

Table 2. Field performance of **COMMERCIAL** sugarbeet varieties¹ in the Amalgamated Sugar Co. LLC Variety Trial at **BINGHAM FARMS, JEROME**, 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 (lbs/T)	Sugar (lbs/A)	1998	1999	2000	2001	2002
ACH Seeds												
ACH Mustang	37.61	15.97	12020	0.895	82.85	264.7	9961 f-j ²	3.5	4.5	-	5.1	3.7
Crystal 9908 ⁴	36.66	16.61	12174	0.871	83.31	276.9	10143 e-j	-	-	-	5.8	3.8
Betaseed												
Beta 4035R ⁴	37.02	15.92	11798	0.937	82.27	262.1	9715 g-j	3.9	5.4	-	5.0	4.2
Beta 4199R ⁴	39.00	16.29	12697	0.844	83.60	272.4	10614 b-f	-	-	-	5.3	3.8
Beta 4490R ⁴	39.64	15.93	12627	0.889	82.92	264.3	10472 b-g	-	4.6	-	4.8	3.8
Beta 4773R ⁴	39.80	16.97	13511	0.915	82.78	281.0	11184 ab	-	-	-	4.8	4.1
Beta 8118	37.22	16.65	12390	0.854	83.55	278.2	10352 d-h	2.9	4.4	-	4.7	3.2
Beta 8220B	40.47	15.63	12669	0.936	82.23	257.2	10422 b-h	3.1	4.6	-	4.8	3.5
Beta 8348	39.54	16.55	13087	0.918	82.65	273.6	10821 a-e	4.8	5.2	-	6.2	4.6
Beta 8757	35.84	16.26	11662	0.886	83.03	270.1	9686 hij	3.4	4.6	-	5.2	3.8
Beta 8859	36.54	17.57	12863	0.706	85.68	301.1	11027 a-d	-	-	-	5.1	4.2
Beta 8919	33.92	17.08	11584	0.849	83.70	285.9	9696 hij	3.6	5.2	-	5.0	3.8
Hilleshog/Syngenta												
HM 1642	36.24	16.91	12252	0.816	84.11	284.5	10305 d-h	-	4.9	-	5.0	4.1
HM 2980RZ ⁴	41.87	16.47	13794	0.886	83.08	273.7	11462 a	-	4.9	-	4.7	4.6
HM 2984RZ ⁴	39.20	15.90	12472	0.857	83.34	265.2	10400 c-h	-	-	-	4.8	3.1
HM Oasis	38.45	15.94	12289	0.812	83.95	267.7	10319 d-h	3.3	4.2	-	4.7	2.9
HM Owyhee	38.67	15.92	12308	0.863	83.27	265.2	10249 e-i	3.1	4.2	-	4.3	3.3
HM PM21	36.14	16.56	11991	0.764	84.72	280.6	10160 e-j	3.6	4.6	-	4.4	3.1
Holly Hybrids-Spreckels												
EagleRZM ⁴	38.13	15.30	11670	1.047	80.62	246.9	9419 j	-	-	-	6.2	4.4
HH 120	38.51	15.69	12092	0.949	82.05	257.6	9926 f-j	3.7	5.9	-	5.6	4.0
HH 125 ⁵	35.71	17.58	12557	0.801	84.43	296.9	10605 b-f	3.8	5.9	-	5.8	4.6
PhoenixRZM ⁴	40.05	14.87	11902	1.103	79.74	237.1	9495 ij	-	-	-	5.3	4.9
Seedex												
SX Blazer	35.45	16.12	11423	0.876	83.14	268.2	9498 ij	3.0	4.4	-	5.1	4.1
SX Cascade	37.28	16.17	12058	0.751	84.81	274.3	10225 e-i	-	4.1	-	5.2	3.2
SX Orbit	38.14	17.12	13056	0.716	85.47	292.6	11157 abc	-	-	-	4.8	4.1
SX Puma	37.12	16.40	12176	0.808	84.11	276.0	10241 e-i	-	4.3	-	4.7	3.6
SX Raptor ⁴	39.06	16.22	12672	0.939	82.31	267.1	10436 b-h	-	-	-	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)	2.14	0.51	861	0.066	0.96	10.7	769					
LSD (0.10)	1.79	0.43	722	0.055	0.80	9.0	645					
CV (%)	5.6	3.1	7.0	7.6	1.2	3.9	7.5					
Pr>F	0.0001	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.

²Means followed by the same letter are not significantly different at P ≤ 0.05.

Planted April 25, 2002; Harvested October 17-18, 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.