

Table 1. Field performance of commercial sugarbeet varieties¹ in the University of Idaho variety trial at Bingham Farms, Jerome, Idaho, 2001. November 16, 2001.

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)	1997	1998	1999	2000	2001
ACH Seeds												
ACH Mustang	38.19	17.41	13285	0.736	85.25	296.8	11323	3.8	3.5	4.5	-	5.1
ACH Tomcat	39.62	17.48	13859	0.709	85.63	299.4	11868	3.8	3.4	4.4	-	4.2
Crystal 9906 ^{4,5}	35.41	17.29	12240	0.735	85.24	294.7	10433	-	-	-	-	5.1
Betaseed												
Beta 4035R ⁴	39.84	16.84	13414	0.794	84.38	284.1	11319	4.6	3.9	5.4	-	5.0
Beta 4470R ⁴	35.83	17.67	12665	0.766	84.91	300.2	10754	-	3.6	5.1	-	5.8
Beta 4490R ⁴	39.54	16.93	13392	0.754	84.93	287.7	11375	-	-	4.6	-	4.8
Beta 8118	36.98	17.99	13305	0.714	85.65	308.3	11394	3.9	2.9	4.4	-	4.7
Beta 8220B	42.79	17.28	14789	0.731	85.30	294.8	12615	-	3.1	4.6	-	4.8
Beta 8348	40.27	17.52	14106	0.758	84.99	297.8	11989	4.0	4.8	5.2	-	6.2
Beta 4546 ⁵	35.53	17.63	12522	0.754	85.06	299.9	10650	-	-	-	-	5.6
Beta 8757	37.22	17.40	12961	0.733	85.29	296.9	11052	4.2	3.4	4.6	-	5.2
Beta 8919	37.30	18.17	13561	0.692	85.97	312.5	11658	3.6	3.6	5.2	-	5.0
Hilleshog Mono Hy												
HM 1642	36.40	17.74	12928	0.678	86.08	305.4	11133	-	-	4.9	-	5.0
HM 2980RZ ⁴	41.15	17.39	14315	0.739	85.22	296.5	12200	-	-	4.9	-	4.7
HM Oasis	39.84	17.16	13677	0.643	86.42	296.6	11818	3.8	3.3	4.2	-	4.7
HM Owyhee	39.87	17.40	13877	0.652	86.35	300.5	11983	2.9	3.1	4.2	-	4.3
HM PM21	39.58	17.52	13868	0.631	86.65	303.6	12016	3.6	3.6	4.6	-	4.4
Holly Hybrids-Spreckels												
HH 120	38.39	17.68	13572	0.762	84.96	300.5	11532	-	3.7	5.9	-	5.6
HH 125 (HH97HX706)	38.76	18.25	14139	0.634	86.74	316.5	12262	-	3.8	5.9	-	5.8
Seedex												
SX Blazer	35.03	17.67	12372	0.669	86.18	304.5	10660	4.1	3.0	4.4	-	5.1
SX Cascade(SX 1515)	39.34	17.22	13555	0.62	86.73	298.8	11757	-	-	4.1	-	5.2
SX Puma	38.94	17.50	13631	0.612	86.88	304.2	11847	-	-	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)	1.71	0.49	710	0.043	0.59	9.5	620					
LSD (0.10)	1.43	0.41	594	0.036	0.5	7.9	519					
CV (%)	4.4	2.8	5.3	6.0	0.7	3.2	5.4					
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.

Planted April 17, 2001; Harvested October 16-17, 2001.

¹ All entries are commercial seed obtained locally.

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.