

**NDSU Carrington Research Extension Center  
2013 Variety Trial Data**

**Table 1. Root yield, sugar content and overall sugar yield of industrial beet varieties grown in dryland trials at Carrington, Harvey and Litchville, ND. Syngenta seed company collaborator.**

Variety Entry ID	Carrington Dryland			Shawn McKinven <sup>1</sup> Harvey Dryland			Dennis Nelson/Nelson Farms <sup>1</sup> Litchville Dryland		
	Root Yield	Sugar Content	Sugar Yield	Root Yield	Sugar Content	Sugar Yield	Root Yield	Sugar Content	Sugar Yield
	ton/ac	%	lb/ac	ton/ac	%	lb/ac	ton/ac	%	lb/ac
1	30.4	17.5	10,657	22.3	17.8	7,958	12.6	18.2	4,573
2	20.5	17.5	7,151	21.4	17.5	7,494	16.4	18.7	6,099
3	24.0	18.0	8,660	26.4	17.8	9,416	15.4	18.6	5,715
4	20.8	16.5	6,854	26.3	17.0	8,913	16.5	17.9	5,887
5	20.9	17.3	7,228	22.9	17.2	7,838	17.1	18.8	6,420
6	32.0	17.6	11,259	30.3	17.2	10,424	19.1	18.2	6,956
7	20.2	17.9	7,226	24.8	17.4	8,603	16.0	18.4	5,906
8	20.3	16.8	6,813	29.9	18.0	10,753	16.7	18.5	6,169
<b>MEAN</b>	<b>23.6</b>	<b>17.4</b>	<b>8,217</b>	<b>25.5</b>	<b>17.5</b>	<b>8,925</b>	<b>16.2</b>	<b>18.4</b>	<b>5,966</b>

**Planting Date: May 23;  
Harvest Date: October 29**

**Planting Date: June 7;  
Harvest Date: October 29**

**Planting Date: May 16;  
Harvest Date: September 30**

<sup>1</sup> Denotes the farmer cooperators at these respective sites who assisted in implementing the field trials.

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**Table 2. Sugar content, root yield and overall sugar yield of energy beet varieties grown in irrigated trials at Carrington and Oakes, ND. Syngenta seed company collaborator.**

Variety Entry ID	Carrington Irrigated			Oakes Irrigation Research Site Oakes Irrigated		
	Root Yield ton/ac	Sugar Content %	Sugar Yield lb/ac	Root Yield ton/ac	Sugar Content %	Sugar Yield lb/ac
1	22.1	18.7	8,259	30.2	15.8	9,543
2	27.3	19.0	10,390	28.8	16.1	9,235
3	27.8	18.8	10,432	28.5	16.3	9,275
4	26.7	17.8	9,493	30.5	15.4	9,403
5	30.1	18.3	11,042	32.0	15.9	10,150
6	32.3	18.0	11,647	34.2	15.5	10,583
7	29.5	18.3	10,806	31.2	15.8	9,828
8	28.7	18.5	10,617	29.7	16.0	9,467
<b>MEAN</b>	<b>28.1</b>	<b>18.4</b>	<b>10,345</b>	<b>30.6</b>	<b>15.8</b>	<b>9,694</b>

**Planting Date: May 23;  
Harvest Date: October 29**

**Planting Date: April 23;  
Harvest Date: September 30**

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**Table 3. Sugar content, root yield and overall sugar yield of energy beet varieties grown in irrigated trials at Dazey and Turtle Lake and a dryland trial at Colgate. Betaseed Inc., seed company collaborator.**

Variety Entry ID	Jim Broten <sup>1</sup> Dazey Irrigated			K & T Farms <sup>1</sup> Turtle Lake Irrigated			Jason Mewes <sup>1</sup> Colgate Dryland		
	Sugar Content	Root Yield	Gross Recoverable Sugar Yield	Sugar Content	Root Yield	Gross Recoverable Sugar Yield	Sugar Content	Root Yield	Gross Recoverable Sugar Yield
	%	ton/ac	lb/ac	%	ton/ac	lb/ac	%	ton/ac	lb/ac
ENR221	17.9	41.8	14,946	17.2	42.5	14,627	18.3	30.8	11,263
ENR224	16.9	49.1	16,572	16.5	39.3	13,004	18.3	25.1	9,224
EMR231	17.4	45.0	15,691	17.3	36.5	12,649	19.0	25.8	9,811
EAR234	17.3	43.7	15,126	17.4	34.6	12,012	17.8	30.3	10,782
ERR223	18.2	39.8	14,458	16.9	35.2	11,847	17.7	35.3	12,456
MEAN	17.5	43.9	15,359	17.1	37.6	12,828	18.2	29.5	10,707
LSD 0.05	1.17	1.63		0.63	10.82		0.80	5.41	

**Planting Date: May 14;  
Harvest Date: October 18**

**Planting Date: May 13;  
Harvest Date: October 17**

**Planting Date: May 14;  
Harvest Date: October 18**

<sup>1</sup> Denotes the farmer cooperators at these respective sites who assisted in implementing the field trials.