

## 2014 Over Location Northeast Summary—Syngenta Data

Variety	Yield bu/ac <sup>1</sup>						Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9	Lodging 1-9	Bacterial Leaf Streak 1-9	Fusarium Head Blight (Visual) 1-9	Worth Avg.
	CR	KD	MV	PR	VC	Avg.								
07S0274-2	72.1	100.5	92.8	85.1	68.3	83.8	62.2	13.8	5.7	6.4	1.7	3.2	2.0	4.7
SY Valda	72.5	90.7	84.5	88.6	76.2	82.5	62.4	14.1	4.9	5.1	1.0	3.0	2.0	3.3
Faller	69.5	98.7	93.9	77.0	72.0	82.2	62.7	13.8	6.1	7.4	2.3	2.8	2.0	5.7
WB9507	74.1	94.4	85.9	85.9	68.7	81.8	60.5	14.6	3.8	6.9	2.3	3.7	2.7	4.8
SY Rowyn	66.9	97.7	89.5	81.8	70.6	81.3	61.9	14.1	3.3	4.9	1.0	3.5	2.3	3.0
05S0242-6	74.3	94.6	89.7	78.4	67.4	80.9	61.3	14.1	2.7	4.4	1.3	3.0	4.7	4.3
Samson	70.4	88.8	91.0	83.1	69.0	80.5	61.1	14.2	4.5	5.1	1.3	4.3	5.3	5.3
06S0157-1	72.8	90.3	82.7	76.2	75.7	79.5	61.1	13.6	6.1	4.7	1.3	3.5	2.0	2.7
Jenna	72.8	90.4	79.9	78.4	75.5	79.4	61.4	14.2	6.7	6.0	2.0	3.0	2.0	4.0
LCS Powerplay	63.7	89.3	85.3	79.5	73.9	78.4	62.9	13.8	4.1	5.7	2.7	3.3	3.0	5.5
Albany	67.6	95.5	87.2	70.2	70.4	78.2	62.2	13.0	7.9	6.3	3.3	3.3	2.3	5.8
LCS Iguacu	66.8	100.1	79.6	76.2	62.6	77.1	62.3	12.4	7.0	6.2	1.0	2.3	3.0	4.2
SY Ingmar	71.0	84.9	80.2	73.0	70.8	76.0	62.8	14.9	4.9	4.7	2.3	2.8	2.0	4.0
05S0157-4	66.6	86.8	79.2	73.4	69.7	75.2	63.1	14.7	3.7	5.2	2.3	3.7	3.3	5.0
Knudson	62.8	87.9	80.8	70.1	67.4	73.8	61.6	13.8	5.5	6.2	2.0	3.2	3.0	5.2
SY Soren	68.0	75.1	77.9	74.7	72.9	73.7	62.1	15.1	4.3	4.2	2.3	4.5	3.0	4.5
Rollag	71.3	77.4	75.2	66.7	78.0	73.7	62.9	14.7	4.7	5.3	1.0	3.5	2.0	3.8
Linkert	74.0	75.1	73.8	66.4	74.1	72.7	61.9	15.0	4.7	4.3	1.0	3.7	3.0	4.3
RB07	71.8	82.3	69.6	71.0	67.8	72.5	61.7	14.6	4.8	6.6	2.0	4.3	2.7	5.5
SY605 CL	65.7	79.9	76.3	71.9	67.1	72.2	62.3	14.9	2.9	7.2	2.3	3.8	3.0	5.5
WB-Mayville	68.9	77.9	75.8	74.7	56.6	70.8	61.6	14.9	2.8	4.0	1.0	5.3	5.3	5.0
Alpine	60.3	75.8	81.7	72.7	62.4	70.6	60.7	13.9	3.7	5.8	2.0	3.8	3.3	4.7
Barlow	61.7	72.6	70.6	68.8	66.3	68.0	62.0	14.4	2.1	7.0	3.0	4.3	4.0	5.8
Brennan	60.0	73.2	69.6	72.4	58.2	66.7	61.3	15.1	4.6	4.3	2.7	5.5	3.3	4.5
Glenn	67.4	74.3	65.9	61.2	62.7	66.3	64.2	14.7	2.7	8.1	2.7	3.8	2.3	6.0
Kelby	54.4	73.5	69.3	65.0	62.9	65.0	61.3	15.4	3.4	3.3	3.0	5.0	2.7	4.8
<b>Mean</b>	<b>67.8</b>	<b>86.3</b>	<b>80.1</b>	<b>74.5</b>	<b>67.6</b>	<b>75.3</b>	<b>61.9</b>	<b>14.2</b>	<b>4.8</b>	<b>5.5</b>	<b>1.9</b>	<b>3.8</b>	<b>2.8</b>	<b>4.5</b>
<b>LSD (5%)</b>	<b>8.4</b>	<b>6.7</b>	<b>12.7</b>	<b>11.5</b>	<b>12.5</b>	<b>10.4</b>	—	—	—	—	—	—	—	—
<b>CV %</b>	<b>7.7</b>	<b>4.8</b>	<b>9.8</b>	<b>9.5</b>	<b>11.4</b>	<b>8.6</b>	—	—	—	—	—	—	—	—
<b>No. of Locs.</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>3</b>

Numerical ratings: Heading: 1= early; Height: 1 = short; Lodging: 1 = no lodging; Disease: 1 = no disease; Worth: 1 = best type

<sup>1</sup> Locations: Crookston, MN (CR), Kindred, ND (KD), McVillie, ND (MV), Park River, ND (PR), Valley City, ND (VC)

These agronomic assessments are made by Syngenta scientists and reflect each variety's relative performance within these characteristics through the 2014 crop year. Specific conditions may cause variations within those characteristics. These relative protection values are based on current pest and disease populations. These have been known to shift periodically and may cause changes in specific evaluations. Resistance to many other diseases and pests is sensitive to environmental conditions, plant development stages and the presence and intensity of other diseases which may result in specific evaluation inconsistencies. This chart is updated annually to reflect the most current trends.

## 2012-14 Over Year Summary Northeast Data Ranked By Yield —Syngenta Data

Variety	Econ. Return <sup>2</sup>		Yield bu/ac				Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9	Lodging 1-9	Bacterial Leaf Streak 1-9	Fusarium Head Blight 1-9			Worth 1-9
	\$/Bu	Gross \$/A	2012	2013	2014	Avg.							2014 Visual	2013 Visual	2013 FDK	
07S0274-2 <sup>1</sup>	\$4.73	\$387.82	82.3	80.1	83.8	82.1	62.1	13.4	5.6	6.8	1.8	2.7	2.0	2.5	18	4.6
SY Valda	\$4.80	\$390.72	82.2	79.3	82.5	81.3	62.7	13.6	5.0	4.6	1.0	1.8	2.0	2.0	3	3.7
Faller	\$4.73	\$377.47	80.1	77.3	82.2	79.9	62.5	13.4	6.2	7.5	3.2	2.8	2.0	3.0	2	5.7
05S0242-6	\$4.92	\$380.72	78.1	73.1	80.9	77.4	61.5	13.9	3.3	4.5	1.7	2.0	4.7	5.5	12	3.8
SY Rowyn	\$4.92	\$375.94	76.9	71.0	81.3	76.4	61.8	13.9	3.9	4.5	1.4	2.2	2.3	2.5	6	3.3
06S0157-1	\$4.77	\$362.84	74.5	74.4	79.5	76.1	61.2	13.5	6.2	4.4	1.3	2.5	2.0	2.0	2	3.3
Samson	\$5.06	\$383.96	75.5	71.6	80.5	75.9	61.3	14.1	4.9	4.8	1.2	2.5	5.3	5.0	21	4.6
Jenna	\$5.06	\$380.69	74.6	71.6	79.4	75.2	61.6	14.1	7.2	5.9	1.5	2.8	2.0	3.0	6	4.2
LCS Powerplay	\$4.80	\$358.31	74.0	71.4	78.4	74.6	62.8	13.6	4.4	5.8	2.8	2.7	3.0	3.0	12	5.2
Albany	\$4.57	\$339.51	72.8	71.9	78.2	74.3	62.8	13.0	8.4	5.8	2.8	4.0	2.3	2.0	1	5.0
RB07	\$5.27	\$387.94	76.8	71.7	72.5	73.7	61.8	14.3	3.8	6.3	2.2	3.7	2.7	3.5	18	5.3
Alpine	\$4.92	\$360.83	77.6	71.8	70.6	73.3	61.2	13.9	4.0	6.0	2.2	2.5	3.3	2.5	3	4.7
05S0157-4	\$5.57	\$408.54	74.6	70.2	75.2	73.3	63.0	14.6	3.7	5.0	2.2	3.0	3.3	4.5	20	4.7
SY605 CL	\$5.37	\$393.25	73.5	74.1	72.2	73.3	62.7	14.4	2.4	7.5	2.0	3.0	3.0	3.5	3	5.4
SY Ingmar	\$5.47	\$400.16	72.5	71.0	76.0	73.2	63.1	14.5	5.4	4.8	1.7	2.3	2.0	3.0	5	3.8
Knudson	\$4.80	\$345.71	75.3	66.8	73.8	72.0	61.7	13.6	5.2	6.0	1.7	2.7	3.0	4.0	5	4.7
SY Soren	\$5.67	\$404.05	69.3	70.6	73.7	71.2	62.3	14.7	4.3	4.1	1.7	3.2	3.0	4.0	5	4.0
WB-Mayville	\$5.67	\$398.65	70.3	69.7	70.8	70.3	62.1	14.7	3.2	4.1	1.0	2.7	5.3	6.5	24	4.9
Barlow	\$5.47	\$384.01	72.9	69.7	68.0	70.2	63.0	14.5	2.4	7.6	3.5	3.2	4.0	4.5	15	6.0
Rollag	\$5.47	\$381.13	66.9	68.4	73.7	69.7	63.0	14.5	4.0	5.0	1.0	2.2	2.0	2.5	5	4.1
Brennan	\$5.57	\$382.01	71.0	68.0	66.7	68.6	61.7	14.6	4.0	4.0	1.8	4.0	3.3	3.5	15	3.9
Glenn	\$5.47	\$367.96	67.7	67.8	66.3	67.3	64.6	14.5	2.3	8.1	3.0	2.8	2.3	2.5	12	5.9
Kelby	\$5.99	\$394.77	68.0	64.7	65.0	65.9	61.3	15.1	3.1	3.5	2.0	4.2	2.7	7.0	28	4.4
<b>Mean</b>	<b>\$5.20</b>	<b>\$383.76</b>	<b>74.4</b>	<b>72.1</b>	<b>75.3</b>	<b>73.9</b>	<b>62.2</b>	<b>14.1</b>	<b>4.6</b>	<b>5.4</b>	<b>1.9</b>	<b>2.9</b>	<b>2.8</b>	<b>3.4</b>	<b>10.1</b>	<b>4.5</b>
<b>No. of Locs.</b>	<b>—</b>	<b>—</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>13</b>

Numerical ratings: Heading: 1= early; Height: 1 = short; Lodging: 1 = no lodging; Disease: 1 = no disease; Worth: 1 = best type

<sup>1</sup> Not tested in 2012, data adjusted for averages

<sup>2</sup> Economic return calculated using Sept. local cash grain price of \$4.96 for 14% protein and 10 year avg. Sept. MGE protein premium/discounts and typical test weight discounts (Mendota Wheat & Milling Assocs.).

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## 2012-14 Over Year Summary Northeast Data Ranked By Economic Return —Syngenta Data

Variety	Econ. Return <sup>2</sup>		Yield bu/ac				Test Wt. lbs/bu	Protein %	Heading 1-9	Height 1-9	Lodging 1-9	Bacterial Leaf Streak 1-9	Fusarium Head Blight 1-9			Worth 1-9
	\$/Bu	Gross \$/A	2012	2013	2014	Avg.							2014 Visual	2013 Visual	2013 FDK	
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SY Soren	\$5.67	\$404.05	69.3	70.6	73.7	71.2	62.3	14.7	4.3	4.1	1.7	3.2	3.0	4.0	5	4.0
SY Ingmar	\$5.47	\$400.16	72.5	71.0	76.0	73.2	63.1	14.5	5.4	4.8	1.7	2.3	2.0	3.0	5	3.8
WB-Mayville	\$5.67	\$398.65	70.3	69.7	70.8	70.3	62.1	14.7	3.2	4.1	1.0	2.7	5.3	6.5	24	4.9
Kelby	\$5.99	\$394.77	68.0	64.7	65.0	65.9	61.3	15.1	3.1	3.5	2.0	4.2	2.7	7.0	28	4.4
SY605 CL	\$5.37	\$393.25	73.5	74.1	72.2	73.3	62.7	14.4	2.4	7.5	2.0	3.0	3.0	3.5	3	5.4
SY Valda	\$4.80	\$390.72	82.2	79.3	82.5	81.3	62.7	13.6	5.0	4.6	1.0	1.8	2.0	2.0	3	3.7
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07S0274-2 <sup>1</sup>	\$4.73	\$387.82	82.3	80.1	83.8	82.1	62.1	13.4	5.6	6.8	1.8	2.7	2.0	2.5	18	4.6
Barlow	\$5.47	\$384.01	72.9	69.7	68.0	70.2	63.0	14.5	2.4	7.6	3.5	3.2	4.0	4.5	15	6.0
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Brennan	\$5.57	\$382.01	71.0	68.0	66.7	68.6	61.7	14.6	4.0	4.0	1.8	4.0	3.3	3.5	15	3.9
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Faller	\$4.73	\$377.47	80.1	77.3	82.2	79.9	62.5	13.4	6.2	7.5	3.2	2.8	2.0	3.0	2	5.7
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Glenn	\$5.47	\$367.96	67.7	67.8	66.3	67.3	64.6	14.5	2.3	8.1	3.0	2.8	2.3	2.5	12	5.9
06S0157-1	\$4.77	\$362.84	74.5	74.4	79.5	76.1	61.2	13.5	6.2	4.4	1.3	2.5	2.0	2.0	2	3.3
Alpine	\$4.92	\$360.83	77.6	71.8	70.6	73.3	61.2	13.9	4.0	6.0	2.2	2.5	3.3	2.5	3	4.7
LCS Powerplay	\$4.80	\$358.31	74.0	71.4	78.4	74.6	62.8	13.6	4.4	5.8	2.8	2.7	3.0	3.0	12	5.2
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Albany	\$4.57	\$339.51	72.8	71.9	78.2	74.3	62.8	13.0	8.4	5.8	2.8	4.0	2.3	2.0	1	5.0
<b>Mean</b>	<b>\$5.20</b>	<b>\$383.76</b>	<b>74.4</b>	<b>72.1</b>	<b>75.3</b>	<b>73.9</b>	<b>62.2</b>	<b>14.1</b>	<b>4.6</b>	<b>5.4</b>	<b>1.9</b>	<b>2.9</b>	<b>2.8</b>	<b>3.4</b>	<b>10.1</b>	<b>4.5</b>
<b>No. of Locs.</b>	<b>—</b>	<b>—</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>14</b>	<b>10</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>13</b>

Numerical ratings: Heading: 1= early; Height: 1 = short; Lodging: 1 = no lodging; Disease: 1 = no disease; Worth: 1 = best type

<sup>1</sup> Not tested in 2012, data adjusted for averages

<sup>2</sup> Economic return calculated using Sept. local cash grain price of \$4.96 for 14% protein and 10 year avg. Sept. MGE protein premium/discounts and typical test weight discounts (Mendota Wheat & Milling Assocs.).

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