

**Table 8.** Summary of combined results from the **2002** and **2003** Amalgamated Sugar Co. LLC and Oregon State University **COMMERCIAL** sugarbeet Variety Trials at **SIX LOCATIONS**<sup>1</sup>

VARIETY	Root <sup>2</sup>	Sugar	Gross	Conduc-	Extrac-	Estimated		Curly Top Ratings <sup>3</sup>			
	Yield (T/A)	Content (%)	Sugar (lbs/A)	tivity (mmhos)	tion (%)	Recoverable Sugar (lbs/T)	(lbs/A)	1999	2001	2002	2003
<b>ACH Seeds</b>											
ACH Mustang	43.42	15.67	13662	0.889	82.84	259.9	11331 fg <sup>z</sup>	4.5	5.1	3.7	4.9
<b>Betaseed</b>											
Beta 4035R <sup>4</sup>	42.16	15.66	13259	0.944	82.10	257.4	10907 hi	5.4	5.0	4.2	5.5
Beta 4199R <sup>4</sup>	43.40	16.01	13956	0.896	82.81	265.3	11566 c-g	-	5.3	3.8	5.3
Beta 4490R <sup>4</sup>	43.83	15.54	13682	0.940	82.11	255.5	11252 gh	4.6	4.8	3.8	4.8
Beta 4773R <sup>4</sup>	44.01	16.19	14255	0.906	82.72	268.1	11802 a-d	-	4.8	4.1	5.8
Beta 8220B	47.20	15.24	14439	0.927	82.24	250.8	11890 abc	4.6	4.8	3.5	4.9
Beta 8348	43.69	16.06	14025	0.888	82.95	266.6	11637 c-f	5.2	6.2	4.6	6.2
Beta 8859	42.06	16.60	13986	0.735	85.09	282.8	11912 abc	-	5.1	4.2	5.4
<b>Hilleshog/Syngenta</b>											
HM 1642	42.59	16.43	14019	0.842	83.64	275.1	11731 b-e	4.9	5.0	4.1	5.9
HM 2980RZ <sup>4</sup>	46.05	15.92	14725	0.930	82.34	262.4	12136 a	4.9	4.7	4.6	4.9
HM 2984RZ <sup>4</sup>	42.33	15.86	13472	0.839	83.55	265.1	11264 gh	-	4.8	3.1	3.9
HM Oasis	43.28	15.73	13681	0.819	83.79	263.9	11481 d-g	4.2	4.7	2.9	3.9
HM Owyhee	44.84	15.68	14101	0.840	83.50	262.0	11787 a-d	4.2	4.3	3.3	3.5
HM PM21	42.37	16.25	13828	0.754	84.77	275.7	11728 b-e	4.6	4.4	3.1	3.7
<b>Holly Hybrids-Spreckels</b>											
EagleRZ <sup>4</sup>	43.96	14.97	13243	1.019	80.91	242.5	10752 i	-	6.2	4.4	5.1
HH 120	42.43	15.44	13167	0.966	81.74	252.8	10790 i	5.9	5.6	4.0	5.9
HH 125 <sup>5</sup>	42.35	16.73	14208	0.792	84.36	282.5	12005 ab	5.9	5.8	4.6	6.8
PhoenixRZ <sup>4</sup>	45.72	15.14	13951	0.993	81.30	246.4	11385 efg	-	5.3	4.9	5.0
<b>Seedex</b>											
SX Cascade	43.91	15.66	13800	0.750	84.69	265.5	11702 b-e	4.1	5.2	3.2	3.9
SX Orbit	43.35	16.42	14269	0.758	84.76	278.5	12098 a	-	4.8	4.1	5.1
SX Puma	43.09	16.16	13936	0.776	84.47	273.2	11782 a-d	4.3	4.7	3.6	4.3
SX RaptorRZ <sup>4</sup>	44.35	15.83	14074	0.952	82.03	259.8	11553 c-g	-	4.7	4.1	5.7
Curly Top Susceptible Check								6.4	6.9	5.6	6.8
Curly Top Resistant Check (US 41)								4.7	5.3	3.5	5.1
LSD (0.05)	1.22	0.21	412	0.031	0.45	4.5	365				
LSD (0.10)	1.02	0.18	346	0.026	0.37	3.8	306				
CV (%)	7.0	3.3	7.4	8.8	1.3	4.3	7.8				
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 ≤ 0.05.

<sup>1</sup> Locations: 2002: Aberdeen, Idaho; Jerome, Idaho; Ontario, Oregon.  
2003: Aberdeen, Idaho; Minidoka, Idaho; Ontario, Oregon.

<sup>2</sup> Root yields have been tared 5%.

<sup>3</sup> 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.

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

<sup>5</sup> Entered as a rhizoctonia resistant variety.