

Table 5. Field performance of **EXPERIMENTAL** sugarbeet varieties in the Amalgamated Sugar Co. LLC variety trial at **BINGHAM FARMS, JEROME, 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	36.84	15.45	11393	0.991	81.43	251.8	9286 f-i ^z	3.7
Crystal 0003	36.80	15.92	11706	0.941	82.21	261.9	9621 d-g	3.6
Crystal C216 ³	34.30	16.11	11052	0.910	82.67	266.5	9144 ghi	3.8
Crystal C217 ³	40.19	15.75	12659	0.913	82.57	260.1	10453 abc	3.6
Crystal C219 ³	36.82	15.01	11050	1.121	79.52	238.9	8794 hi	3.4
Betaseed								
Beta 1YK0012 ³	37.98	16.06	12196	0.849	83.48	268.1	10183 a-d	4.3
Beta 2YK0014 ^{3,4}	35.86	15.93	11420	0.969	81.84	260.7	9348 e-i	4.4
Beta 2YK0015 ³	34.42	16.30	11209	0.936	82.35	268.7	9230 f-i	4.1
Beta 2YK0016 ³	37.28	15.90	11847	0.937	82.27	261.8	9745 c-g	3.8
Beta 2YK0017 ³	36.34	16.53	12000	0.903	82.87	274.0	9944 b-f	4.1
Beta 7CG6000	39.36	15.42	12137	0.989	81.43	251.3	9893 b-f	3.7
Beta 8757 ²	36.44	16.16	11774	0.914	82.63	267.1	9733 c-g	3.8
Hilleshog/Syngenta								
HM 2986RZ ³	38.25	16.19	12392	0.802	84.14	272.6	10428 abc	3.4
HM 2987	38.13	16.80	12812	0.744	85.03	285.7	10894 a	3.4
HM Owyhee ²	38.39	15.80	12136	0.887	82.92	262.0	10064 b-e	3.3
HM PM21 ²	37.99	16.52	12526	0.762	84.74	280.0	10608 ab	3.1
Holly Hybrids-Spreckels								
00HX011RZM ^{3,4}	36.44	16.17	11778	0.887	83.00	268.6	9777 c-g	4.3
00HX032	35.89	15.13	10884	1.069	80.27	243.1	8761 hi	3.8
00HX033 ⁴	35.67	16.66	11872	0.911	82.78	275.9	9829 c-g	5.3
01HX004RZM ³	39.56	14.17	11219	1.183	78.46	222.4	8808 hi	3.6
01HX047RZM ^{3,4}	35.86	16.10	11545	0.910	82.67	266.3	9549 d-g	4.7
02HX212RZM ^{3,4}	30.61	16.82	10298	0.797	84.34	283.8	8687 i	4.9
02HX226RZM ³	34.76	16.45	11429	0.892	82.99	273.1	9487 d-h	4.2
02HX227RZM ³	33.07	16.17	10700	0.951	82.13	265.7	8793 hi	4.6
02HX228RZM ^{3,4}	33.43	16.55	11066	0.876	83.22	275.5	9213 f-i	5.2
02HX240RZM ³	34.16	15.53	10614	0.966	81.78	254.1	8685 i	3.9
Curly Top Susceptible Check								5.6
Curly Top Resistant Check (US 41)								3.5
LSD (0.05)	2.32	0.55	823	0.079	1.18	12.2	736	
LSD (0.10)	1.94	0.46	690	0.066	0.98	10.2	617	
CV (%)	6.3	3.4	7.0	8.5	1.4	4.6	7.6	
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 25, 2002; Harvested October 17-18, 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.