

**Table 6.** Field performance of **EXPERIMENTAL** sugarbeet varieties in the Oregon State University variety trial at the **MALHEUR EXPERIMENT STATION, ONTARIO, 2002**

VARIETY	Root <sup>1</sup> 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
<b>ACH Seeds</b>								
ACH Mustang <sup>2</sup>	50.42	16.03	16168	0.988	81.61	261.7	13197 e-i <sup>z</sup>	3.7
Crystal 0003	54.50	16.12	17561	0.983	81.69	263.4	14345 abc	3.6
Crystal C216 <sup>3</sup>	47.32	16.93	16025	0.904	82.93	280.8	13293 d-i	3.8
Crystal C217 <sup>3</sup>	54.53	16.22	17678	0.981	81.73	265.2	14450 ab	3.6
Crystal C219 <sup>3</sup>	51.46	16.23	16689	1.005	81.41	264.3	13587 c-h	3.4
<b>Betaseed</b>								
Beta 1YK0012 <sup>3</sup>	49.38	16.56	16356	0.897	82.95	274.8	13569 c-h	4.3
Beta 2YK0014 <sup>3,4</sup>	49.99	15.68	15663	1.069	80.40	252.3	12599 ij	4.4
Beta 2YK0015 <sup>3</sup>	47.57	16.67	15851	0.947	82.29	274.4	13045 f-i	4.1
Beta 2YK0016 <sup>3</sup>	53.49	15.92	17030	1.063	80.54	256.6	13723 b-g	3.8
Beta 2YK0017 <sup>3</sup>	48.30	17.29	16683	0.978	81.99	283.6	13676 b-h	4.1
Beta 7CG6000	56.28	16.09	18104	0.908	82.70	266.1	14973 a	3.7
Beta 8757 <sup>2</sup>	48.21	16.45	15842	0.996	81.58	268.5	12927 hij	3.8
<b>Hilleshog/Syngenta</b>								
HM 2986RZ <sup>3</sup>	49.44	16.56	16368	0.870	83.31	275.9	13635 c-h	3.4
HM 2987	48.33	17.16	16582	0.777	84.67	290.7	14038 bcd	3.4
HM Owyhee <sup>2</sup>	49.31	16.79	16540	0.887	83.13	279.1	13749 b-f	3.3
HM PM21 <sup>2</sup>	49.22	17.14	16870	0.841	83.82	287.4	14140 bc	3.1
<b>Holly Hybrids-Spreckels</b>								
00HX011RZM <sup>3,4</sup>	51.66	16.32	16854	0.933	82.41	269.0	13893 b-e	4.3
00HX032	53.12	16.02	16986	1.034	80.96	259.6	13748 b-f	3.8
00HX033 <sup>4</sup>	47.57	16.79	15977	0.934	82.50	277.0	13183 e-i	5.3
01HX004RZM <sup>3</sup>	54.07	15.00	16214	1.111	79.68	239.1	12923 hij	3.6
01HX047RZM <sup>3,4</sup>	48.03	16.28	15637	0.894	82.93	270.1	12969 ghi	4.7
02HX212RZM <sup>3,4</sup>	41.40	16.97	14046	0.849	83.67	284.2	11753 k	4.9
02HX226RZM <sup>3</sup>	50.85	16.22	16450	1.022	81.16	263.7	13353 d-i	4.2
02HX227RZM <sup>3</sup>	44.02	16.87	14850	0.965	82.09	276.9	12191 jk	4.6
02HX228RZM <sup>3,4</sup>	44.41	17.06	15148	0.889	83.15	283.7	12595 ij	5.2
02HX240RZM <sup>3</sup>	52.38	15.35	16083	1.054	80.54	247.3	12957 g-j	3.9
Curly Top Susceptible Check								5.6
Curly Top Resistant Check (US 41)								3.5
LSD (0.05)	2.66	0.51	886	0.066	0.99	11.0	777	
LSD (0.10)	2.22	0.43	742	0.055	0.83	9.2	651	
CV (%)	5.3	3.1	5.4	6.9	1.2	4.1	5.8	
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.

<sup>z</sup>Means followed by the same letter are not significantly different at  $P \leq 0.05$ .

Planted April 2, 2002; Harvested October 11-12, 2002.

<sup>1</sup> Root yields have been tared 5%.

<sup>2</sup> Commercial check varieties.

<sup>3</sup> Entered as a rhizomania resistant variety.

<sup>4</sup> Entered as a rhizoctonia resistant variety.