal 796RR		243 307.6	97	9343	115	0.90	40.84	95	1236	111	16.24	30.46	243	1234	275	0	58.3
Hilleshög HM4302RR		101 308.6	98	8027	99	0.88	41.22	95	1064	96	16.31	26.20	307	1244	237	0	47.6
Hilleshög HM4448RR		109 312.3	99	9322	115	0.85	42.24	98	1255	113	16.47	30.03	244	1144	266	21	57.2
Hilleshög HM9528RR		112 318.7	101	9951	123	0.82	44.02	102	1374	123	16.76	31.20	269	1096	249	0	55.5
Hilleshög HIL9708		105 303.5	96	9023	111	0.85	39.79	92	1182	106	16.03	29.72	336	1105	245	0	61.4
Hilleshög HIL9920		106 322.8	102	8603	106	0.79	45.18	105	1213	109	16.94	26.53	249	1055	243	0	61.5
Maribo MA109		120 325.5	103	7889	97	0.87	45.91	106	1119	101	17.14	23.95	266	1178	259	0	39.8
Maribo MA504		113 289.4	92	8898	110	0.93	35.87	83	1102	99	15.40	30.75	375	1089	290	0	58.8
Maribo MA717		126 323.0	102	9245	114	0.84	45.23	105	1282	115	17.00	28.87	260	1134	261	0	59.2
SX Bronco RR		128 310.1	98	8108	100	0.90	41.63	96	1101	99	16.41	25.84	314	1092	292	0	46.9
SX Canyon RR		102 325.4	103	9229	114	0.84	45.89	106	1308	118	17.12	28.29	218	1160	265	0	57.6
SX Marathon RR		125 318.1	101	8827	109	0.84	43.85	102	1217	109	16.74	27.70	229	1128	264	0	40.0
SV RR265		131 316.9	100	9012	111	0.82	43.52	101	1240	111	16.66	28.39	242	1157	239	0	53.0
SV RR268		116 313.0	99	8377	103	0.88	42.43	98	1143	103	16.53	26.68	250	1147	280	0	54.1
SV RR333		117 316.9	100	8639	106	0.82	43.53	101	1175	106	16.67	27.46	236	1149	246	0	57.1
SV RR351		107 316.9	100	8991	111	0.90	43.52	101	1231	111	16.75	28.43	241	1188	296	0	55.7
SV RR371		114 319.4	101	8579	106	0.83	44.22	102	1189	107	16.80	26.81	221	1179	247	0	50.8
<b>Experimental Trial (Comm status)</b>																	
BTS 8815		202 323.9	103	8900	110	0.93	45.53	105	1226	110	17.08	27.97	266	1374	258	0	46.0
BTS 8882		228 296.7	94	8347	103	1.03	37.71	87	1047	94	15.85	28.09	300	1396	310	0	49.7
Crystal 803RR		227 318.6	101	8947	110	0.92	44.01	102	1211	109	16.81	28.44	268	1181	296	0	62.8
Crystal 804RR		237 320.7	102	9503	117	0.87	44.61	103	1331	120	16.89	29.32	249	1182	267	0	43.7
Crystal 808RR		240 320.4	101	10150	125	0.85	44.55	103	1416	127	16.86	31.40	250	1173	254	0	62.2
SX 1887		238 317.6	101	7827	96	0.94	43.71	101	1072	96	16.81	24.48	257	1238	299	0	38.9
SX 1888		236 328.2	104	9628	119	0.87	46.78	108	1345	121	17.26	29.67	244	1150	278	0	42.4
SV 285		241 313.6	99	7718	95	0.98	42.57	99	1068	96	16.64	24.32	277	1266	315	0	31.2
SV 289		223 327.5	104	8411	104	0.81	46.58	108	1178	106	17.13	26.16	211	1123	250	0	46.6
SV RR375		204 320.0	101	8546	105	0.81	44.41	103	1187	107	16.79	26.66	216	1086	258	0	42.3
Comm Benchmark Mean		315.7		8116		0.97	43.18		1113		16.75	25.68	293	1237	309		46.1
Trial Mean	5001	309.3		8386		0.92	41.40		1124		16.38	27.07	290	1199	285		50.1
Coeff. of Var. (%)	5002	3.6		6.8		9.8	7.5		9.5		3.1	5.8	19.4	6.1	17.0		13.7
Mean LSD (0.05)	5004	13.8		738		0.11	3.84		139		0.63	2.03	71	88	60		8.4
Mean LSD (0.01)	5005	18.2		974		0.15	5.06		183		0.83	2.68	94	116	79		11.1
Sig Lvl	5007	**		**		**	**		**		**	**	**	**	**		**

\* 2019 Data from Glyndon MN Bolters based upon 60,000 seed per acre.

Created 11/22/2019

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 198302

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved RR Varieties - ACSC Official Trials

### Climax MN

Description @	Code	Rec/T lbs.	Rec/T %Bnch	Rec/A lbs.	Rec/A %Bnch	Loss Mol %	Rev/T \$ ++	Rev/T %Bnch	Rev/A \$ ++	Rev/A %Bnch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerg. %	
<b>Commercial Trial</b>																		
BTS 8337		130 323.6	101	11781	103	1.00	45.38	101	1652	104	17.19	36.40	157	1437	337	0	80.7	
BTS 8500		122 309.2	96	12999	114	1.07	41.39	92	1738	109	16.53	42.07	158	1495	372	0	82.3	
BTS 8524		127 303.7	94	12646	111	1.06	39.84	89	1660	104	16.23	41.62	166	1585	341	0	84.9	
BTS 8606		132 312.3	97	12307	108	1.03	42.25	94	1667	105	16.63	39.34	169	1450	346	0	74.7	
BTS 8629		115 309.4	96	13284	116	1.04	41.44	92	1778	112	16.51	42.97	188	1333	382	0	83.3	
BTS 8735		123 305.7	95	12732	111	0.96	40.39	90	1684	106	16.25	41.61	153	1295	340	0	75.8	
BTS 8749		118 322.5	100	12200	107	1.01	45.07	101	1706	107	17.13	37.82	158	1522	325	0	73.4	
BTS 8767		129 316.3	98	12488	109	1.04	43.36	97	1714	108	16.86	39.43	151	1388	379	0	82.6	
BTS 8784		108 326.5	102	12116	106	0.94	46.20	103	1714	108	17.26	37.11	130	1330	328	0	66.4	
Crystal 093RR		110 321.9	100	12668	111	1.04	44.91	100	1767	111	17.14	39.37	136	1468	363	0	86.5	
Crystal 247RR		121 314.0	98	11514	101	0.88	42.72	95	1565	98	16.59	36.71	161	1411	246	0	85.2	
Crystal 355RR		119 326.8	102	10337	90	1.03	46.29	103	1461	92	17.38	31.66	144	1488	348	0	90.4	
Crystal 572RR		124 326.1	101	12118	106	0.93	46.07	103	1711	107	17.23	37.23	144	1289	322	0	86.5	
Crystal 574RR		104 312.0	97	12986	114	1.05	42.15	94	1754	110	16.64	41.65	156	1445	370	0	86.5	
Crystal 578RR		103 315.3	98	12143	106	1.06	43.07	96	1659	104	16.82	38.48	157	1437	386	0	88.3	
Crystal 684RR		133 311.3	97	12641	111	1.00	41.95	94	1703	107	16.56	40.60	158	1482	325	0	85.2	
Crystal 793RR		111 328.8	102	13277	116	0.88	46.84	104	1893	119	17.32	40.34	134	1282	294	0	81.8	
Crystal 796RR		243 316.4	98	13458	118	0.89	43.34	97	1837	115	16.70	42.88	158	1373	267	0	92.8	
Hilleshög HM4302RR		101 319.3	99	11920	104	0.89	44.20	99	1649	104	16.85	37.35	176	1432	245	0	70.3	
Hilleshög HM4448RR		109 315.4	98	13002	114	0.98	43.11	96	1777	112	16.75	41.21	139	1348	348	0	82.3	
Hilleshög HM9528RR		112 321.0	100	12705	111	0.95	44.67	100	1768	111	17.00	39.59	156	1334	330	0	82.6	
Hilleshög HIL9708		105 312.8	97	12554	110	0.93	42.38	95	1699	107	16.57	40.18	178	1335	300	0	83.6	
Hilleshög HIL9920		106 329.0	102	12375	108	0.89	46.90	105	1764	111	17.34	37.62	147	1361	274	0	84.1	
Maribo MA109		120 331.0	103	12152	106	0.90	47.46	106	1742	109	17.45	36.71	148	1344	284	0	70.3	
Maribo MA504		113 307.8	96	12926	113	1.04	40.98	91	1720	108	16.41	42.04	177	1402	370	0	85.2	
Maribo MA717		126 311.1	97	12689	111	0.98	41.90	93	1709	107	16.54	40.83	155	1348	349	0	80.7	
SX Bronco RR		128 334.3	104	12907	113	0.92	48.37	108	1867	117	17.65	38.62	148	1387	296	0	78.4	
SX Canyon RR		102 316.2	98	12844	112	0.97	43.33	97	1760	111	16.79	40.61	153	1364	339	0	84.1	
SX Marathon RR		125 318.9	99	12415	109	0.95	44.07	98	1716	108	16.91	38.93	161	1395	307	0	75.0	
SV RR265		131 321.8	100	12623	110	0.86	44.89	100	1762	111	16.95	39.22	128	1319	269	0	80.7	
SV RR268		116 321.1	100	12172	106	0.91	44.69	100	1694	106	16.98	37.92	137	1341	297	0	82.0	
SV RR333		117 320.1	100	11833	103	0.93	44.41	99	1640	103	16.92	37.02	139	1333	315	0	86.7	
SV RR351		107 319.9	99	12319	108	0.89	44.36	99	1707	107	16.91	38.50	149	1369	274	0	87.8	
SV RR371		114 316.7	98	12384	108	0.92	43.47	97	1700	107	16.76	39.08	156	1390	288	0	69.3	
<b>Experimental Trial (Comm status)</b>																		
BTS 8815		202 327.8	102	12032	105	0.97	46.57	104	1722	108	17.34	36.62	163	1467	301	0	76.4	
BTS 8882		228 317.4	99	13165	115	1.02	43.64	97	1807	113	16.90	41.65	159	1479	342	0	72.3	
Crystal 803RR		227 322.0	100	11167	98	0.97	44.94	100	1538	97	17.07	35.23	138	1311	355	0	92.1	
Crystal 804RR		237 314.2	98	12601	110	1.10	42.75	95	1701	107	16.81	40.75	160	1453	413	0	79.9	
Crystal 808RR		240 316.0	98	11774	103	1.06	43.24	96	1603	101	16.87	37.42	194	1443	365	0	85.7	
SX 1887		238 322.1	100	11769	103	1.00	44.98	100	1643	103	17.11	36.46	143	1347	363	0	73.5	
SX 1888		236 323.0	100	12990	114	0.91	45.23	101	1823	115	17.06	40.46	155	1398	280	0	77.2	
SV 285		241 316.5	98	11658	102	0.93	43.38	97	1593	100	16.75	37.22	162	1327	308	0	78.5	
SV 289		223 324.6	101	12024	105	0.96	45.64	102	1683	106	17.18	37.43	141	1348	332	0	71.0	
SV RR375		204 317.0	99	11634	102	0.95	43.54	97	1588	100	16.80	37.20	153	1339	329	0	81.6	
Comm Benchmark Mean		321.6		11437		1.03	44.83		1592		17.11	35.61	160	1480	344		79.5	
Trial Mean	5001	317.7		12332		0.97	43.73		1696		16.86	38.85	156	1402	326		79.9	
Coeff. of Var. (%)	5002	2.5		5.8		8.6	5.1		7.4		2.2	5.3	10.3	4.8	17.1		8.9	
Mean LSD (0.05)	5004	9.8		885		0.10	2.74		154		0.45	2.51	20	84	71		8.1	
Mean LSD (0.01)	5005	13.0		1168		0.14	3.62		203		0.59	3.31	27	111	93		10.6	
Sig Lvl	5007	**		**		**	**		**		**	**	**	**	**		**	

\* 2019 Data from Climax MN

Bolters based upon 60,000 seed per acre.

Created 11/22/2019

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 198306

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved RR Varieties - ACSC Official Trials

## Scandia MN

Description @	Code	Rec/T lbs.	Rec/T %Bnch	Rec/A lbs.	Rec/A %Bnch	Loss Mol %	Rev/T \$ ++	Rev/T %Bnch	Rev/A \$ ++	Rev/A %Bnch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerg. %	
<b>Commercial Trial</b>																		
BTS 8337		130 334.0	105	10538	104	1.05	48.29	110	1520	109	17.76	31.49	228	1459	349	0	80.2	
BTS 8500		122 310.0	98	11201	111	1.16	41.61	95	1501	108	16.66	36.16	246	1623	376	0	71.5	
BTS 8524		127 299.3	94	10453	103	1.28	38.61	88	1346	97	16.27	34.67	361	1630	427	0	76.9	
BTS 8606		132 315.3	99	10900	108	1.21	43.07	98	1490	107	16.96	34.63	279	1536	426	0	77.1	
BTS 8629		115 307.7	97	11078	109	1.12	40.95	93	1478	106	16.51	35.90	319	1427	374	0	70.7	
BTS 8735		123 310.1	98	10826	107	1.13	41.64	95	1452	104	16.63	34.90	273	1357	418	0	72.8	
BTS 8749		118 311.1	98	10166	100	1.28	41.89	96	1365	98	16.84	32.62	317	1636	446	0	71.8	
BTS 8767		129 317.4	100	11256	111	1.16	43.67	100	1550	111	17.04	35.38	270	1540	395	0	79.3	
BTS 8784		108 321.4	101	10159	100	1.11	44.76	102	1414	101	17.17	31.54	214	1459	390	0	63.7	
Crystal 093RR		110 324.6	102	10547	104	1.12	45.67	104	1480	106	17.35	32.71	216	1525	387	0	78.7	
Crystal 247RR		121 308.6	97	10254	101	1.12	41.22	94	1370	98	16.55	33.28	278	1578	344	0	73.2	
Crystal 355RR		119 316.6	100	9649	95	1.20	43.45	99	1324	95	17.03	30.61	260	1557	416	0	84.0	
Crystal 572RR		124 334.0	105	10480	103	1.04	48.29	110	1520	109	17.73	31.48	201	1431	353	0	79.9	
Crystal 574RR		104 312.8	98	11044	109	1.16	42.38	97	1498	107	16.80	35.43	262	1618	379	0	84.8	
Crystal 578RR		103 305.7	96	10601	105	1.26	40.41	92	1404	101	16.55	34.36	303	1565	447	0	81.1	
Crystal 684RR		133 304.3	96	11109	110	1.24	40.02	91	1462	105	16.46	36.29	315	1558	428	0	74.8	
Crystal 793RR		111 324.0	102	10994	108	1.00	45.49	104	1543	111	17.21	33.95	237	1390	318	0	72.3	
Crystal 796RR		243 301.2	95	10651	105	1.32	38.87	89	1380	99	16.43	35.28	289	1619	476	0	91.6	
Hilleshög HM4302RR		101 304.0	96	9691	96	1.20	39.92	91	1273	91	16.39	31.91	353	1643	365	0	62.8	
Hilleshög HM4448RR		109 314.8	99	10988	108	1.08	42.92	98	1500	108	16.83	34.66	248	1414	373	0	84.9	
Hilleshög HM9528RR		112 313.2	99	10570	104	1.11	42.49	97	1432	103	16.77	33.86	278	1504	358	0	73.1	
Hilleshög HIL9708		105 315.0	99	10638	105	1.08	43.00	98	1452	104	16.84	33.68	306	1440	346	0	79.5	
Hilleshög HIL9920		106 317.1	100	10417	103	1.11	43.59	100	1431	103	16.96	32.95	281	1530	348	0	77.0	
Maribo MA109		120 321.5	101	9378	93	1.13	44.80	102	1303	93	17.19	29.34	292	1487	372	0	56.9	
Maribo MA504		113 307.9	97	11132	110	1.14	41.00	94	1481	106	16.53	36.26	305	1514	366	0	75.1	
Maribo MA717		126 314.2	99	10738	106	1.17	42.76	98	1460	105	16.88	34.38	297	1491	401	0	76.5	
SX Bronco RR		128 315.4	99	10369	102	1.07	43.10	98	1416	102	16.84	32.90	271	1532	325	0	65.2	
SX Canyon RR		102 314.5	99	10623	105	1.06	42.84	98	1450	104	16.78	33.98	248	1456	344	0	75.2	
SX Marathon RR		125 318.7	100	10647	105	1.05	44.01	100	1469	105	16.99	33.37	246	1522	318	0	62.4	
SV RR265		131 310.4	98	10026	99	1.15	41.70	95	1347	97	16.67	32.20	274	1552	376	0	63.6	
SV RR268		116 318.8	100	10307	102	1.10	44.05	101	1418	102	17.05	32.26	282	1493	352	0	75.1	
SV RR333		117 325.1	102	10395	103	1.06	45.80	105	1458	105	17.32	31.99	248	1466	336	0	82.3	
SV RR351		107 315.5	99	10737	106	1.08	43.12	98	1469	105	16.86	34.04	258	1499	343	0	73.3	
SV RR371		114 320.7	101	10362	102	1.09	44.57	102	1441	103	17.11	32.37	241	1547	349	0	63.0	
<b>Experimental Trial (Comm status)</b>																		
BTS 8815		202 315.8	99	10176	100	1.15	43.16	99	1388	100	16.96	32.36	272	1660	359	0	84.8	
BTS 8882		228 306.3	96	10746	106	1.22	40.39	92	1415	101	16.57	35.23	294	1654	404	0	66.9	
Crystal 803RR		227 333.2	105	10916	108	1.02	48.29	110	1579	113	17.64	32.88	193	1438	343	0	82.2	
Crystal 804RR		237 325.9	103	11323	112	1.02	46.14	105	1603	115	17.28	34.93	251	1529	306	0	75.2	
Crystal 808RR		240 309.5	97	10847	107	1.21	41.30	94	1438	103	16.68	35.44	326	1606	386	0	81.9	
SX 1887		238 329.7	104	10668	105	1.04	47.27	108	1527	109	17.50	32.46	221	1509	335	0	77.4	
SX 1888		236 321.1	101	10707	106	1.03	44.73	102	1496	107	17.07	33.32	231	1533	324	0	72.5	
SV 285		241 316.7	100	9910	98	1.10	43.45	99	1357	97	16.95	31.39	279	1477	362	0	74.3	
SV 289		223 311.1	98	9961	98	1.06	41.77	95	1340	96	16.61	31.99	260	1532	324	0	61.6	
SV RR375		204 320.1	101	9706	96	1.04	44.44	101	1348	97	17.03	30.41	235	1499	335	0	73.1	
Comm Benchmark Mean		317.9		10136		1.19	43.80		1395		17.08	32.03	268	1571	404		76.2	
Trial Mean	5001	314		10456		1.14	42.72		1421		16.84	33.32	276	1523	376		72.9	
Coeff. of Var. (%)	5002	3.1		4.0		7.5	6.2		6.5		2.6	3.1	17.1	4.5	12.5		9.8	
Mean LSD (0.05)	5004	12.1		517		0.11	3.36		116		0.54	1.17	60	82	60		8.2	
Mean LSD (0.01)	5005	15.9		683		0.14	4.43		153		0.71	1.55	79	108	79		10.9	
Sig Lvl	5007	**		**		**	**		**		**	**	**	**	**		**	

\* 2019 Data from Scandia MN Bolters based upon 60,000 seed per acre.

Created 11/22/2019

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 198308

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar &amp; 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved RR Varieties - ACSC Official Trials

### Argyle MN

Description @	Code	Rec/T lbs.	Rec/T %Bnch	Rec/A lbs.	Rec/A %Bnch	Loss Mol %	Rev/T \$ ++	Rev/T %Bnch	Rev/A \$ ++	Rev/A %Bnch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerg. %	
<b>Commercial Trial</b>																		
BTS 8337		130	347.2	100	10797	101	0.83	51.96	100	1617	101	18.19	31.07	156	1685	137	0	66.4
BTS 8500		122	336.3	97	10578	99	0.89	48.94	94	1537	96	17.71	31.48	188	1731	165	0	61.5
BTS 8524		127	317.8	92	11641	108	0.91	43.78	85	1603	100	16.80	36.66	192	1790	160	0	67.9
BTS 8606		132	335.6	97	9929	92	0.77	48.72	94	1442	90	17.55	29.59	164	1536	134	0	64.5
BTS 8629		115	337.9	97	11111	103	0.80	49.36	95	1625	101	17.69	32.86	193	1472	157	0	64.9
BTS 8735		123	336.8	97	9710	90	0.74	49.07	95	1413	88	17.58	28.89	158	1493	120	0	61.5
BTS 8749		118	352.1	102	10625	99	0.94	53.31	103	1618	101	18.54	29.98	172	1650	229	0	57.1
BTS 8767		129	342.5	99	11100	103	0.86	50.65	98	1641	102	17.98	32.41	188	1593	175	0	59.0
BTS 8784		108	349.8	101	9989	93	0.79	52.69	102	1505	94	18.28	28.57	155	1575	139	0	53.1
Crystal 093RR		110	346.5	100	11268	105	0.89	51.75	100	1683	105	18.21	32.52	166	1654	189	0	65.5
Crystal 247RR		121	337.8	97	11035	103	0.84	49.34	95	1613	101	17.73	32.65	180	1649	147	0	66.5
Crystal 355RR		119	354.0	102	10673	99	0.90	53.87	104	1621	101	18.60	30.19	181	1638	197	0	61.1
Crystal 572RR		124	356.6	103	10325	96	0.88	54.58	105	1580	98	18.71	28.96	182	1523	209	0	63.7
Crystal 574RR		104	340.2	98	10897	101	0.87	50.00	97	1605	100	17.88	31.93	192	1650	167	0	64.7
Crystal 578RR		103	338.1	98	11459	107	0.86	49.42	95	1675	104	17.77	33.87	191	1697	150	0	66.8
Crystal 684RR		133	330.5	95	10547	98	0.92	47.32	91	1512	94	17.44	31.89	203	1753	172	0	60.6
Crystal 793RR		111	343.7	99	11616	108	0.79	50.98	98	1723	107	17.98	33.80	170	1501	154	0	60.5
Crystal 796RR		243	343.0	99	12127	113	0.87	50.78	98	1791	112	18.03	35.47	189	1666	167	0	74.9
Hilleshög HM4302RR		101	332.0	96	9544	89	0.91	47.73	92	1375	86	17.51	28.66	219	1650	189	0	46.7
Hilleshög HM4448RR		109	333.8	96	11362	106	0.84	48.22	93	1645	103	17.53	33.96	179	1613	156	0	63.4
Hilleshög HM9528RR		112	336.9	97	11185	104	0.84	49.10	95	1628	101	17.69	33.22	183	1527	184	0	61.0
Hilleshög HIL9708		105	345.4	100	11351	106	0.83	51.47	99	1692	105	18.11	32.84	181	1601	156	0	65.5
Hilleshög HIL9920		106	349.0	101	10019	93	0.86	52.45	101	1507	94	18.31	28.66	150	1721	157	0	62.6
Maribo MA109		120	347.6	100	9836	92	0.77	52.06	100	1480	92	18.15	28.17	169	1566	118	0	51.6
Maribo MA504		113	326.5	94	10999	102	0.79	46.18	89	1560	97	17.11	33.61	179	1496	149	0	64.2
Maribo MA717		126	337.5	97	11588	108	0.78	49.27	95	1693	106	17.66	34.30	160	1582	127	0	59.7
SX Bronco RR		128	345.4	100	10391	97	0.94	51.47	99	1552	97	18.22	30.05	202	1690	208	0	48.8
SX Canyon RR		102	343.0	99	10620	99	0.81	50.79	98	1573	98	17.96	30.94	168	1557	154	0	65.3
SX Marathon RR		125	336.7	97	10241	95	0.85	49.04	95	1488	93	17.69	30.50	166	1609	175	0	50.9
SV RR265		131	343.7	99	10331	96	0.82	51.00	98	1535	96	18.01	30.01	158	1562	169	0	56.9
SV RR268		116	337.8	97	10868	101	0.81	49.34	95	1588	99	17.70	32.16	167	1639	130	0	60.4
SV RR333		117	346.3	100	10912	102	0.79	51.71	100	1628	101	18.11	31.51	160	1566	140	0	60.8
SV RR351		107	338.3	98	8648	81	0.83	49.49	96	1261	79	17.75	25.63	161	1628	156	0	55.8
SV RR371		114	342.7	99	9892	92	0.82	50.72	98	1471	92	17.96	28.69	160	1599	153	0	49.5
<b>Experimental Trial (Comm status)</b>																		
BTS 8815		202	349.6	101	11731	109	0.80	52.67	102	1770	110	18.27	33.52	157	1635	133	0	66.7
BTS 8882		228	352.6	102	12063	112	0.87	53.52	103	1834	114	18.51	34.16	198	1677	165	0	59.9
Crystal 803RR		227	362.7	105	11804	110	0.77	56.40	109	1837	114	18.90	32.49	143	1529	144	0	71.0
Crystal 804RR		237	341.1	98	11072	103	0.91	50.25	97	1633	102	17.96	32.40	196	1686	188	0	60.7
Crystal 808RR		240	335.0	97	12525	117	0.83	48.49	94	1811	113	17.57	37.45	197	1664	132	0	67.1
SX 1887		238	355.0	102	10501	98	0.81	54.17	105	1605	100	18.53	29.48	140	1626	143	0	60.3
SX 1888		236	330.6	95	10356	96	0.74	47.25	91	1479	92	17.26	31.37	148	1480	127	0	62.0
SV 285		241	352.3	102	11074	103	0.79	53.42	103	1684	105	18.40	31.39	147	1600	136	0	53.9
SV 289		223	353.5	102	10185	95	0.80	53.77	104	1552	97	18.46	28.81	150	1605	142	0	49.5
SV RR375		204	348.1	100	11333	106	0.86	52.23	101	1701	106	18.26	32.47	174	1682	167	0	59.9
Comm Benchmark Mean			346.6		10739		0.86	51.81		1604		18.19	30.99	175	1665	161		59.1
Trial Mean	5001		340.2		10574		0.84	50.02		1555		17.86	31.06	177	1617	161		59.2
Coeff. of Var. (%)	5002		1.8		4.8		4.1	3.4		5.6		1.6	4.5	9.0	3.0	10.6		11.8
Mean LSD (0.05)	5004		9.3		786		0.05	2.60		135		0.44	2.15	24	72	26		8.3
Mean LSD (0.01)	5005		12.3		1041		0.07	3.44		179		0.59	2.85	32	96	34		10.9
Sig Lvl	5007		**		**		**	**		**		**	**	**	**	**		**

\* 2019 Data from Argyle MN

Bolters based upon 60,000 seed per acre.

Created 11/22/2019

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 198309

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved RR Varieties - ACSC Official Trials

### Kennedy MN

Description @	Rec/T Code	Rec/T lbs.	Rec/T %Bch	Rec/A lbs.	Rec/A %Bch	Loss Mol %	Rev/T \$ ++	Rev/T %Bch	Rev/A \$ ++	Rev/A %Bch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerg. %
<b>Commercial Trial</b>																	
BTS 8337	130	327.5	100	9276	97	1.06	46.48	99	1314	97	17.40	28.43	161	1636	326	0	67.6
BTS 8500	122	324.1	99	10101	106	1.12	45.51	97	1421	105	17.30	31.15	183	1729	342	0	63.4
BTS 8524	127	307.2	94	10644	112	1.09	40.82	87	1413	104	16.47	34.65	202	1800	289	0	65.1
BTS 8606	132	326.1	99	10302	108	1.09	46.09	99	1454	107	17.38	31.66	188	1671	333	0	60.7
BTS 8629	115	321.0	98	10674	112	1.15	44.65	96	1486	110	17.19	33.22	162	1508	429	0	59.4
BTS 8735	123	323.5	99	10353	109	0.95	45.35	97	1447	107	17.10	32.10	174	1469	284	0	59.3
BTS 8749	118	322.4	98	9409	99	1.17	45.06	96	1314	97	17.26	29.25	174	1743	376	0	49.7
BTS 8767	129	326.6	99	9785	103	1.07	46.24	99	1384	102	17.40	29.97	168	1691	322	0	64.7
BTS 8784	108	334.9	102	9563	100	0.94	48.53	104	1392	103	17.64	28.47	148	1490	274	0	52.8
Crystal 093RR	110	337.0	103	10286	108	0.97	49.13	105	1492	110	17.79	30.76	140	1566	285	0	72.1
Crystal 247RR	121	322.3	98	10093	106	0.96	45.02	96	1410	104	17.11	31.27	178	1693	233	0	60.8
Crystal 355RR	119	335.1	102	8800	92	1.08	48.58	104	1274	94	17.81	26.36	151	1758	318	0	74.6
Crystal 572RR	124	348.4	106	10639	112	0.99	52.30	112	1594	118	18.39	30.60	133	1503	321	0	68.6
Crystal 574RR	104	324.7	99	10003	105	1.04	45.69	98	1404	104	17.32	30.88	171	1747	286	0	67.8
Crystal 578RR	103	323.7	99	10294	108	0.98	45.42	97	1442	106	17.15	31.91	185	1660	248	0	66.9
Crystal 684RR	133	327.2	100	10460	110	0.99	46.40	99	1479	109	17.37	32.05	194	1694	248	0	60.8
Crystal 793RR	111	336.6	102	10702	112	0.94	49.00	105	1557	115	17.76	31.79	142	1436	294	0	62.1
Crystal 796RR	243	317.8	97	12010	126	1.02	43.79	94	1658	122	16.86	37.98	174	1701	275	0	77.1
Hilleshög HM4302RR	101	317.5	97	8898	93	0.94	43.69	93	1225	90	16.82	28.01	187	1677	220	0	55.8
Hilleshög HM4448RR	109	326.3	99	10525	110	0.92	46.14	99	1488	110	17.24	32.26	155	1529	254	0	64.8
Hilleshög HM9528RR	112	321.3	98	10175	107	0.91	44.74	96	1418	105	16.97	31.64	172	1560	231	0	63.4
Hilleshög HIL9708	105	325.0	99	10581	111	1.08	45.77	98	1493	110	17.35	32.43	171	1585	353	0	68.0
Hilleshög HIL9920	106	334.2	102	9952	104	1.03	48.34	103	1435	106	17.75	29.87	172	1679	288	0	67.3
Maribo MA109	120	325.6	99	8344	87	0.93	45.95	98	1185	88	17.23	25.43	154	1557	252	0	43.5
Maribo MA504	113	321.4	98	10616	111	0.92	44.76	96	1480	109	16.99	33.01	180	1577	221	0	69.9
Maribo MA717	126	324.8	99	9855	103	0.92	45.72	98	1389	103	17.18	30.23	156	1533	247	0	61.9
SX Bronco RR	128	328.5	100	9703	102	1.03	46.76	100	1383	102	17.49	29.39	165	1674	291	0	60.6
SX Canyon RR	102	325.2	99	9836	103	1.04	45.84	98	1389	103	17.30	30.19	145	1560	340	0	63.5
SX Marathon RR	125	336.1	102	9876	104	0.92	48.87	105	1435	106	17.75	29.39	134	1589	246	0	56.5
SV RR265	131	325.0	99	9756	102	0.99	45.77	98	1378	102	17.26	29.89	167	1666	267	0	60.6
SV RR268	116	332.5	101	9663	101	0.99	47.86	102	1388	103	17.58	29.21	147	1590	292	0	55.1
SV RR333	117	330.5	101	9810	103	1.04	47.31	101	1410	104	17.62	29.45	143	1588	339	0	64.3
SV RR351	107	341.5	104	9957	104	0.99	50.38	108	1459	108	18.07	29.45	141	1553	304	0	62.0
SV RR371	114	324.5	99	9629	101	0.94	45.64	98	1358	100	17.20	29.49	175	1576	247	0	52.9
<b>Experimental Trial (Comm status)</b>																	
BTS 8815	202	328.2	100	9564	100	1.00	46.67	100	1367	101	17.41	29.26	154	1699	265	0	62.6
BTS 8882	228	328.6	100	10225	107	1.08	46.77	100	1446	107	17.48	31.41	173	1717	318	0	47.1
Crystal 803RR	227	336.9	103	9807	103	1.12	49.08	105	1413	104	17.95	29.34	151	1572	410	0	73.9
Crystal 804RR	237	330.6	101	10548	111	1.03	47.33	101	1492	110	17.54	32.41	191	1702	269	0	60.6
Crystal 808RR	240	332.9	101	11134	117	0.96	47.95	103	1595	118	17.57	33.66	165	1642	232	0	70.2
SX 1887	238	339.6	103	10122	106	0.95	49.85	107	1484	110	17.91	29.99	142	1544	265	0	60.0
SX 1888	236	328.9	100	10261	108	1.23	46.86	100	1461	108	17.62	31.36	140	1617	505	0	56.8
SV 285	241	341.8	104	11122	117	0.90	50.44	108	1621	120	17.91	33.04	139	1594	209	0	61.6
SV 289	223	336.5	102	9194	96	0.96	48.99	105	1330	98	17.78	27.47	133	1576	280	0	45.5
SV RR375	204	326.7	99	9848	103	1.13	46.24	99	1367	101	17.44	30.86	139	1669	400	0	65.3
Comm Benchmark Mean		328.4		9537		1.09	46.73		1354		17.51	29.14	163	1721	333		63.8
Trial Mean	5001	327		9922		1.01	46.32		1405		17.36	30.37	165	1623	292		61.2
Coeff. of Var. (%)	5002	2.9		6.8		14.7	5.6		8.4		2.5	5.9	14.7	4.8	37.0		11.2
Mean LSD (0.05)	5004	11.1		833		0.17	3.10		145		0.53	2.27	28	93	123		8.3
Mean LSD (0.01)	5005	14.7		1100		0.22	4.09		192		0.70	3.00	36	123	162		10.9
Sig Lvl	5007	**		**		**	**		**		**	**	**	**	**		**

\* 2019 Data from Kennedy MN      Bolters based upon 60,000 seed per acre.

Created 11/22/2019

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 198310

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved RR Varieties - ACSC Official Trials

## Bathgate ND

Description @	Code	Rec/T lbs.	Rec/T %Bnch	Rec/A lbs.	Rec/A %Bnch	Loss Mol %	Rev/T \$ ++	Rev/T %Bnch	Rev/A \$ ++	Rev/A %Bnch	Sugar %	Yield T/A	Na ppm	K ppm	AmN ppm	Bolter per Ac	Emerg. %
<b>Commercial Trial</b>																	
BTS 8337		130 346.5	103	10641	105	0.81	51.75	105	1588	108	18.13	30.71	100	1473	198	0	70.9
BTS 8500		122 331.4	98	10398	103	0.89	47.57	96	1494	101	17.46	31.42	121	1559	231	0	67.9
BTS 8524		127 326.0	96	10725	106	0.87	46.06	93	1516	103	17.18	32.92	119	1570	215	0	67.0
BTS 8606		132 336.2	99	10074	100	0.85	48.90	99	1465	99	17.67	30.03	105	1553	211	0	65.6
BTS 8629		115 332.3	98	11111	110	0.78	47.81	97	1597	108	17.39	33.42	92	1421	195	0	67.1
BTS 8735		123 330.3	98	10784	107	0.82	47.26	96	1539	104	17.34	32.69	118	1397	224	0	64.6
BTS 8749		118 332.4	98	10279	102	0.91	47.85	97	1479	100	17.53	30.92	113	1662	222	21	55.1
BTS 8767		129 337.3	100	10437	103	0.85	49.20	100	1524	103	17.71	30.89	116	1584	196	0	71.8
BTS 8784		108 342.5	101	10023	99	0.83	50.64	103	1483	101	17.96	29.25	99	1392	240	0	56.0
Crystal 093RR		110 342.2	101	10703	106	0.84	50.58	102	1584	107	17.95	31.17	100	1501	220	0	76.1
Crystal 247RR		121 334.7	99	9769	97	0.81	48.48	98	1417	96	17.54	29.21	124	1476	190	0	65.1
Crystal 355RR		119 336.4	100	8961	89	0.91	48.94	99	1301	88	17.72	26.70	118	1580	242	0	76.0
Crystal 572RR		124 340.6	101	10290	102	0.82	50.11	101	1511	102	17.85	30.27	90	1440	219	0	67.7
Crystal 574RR		104 333.5	99	10486	104	0.89	48.15	97	1517	103	17.56	31.41	109	1563	235	0	74.3
Crystal 578RR		103 335.1	99	10372	103	0.81	48.58	98	1502	102	17.56	31.01	104	1549	179	0	71.7
Crystal 684RR		133 334.2	99	10939	108	0.88	48.34	98	1579	107	17.59	32.77	110	1627	214	0	56.8
Crystal 793RR		111 334.6	99	10136	100	0.80	48.45	98	1468	100	17.53	30.24	95	1433	206	0	62.9
Crystal 796RR		243 332.8	98	10563	105	0.86	47.85	97	1526	103	17.51	31.60	118	1497	229	0	83.9
Hilleshög HM4302RR		101 325.6	96	9404	93	0.85	45.95	93	1327	90	17.13	28.84	126	1599	191	0	52.2
Hilleshög HM4448RR		109 337.7	100	10507	104	0.82	49.32	100	1533	104	17.71	31.12	103	1445	216	0	67.1
Hilleshög HM9528RR		112 333.0	99	10098	100	0.85	48.01	97	1458	99	17.50	30.31	105	1537	211	0	65.1
Hilleshög HIL9708		105 335.1	99	10096	100	0.84	48.58	98	1465	99	17.59	30.12	117	1510	205	0	76.0
Hilleshög HIL9920		106 344.8	102	10354	102	0.84	51.29	104	1536	104	18.08	30.09	102	1585	196	0	71.4
Maribo MA109		120 341.8	101	9170	91	0.87	50.47	102	1354	92	17.96	26.85	101	1607	211	0	58.2
Maribo MA504		113 335.9	99	11196	111	0.81	48.82	99	1626	110	17.61	33.36	106	1476	200	0	62.5
Maribo MA717		126 342.6	101	11126	110	0.85	50.67	103	1642	111	17.98	32.53	100	1503	227	0	76.0
SX Bronco RR		128 341.3	101	10281	102	0.88	50.30	102	1516	103	17.95	30.17	122	1616	210	0	60.1
SX Canyon RR		102 334.7	99	10166	101	0.79	48.48	98	1471	100	17.52	30.39	97	1471	185	0	64.6
SX Marathon RR		125 329.6	98	9914	98	0.87	47.06	95	1416	96	17.35	30.02	123	1536	221	0	58.5
SV RR265		131 339.7	101	10508	104	0.80	49.88	101	1539	104	17.78	31.00	104	1518	175	0	72.1
SV RR268		116 333.0	99	10277	102	0.81	47.99	97	1485	101	17.45	30.82	99	1512	189	0	63.1
SV RR333		117 333.3	99	9951	98	0.81	48.08	97	1437	97	17.47	29.83	95	1527	188	0	74.4
SV RR351		107 332.4	98	10777	107	0.83	47.83	97	1551	105	17.45	32.41	113	1508	201	0	65.8
SV RR371		114 333.3	99	9412	93	0.80	48.09	97	1361	92	17.46	28.21	90	1522	179	0	57.9
<b>Experimental Trial (Comm status)</b>																	
BTS 8815		202 345.6	102	9672	96	0.80	51.61	105	1449	98	18.08	27.87	92	1540	181	0	74.9
BTS 8882		228 334.2	99	10208	101	0.88	48.27	98	1477	100	17.60	30.45	116	1571	225	0	63.0
Crystal 803RR		227 343.0	101	10542	104	0.85	50.88	103	1560	106	17.99	30.80	98	1484	229	0	85.8
Crystal 804RR		237 336.9	100	9922	98	0.89	49.05	99	1445	98	17.74	29.44	127	1506	244	0	59.6
Crystal 808RR		240 330.0	98	9129	90	0.96	47.05	95	1301	88	17.47	27.62	150	1580	264	0	76.3
SX 1887		238 340.5	101	10438	103	0.83	50.10	101	1541	104	17.84	30.60	109	1534	200	0	68.9
SX 1888		236 345.4	102	10778	107	0.77	51.54	104	1611	109	18.03	31.10	100	1415	188	0	63.8
SV 285		241 347.9	103	10122	100	0.81	52.30	106	1523	103	18.19	28.97	110	1511	187	0	62.9
SV 289		223 339.1	100	9544	94	0.81	49.71	101	1401	95	17.76	28.07	104	1535	184	0	59.1
SV RR375		204 339.2	100	10853	107	0.81	49.73	101	1591	108	17.77	31.94	101	1485	194	0	67.1
Comm Benchmark Mean		338.0		10105		0.87	49.39		1475		17.77	29.93	112	1562	220		67.3
Trial Mean	5001	335.3		10218		0.84	48.64		1482		17.61	30.48	107	1529	208		65.2
Coeff. of Var. (%)	5002	2.3		5.0		6.2	4.5		6.1		2.1	4.8	18.9	4.4	12.7		14.6
Mean LSD (0.05)	5004	9.8		652		0.07	2.72		114		0.46	1.85	24	83	33		11.6
Mean LSD (0.01)	5005	12.9		861		0.09	3.59		151		0.61	2.45	31	110	44		15.3
Sig Lvl	5007	**		**		**	**		**		**	**	**	**	**		**

\* 2019 Data from Bathgate ND Bolters based upon 60,000 seed per acre.

Created 11/22/2019

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 198313

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar &amp; 1.5% loss to molasses and does not consider hauling costs.



## 2019 Performance of Approved Varieties - Conventional Official Trials

### 3 sites - All Characters

<b>Unadjusted</b>		Rec/T	Rec/T	Rec/A	Rec/A	Loss	Rev/T	Rev/T	Rev/A	Rev/A	Sugar	Yield	Na	K	AmN	Bolter	Emerg.	
Description @	Code	lbs.	%Mean	lbs.	%Mean	Mol %	\$ ++	%Mean	\$ ++	%Mean	%	T/A	ppm	ppm	ppm	/Ac	%	
<b>Previous Approved</b>																		
Crystal 620	807	310.5	100	10403	104	1.07	41.74	99	1394	103	16.59	33.69	271	1599	302	0	54.5	
Crystal 840	802	301.7	97	9916	99	1.15	39.30	93	1288	95	16.23	33.11	317	1665	329	0	52.5	
Crystal R761	806	299.3	96	10742	107	1.21	38.62	92	1375	102	16.18	35.97	359	1784	334	0	61.4	
Hilleshög HM3035Rz	803	317.8	102	9439	94	1.02	43.77	104	1294	96	16.91	29.89	239	1526	297	0	72.3	
Seedex 8869 Cnv	801	307.4	99	10388	103	1.02	40.88	97	1374	101	16.40	33.94	339	1553	258	0	63.7	
SV 48777	805	322.8	103	10342	103	0.94	45.18	107	1452	107	17.08	31.83	236	1524	239	0	63.5	
<b>Newly Approved</b>																		
Crystal 950	804	308.6	99	10719	107	1.06	41.21	98	1430	106	16.49	34.66	273	1591	295	0	62.2	
Benchmark Mean		316.0		10330		1.08	44.35		1427		17.07	32.41	251	1600	314		65.9	
Trial Mean		312.0		10047		1.08	42.16		1354		16.68	32.27	287	1616	302		62.1	
Coeff. of Var. (%)		3.6		5.7		7.1	7.5		8.0		3.1	5.4	25.7	4.0	13.7		10.8	
Mean LSD (0.05)		17.6		682		0.09	4.90		142		0.88	2.00	100	90	54		6.9	
Mean LSD (0.01)		24.0		928		0.12	6.67		194		1.20	2.73	136	123	73		9.4	
Sig Lvl		**		**		**	**		**		*	**	**	**	*		**	

\* 2019 Data from 3 sites

Created 11/22/2019

%Mean = percentage of trial mean.

Trial # = 19ACSCONB

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved Varieties - Conventional Official Trials

### Grand Forks ND - All Characters

<b>Unadjusted</b>		Rec/T	Rec/T	Rec/A	Rec/A	Loss	Rev/T	Rev/T	Rev/A	Rev/A	Sugar	Yield	Na	K	AmN	Bolter	Emerg.
Description @	Code	lbs.	%Mean	lbs.	%Mean	Mol %	\$ ++	%Mean	\$ ++	%Mean	%	T/A	ppm	ppm	ppm	/Ac	%
<b>Previous Approved</b>																	
Crystal 620	807	291.9	98	10800	103	1.06	36.55	96	1365	102	15.63	37.28	376	1569	258	0	49.0
Crystal 840	802	288.1	97	10474	100	1.13	35.51	93	1287	96	15.53	36.90	441	1679	266	0	43.0
Crystal R761	806	268.9	91	11146	106	1.26	30.15	79	1251	93	14.72	40.76	560	1830	292	0	49.4
Hilleshög HM3035Rz	803	306.7	103	9855	94	1.01	40.68	107	1306	98	16.33	32.91	319	1525	267	0	55.0
Seedex 8869 Cnv	801	286.1	96	10600	101	1.10	34.95	92	1292	97	15.41	37.11	448	1592	262	0	52.0
SV 48777	805	303.6	102	10890	104	0.90	39.83	105	1440	108	16.09	35.21	302	1545	173	0	54.7
<b>Newly Approved</b>																	
Crystal 950	804	298.6	101	11345	108	1.03	38.42	101	1444	108	15.97	38.03	356	1592	250	0	48.9
Benchmark Mean		298.8		10623		1.11	40.38		1399		16.39	34.78	364	1639	287		55.5
Trial Mean		297.1		10498		1.10	38.01		1338		15.95	35.43	392	1648	268		51.4
Coeff. of Var. (%)		3.9		5.4		7.0	8.5		7.1		3.4	6.2	16.6	3.9	12.3		14.5
Mean LSD (0.05)		18.7		910		0.13	5.19		158		0.86	3.15	109	97	55		11.3
Mean LSD (0.01)		25.2		1226		0.17	7.01		214		1.16	4.22	148	130	75		15.1
Sig Lvl		**		**		**	**		**		**	**	**	**	**		ns

\* 2019 Data from Grand Forks ND

Created 11/18/2019

%Mean = percentage of trial mean.

Trial # = 198207

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved Varieties - Conventional Official Trials

### Scandia MN - All Characters

<b>Unadjusted</b>		Rec/T	Rec/T	Rec/A	Rec/A	Loss	Rev/T	Rev/T	Rev/A	Rev/A	Sugar	Yield	Na	K	AmN	Bolter	Emerg.
Description @	Code	lbs.	%Mean	lbs.	%Mean	Mol %	\$ ++	%Mean	\$ ++	%Mean	%	T/A	ppm	ppm	ppm	/Ac	%
<b>Previous Approved</b>																	
Crystal 620	807	314.2	100	9613	104	1.24	42.76	100	1307	104	16.95	30.72	284	1674	418	0	0.0
Crystal 840	802	302.7	96	9469	103	1.27	39.57	93	1237	98	16.39	31.13	327	1648	423	0	0.0
Crystal R761	806	311.3	99	9962	108	1.43	41.95	98	1339	106	16.98	32.09	375	1853	480	0	0.0
Hilleshög HM3035Rz	803	322.5	103	8926	97	1.17	45.08	105	1246	99	17.31	27.76	273	1509	407	0	0.0
Seedex 8869 Cnv	801	313.1	100	9492	103	1.17	42.47	99	1290	102	16.84	30.56	433	1523	346	0	0.0
SV 48777	805	323.2	103	9070	98	1.10	45.29	106	1270	101	17.27	27.97	283	1475	349	0	0.0
<b>Newly Approved</b>																	
Crystal 950	804	309.7	99	9821	106	1.25	41.51	97	1315	104	16.74	31.46	317	1597	424	0	0.0
Benchmark Mean		319.6		9666		1.20	46.17		1367		17.52	29.63	257	1587	417		0.0
Trial Mean		314.1		9235		1.23	42.75		1260		16.93	29.32	325	1604	405		0.0
Coeff. of Var. (%)		3.7		3.7		8.0	7.6		6.7		3.1	3.3	32.2	4.0	14.5		0.0
Mean LSD (0.05)		18.6		560		0.15	5.17		138		0.84	1.52	161	103	85		0.0
Mean LSD (0.01)		25.1		758		0.20	6.98		187		1.14	2.04	216	138	114		0.0
Sig Lvl		**		**		*	**		**		**	**	**	**	*		0.0

\* 2019 Data from Scandia MN

Created 11/18/2019

%Mean = percentage of trial mean.

Trial # = 198208

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.

## 2019 Performance of Approved Varieties - Conventional Official Trials

### Bathgate ND - All Characters

<b>Unadjusted</b>	Rec/T	Rec/T	Rec/A	Rec/A	Loss	Rev/T	Rev/T	Rev/A	Rev/A	Sugar	Yield	Na	K	AmN	Bolter	Emerg.	
Description @	Code	lbs.	%Mean	lbs.	%Mean	Mol %	\$ ++	%Mean	\$ ++	%Mean	%	T/A	ppm	ppm	/Ac	%	
<b>Previous Approved</b>																	
Crystal 620	807	327.2	101	10825	104	0.89	46.39	102	1539	105	17.25	32.98	131	1558	229	0	0.0
Crystal 840	802	314.1	97	9830	94	1.05	42.73	94	1331	91	16.76	31.46	201	1669	296	0	0.0
Crystal R761	806	317.6	98	11158	107	0.96	43.70	96	1541	105	16.83	35.00	155	1673	250	0	0.0
Hilleshög HM3035Rz	803	325.0	100	9513	91	0.85	45.76	100	1348	92	17.11	29.04	122	1544	209	0	0.0
Seedex 8869 Cnv	801	322.7	99	10925	105	0.80	45.15	99	1525	104	16.95	33.93	122	1535	167	0	0.0
SV 48777	805	340.6	105	11036	106	0.81	50.12	110	1623	111	17.84	32.47	123	1548	174	0	0.0
<b>Newly Approved</b>																	
Crystal 950	804	317.1	98	10989	106	0.89	43.58	95	1509	103	16.75	34.71	162	1585	210	0	0.0
Benchmark Mean		329.4		10734		0.91	46.48		1523		17.29	32.78	132	1578	241		0.0
Trial Mean		324.7		10408		0.91	45.70		1465		17.15	32.05	145	1595	232		0.0
Coeff. of Var. (%)		3.2		6.7		5.6	6.2		9.1		2.8	5.2	18.6	3.8	10.6		0.0
Mean LSD (0.05)		15.9		998		0.08	4.44		194		0.76	2.39	44	89	42		0.0
Mean LSD (0.01)		21.5		1341		0.11	5.97		261		1.02	3.20	60	120	57		0.0
Sig Lvl		*		**		**	*		**		*	**	**	**	**		0.0

\* 2019 Data from Bathgate ND

Created 11/18/2019

%Mean = percentage of trial mean.

Trial # = 198213

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a \$44.38 beet payment at 17.5% sugar & 1.5% loss to molasses and does not consider hauling costs.