

**Table 2.** Field performance of **EXPERIMENTAL** sugarbeet varieties in the Amalgamated Sugar Co. LLC Variety Trial at the **ABERDEEN RESEARCH and EXTENSION CENTER, ABERDEEN, Idaho, 2003**

VARIETY	Root <sup>1</sup> Yield (T/A)	Sugar Content (%)	Gross Sugar (lbs/A)	Conduc- tivity (mmhos)	Extrac- tion (%)	Estimated Recoverable Sugar		Curly Top Rating 2003
						(lbs/T)	(lbs/A)	
<b>ACH Seeds</b>								
Crystal 217R <sup>2</sup>	43.55	14.58	12709	1.040	80.54	234.9	10244 d-h <sup>z</sup>	5.4
Crystal 103	43.92	14.15	12426	1.084	79.81	226.1	9924 e-k	4.3
Crystal 316R <sup>3</sup>	45.37	14.34	13014	1.019	80.77	231.7	10517 c-g	5.4
Crystal 317R <sup>3</sup>	47.08	14.96	14074	0.991	81.31	243.4	11449 a	5.3
Crystal 318R <sup>3</sup>	39.23	15.47	12138	0.808	83.89	259.6	10190 d-i	5.8
Crystal 319R <sup>3</sup>	42.11	14.00	11791	1.218	77.89	218.3	9196 lmn	5.4
<b>Betaseed</b>								
Beta 4490R <sup>2</sup>	43.31	14.07	12180	1.078	79.88	225.0	9737 h-m	4.8
Beta 2YK0014 <sup>3,4</sup>	43.03	13.77	11861	1.206	78.01	215.1	9264 k-n	6.1
Beta 2YK0016 <sup>3</sup>	45.58	14.42	13146	1.055	80.31	231.6	10557 c-f	4.8
Beta 3YK0018 <sup>3</sup>	41.66	14.25	11875	1.098	79.66	227.2	9465 i-n	5.6
Beta 3YK0019 <sup>3</sup>	44.20	14.69	12983	0.985	81.33	239.1	10560 c-f	5.1
Beta 3YK0020 <sup>3</sup>	42.39	14.02	11888	1.164	78.67	220.8	9363 j-n	4.9
Beta 3YK0021 <sup>3</sup>	44.94	14.50	13039	1.018	80.82	234.6	10544 c-f	5.2
Beta 3YK0022 <sup>3</sup>	39.89	14.17	11305	1.116	79.38	225.2	8983 n	4.8
<b>Hilleshog/Syngenta</b>								
HM 2986RZ <sup>2</sup>	41.27	15.19	12551	0.878	82.89	252.0	10413 c-h	4.2
HM 2987	42.07	15.89	13369	0.762	84.60	268.9	11313 ab	4.4
HM 2988RZ <sup>3</sup>	38.23	15.80	12086	0.851	83.40	263.6	10081 d-j	5.5
HM 2989RZ <sup>3</sup>	41.09	15.07	12403	1.027	80.84	243.9	10041 d-j	5.3
HM 2990	42.32	15.58	13178	0.842	83.47	260.1	10997 abc	3.9
<b>Holly Hybrids-Spreckels</b>								
00HX011RZ <sup>3</sup>	40.08	15.85	12697	0.790	84.22	267.0	10695 bcd	6.2
01HX047RZ <sup>3</sup>	40.87	15.66	12795	0.798	84.07	263.3	10759 a-d	6.4
02HX226RZ <sup>3</sup>	38.28	14.61	11185	1.012	80.94	236.6	9061 mn	4.9
03HX351RZ <sup>3</sup>	43.58	14.10	12286	1.058	80.18	226.1	9852 e-l	5.0
03HX353RZ <sup>3</sup>	37.88	15.14	11479	0.974	81.59	247.2	9371 j-n	5.0
03HX355RZ <sup>3</sup>	34.39	14.63	10069	1.022	80.79	236.5	8147 o	5.2
03HX356	42.89	14.82	12710	0.949	81.85	242.6	10404 c-h	5.3
03HX359RZ <sup>3</sup>	36.14	14.14	10214	1.109	79.47	224.9	8121 o	5.5
<b>Seedex</b>								
SX RaptorRZ <sup>2</sup>	43.42	14.98	13014	1.001	81.19	243.3	10571 cde	5.7
SX1518	33.03	14.29	9418	1.077	79.93	228.8	7532 o	5.3
SX1519 <sup>3</sup>	37.48	13.72	10270	1.079	79.76	219.1	8197 o	4.5
SX1520	38.45	15.44	11876	0.884	82.87	256.0	9841 f-l	5.2
SX1521 <sup>3</sup>	39.17	15.43	12080	1.011	81.15	250.5	9804 g-l	4.9
Curly Top Susceptible Check								6.8
Curly Top Resistant Check (US 41)								5.1
LSD (0.05)	2.12	0.56	778	0.099	1.47	12.8	724	
LSD (0.10)	1.78	0.47	652	0.083	1.23	10.7	607	
CV (%)	5.4	4.0	6.8	10.4	1.9	5.6	7.8	
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.

<sup>z</sup>Means followed by the same letter are not significantly different at P ≤ 0.05.

Planted April 9, 2003; Harvested October 4, 2003.

<sup>1</sup> Root yields have been tared 5%.

<sup>2</sup> Commercial check varieties.

<sup>3</sup> Entered as a rhizomania resistant variety.

<sup>4</sup> Entered as a rhizoctonia resistant variety.