

Table 13. TWO-LOCATION SUMMARY of field performance of **EXPERIMENTAL RHIZOMANIA RESISTANT** sugarbeet varieties under disease conditions in the Amalgamated Sugar Company trial in Jerome County and the University of Idaho trial at Twin Falls, Idaho, 2003.

VARIETY	Root Yield (T/A)	Sugar Content (%)	Gross Sugar (lbs/A)	Conductivity (mmhos)	Extraction (%)	Estimated Recoverable Sugar		Tare (%)
						(lbs/T)	(lbs/A)	
ACH Seeds								
Crystal 217R ²	31.54	15.72	9828	0.956	81.92	257.8	8060	8.08
Crystal 317R	34.99	15.49	10752	0.969	81.69	253.6	8791	7.06
Crystal 318R	28.55	16.27	9200	0.739	84.94	276.6	7819	7.86
Crystal 319R	34.92	15.59	10869	1.089	80.02	250.2	8726	5.09
Betaseed								
Beta 4490R ²	35.60	16.16	11419	0.868	83.19	269.6	9511	5.96
Beta 2YK0014	33.83	15.86	10738	0.844	83.46	264.8	8967	8.80
Beta 2YK0016	33.49	15.71	10407	0.951	81.97	258.1	8541	7.70
Beta 3YK0018	33.03	16.49	10870	0.833	83.72	276.6	9109	7.14
Beta 3YK0019	35.38	17.00	12003	0.762	84.80	288.4	10184	6.46
Beta 3YK0020	34.65	15.77	10911	0.971	81.71	258.5	8937	8.03
Beta 3YK0021	35.71	16.50	11701	0.848	83.54	276.0	9782	5.79
Beta 3YK0022	33.36	16.16	10748	0.958	81.95	265.8	8835	7.42
Hilleshog/Syngenta								
HM2986RZ ²	30.96	16.19	9981	0.793	84.22	273.0	8414	7.70
HM 2988RZ	31.78	16.94	10739	0.780	84.56	286.7	9085	5.75
HM 2989RZ	32.32	16.37	10532	0.943	82.22	270.0	8676	7.38
Holly Hybrids-Spreckles								
00HX011RZ	32.35	16.60	10739	0.664	86.01	285.6	9234	5.29
01HX047RZ	32.16	16.20	10418	0.674	85.80	278.0	8937	4.62
02HX226RZ	27.98	15.22	8456	0.945	81.96	249.5	6943	5.58
03HX351RZ	38.39	15.70	11956	0.863	83.15	261.6	9952	4.78
03HX353RZ	29.82	16.91	9982	0.841	83.72	283.5	8364	7.35
03HX355RZ	26.12	15.37	7952	0.991	81.35	250.0	6473	8.21
03HX359RZ	29.48	15.51	9096	0.970	81.68	253.6	7433	6.11
Seedex								
SX RaptorRZ ²	34.57	16.29	11259	0.864	83.31	271.4	9378	6.05
SX1519	28.82	15.78	9037	0.881	82.92	262.6	7510	7.86
SX1521	31.05	17.25	10703	0.834	83.89	289.7	8986	5.14
CurlyTop Susceptible Check								
Curly Top Resistant Check (US 41)								
LSD (0.05)	1.91	0.43	639	0.059	0.85	9.0	558	1.39
LSD (0.10)	1.60	0.36	536	0.050	0.71	7.5	468	1.17
CV (%)	8.62	3.86	8.98	8.240	1.50	4.9	9.43	30.40
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.

¹ Curly Top Ratings: 0 = no curly top symptoms; 9 = plants killed.

² Commercial rhizomania resistant check varieties

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2003
Curly Top
Ratings¹

5.4
5.3
5.8
5.4

4.8
6.1
4.8
5.6
5.1
4.9
5.2
4.8

4.2
5.5
5.3

6.2
6.4
4.9
5.0
5.0
5.2
5.5

5.7
4.5
4.9

6.8
5.1
