

Table 4. Field performance of **EXPERIMENTAL** sugarbeet varieties in the Amalgamated Sugar Co. LLC variety trial at the **ABERDEEN RESEARCH and EXTENSION CENTER, ABERDEEN, Idaho, 2002**

VARIETY	Root ¹ Yield (T/A)	Sugar Content (%)	Gross Sugar (lbs/A)	Conduc- tivity (mmhos)	Extrac- tion (%)	Estimated Recoverable Sugar (lbs/T) (lbs/A)		Curly Top Rating 2002
ACH Seeds								
ACH Mustang ²	34.18	14.88	10168	1.017	80.93	240.9	8231 f-j ^z	3.7
Crystal 0003	32.83	15.80	10375	0.925	82.41	260.4	8550 d-h	3.6
Crystal C216 ³	31.29	16.15	10101	0.951	82.13	265.3	8296 f-i	3.8
Crystal C217 ³	42.38	15.61	13229	0.956	81.94	255.9	10838 a	3.6
Crystal C219 ³	37.89	14.10	10672	1.269	77.20	218.0	8244 f-j	3.4
Betaseed								
Beta 1YK0012 ³	34.62	15.26	10559	0.941	82.06	250.6	8669 d-g	4.3
Beta 2YK0014 ^{3,4}	37.13	15.26	11324	1.031	80.82	246.9	9166 b-e	4.4
Beta 2YK0015 ³	33.18	16.33	10837	0.925	82.51	269.6	8947 c-f	4.1
Beta 2YK0016 ³	36.62	15.37	11259	1.022	80.99	249.0	9121 cde	3.8
Beta 2YK0017 ³	31.54	16.20	10224	0.949	82.16	266.3	8400 e-i	4.1
Beta 7CG6000	36.06	15.67	11279	0.945	82.10	257.4	9256 bcd	3.7
Beta 8757 ²	32.73	16.01	10481	0.931	82.37	263.9	8635 d-g	3.8
Hilleshog/Syngenta								
HM 2986RZ ³	35.97	16.01	11515	0.813	83.96	268.9	9667 bc	3.4
HM 2987	37.30	17.01	12692	0.696	85.70	291.5	10878 a	3.4
HM Owyhee ²	37.50	15.82	11880	0.834	83.63	264.7	9942 b	3.3
HM PM21 ²	34.34	16.60	11390	0.819	84.00	278.9	9565 bc	3.1
Holly Hybrids-Spreckels								
00HX011RZM ^{3,4}	30.90	15.46	9551	1.019	81.05	250.6	7744 ijk	4.3
00HX032	32.87	14.77	9717	1.099	79.78	235.8	7754 ijk	3.8
00HX033 ⁴	33.18	15.88	10540	0.966	81.87	260.0	8630 d-g	5.3
01HX004RZM ³	33.38	13.85	9241	1.229	77.72	215.3	7184 k	3.6
01HX047RZM ^{3,4}	29.63	16.13	9567	0.864	83.29	268.7	7976 g-j	4.7
02HX212RZM ^{3,4}	29.15	16.02	9332	0.863	83.30	266.9	7774 h-k	4.9
02HX226RZM ³	31.60	15.39	9749	1.006	81.22	250.1	7929 g-k	4.2
02HX227RZM ³	30.59	15.24	9290	1.035	80.76	246.5	7504 jk	4.6
02HX228RZM ^{3,4}	31.77	15.63	9940	0.986	81.54	255.0	8113 g-j	5.2
02HX240RZM ³	34.31	14.71	10103	1.066	80.23	236.1	8112 g-j	3.9
Curly Top Susceptible Check								5.6
Curly Top Resistant Check (US 41)								3.5
LSD (0.05)	2.71	0.47	898	0.078	1.16	10.6	781	
LSD (0.10)	2.27	0.39	753	0.066	0.97	8.9	654	
CV (%)	8.0	3.0	8.5	8.1	1.4	4.2	9.1	
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.

^zMeans followed by the same letter are not significantly different at $P \leq 0.05$.

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

¹ Root yields have been tared 5%.

² Commercial check varieties.

³ Entered as a rhizomania resistant variety.

⁴ Entered as a rhizoctonia resistant variety.