

Table 10. Field performance of **EXPERIMENTAL** sugarbeet varieties in **MODERATE RHIZOMANIA** conditions in the Amalgamated Sugar Co. LLC Variety Trial at the **DEAN BINGHAM FARM, JEROME, Idaho, 2003.**

VARIETY	Root ¹ Yield (T/A)	Sugar Content (%)	Gross Sugar (lbs/A)	Conduc- tivity (mmhos)	Extrac- tion (%)	Estimated Recoverable Sugar		Tare (%)	Curly Top Rating 2003
						(lbs/T)	(lbs/A)		
ACH Seeds									
Crystal 217R ²	28.91	17.38	10055	0.932	82.62	287.2	8313 ijk ^Z	8.68	5.4
Crystal 103	24.31	15.84	7687	1.110	79.88	253.0	6141 lmn	6.01	4.3
Crystal 316R ³	31.86	17.68	11273	0.855	83.70	296.2	9441 efg	5.89	5.4
Crystal 317R ³	33.34	17.07	11375	0.950	82.31	281.3	9372 e-h	5.01	5.3
Crystal 318R ³	25.87	17.74	9178	0.725	85.45	303.2	7845 k	7.29	5.8
Crystal 319R ³	34.46	17.74	12226	1.018	81.50	289.1	9964 b-e	3.77	5.4
Betaseed									
Beta 4490R ²	33.81	18.07	12213	0.803	84.49	305.3	10320 a-d	5.70	4.8
Beta 2YK0014 ^{3,4}	33.79	17.64	11926	0.861	83.63	295.1	9973 b-e	6.60	6.1
Beta 2YK0016 ³	30.99	17.69	10974	0.910	82.98	293.7	9115 f-i	6.28	4.8
Beta 3YK0018 ³	32.63	18.50	12072	0.822	84.30	312.1	10177 a-e	4.88	5.6
Beta 3YK0019 ³	34.72	18.65	12938	0.771	85.01	317.1	11002 a	5.71	5.1
Beta 3YK0020 ³	34.20	17.83	12209	0.907	83.04	296.2	10141 b-e	5.76	4.9
Beta 3YK0021 ³	33.50	18.49	12395	0.841	84.04	310.8	10420 abc	5.76	5.2
Beta 3YK0022 ³	32.62	18.42	12029	0.881	83.50	307.7	10049 b-e	5.42	4.8
Hilleshog/Syngenta									
HM 2986RZ ²	29.96	17.72	10600	0.769	84.87	300.8	9001 g-j	7.26	4.2
HM 2987	20.06	15.95	6398	0.909	82.65	263.7	5290 o	12.93	4.4
HM 2988RZ ³	30.97	18.22	11278	0.764	85.03	309.9	9591 d-g	5.07	5.5
HM 2989RZ ³	31.13	18.44	11476	0.869	83.66	308.7	9603 c-g	6.38	5.3
HM 2990	20.69	16.20	6738	0.954	82.08	266.1	5545 no	9.68	3.9
Holly Hybrids-Spreckels									
00HX011RZ ³	32.69	17.64	11524	0.699	85.78	302.6	9884 c-f	5.62	6.2
01HX047RZ ³	32.00	17.28	11051	0.716	85.49	295.4	9447 efg	4.41	6.4
02HX226RZ ³	25.31	16.49	8384	0.960	82.07	270.8	6899 l	5.54	4.9
03HX351RZ ³	36.12	17.65	12741	0.811	84.29	297.6	10742 ab	4.09	5.0
03HX353RZ ³	27.18	18.67	10155	0.806	84.55	315.8	8596 h-k	6.59	5.0
03HX355RZ ³	23.43	16.94	7960	1.044	81.00	274.4	6449 lm	7.66	5.2
03HX356	24.21	16.46	7982	1.102	80.11	263.9	6403 lm	7.72	5.3
03HX359RZ ³	27.88	17.14	9565	0.972	82.03	281.3	7850 k	5.53	5.5
Seedex									
SX RaptorRZ ²	34.03	17.35	11806	0.904	82.99	288.1	9799 c-g	6.11	5.7
SX1518	20.14	16.94	6837	0.908	82.87	280.9	5673 mno	9.56	5.3
SX1519 ³	27.56	17.58	9672	0.781	84.68	297.9	8190 jk	6.36	4.5
SX1520	22.05	16.76	7399	0.805	84.22	282.4	6233 lmn	7.50	5.2
SX1521 ³	31.24	18.72	11691	0.803	84.58	316.8	9891 c-f	4.79	4.9
Curly Top Susceptible Check									6.8
Curly Top Resistant Check (US 41)									5.1
LSD (0.05)	2.46	0.61	942	0.082	1.16	12.7	826	2.1	
LSD (0.10)	2.07	0.51	789	0.068	0.97	10.6	692	1.8	
CV (%)	8.7	3.6	9.5	9.7	1.5	4.5	9.9	34.2	
Pr>F	0.0001	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.

^ZMeans followed by the same letter are not significantly different at $P \leq 0.05$.

Planted April 21, 2003; Harvested October 15-16, 2003.

¹ Root yields have been individually tared.

² Commercial check varieties.

³ Entered as a rhizomania resistant variety.

⁴ Entered as a rhizoctonia resistant variety.