

Table 1. Field performance of **COMMERCIAL** sugarbeet varieties¹ in the Amalgamated Sugar Co. LLC Variety Trial at the **ABERDEEN RESEARCH and EXTENSION CENTER, ABERDEEN, Idaho, 2002.**

VARIETY	Root ²	Sugar	Gross	Conduc-	Extrac-	Estimated		Curly Top Ratings ³				
	Yield (T/A)	Content (%)	Sugar (lbs/A)	tivity (mmhos)	tion (%)	Recoverable Sugar (lbs/T)	(lbs/A)	1998	1999	2000	2001	2002
ACH Seeds												
ACH Mustang	35.69	15.76	11265	0.852	83.37	263.1	9403 c-h ^z	3.5	4.5	-	5.1	3.7
Crystal 9908 ⁴	33.32	16.22	10798	0.886	83.02	269.4	8964 fgh	-	-	-	5.8	3.8
Betaseed												
Beta 4035R ⁴	33.77	15.39	10393	0.951	81.96	252.4	8522 hij	3.9	5.4	-	5.0	4.2
Beta 4199R ⁴	35.96	15.59	11222	0.888	82.85	258.4	9304 c-h	-	-	-	5.3	3.8
Beta 4490R ⁴	34.48	15.33	10571	0.921	82.36	252.6	8705 hij	-	4.6	-	4.8	3.8
Beta 4773R ⁴	38.73	16.38	12682	0.866	83.33	273.2	10571 a	-	-	-	4.8	4.1
Beta 8118	31.83	16.15	10277	0.863	83.32	269.1	8563 hij	2.9	4.4	-	4.7	3.2
Beta 8220B	36.57	15.34	11214	0.918	82.40	252.9	9239 d-h	3.1	4.6	-	4.8	3.5
Beta 8348	34.73	16.42	11396	0.856	83.46	274.1	9516 b-h	4.8	5.2	-	6.2	4.6
Beta 8757	34.80	15.96	11126	0.928	82.40	263.2	9181 d-h	3.4	4.6	-	5.2	3.8
Beta 8859	34.03	16.77	11416	0.728	85.23	285.9	9734 a-g	-	-	-	5.1	4.2
Beta 8919	32.34	16.74	10800	0.806	84.19	282.1	9087 e-h	3.6	5.2	-	5.0	3.8
Hilleshog/Syngenta												
HM 1642	36.34	16.73	12157	0.782	84.52	282.9	10275 abc	-	4.9	-	5.0	4.1
HM 2980RZ ⁴	34.99	15.88	11119	0.919	82.51	262.0	9175 d-h	-	4.9	-	4.7	4.6
HM 2984RZ ⁴	35.08	15.86	11127	0.775	84.42	267.9	9398 c-h	-	-	-	4.8	3.1
HM Oasis	35.95	15.67	11276	0.819	83.80	262.7	9453 b-h	3.3	4.2	-	4.7	2.9
HM Owyhee	37.58	15.90	11945	0.768	84.52	268.8	10098 a-d	3.1	4.2	-	4.3	3.3
HM PM21	35.53	16.64	11831	0.699	85.59	284.9	10129 a-d	3.6	4.6	-	4.4	3.1
Holly Hybrids-Spreckels												
EagleRZM ⁴	31.44	14.81	9331	1.099	79.79	236.4	7457 k	-	-	-	6.2	4.4
HH 120	31.46	15.34	9654	0.992	81.39	249.8	7859 jk	3.7	5.9	-	5.6	4.0
HH 125 ⁵	32.02	16.65	10645	0.799	84.27	280.7	8971 fgh	3.8	5.9	-	5.8	4.6
PhoenixRZM ⁴	33.57	14.71	9892	1.061	80.30	236.4	7948 ijk	-	-	-	5.3	4.9
Seedex												
SX Blazer	33.10	15.90	10513	0.860	83.30	265.1	8757 g-j	3.0	4.4	-	5.1	4.1
SX Cascade	36.05	15.99	11531	0.731	85.03	271.9	9805 a-f	-	4.1	-	5.2	3.2
SX Orbit	36.05	16.87	12157	0.684	85.83	289.6	10436 ab	-	-	-	4.8	4.1
SX Puma	36.59	16.20	11862	0.784	84.38	273.4	10013 a-e	-	4.3	-	4.7	3.6
SX Raptor ⁴	34.05	15.81	10779	0.940	82.20	260.1	8868 f-i	-	-	-	4.7	4.1
Curly Top Susceptible Check								5.5	6.4	-	6.9	5.6
Curly Top Resistant Check (US 41)								3.6	4.7	-	5.3	3.5
LSD (0.05)	3.46	0.47	1153	0.077	1.12	11.0	1002					
LSD (0.10)	2.90	0.39	966	0.064	0.94	9.2	840					
CV (%)	9.5	2.8	10.0	8.5	1.3	4.0	10.4					
Pr>F	0.0004	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001					

When comparing yields or sugars of two varieties, the values must differ by a value equal to or greater than the LSD (0.05) given at the bottom of each column to be considered statistically different in this test.

^zMeans followed by the same letter are not significantly different at P ≤ 0.05.

Planted April 24, 2002; Harvested October 7-8, 2002.

¹ All entries are commercial seed obtained locally.

² Root yields have been tared 5%.

³ Curly Top Ratings: 0 = no curly top symptoms; 9 = plants killed. To calculate and compare the average curly top resistance of two or more varieties, use only those years data in which the compared varieties all have ratings.

The Beet Sugar Development Foundation's 2000 Curly Top test results are omitted due to inconsistent ratings; a result of severe stand loss at cultivation.

⁴ Entered as a rhizomania resistant variety.

⁵ Entered as a rhizoctonia resistant variety.