

Table 11. Summary of combined results from the **2001 and 2002 OREGON STATE UNIVERSITY COMMERCIAL**¹ Sugarbeet Variety Trials conducted at **the MALHEUR EXPERIMENT STATION, ONTARIO, Oregon.**

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	49.20	16.79	16480	0.808	84.16	282.9	13862 d-g ²	3.5	4.5	-	5.1	3.7
Betaseed												
Beta 4035R ⁴	47.72	16.92	16139	0.816	84.09	284.7	13567 fgh	3.9	5.4	-	5.0	4.2
Beta 4490R ⁴	49.01	16.88	16535	0.852	83.6	282.4	13810 efg	-	4.6	-	4.8	3.8
Beta 8118	46.00	17.21	15823	0.808	84.25	290.2	13331 gh	2.9	4.4	-	4.7	3.2
Beta 8220B	56.02	16.57	18515	0.792	84.34	279.7	15610 a	3.1	4.6	-	4.8	3.5
Beta 8348	46.68	16.85	15696	0.815	84.09	283.6	13188 h	4.8	5.2	-	6.2	4.6
Beta 8757	47.84	17.14	16370	0.791	84.47	289.7	13826 efg	3.4	4.6	-	5.2	3.8
Beta 8919	45.34	17.89	16216	0.739	85.29	305.2	13829 d-g	3.6	5.2	-	5.0	3.8
Hilleshog/Syngenta												
HM 1642	47.11	17.62	16573	0.748	85.12	300.2	14100 b-f	-	4.9	-	5.0	4.1
HM 2980RZ ⁴	51.31	16.95	17372	0.836	83.82	284.2	14546 bc	-	4.9	-	4.7	4.6
HM Oasis	49.61	17.00	16850	0.737	85.15	289.7	14343 b-e	3.3	4.2	-	4.7	2.9
HM Owyhee	50.39	17.13	17230	0.746	85.05	291.6	14654 b	3.1	4.2	-	4.3	3.3
HM PM21	47.63	17.30	16461	0.717	85.47	295.9	14057 c-f	3.6	4.6	-	4.4	3.1
Holly Hybrids-Spreckels												
HH 120	48.75	16.98	16530	0.836	83.82	284.9	13858 d-g	3.7	5.9	-	5.6	4.0
HH 125 ⁵	46.49	17.78	16500	0.685	85.98	305.8	14167 b-e	3.8	5.9	-	5.8	4.6
Seedex												
SX Blazer	45.30	17.05	15424	0.769	84.74	289.1	13065 h	3.0	4.4	-	5.1	4.1
SX Cascade	49.45	16.86	16637	0.686	85.79	289.4	14272 b-e	-	4.1	-	5.2	3.2
SX Puma	48.58	17.29	16801	0.695	85.77	296.7	14414 bcd	-	4.3	-	4.7	3.6
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)	1.98	0.29	687	0.034	0.48	5.9	587					
LSD (0.10)	1.66	0.24	576	0.029	0.40	4.9	492					
CV (%)	5.8	2.4	5.9	6.4	0.8	2.9	6.0					
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 $P \leq 0.05$.

¹ All entries are from the same commercial seed lots used in the Idaho variety trials.

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.