

Table 3. Commercial sugar beet variety root yield, sugar content, root quality, and recoverable sugar from varieties entered in the trial at Malheur Experiment Station, Oregon State University, Ontario, OR, 2001. November 15, 2001.

VARIETY ¹	Root Yield (T/A)	Sugar Content (%)	Gross Sugar (lbs/A)	Conduc- tivity (mmhos)	Extrac- tion (%)	Estimated Recoverable Sugar		Curly Top Ratings ²				
						(lbs/T)	(lbs/A)	1997	1998	1999	2000	2001
ACH Seeds												
ACH Mustang	45.81	17.53	16059	0.664	86.23	302.4	13846	3.8	3.5	4.5	-	5.1
ACH Tomcat	47.70	17.43	16626	0.674	86.07	300.1	14312	3.8	3.4	4.4	-	4.2
Crystal 9906 ^{3,4}	43.76	17.77	15545	0.638	86.60	307.9	13462	-	-	-	-	5.1
Betaseed												
Beta 4035R ³	46.37	17.22	15970	0.694	85.77	295.5	13698	4.6	3.9	5.4	-	5.0
Beta 4470R ³	37.14	17.73	13168	0.709	85.66	303.7	11280	-	3.6	5.1	-	5.8
Beta 4490R ³	46.28	17.12	15835	0.715	85.48	292.6	13534	-	-	4.6	-	4.8
Beta 8118	45.11	17.63	15906	0.691	85.88	302.9	13655	3.9	2.9	4.4	-	4.7
Beta 8220B	53.46	17.16	18331	0.661	86.18	295.8	15797	-	3.1	4.6	-	4.8
Beta 8348	43.67	17.28	15081	0.706	85.62	296.0	12913	4.0	4.8	5.2	-	6.2
Beta 4546 ⁴	43.12	17.40	14993	0.721	85.45	297.3	12814	-	-	-	-	5.6
Beta 8757	45.73	17.65	16123	0.677	86.07	303.9	13877	4.2	3.4	4.6	-	5.2
Beta 8919	44.01	18.05	15898	0.654	86.44	312.1	13750	3.6	3.6	5.2	-	5.0
Hilleshog Mono Hy												
HM 1642	45.48	18.11	16472	0.607	87.06	315.4	14338	-	-	4.9	-	5.0
HM 2980RZ ³	48.00	17.25	16556	0.700	85.70	295.7	14188	-	-	4.9	-	4.7
HM Oasis	47.87	17.43	16690	0.612	86.87	302.9	14496	3.8	3.3	4.2	-	4.7
HM Owyhee	49.01	17.63	17259	0.624	86.75	305.9	14971	2.9	3.1	4.2	-	4.3
HM PM21	43.98	17.61	15492	0.622	86.78	305.7	13442	3.6	3.6	4.6	-	4.4
Holly Hybrids-Spreckels												
HH 120	46.68	17.57	16408	0.714	85.57	300.8	14043	-	3.7	5.9	-	5.6
HH 125 (HH97HX706)	41.83	18.05	15104	0.581	87.39	315.5	13200	-	3.8	5.9	-	5.8
Seedex												
SX Blazer	42.78	17.42	14913	0.662	86.22	300.5	12864	4.1	3.0	4.4	-	5.1
SX Cascade (SX 1515)	47.20	17.52	16528	0.595	87.11	305.3	14398	-	-	4.1	-	5.2
SX Puma	49.07	17.42	17090	0.609	86.91	302.7	14853	-	-	4.3	-	4.7
Susceptible Check								6.1	5.5	6.4	-	6.9
US 41 (Resistant Check)								4.2	3.6	4.7	-	4.7
LSD (0.05)	2.77	0.37	948	0.049	0.67	7.8	825					
LSD (0.10)	2.32	0.31	794	0.041	0.56	6.5	691					
CV (%)	6.1	2.1	6.0	7.4	0.8	2.6	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.

¹ All entries are commercial seed obtained locally.

² 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.

³ Entered as a rhizomania resistant variety.

⁴ Entered as a rhizoctonia resistant variety.