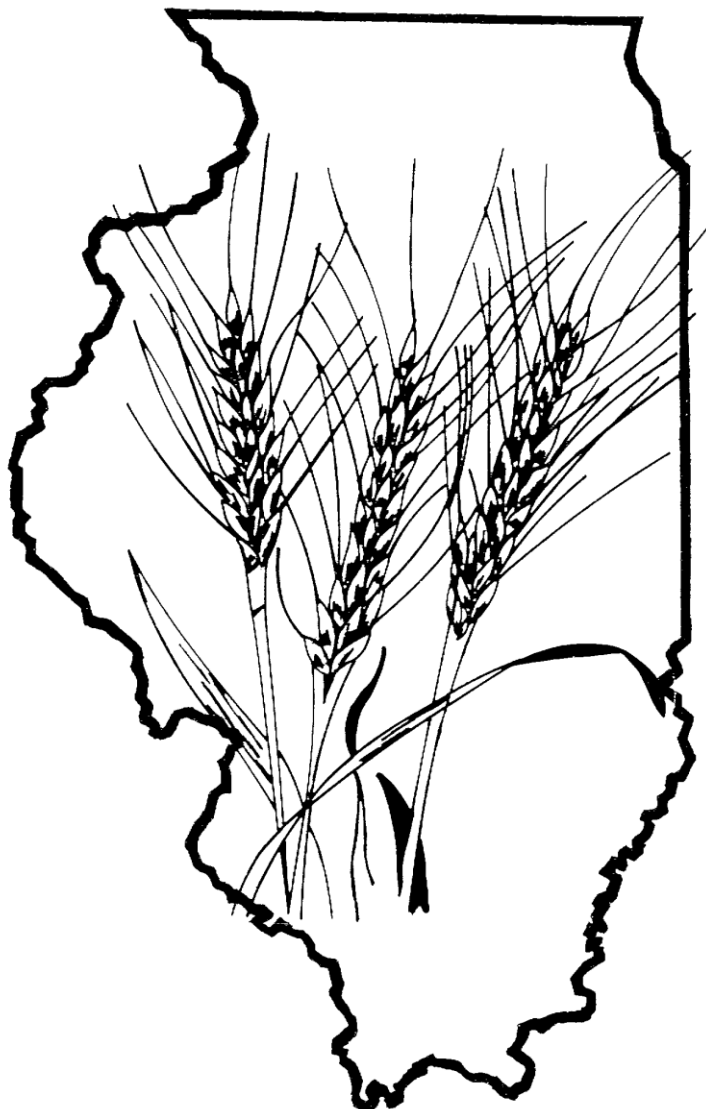


# **WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2010**



**Crop Sciences Special Report 2010-01  
Department of Crop Sciences  
University of Illinois  
July 2010**

# WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2010

## Crop Sciences Special Report 2010-01, July 2010

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The 2010 wheat season in Illinois will go down in the books as one of the worst in Illinois history. As the result of wheat quality and price problems in 2009, followed by a very wet fall and late harvest of the 2009 corn and soybean crops, planted acreage in Illinois dropped by 59%, from 850,000 acres in 2009 to 350,000 acres in 2010. Yields in 2010 were highly variable, ranging from 37 bushels per acre in the West crop reporting district to 74 in the East. The preliminary state yield estimate for 2010 is only 54 bushels per acre. This will be the lowest yield since 2002, and is about 6 bushels per acre less than the average over the previous nine years.

One factor that affected yield in most Illinois wheat fields in 2010 was late planting in the fall of 2009, along with planting into wet soils. While some intended planting was undoubtedly not attempted in the end, the official estimates showed only 35% of the crop planted by November 1. The winter was favorable for keeping wheat alive, but most of the late-planted crop had to do much of its tillering in the spring. April was a very good month, with warm and mostly dry weather. This encouraged tillering early, though the early warm up may also have ended tillering; head numbers were not exceptionally high. April weather also resulted in good nitrogen nutrition and low levels of foliar disease, and helped the crop catch up in its development. Heading/flowering was not much later than normal. Rainfall during the heading period, especially in western Illinois, resulted in heavy scab infestations. Most areas of southern Illinois had less scab than in 2009, but few areas escaped it entirely.

In contrast to many fields in Illinois, the 2010 wheat variety trials were planted more or less on time, though planting conditions weren't great at some locations. The trial at Belleville was deluged with rain after planting and never had even minimal stands, so was abandoned. The trial at DeKalb was planted on time and got off to a fair start, but suffered from standing water later and was also abandoned. Some plots in the Brownstown trial were affected by wet soils, but we had enough plots among the three replications to allow us to use these results. Even so, some varieties in such cases may be favored by chance location and others hurt, so we want to look at averages with other locations (in this case, with Dixon Springs) and not to place too much weight on the results of that single trial.

Plots in these trials were seeded at the rate of 36 seeds per square foot, and consisted of six, 7.5-inch rows trimmed to about 17 feet long before harvest. There were three replications. Yields were corrected to 13.5% moisture. The final table of the report includes Fusarium head scab ratings from Dr. Fred Kolb's misted, inoculated scab trial at Urbana. Seed companies were allowed to include entries treated with seed-applied insecticide, with the insecticide treatment identified in the name. We also entered both treated and untreated seed of several varieties at each location as a test of yield response to this input. Averages from those comparisons were used to generate the statement at the bottom of each table.

<u>Location</u>	<u>Cooperators</u>	<u>Soil type</u>	<u>Planted</u>	<u>N fertilizer</u>	<u>Harvest</u>
Dixon Springs	Steve Ebelhar Carl Hart, Jr.	Grantsburg silt loam	Oct. 21	30 Fall 125 Spring	June 16
Belleville	Ron Krausz	Ebbert silt loam	Oct. 16, 2008	30 Fall 80 Spring	June 23, 2009
Brownstown	Lindell Deal	Cisne silt loam	Oct. 5	30 Fall 70 Spring	June 18
Orr Center	Mike Vose	Clarksdale silt loam	Sept. 30	40 Fall 60 Spring	June 24
Urbana	Bob Dunker Mike Kleiss	Flanagan silt loam	Sept. 29	40 Fall 40 Spring	June 25
DeKalb	Lyle Paul Dave Lindgren	Drummer silty clay loam	Oct. 2, 2008	30 Fall 40 Spring	July 14, 2009

Participating companies are listed on Page 2, regional data in Tables 1 and 2, individual location data in Tables 3 - 8, wheat variety characteristics in Table 9, and the Fusarium head scab ratings in Table 10. Because we did not have data from Belleville and DeKalb in 2010, we are repeating the results from the 2009 trials at those two locations.

## Participating Companies

We thank these companies for their support of this program in 2010.

AgriMAXX Wheat Co  
7167 Highbanks Rd  
Mascoutah, IL 62258  
618-566-7022

Excel Brand Seed  
PO Box 320  
Camp Point, IL 62320  
(217) 593-7359

Miller Bros. Farm & Fertilizer  
2001 Niemannsville Trail  
Walshville, IL 62091  
(217) 456-9311

Agrinetics, Inc.  
1764 Windward Ave  
Naperville, IL 60563  
(630) 417-4265

Green Valley Seed, LLC  
P O Box 35  
Kahoka, MO 63445  
(660) 727-3341

MWS Seeds, LLC  
2737 N 700 E Rd  
Ashkum, IL 60911  
(815) 698-2204

AgriPro/Syngenta  
520 E 1050 S  
Brookston, IN 47923  
(765) 563-3111

GROWMARK, Inc.  
1701 Towanda Ave.  
Bloomington, IL 61701  
(309) 557-6399

Pioneer Hi-Bred International  
421 Detroit Drive  
Bloomington, IL 61704  
(309) 821-9940

Beck's Hybrids  
6767 E 276<sup>th</sup> St  
Atlanta, IN 46031  
(800)937-2325

Hoffman Seed House  
PO Box 66, 200 E 4<sup>th</sup> St  
Hoffman, IL 62250  
(618) 495-2617

Pro Seed Genetics  
N 4297 City Hwy E  
Kewaunee, WI 54216  
(920) 988-2824

BioTown Seeds  
373N Diener Rd  
Reynolds, IN 47980  
(219) 984-5247

Horizon Genetics, Inc.  
36161 SR 10  
Mason City, IL 62664  
(217) 482-3281

Sunstar Hybrids  
14993 State Road 17  
Culver, IN 46511-9642  
(574) 842-2775

Brownstown Ag Center  
622 S Brownstown Rd  
Brownstown, IL 62418  
(618) 427-3242

Kaltenberg Seed  
P O Box 278, 5506 St Rd 19  
Waunakee, WI 53597-0278  
(608) 849-2051

Synergy Seeds, Inc.  
P O Box 508  
Herscher, IL 60941  
(815) 426-9885

Delta Grow Seed  
220 NW 2<sup>nd</sup>  
England, AR 72046  
(501) 842-2572

Kitchen Seed Company  
PO Box 286  
Arthur, IL 61911  
(217) 543-3476

Virginia Crop Improvement  
9225 Atlee Branch Lane  
Mechanicsville, VA 23116  
(804) 746-4884

DeRaedt Seed Corp.  
10 N 971 Tower Road  
Hampshire, IL 60140  
(847) 514-8844

Lewis Hybrids, Inc  
530 West Maple Ave.  
Ursa, IL 62376  
(800) 252-7851

Walter Seed  
7216 Maxon Rd  
Harvard, IL 60033  
(815) 790-8568

Direct Enterprises  
PO Box 978  
Westfield, IN 46074  
(888) 895-7333

Miles Seed  
PO Box 22879  
Owensboro, KY 42304  
(270) 926-2420

Wilken Seed Grains, Inc.  
P O Box 770  
Pontiac, IL 61764  
(815) 844-3458

Dyna-Gro Seed  
6221 Riverside Drive, Suite 1  
Dublin, OH 43017  
(614) 761-4110, ext 3

**Table 1. Southern Illinois regional wheat variety trial results, 2010**

Company	Variety	ST <sup>1</sup>	Regional Average			Dixon Springs			Brownstown		
			Yield bu/ac	Yield Rank 1 to 61	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Height in.
AgriMAXX	403	C	63.9	42	51.9	60.5	50.2	27	67.3	53.6	31
AgriMAXX	490	C	63.6	44	56.5	59.5	55.6	29	67.8	57.5	35
AgriMAXX	499	C	66.0	33	56.6	61.8	55.4	31	70.2	57.8	35
AgriMAXX	X1017	C	78.1	3	53.9	70.9	53.0	28	85.3	54.8	32
AgriPro/Syngenta	BRANSON	C	65.8	35	52.3	59.0	49.8	29	72.5	54.9	33
AgriPro/Syngenta	W1104	C	69.5	15	51.6	68.9	50.4	30	70.1	52.9	34
AgriPro/Syngenta	W1377	C	62.4	51	55.8	58.1	54.4	32	66.7	57.2	38
Beck's Hybrids	Beck 113	S	74.3	5	54.3	72.6	52.1	32	76.0	56.4	33
Beck's Hybrids	Beck 122	S	66.3	30	53.8	66.2	52.4	34	66.4	55.1	36
Beck's Hybrids	Beck 134	S	68.5	19	53.6	64.3	52.9	27	72.7	54.3	32
Beck's Hybrids	Beck 135	S	78.5	2	54.3	76.8	53.8	31	80.2	54.8	34
Beck's Hybrids	Beck 87	S	62.5	50	57.0	61.0	56.8	30	63.9	57.2	34
BioTown Seeds	Diener 487W	C	68.7	18	57.5	72.4	56.2	30	64.9	58.9	32
BioTown Seeds	Diener XW 90	C	61.2	56	54.0	61.5	52.4	30	60.8	55.6	32
BioTown Seeds	Diener XW 92	C	74.1	6	55.3	82.2	55.7	35	65.9	54.9	39
Brownstown Ag Center	EXCEL 170	M	58.4	59	51.6	46.6	46.2	28	70.1	56.9	34
Delta Grow Seed	DG 5900	F	62.7	49	57.7	65.3	57.2	30	60.1	58.1	32
Direct Enterprises	DW Exp 106	M	66.3	31	52.8	70.6	51.5	34	61.9	54.1	36
Direct Enterprises	DW Exp 109	M	69.7	13	52.5	73.3	52.0	32	66.1	53.1	34
Dyna-Gro	9922	C	63.2	46	54.6	61.1	52.6	31	65.2	56.6	35
Dyna-Gro	9031	C	61.6	54	56.4	57.7	55.1	31	65.6	57.8	36
Dyna-Gro	9012	C	67.3	24	55.4	64.1	54.4	29	70.6	56.3	33
Dyna-Gro	9053	C	76.9	4	51.8	72.2	50.4	30	81.6	53.2	34
Excel Brands	EXCEL 209	N	62.3	52	54.4	52.3	52.2	29	72.4	56.6	33
Excel Brands	EXCEL 242	M	72.2	7	53.8	67.1	52.1	31	77.2	55.4	36
Excel Brands	EXCEL 302	M	67.7	21	52.8	62.6	49.6	31	72.7	56.1	34
Excel Brands	EXCEL 341	M	71.6	9	54.7	69.9	53.7	32	73.3	55.6	39
Excel Brands	EXCEL 357	M	63.2	45	54.8	57.6	52.3	32	68.8	57.2	36
Exsegen	Dinah	F	71.0	10	56.4	62.1	54.2	30	79.9	58.6	34
Exsegen	Lois	F	65.3	38	49.0	60.0	46.3	28	70.6	51.7	33
Exsegen	Phebe	F	72.2	8	53.8	70.7	52.0	32	73.6	55.7	34
Green Valley Seed	Willcross 740	F	68.2	20	52.9	71.1	50.8	31	65.2	55.0	32
Green Valley Seed	Willcross 748	F	65.3	39	53.2	60.7	51.5	35	69.9	54.8	36
GROWMARK	FS 600	C	67.6	22	53.6	59.4	50.8	29	75.9	56.3	33
GROWMARK	FS 610	C	62.9	47	55.6	56.4	53.2	30	69.3	57.9	36
GROWMARK	FS 620	C	62.7	48	57.7	55.9	57.7	29	69.6	57.8	34
GROWMARK	FS 628	C	64.7	41	53.5	64.2	52.2	33	65.1	54.8	35
GROWMARK	FS 630	C	67.0	28	54.0	69.1	53.2	33	65.0	54.8	37
Hoffman Seed House	EXCEL 180	C	66.6	29	56.2	61.3	55.2	32	71.9	57.2	35
Hoffman Seed House	EXCEL 209	C	69.4	16	55.6	63.7	54.2	30	75.2	57.0	36
Hoffman Seed House	EXCEL 242	N	60.3	58	51.6	51.6	47.4	30	68.9	55.7	35
Hoffman Seed House	H7W06	C	63.7	43	51.3	53.1	48.9	27	74.4	53.7	32
Hoffman Seed House	H7W09	C	61.4	55	50.3	54.7	48.4	32	68.0	52.1	34
Hoffman Seed House	H7W10	C	70.3	12	56.0	69.5	55.6	30	71.0	56.5	32
Horizon Genetics	H 755W	G	69.6	14	55.0	66.4	53.4	28	72.9	56.5	33
Kitchen Seed Company	KSC 409W	M	62.1	53	55.8	56.9	54.0	31	67.2	57.7	33
Kitchen Seed Company	KSC 410W	M	65.9	34	57.9	64.6	57.7	29	67.2	58.1	35
Lewis Hybrids	Lewis 830	G	65.6	36	53.2	59.8	51.3	35	71.3	55.0	36
Lewis Hybrids	Lewis 835	G	69.2	17	56.7	66.1	55.0	30	72.3	58.3	37
Miller Bros Farm & Fert	EXCEL 173	C	67.3	25	55.0	63.2	53.9	32	71.4	56.2	34
Miller Bros Farm & Fert	EXCEL 234	M	65.0	40	57.3	65.6	56.4	30	64.3	58.3	34
MWS Seeds LLC	MWS 207	F	67.3	26	56.5	61.6	54.5	30	72.9	58.6	36
MWS Seeds LLC	MWS 420	F	65.5	37	55.2	66.5	55.3	34	64.5	55.0	39
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	F	66.1	32	52.5	69.4	52.2	31	62.7	52.8	31
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R54	F	67.1	27	55.0	65.3	54.0	32	68.9	55.9	34
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	F	70.7	11	51.0	61.4	49.1	29	80.0	52.9	33
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R78	F	67.4	23	54.7	61.5	53.3	28	73.3	56.0	33
Sunstar Hybrids	S-1200	F	79.8	1	54.0	74.5	52.7	29	85.1	55.3	34
Sunstar Hybrids	S-2100	F	61.2	57	53.9	59.8	51.7	31	62.6	56.1	33
Virginia Tech	Jamestown	F	54.7	61	54.7	53.6	53.1	30	55.7	56.3	31
Virginia Tech	Merl	F	57.1	60	54.3	59.0	52.4	31	55.1	56.2	31
	Trial Mean		66.2		54.3	63.2	52.9	31	69.3	55.8	34
	LSD, 10%		9.6		2.4	5.8	1.8	2	6.9	0.7	2
	CV, %		15.0		4.5	6.7	2.5	4	7.4	1.0	4

Averaged over two varieties in the Southern Region, treatment insecticide (Cruiser) increased yield by 2.0 bushels/acre.

<sup>1</sup>ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide, M= Macho+Fungicide, N= Encase+Fungicide, S= Escalate+Fungicide.

**Table 2. Northern Illinois regional wheat variety trial results, 2010**

Company	Variety	ST <sup>1</sup>	Regional Average			Perry			Urbana		
			Yield bu/ac	Yield Rank 1 to 64	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Height in.
AgriPro/Syngenta	EXCEL 163	M	76.8	57	56.3	67.5	56.0	38	86.0	56.6	39
AgriPro/Syngenta	EXCEL 180	M	86.1	25	58.1	81.0	58.1	40	91.2	58.0	40
AgriPro/Syngenta	EXCEL 234	M	91.9	4	57.5	85.6	57.1	36	98.2	57.9	38
AgriPro/Syngenta	EXCEL 442	F	93.5	1	55.4	94.1	55.6	45	92.9	55.1	45
AgriPro/Syngenta	BRANSON	C	85.1	32	54.3	77.5	53.9	37	92.7	54.6	36
AgriPro/Syngenta	W1104	C	90.9	7	53.3	87.4	52.9	37	94.3	53.8	35
AgriPro/Syngenta	W1377	C	82.6	45	57.4	79.8	57.9	40	85.4	57.0	40
AgriPro/Syngenta	W1566	C	68.3	63	51.0	59.7	50.0	42	76.8	51.9	41
Beck's Hybrids	Beck 113	S	84.6	34	55.2	71.8	54.6	35	97.3	55.7	36
Beck's Hybrids	Beck 122	S	84.6	35	53.7	82.3	53.8	41	86.8	53.7	42
Beck's Hybrids	Beck 135	S	90.4	8	55.9	84.2	55.9	38	96.6	55.8	37
BioTown Seeds	Diener 502W	C	85.2	31	54.2	81.0	54.4	42	89.3	54.0	41
BioTown Seeds	Diener XW 91	C	91.2	5	53.1	80.4	52.6	34	102.0	53.6	34
BioTown Seeds	Diener XW 92	C	87.8	16	55.3	83.0	54.9	43	92.6	55.6	42
DeRaedt Seed	DeRaedt 10	M	87.7	17	58.0	83.6	58.1	38	91.8	57.8	38
DeRaedt Seed	DeRaedt 14	C	82.7	44	54.0	74.6	53.4	38	90.7	54.6	39
Direct Enterprises	DW Exp 106	M	87.4	20	53.9	84.2	53.6	41	90.6	54.1	41
Direct Enterprises	DW Exp 109	M	83.0	42	52.5	78.4	52.5	38	87.7	52.4	38
Dyna-Gro	9922	C	79.6	54	54.9	71.7	54.7	38	87.5	55.1	37
Dyna-Gro	9031	C	89.0	13	58.0	86.6	58.3	38	91.3	57.7	39
Dyna-Gro	9053	C	86.7	24	51.6	76.1	51.0	36	97.2	52.2	36
Dyna-Gro	9042	C	74.1	60	53.5	60.2	53.1	35	87.9	54.0	37
Excel Brands	EXCEL 170	M	70.9	61	54.6	55.8	54.4	35	86.0	54.8	39
Excel Brands	EXCEL 209	N	85.5	27	56.0	82.2	56.2	37	88.9	55.7	39
Excel Brands	EXCEL 242	M	86.9	23	55.1	82.3	55.2	39	91.4	55.1	39
Excel Brands	EXCEL 302	M	81.9	47	53.8	68.0	53.1	36	95.8	54.6	35
Excel Brands	EXCEL 357	M	83.2	40	56.3	79.1	56.0	39	87.4	56.7	40
GROWMARK	FS 610	C	88.2	14	57.7	82.0	57.8	39	94.4	57.5	40
GROWMARK	FS 620	C	89.8	12	57.6	83.1	57.2	38	96.6	57.9	39
GROWMARK	FS 628	C	81.6	50	53.8	72.6	53.6	39	90.7	54.0	41
GROWMARK	FS 630	C	85.4	30	54.4	76.8	53.7	42	93.9	55.1	42
Hoffman Seed House	EXCEL 242	N	80.6	51	54.9	73.5	54.9	38	87.6	54.8	39
Horizon Genetics	H 755W	G	85.4	29	55.6	73.4	54.9	34	97.5	56.4	34
Kaltenberg Seeds	KW62	F	82.9	43	54.0	77.4	54.0	42	88.4	54.0	41
Kaltenberg Seeds	KW63	F	79.5	55	54.3	69.3	54.3	37	89.7	54.3	36
Kaltenberg Seeds	KW70	F	68.3	64	54.8	54.8	53.7	35	81.8	56.0	37
Kaltenberg Seeds	KW74	F	86.9	22	57.7	79.0	57.5	36	94.7	57.8	40
Kitchen Seed Company	KSC 409W	M	87.0	21	57.9	80.7	57.8	38	93.3	57.9	40
Kitchen Seed Company	KSC 410W	M	92.7	2	57.5	86.3	57.4	39	99.2	57.6	39
Lewis Hybrids	Lewis 830	G	80.1	53	53.6	78.2	54.1	41	82.0	53.2	41
Lewis Hybrids	Lewis 835	G	85.5	26	58.1	81.6	58.5	40	89.4	57.7	39
MWS Seeds LLC	MWS 207	F	87.9	15	58.1	83.7	58.1	39	92.1	58.1	39
MWS Seeds LLC	MWS 420	F	87.6	19	55.3	83.2	55.0	42	92.0	55.7	42
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	F	76.2	58	53.1	63.0	52.1	37	89.3	54.1	39
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	F	91.1	6	53.7	83.0	53.1	35	99.2	54.3	36
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	F	83.4	39	53.9	72.8	53.8	35	94.0	53.9	35
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	F	84.0	37	51.0	76.4	50.7	35	91.5	51.3	35
Pro Seed Genetics	PRO 200	G	84.8	33	56.5	77.3	56.1	38	92.3	56.9	40
Pro Seed Genetics	PRO 220	G	90.3	10	58.5	86.1	58.7	42	94.4	58.3	44
Pro Seed Genetics	PRO 240	G	83.2	41	54.0	77.7	54.1	42	88.8	53.9	42
Pro Seed Genetics	PRO EX320A	G	92.3	3	55.4	91.0	55.0	42	93.5	55.8	43
Sunstar Hybrids	S-1200	F	90.3	11	52.9	81.2	52.7	34	99.3	53.2	35
Sunstar Hybrids	S-2100	F	81.6	48	54.2	71.8	54.5	37	91.5	54.0	37
Synergy Seeds	EXCEL 341	M	85.5	28	54.2	77.1	53.3	40	93.8	55.2	41
Synergy Seeds	EXCEL 399	M	83.8	38	54.1	72.7	53.4	43	94.9	54.9	40
Synergy Seeds	EXCEL 442	M	90.3	9	55.6	89.3	55.6	42	91.3	55.5	43
Virginia Tech	Jamestown	F	69.5	62	55.3	60.0	55.3	33	79.1	55.3	37
Virginia Tech	Merl	F	74.3	59	55.6	68.4	55.6	35	80.2	55.6	34
Walter Seed	Walter 09	F	80.2	52	53.8	71.4	53.8	40	88.9	53.8	41
Wilken Seed Grains	Wilken W 103	C	81.6	49	53.6	77.6	53.6	42	85.7	53.5	40
Wilken Seed Grains	Wilken W 108	C	82.3	46	56.1	76.2	56.2	37	88.5	56.0	37
Wilken Seed Grains	Wilken W 130	C	78.7	56	56.0	71.7	55.8	38	85.8	56.2	37
Wilken Seed Grains	Wilken W 140	F	87.6	18	58.1	81.1	58.1	39	94.1	58.2	42
Wilken Seed Grains	Wilken W 161	C	84.2	36	55.1	80.4	54.7	42	88.0	55.4	44
	Trial Mean		84.0		55.2	77.0	55.0	38	90.9	55.4	39
	LSD, 10%		7.9		0.1	5.4	0.8	2	4.0	0.7	2
	CV, %		9.8		1.6	5.2	1.1	4	3.2	0.9	4

Averaged over two varieties in the Northern Region, seed treatment insecticide (Cruiser) decreased yield by .30 bushels/acre.

<sup>1</sup>ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide, M= Macho+Fungicide, N= Encase+Fungicide, S= Escalate+Fungicide.

**Table 3. Results of the 2010 wheat variety trial at Dixon Springs, in far southeastern Illinois.**

<u>Company</u>	<u>Variety</u>	<u>ST</u> <sup>1</sup>	<u>Yield</u> bu/ac	<u>Yield</u>	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2-yr avg</u>	<u>3-yr avg</u>
				<u>Rank</u> 1 to 61			<u>2009-10</u> bu/ac	<u>2008-10</u> bu/ac
AgriMAXX	403	C	60.5	42	50.2	27		
AgriMAXX	490	C	59.5	46	55.6	29		
AgriMAXX	499	C	61.8	33	55.4	31		
AgriMAXX	X1017	C	70.9	9	53.0	28		
AgriPro/Syngenta	BRANSON	C	59.0	48	49.8	29	66.9	68.8
AgriPro/Syngenta	W1104	C	68.9	16	50.4	30	75.9	
AgriPro/Syngenta	W1377	C	58.1	50	54.4	32	67.1	70.3
Beck's Hybrids	Beck 113	S	72.6	5	52.1	32	74.5	
Beck's Hybrids	Beck 122	S	66.2	20	52.4	34	73.5	74.2
Beck's Hybrids	Beck 134	S	64.3	26	52.9	27		
Beck's Hybrids	Beck 135	S	76.8	2	53.8	31		
Beck's Hybrids	Beck 87	S	61.0	40	56.8	30		
BioTown Seeds	Diener 487W	C	72.4	6	56.2	30		
BioTown Seeds	Diener XW 90	C	61.5	35	52.4	30		
BioTown Seeds	Diener XW 92	C	82.2	1	55.7	35		
Brownstown Ag Center	EXCEL 170	M	46.6	61	46.2	28	59.2	
Delta Grow Seed	DG 5900	F	65.3	23	57.2	30		
Direct Enterprises	DW Exp 106	M	70.6	11	51.5	34		
Direct Enterprises	DW Exp 109	M	73.3	4	52.0	32		
Dyna-Gro	9012	C	64.1	28	54.4	29		
Dyna-Gro	9031	C	57.7	51	55.1	31		
Dyna-Gro	9053	C	72.2	7	50.4	30		
Dyna-Gro	9922	C	61.1	39	52.6	31	66.1	
Excel Brands	EXCEL 209	N	52.3	59	52.2	29		
Excel Brands	EXCEL 242	M	67.1	17	52.1	31		
Excel Brands	EXCEL 302	M	62.6	31	49.6	31		
Excel Brands	EXCEL 341	M	69.9	12	53.7	32		
Excel Brands	EXCEL 357	M	57.6	52	52.3	32		
Exsegen	Dinah	F	62.1	32	54.2	30	69.6	72.4
Exsegen	Lois	F	60.0	43	46.3	28	68.2	
Exsegen	Phoebe	F	70.7	10	52.0	32		
Green Valley Seed	Willcross 740	F	71.1	8	50.8	31		
Green Valley Seed	Willcross 748	F	60.7	41	51.5	35		
GROWMARK	FS 600	C	59.4	47	50.8	29		
GROWMARK	FS 610	C	56.4	54	53.2	30	66.8	
GROWMARK	FS 620	C	55.9	55	57.7	29		
GROWMARK	FS 628	C	64.2	27	52.2	33	69.4	72.4
GROWMARK	FS 630	C	69.1	15	53.2	33		
Hoffman Seed House	EXCEL 180	C	61.3	38	55.2	32	72.3	
Hoffman Seed House	EXCEL 209	C	63.7	29	54.2	30		
Hoffman Seed House	EXCEL 242	N	51.6	60	47.4	30		
Hoffman Seed House	H7W06	C	53.1	58	48.9	27		
Hoffman Seed House	H7W09	C	54.7	56	48.4	32		
Hoffman Seed House	H7W10	C	69.5	13	55.6	30		
Horizon Genetics	H 755W	G	66.4	19	53.4	28		
Kitchen Seed Company	KSC 409W	M	56.9	53	54.0	31	65.5	
Kitchen Seed Company	KSC 410W	M	64.6	25	57.7	29		
Lewis Hybrids	Lewis 830	G	59.8	44	51.3	35	69.0	71.0
Lewis Hybrids	Lewis 835	G	66.1	21	55.0	30	71.9	
Miller Bros Farm & Fert	EXCEL 173	C	63.2	30	53.9	32	71.2	75.0
Miller Bros Farm & Fert	EXCEL 234	M	65.6	22	56.4	30		
MWS Seeds LLC	MWS 207	F	61.6	34	54.5	30		
MWS Seeds LLC	MWS 420	F	66.5	18	55.3	34		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	F	69.4	14	52.2	31	77.1	81.2
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R54	F	65.3	24	54.0	32	69.1	72.2
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	F	61.4	37	49.1	29	70.2	71.4
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R78	F	61.5	36	53.3	28	64.3	
Sunstar Hybrids	S-1200	F	74.5	3	52.7	29		
Sunstar Hybrids	S-2100	F	59.8	45	51.7	31		
Virginia Tech	Jamestown	F	53.6	57	53.1	30	58.2	
Virginia Tech	Merl	F	59.0	49	52.4	31	60.7	
	Trial Mean		63.2		52.9	31	68.5	72.9
	LSD, 10%		5.8		1.8	2		
	CV, %		6.7		2.5	4		

Comparing one variety at Dixon Springs, seed treatment insecticide (Cruiser) increased yield by 0.7 bushels/acre.

<sup>1</sup>ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide, M=Macho+Fungicide, N= Encase+Fungicide, S= Escalate+Fungicide.

**Table 4. Results of the 2009 wheat variety trial at Belleville, in southwestern Illinois.**  
**THE 2010 TRIAL WAS ABANDONED DUE TO WATER DAMAGE, SO THIS IS A RERUN OF THE 2009 DATA.**

<u>Company</u>	<u>Variety</u>	<u>Yield</u> bu/ac	<u>Yield Rank</u> 1 to 64	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2-yr avg</u> <u>2008-09</u> bu/ac	<u>3-yr avg</u> <u>2007-09</u> bu/ac
AgriPro	BRANSON	94.4	7	51.7	36	90.9	83.3
AgriPro	W1104	88.9	24	50.9	36		
AgriPro	W1377	82.4	47	55.3	39	78.2	76.9
Beck's Hybrids	Beck 113	93.1	9	53.7	36		
Beck's Hybrids	Beck 122	89.2	22	53.7	41	81.1	76.3
Beck's Hybrids	Beck 766	85.7	31	54.3	38	82.3	75.8
Beck's Hybrids	Beck 766 Cruiser	90.4	18	55.2	40	85.2	
Beck's Hybrids	Beck 817	79.3	58	52.3	37	73.0	71.0
Beck's Hybrids	Beck 817 Cruiser	83.7	42	53.4	37	81.3	
Beck's Hybrids	Beck 857	78.7	59	48.4	41	79.4	74.8
Beck's Hybrids	Beck 857 Cruiser	83.5	43	49.3	38	85.1	
BioTown Seeds	Diener 496	77.4	61	51.6	38	79.7	
BioTown Seeds	Diener XW 70	84.8	37	56.0	37		
BioTown Seeds	Diener XW 81	85.2	33	50.0	38		
Coops Creek Acres	EXCEL 170	81.7	51	54.0	38		
Coops Creek Acres	EXCEL 170 Macho	90.5	17	55.5	37		
Coops Creek Acres	EXCEL 209	96.4	4	54.0	39	90.7	
Coops Creek Acres	EXCEL 209 Macho	97.5	2	54.5	37		
Crop Production Services	9922	86.3	29	53.2	37		
Crop Production Services	DG404	90.9	14	52.1	41	82.1	
Crop Production Services	Shirley	76.2	62	48.4	37	78.3	
Crop Production Services	V9710	87.5	26	53.8	32	83.2	74.3
Crop Production Services	V9723	90.5	16	52.5	39	83.3	78.4
Crop Production Services	V9812	82.8	44	50.0	38	79.1	
GROWMARK	FS 610	89.7	19	55.9	39		
GROWMARK	FS 618	89.5	20	53.0	40	84.0	74.3
GROWMARK	FS 628	88.0	25	51.8	43	83.0	76.7
GROWMARK	FS 637	82.4	48	49.4	37	78.0	69.2
GROWMARK	FS 659	80.0	56	50.2	38		
Haas Seed House	EXCEL 343	82.2	49	52.7	38	76.7	75.9
Haas Seed House	EXCEL 343 Cruiser	89.5	21	53.4	37	82.9	82.1
Hoffman Seed House	EXCEL 180	91.3	13	56.4	39	85.8	
Hoffman Seed House	EXCEL 180 Cruiser	98.5	1	56.9	40	92.7	
Hoffman Seed House	EXCEL 180 Macho	96.4	5	56.5	39		
Hoffman Seed House	EXCEL 286	83.8	40	52.6	42		
Hoffman Seed House	EXCEL 286 Macho	86.0	30	54.6	43		
Hoffman Seed House	EXCEL 367	76.0	63	51.9	37	79.6	
Hoffman Seed House	EXCEL 367 Cruiser	81.0	54	52.8	37	84.7	
Hoffman Seed House	EXCEL 367 Macho	84.5	38	52.3	36		
Kitchen Seed Company	KSC 407W	89.1	23	52.7	41	84.1	73.7
Kitchen Seed Company	KSC 408W	83.7	41	51.7	43	76.9	
Kitchen Seed Company	KSC 409W	84.0	39	57.0	40		
Lewis Hybrids	Lewis 830	93.8	8	52.6	40	85.0	79.6
Lewis Hybrids	Lewis 835	85.1	35	56.7	39		
Miles Seed	Anna	80.6	55	49.6	33		
Miles Seed	Dinah	86.7	27	55.7	38	85.1	78.5
Miles Seed	Lois	85.1	34	50.5	37		
Miller Bros Farm & Fert	EXCEL 173	90.9	15	55.5	38	87.7	79.8
Miller Bros Farm & Fert	EXCEL 173 Cruiser	94.6	6	55.4	40	89.2	83.3
Miller Bros Farm & Fert	EXCEL 173 Macho	97.1	3	55.7	41		
MWS Seeds LLC	MWS 135	93.1	10	52.7	39	84.0	80.1
MWS Seeds LLC	MWS 225	92.7	11	56.9	40		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	92.4	12	49.4	37	88.7	85.2
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R54	82.1	50	53.0	38	83.7	79.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	82.5	46	49.6	37	80.1	78.1
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	85.2	32	50.4	38	90.1	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R78	86.4	28	53.4	36		
Public	Kaskaskia	82.6	45	55.6	40	76.3	76.2
Steyer Seeds	Geary	81.0	53	50.0	39		
Steyer Seeds	Jordan	81.4	52	54.2	37		
Virginia Tech	Jamestown	79.8	57	53.7	37		
Virginia Tech	Merl	78.5	60	50.8	36		
Virginia Tech	Roane	72.8	64	54.8	36	75.8	74.6
Virginia Tech	VA04W-90	84.9	36	53.6	37		
	Trial Mean	86.7		53.0	38	82.8	77.4
	LSD, 10%	5.6		1.1	2		
	CV, %	4.7		1.5	4		

Averaged over ten entries compared at this location, seed treatment insecticide increased yield by 5.6 bushels/acre.

**Table 5. Results of the 2010 wheat variety trial at Brownstown, in south central Illinois.**

Company	Variety	ST <sup>1</sup>	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 61			2009-10 bu/ac	2008-10 bu/ac
AgriMAXX	403	C	67.3	39	53.6	31		
AgriMAXX	490	C	67.8	38	57.5	35		
AgriMAXX	499	C	70.2	28	57.8	35		
AgriMAXX	X1017	C	85.3	1	54.8	32		
AgriPro/Syngenta	BRANSON	C	72.5	19	54.9	33	67.9	73.3
AgriPro/Syngenta	W1104	C	70.1	29	52.9	34	67.3	
AgriPro/Syngenta	W1377	C	66.7	42	57.2	38	60.4	67.6
Beck's Hybrids	Beck 113	S	76.0	8	56.4	33	73.9	
Beck's Hybrids	Beck 122	S	66.4	43	55.1	36	64.3	71.2
Beck's Hybrids	Beck 134	S	72.7	18	54.3	32		
Beck's Hybrids	Beck 135	S	80.2	4	54.8	34		
Beck's Hybrids	Beck 87	S	63.9	54	57.2	34		
BioTown Seeds	Diener 487W	C	64.9	51	58.9	32		
BioTown Seeds	Diener XW 90	C	60.8	58	55.6	32		
BioTown Seeds	Diener XW 92	C	65.9	45	54.9	39		
Brownstown Ag Center	EXCEL 170	M	70.1	30	56.9	34	67.5	
Delta Grow Seed	DG 5900	F	60.1	59	58.1	32		
Direct Enterprises	DW Exp 106	M	61.9	57	54.1	36		
Direct Enterprises	DW Exp 109	M	66.1	44	53.1	34		
Dyna-Gro	9012	C	70.6	27	56.3	33		
Dyna-Gro	9031	C	65.6	46	57.8	36		
Dyna-Gro	9053	C	81.6	3	53.2	34		
Dyna-Gro	9922	C	65.2	47	56.6	35	64.8	
Excel Brands	EXCEL 209	N	72.3	20	56.6	33		
Excel Brands	EXCEL 242	M	77.2	7	55.4	36		
Excel Brands	EXCEL 302	M	72.7	17	56.1	34		
Excel Brands	EXCEL 341	M	73.3	13	55.6	39		
Excel Brands	EXCEL 357	M	68.8	36	57.2	36		
Exsegen	Dinah	F	79.9	6	58.6	34	73.6	81.9
Exsegen	Lois	F	70.6	26	51.7	33	69.7	
Exsegen	Phebe	F	73.6	12	55.7	34		
Green Valley Seed	Willcross 740	F	65.2	48	55.0	32		
Green Valley Seed	Willcross 748	F	69.9	31	54.8	36		
GROWMARK	FS 600	C	75.9	9	56.3	33		
GROWMARK	FS 610	C	69.3	33	57.9	36	68.8	
GROWMARK	FS 620	C	69.6	32	57.8	34		
GROWMARK	FS 628	C	65.1	49	54.8	35	68.7	74.4
GROWMARK	FS 630	C	65.0	50	54.8	37		
Hoffman Seed House	EXCEL 180	C	71.9	22	57.2	35	73.9	81.7
Hoffman Seed House	EXCEL 209	C	75.2	10	57.0	36		
Hoffman Seed House	EXCEL 242	N	68.9	35	55.7	35		
Hoffman Seed House	H7W06	C	74.4	11	53.7	32		
Hoffman Seed House	H7W09	C	68.0	37	52.1	34		
Hoffman Seed House	H7W10	C	71.0	25	56.5	32		
Horizon Genetics	H 755W	G	72.9	16	56.5	33		
Kitchen Seed Company	KSC 409W	M	67.2	40	57.7	33	67.1	
Kitchen Seed Company	KSC 410W	M	67.2	41	58.1	35		
Lewis Hybrids	Lewis 830	G	71.3	24	55.0	36	67.4	77.8
Lewis Hybrids	Lewis 835	G	72.3	21	58.3	37	71.0	
Miller Bros Farm & Fert	EXCEL 173	C	71.4	23	56.2	34	66.5	77.2
Miller Bros Farm & Fert	EXCEL 234	M	64.3	53	58.3	34		
MWS Seeds LLC	MWS 207	F	72.9	15	58.6	36		
MWS Seeds LLC	MWS 420	F	64.5	52	55.0	39		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	F	62.7	55	52.8	31	57.3	70.5
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R54	F	68.9	34	55.9	34	62.0	71.0
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	F	80.0	5	52.9	33	73.3	80.1
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R78	F	73.3	14	56.0	33	72.3	
Sunstar Hybrids	S-1200	F	85.1	2	55.3	34		
Sunstar Hybrids	S-2100	F	62.6	56	56.1	33		
Virginia Tech	Jamestown	F	55.7	60	56.3	31	56.7	
Virginia Tech	Merl	F	55.1	61	56.2	31	53.2	
	Trial Mean		69.3		55.8	34	66.7	75.1
	LSD, 10%		6.9		0.7	2		
	CV, %		7.4		1.0	4		

Averaged over two entries compared at Brownstown, seed treatment insecticide (Cruiser) increased yield by 3.2 bushels/acre.

1ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide, M=Macho+Fungicide, N= Encase+Fungicide, S= Escalate+Fungicide.



**Table 6. Results of the 2010 wheat variety trial at Perry, in western Illinois.**

Company	Variety	ST <sup>1</sup>	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 64			2009-10 bu/ac	2008-10 bu/ac
Agrinetics	EXCEL 163	M	67.5	58	56.0	38		
Agrinetics	EXCEL 180	M	81.0	24	58.1	40	84.5	
Agrinetics	EXCEL 234	M	85.6	8	57.1	36	85.5	
Agrinetics	EXCEL 442	F	94.0	1	55.6	45	97.0	91.8
AgriPro/Syngenta	BRANSON	C	77.5	36	53.9	37	77.0	78.1
AgriPro/Syngenta	W1104	C	87.4	4	52.9	37	87.5	
AgriPro/Syngenta	W1377	C	79.8	29	57.9	40	75.8	78.0
AgriPro/Syngenta	W1566	C	59.7	62	50.0	42	69.6	
Beck's Hybrids	Beck 113	S	71.8	50	54.6	35		
Beck's Hybrids	Beck 122	S	82.3	17	53.8	41	80.8	83.5
Beck's Hybrids	Beck 135	S	84.2	9	55.9	38		
BioTown Seeds	Diener 502W	C	81.0	25	54.4	42		
BioTown Seeds	Diener XW 91	C	80.4	28	52.6	34		
BioTown Seeds	Diener XW 92	C	83.0	16	54.9	43		
DeRaedt Seed	DeRaedt 10	M	83.6	12	58.1	38		
DeRaedt Seed	DeRaedt 14	C	74.6	44	53.4	38	81.2	
Direct Enterprises	DW Exp 106	M	84.2	10	53.6	41		
Direct Enterprises	DW Exp 109	M	78.4	32	52.5	38		
Dyna-Gro	9031	C	86.6	5	58.3	38		
Dyna-Gro	9042	C	60.2	60	53.1	35		
Dyna-Gro	9053	C	76.1	43	51.0	36		
Dyna-Gro	9922	C	71.7	52	54.7	38		
Excel Brands	EXCEL 170	M	55.8	63	54.4	35		
Excel Brands	EXCEL 209	N	82.2	19	56.2	37		
Excel Brands	EXCEL 242	M	82.3	18	55.2	39		
Excel Brands	EXCEL 302	M	68.0	57	53.1	36		
Excel Brands	EXCEL 357	M	79.1	30	56.0	39		
GROWMARK	FS 610	C	82.0	20	57.8	39	81.8	
GROWMARK	FS 620	C	83.1	14	57.2	38		
GROWMARK	FS 628	C	72.6	49	53.6	39	72.2	76.3
GROWMARK	FS 630	C	76.8	40	53.7	42		
Hoffman Seed House	EXCEL 242	N	73.5	45	54.9	38		
Horizon Genetics	H 755W	G	73.4	46	54.9	34		
Kaltenberg Seeds	KW62	F	77.4	37	54.0	42	76.2	80.7
Kaltenberg Seeds	KW63	F	69.3	55	54.3	37	74.4	
Kaltenberg Seeds	KW70	F	54.8	64	53.7	35	62.6	
Kaltenberg Seeds	KW74	F	79.0	31	57.5	36		
Kitchen Seed Company	KSC 409W	M	80.7	26	57.8	38	79.0	
Kitchen Seed Company	KSC 410W	M	86.3	6	57.4	39		
Lewis Hybrids	Lewis 830	G	78.2	33	54.1	41	73.4	79.2
Lewis Hybrids	Lewis 835	G	81.6	21	58.5	40	81.0	
MWS Seeds LLC	MWS 207	F	83.7	11	58.1	39		
MWS Seeds LLC	MWS 420	F	83.2	13	55.0	42		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	F	63.0	59	52.1	37	73.3	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	F	83.0	15	53.1	35	80.4	82.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	F	72.8	47	53.8	35	76.8	78.1
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	F	76.4	41	50.7	35	81.5	85.5
Pro Seed Genetics	PRO 200	G	77.3	38	56.1	38	70.8	
Pro Seed Genetics	PRO 220	G	86.1	7	58.7	42		
Pro Seed Genetics	PRO 240	G	77.7	34	54.1	42	76.7	
Pro Seed Genetics	PRO EX320A	G	91.0	2	55.0	42		
Sunstar Hybrids	S-1200	F	81.2	22	52.7	34		
Sunstar Hybrids	S-2100	F	71.8	51	54.5	37		
Synergy Seeds	EXCEL 341	M	77.1	39	53.3	40	82.5	
Synergy Seeds	EXCEL 399	M	72.7	48	53.4	43	83.0	
Synergy Seeds	EXCEL 442	M	89.3	3	55.6	42	84.4	
Virginia Tech	Jamestown	F	60.0	61	55.3	33		
Virginia Tech	Merl	F	68.4	56	55.6	35	68.9	
Walter Seed	Walter 09	F	71.4	54	53.8	40		
Wilken Seed Grains	Wilken W 103	C	77.6	35	53.6	42	75.1	79.3
Wilken Seed Grains	Wilken W 108	C	76.2	42	56.2	37		
Wilken Seed Grains	Wilken W 130	C	71.7	53	55.8	38	69.6	73.8
Wilken Seed Grains	Wilken W 140	F	81.1	23	58.1	39		
Wilken Seed Grains	Wilken W 161	C	80.4	27	54.7	42	84.3	83.3
	Trial Mean		77.0		55.0	38	78.2	80.8
	LSD, 10%		5.4		0.8	2		
	CV, %		5.2		1.1	4		

Averaged over two entries compared at Perry, seed treatment insecticide (Cruiser) increased yield by 2.6 bushels/acre.

<sup>1</sup>ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide, M= Macho+Fungicide, N= Encase+Fungicide, S= Escalate+Fungicide.

**Table 7. Results of the 2010 wheat variety trial at Urbana, in east central Illinois.**

<u>Company</u>	<u>Variety</u>	<u>ST</u> <sup>1</sup>	<u>Yield</u>				<u>2-yr avg</u>	<u>3-yr avg</u>
			<u>Yield</u> bu/ac	<u>Rank</u> 1 to 64	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2009-10</u> bu/ac	<u>2008-10</u> bu/ac
Agrinetics	EXCEL 163	M	86.0	55	56.6	39		
Agrinetics	EXCEL 180	M	91.2	35	58.0	40	97.6	
Agrinetics	EXCEL 234	M	98.2	5	57.9	38	98.6	
Agrinetics	EXCEL 442	F	92.9	23	55.1	45	99.2	98.9
AgriPro/Syngenta	BRANSON	C	92.7	24	54.6	36	93.9	91.8
AgriPro/Syngenta	W1104	C	94.3	16	53.8	35	95.8	
AgriPro/Syngenta	W1377	C	85.4	59	57.0	40	86.7	84.2
AgriPro/Syngenta	W1566	C	76.8	64	51.9	41	79.3	
Beck's Hybrids	Beck 113	S	97.3	7	55.7	36		
Beck's Hybrids	Beck 122	S	86.8	54	53.7	42	92.1	91.9
Beck's Hybrids	Beck 135	S	96.6	9	55.8	37		
BioTown Seeds	Diener 502W	C	89.3	41	54.0	41		
BioTown Seeds	Diener XW 91	C	102.0	1	53.6	34		
BioTown Seeds	Diener XW 92	C	92.6	25	55.6	42		
DeRaedt Seed	DeRaedt 10	M	91.8	29	57.8	38		
DeRaedt Seed	DeRaedt 14	C	90.7	36	54.6	39	90.9	
Direct Enterprises	DW Exp 106	M	90.6	38	54.1	41		
Direct Enterprises	DW Exp 109	M	87.7	50	52.4	38		
Dyna-Gro	9031	C	91.3	33	57.7	39		
Dyna-Gro	9042	C	87.9	49	54.0	37		
Dyna-Gro	9053	C	97.2	8	52.2	36		
Dyna-Gro	9922	C	87.5	52	55.1	37		
Excel Brands	EXCEL 170	M	86.0	56	54.8	39		
Excel Brands	EXCEL 209	N	88.9	44	55.7	39		
Excel Brands	EXCEL 242	M	91.4	32	55.1	39		
Excel Brands	EXCEL 302	M	95.8	11	54.6	35		
Excel Brands	EXCEL 357	M	87.4	53	56.7	40		
GROWMARK	FS 610	C	94.4	14	57.5	40	95.0	
GROWMARK	FS 620	C	96.6	10	57.9	39		
GROWMARK	FS 628	C	90.7	37	54.0	41	91.9	91.3
GROWMARK	FS 630	C	93.9	19	55.1	42		
Hoffman Seed House	EXCEL 242	N	87.6	51	54.8	39		
Horizon Genetics	H 755W	G	97.5	6	56.4	34		
Kaltenberg Seeds	KW62	F	88.4	47	54.0	41	87.5	89.0
Kaltenberg Seeds	KW63	F	89.7	39	54.3	36	90.4	
Kaltenberg Seeds	KW70	F	81.8	61	56.0	37	83.0	
Kaltenberg Seeds	KW74	F	94.7	13	57.8	40		
Kitchen Seed Company	KSC 409W	M	93.3	22	57.9	40	96.0	
Kitchen Seed Company	KSC 410W	M	99.2	4	57.6	39		
Lewis Hybrids	Lewis 830	G	82.0	60	53.2	41	88.2	90.2
Lewis Hybrids	Lewis 835	G	89.4	40	57.7	39	91.1	
MWS Seeds LLC	MWS 207	F	92.1	27	58.1	39		
MWS Seeds LLC	MWS 420	F	92.0	28	55.7	42		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	F	89.3	42	54.1	39	90.7	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	F	99.2	3	54.3	36	97.6	99.1
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	F	94.0	18	53.9	35	93.1	92.5
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	F	91.5	30	51.3	35	96.7	99.7
Pro Seed Genetics	PRO 200	G	92.3	26	56.9	40	92.6	
Pro Seed Genetics	PRO 220	G	94.4	15	58.3	44		
Pro Seed Genetics	PRO 240	G	88.8	45	53.9	42	92.1	
Pro Seed Genetics	PRO EX320A	G	93.5	21	55.8	43		
Sunstar Hybrids	S-1200	F	99.3	2	53.2	35		
Sunstar Hybrids	S-2100	F	91.5	31	54.0	37		
Synergy Seeds	EXCEL 341	M	93.8	20	55.2	41	98.6	
Synergy Seeds	EXCEL 399	M	94.9	12	54.9	40	98.4	
Synergy Seeds	EXCEL 442	M	91.3	34	55.5	43	96.8	
Virginia Tech	Jamestown	F	79.1	63	55.3	37		
Virginia Tech	Merl	F	80.2	62	55.6	34	83.9	
Walter Seed	Walter 09	F	88.9	43	53.8	41		
Wilken Seed Grains	Wilken W 103	C	85.7	58	53.5	40	88.8	90.3
Wilken Seed Grains	Wilken W 108	C	88.5	46	56.0	37		
Wilken Seed Grains	Wilken W 130	C	85.7	57	56.2	37	76.8	78.2
Wilken Seed Grains	Wilken W 140	F	94.1	17	58.2	42		
Wilken Seed Grains	Wilken W 161	C	88.0	48	55.4	44	90.2	92.4
	Trial Mean		90.9		55.4	39	91.8	91.5
	LSD, 10%		4.0		0.7	2		
	CV, %		3.2		0.9	4		

Averaged over two entries compared at Urbana, seed treatment insecticide (Cruiser) decreased yield by 3.1 bushels/acre.

<sup>1</sup>ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide, M= Macho+Fungicide, N= Encase+Fungicide, S= Escalate+Fungicide.

**Table 8. Results of the 2009 wheat variety trial at DeKalb, in north central Illinois.**  
**THE 2010 TRIAL WAS ABANDONED DUE TO WATER DAMAGE, SO THIS IS A RERUN OF THE 2009 DATA.**

<u>Company</u>	<u>Variety</u>	<u>Yield</u> bu/ac	<u>Yield</u>	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2-yr avg</u>	<u>3-yr avg</u>
			<u>Rank</u> 1 to 70			<u>2007.09</u> bu/ac	<u>2006.07.09</u> bu/ac
	EXCEL 180	101.7	30	59.1	40		
Agrinetics	EXCEL 180 Macho	107.3	5	59.4	41		
Agrinetics	EXCEL 234	87.8	65	58.1	38		
Agrinetics	EXCEL 234 Macho	82.7	69	56.3	39		
Agrinetics	EXCEL 442	106.3	6	56.8	47		
AgriPro	BRANSON	101.8	29	54.8	37	86.6	88.5
AgriPro	W1104	108.8	3	53.4	41		
AgriPro	W1377	94.7	51	58.4	41	88.4	
AgriPro	W1566	98.9	40	54.2	44		
Beck's Hybrids	Beck 122	104.5	14	55.0	42		
Beck's Hybrids	Beck 137	99.5	38	58.3	40		
Beck's Hybrids	Beck 164	92.9	56	53.7	39		
BioTown Seeds	Diener 496	92.9	57	54.2	38		
BioTown Seeds	Diener XW 70	94.8	50	58.2	42		
BioTown Seeds	Diener XW 81	88.5	64	54.4	36		
Crop Production Services	9911	96.1	48	57.4	40		
Crop Production Services	DG408	102.9	22	56.6	40		
Crop Production Services	Shirley	87.4	67	51.9	37		
Crop Production Services	V9712	82.7	70	56.6	36	73.3	
Crop Production Services	V9723	103.0	20	55.0	43	88.5	
Crop Production Services	V9812	88.8	63	55.6	38		
DeRaedt Seed	DeRaedt 07	95.1	49	56.1	39		
DeRaedt Seed	DeRaedt 14	93.3	54	53.9	40		
Green Valley Seed	Willcross 736	100.7	34	55.9	43	90.8	
Green Valley Seed	Willcross 748	103.6	18	54.3	41		
GROWMARK	FS 610	103.0	21	58.5	39		
GROWMARK	FS 618	106.2	7	57.5	43		
GROWMARK	FS 628	99.9	37	54.5	45	89.8	
GROWMARK	FS 637	96.9	46	56.0	38	86.1	89.9
GROWMARK	FS 659	91.0	60	53.7	39		
Hartke Seed Farm	EXCEL 351 TW	93.6	53	57.9	40		
Hartke Seed Farm	EXCEL 351 TW Macho	96.7	47	57.8	39		
Kaltenberg Seeds	KW62	100.6	35	54.1	44	89.0	
Kaltenberg Seeds	KW63	89.6	62	55.8	38	83.1	
Kaltenberg Seeds	KW70	97.6	44	53.2	39		
Kaltenberg Seeds	KW75	91.4	59	54.6	37		
Kitchen Seed Company	KSC 407W	101.3	32	57.7	42	78.6	
Kitchen Seed Company	KSC 408W	110.9	2	56.4	43		
Kitchen Seed Company	KSC 409W	104.9	12	59.2	41		
Lewis Hybrids	Lewis 830	99.0	39	54.8	43	88.4	
Lewis Hybrids	Lewis 835	101.9	26	58.7	40		
Lewis Hybrids	Lewis 841	91.6	58	54.8	39	82.6	88.0
MWS Seeds LLC	MWS 135	102.6	24	54.8	44	91.9	
MWS Seeds LLC	MWS 225	103.3	19	59.4	41		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	100.5	36	53.8	39		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	106.1	8	54.1	38	91.7	96.1
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	94.6	52	54.0	38	90.6	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	86.9	68	54.2	38		
Pro Seed Genetics	PRO 200	106.0	10	59.2	42		
Pro Seed Genetics	PRO 240	97.8	43	54.9	44		
Public	Kaskaskia	101.0	33	59.1	45	91.6	91.9
Steyer Seeds	Fatzinger	102.1	25	54.1	42		
Synergy Seeds	EXCEL 307	98.0	42	57.4	42	79.9	
Synergy Seeds	EXCEL 307 Macho	103.6	17	58.0	42		
Synergy Seeds	EXCEL 341	104.8	13	56.6	41	87.0	
Synergy Seeds	EXCEL 341 Macho	103.8	16	55.3	42		
Synergy Seeds	EXCEL 399	103.8	15	56.2	43	86.7	
Synergy Seeds	EXCEL 399 Macho	106.0	9	56.8	43		
Synergy Seeds	EXCEL 442 Macho	113.5	1	56.6	47		
Virginia Tech	Merl	98.6	41	56.6	38		
Virginia Tech	Roane	90.7	61	57.8	37	83.3	86.4
Virginia Tech	VA04W-90	87.8	66	57.4	41		
Wilken Seed Grains	Wilken W 103	93.2	55	55.1	42		
Wilken Seed Grains	Wilken W 106	102.8	23	56.6	42	84.1	88.5
Wilken Seed Grains	Wilken W 110	101.9	28	55.3	42	86.6	
Wilken Seed Grains	Wilken W 130	97.0	45	58.4	41	85.6	86.8
Wilken Seed Grains	Wilken W 135	105.5	11	56.4	42	88.0	89.9
Wilken Seed Grains	Wilken W 137	101.9	27	55.7	44		
Wilken Seed Grains	Wilken W 161	108.1	4	56.3	47		
Wilken Seed Grains	Wilken W 204	101.7	31	56.3	45	81.5	85.4
	Trial Mean	98.9		56.2	41	86.1	89.1
	LSD, 10%	6.0		1.1	2		
	CV, %	4.5		1.4	4		

Averaged over seven entries compared at DeKalb, seed treatment insecticide (Macho) increased yield by 2.5 bushels/acre.

**Table 9. Agronomic characteristics of wheat varieties sold in Illinois. Descriptions of private varieties are provided by companies. See the bottom of the table (second page) for codes.**

<u>Origin</u>	<u>Variety</u>	<u>Type</u>	<u>Maturity</u>	<u>Head type</u>	<u>Winter-hardiness</u>	<u>Plant height</u>	<u>Stand-ability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Sept-oria</u>
AgriMAXX	403	V	E	S	E	S	E	I	MR	MR
	490	V	E	B	E	M	E	I	MR	MR
	499	V	ME	S	E	M	E	I	MS	MR
	X1017	V	E	B	E	M	E	I	MR	MR
Agrinetics Inc	EXCEL 163	V	VE	B	VG	M	G	I	MR	MR
	EXCEL 180	V	E	S	VG	MT	VG	I	R	R
	EXCEL 234	V	ME	S	E	MS	E	I	R	R
	EXCEL 442	V	M	B	E	MT	VG	I	R	MR
Agripro COKER	Branson	V	ME	S	G	M	VG	I	MR	I
	W1104	V	M	S	G	M	G	S	MR	MR
	W1377	V	M	S	VG	M	VG	I	MR	I
	W1566	V	M	S	E	T	G	S	MR	MR
Beck's Hybrids	87	V	VE	B	VG	M	VG	MR	MR	MR
	113	V	ME	S	VG	M	E	MR	MR	MR
	122	V	ME	S	VG	T	VG	MR	MR	MR
	134	V	ME	B	VG	M	VG	MR	MR	MR
	135	V	ME	B	E	M	VG	MR	MR	MR
BioTown Seeds	487W	V	ME	S	VG	M	VG	I	MR	MR
	XW 90	V	ME	B	G	MS	VG	I	I	I
	XW 91	V	ME	B	G	MS	VG	I	I	I
	XW 92	V	L	B	G	T	VG	I	I	I
	502W	V	L	S	VG	T	VG	I	I	I
Brownstown Ag Center	EXCEL 170	V	VE	S	E	MS	E	I	MR	MR
Delta Grow Seed	DG 5900	V	M	S	E	M	E	I	R	M
DeRaedt Seed	10	V	E	T	E	MT	VG	I	MR	MR
	14	V	ML	S	E	MT	VG		MR	MR
Direct Enterprises	DW Exp 106	V	E	S	VG	M	VG	S	MR	MR
	DW Exp 109	V	E	S	VG	M	VG	S	MR	MR
Dyna-Gro Seed	9012	V	M	B	E	M	E	I	I	MR
	9031	V	E	S	VG	M	G	MS	I	I
	9042	V	M	S	VG	M	V	MS	M	I
	9053	V	ML	B	VG	N	V	MS	M	I
	9922	V	M	B	E	M	E	S	R	MR
Excel Brand Seed	EXCEL 170 Macho	V	VE	S	E	MS	E	I	MR	MR
	EXCEL 209 Encase	V	E	S	E	MS	E	I	R	R
	EXCEL 242 Macho	V	ME	S	VG	M	E	I	MR	MR
	EXCEL 302 Macho	V	M	S	VG	M	E	I	R	R
	EXCEL 341 Macho	V	M	S	E	M	VG	I	MR	R
	EXCEL 357 Macho	V	M	S	E	M	VG	I	MR	MR
Green Valley Seed	Willcross 740	V	E	S	E	MT	E	S	R	MR
	Willcross 748	V	E	S	E	MT	E	S	MR	MR
FS Seeds	FS 600	V	E	S	E	M	E	S	MR	MR
	FS 610	V	E	S	VG	T	VG	S	I	MR
	FS 620	V	ME	S	VG	T	E	S	S	S
	FS 628	V	ME	S	E	T	E	S	I	I
	FS 630	V	ME	S	E	T	E	S	I	I
Hoffman Seed House	EXCEL 180	V	E	S	VG	M	VG	I	MR	MR
	EXCEL 209	V	E	S	E	MS	E	I	R	R
	EXCEL 242	V	ME	S	VG	M	G	I	MR	MR

**Table 9, continued**

<u>Origin</u>	<u>Variety</u>	<u>Type</u>	<u>Maturity</u>	<u>Head type</u>	<u>Winter-hardiness</u>	<u>Plant height</u>	<u>Standability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Septoria</u>
Hoffman Seed Inc	H 7W06	V	E	S	VG	S	E	I	I	MS
	H 7W09	V	ME	S	E	M	E	MR	MR	MS
	H 7W10	V	ME	B	E	M	E	MR	MR	MR
Horizon Genetics	H 755W	V	ML	B	E	M	E		I	MR
Kaltenberg Seed	KW62	V	M	S	E	MT	E		MR	MR
	KW63	V	M	S	VG	M	E		R	MR
	KW70	V	ML	S	E	M	E		MR	MR
	KW74	V	M	S	VG	M	VG		MR	MR
Kitchen Seed Company	KSC 409W	V	M	S	E	M	G	T	MR	MR
	KSC 410W	V	M	S	E	M	E	T	MR	MR
Lewis Hybrids	830	V	ME	S	E	T	E	I	MR	I
	835	V	ME	S	E	M	VG	I	I	MR
Miles Seed	Phebe	V	M	B	E	M	E		MR	MR
	Dinah	V	M	S	E	M	VG		R	MR
	Lois	V	M	S	E	M	E		I	I
Miller Bros. Farm & Fertilizer	EXCEL 173	V	E	S	VG	M	VG	I	MR	MR
	EXCEL 234	V	ME	S	VG	M	E	I	M	M
MWS Seeds LLC	MWS 207	V	E	S	E	M	G		MR	MR
	MWS 420	V	M	B	E	T	VG		R	R
Pioneer Hi-Bred Int'l, Inc.	PIONEER 25R39	V	ML	S	VG	M	G	S	R	MR
	PIONEER 25R47	V	M	B	E	S	VG	S	R	MR
	PIONEER 25R54	V	ME	B	G	M	VG	MR	I	I
	PIONEER 25R56	V	ME	S	E	S	G	R	MR	MR
	PIONEER 25R62	V	ME	B	VG	S	E	S	MS	I
	PIONEER 25R78	V	ME	B	G	S	E	MR	R	MS
Pro Seed Genetics	PRO 200	V	M	S	VG	M	VG		R	MR
	PRO 240	V	E	S	G	M	VG		MR	MR
	PRO 220	V	E	S	VG	M	VG		MR	MR
	PRO Ex320A	V		B	G	M	VG		MR	MR
Sunstar Hybrids	S-1200	V	ME	B	VG	MS	E		MR	R
	S-2100	V	M	S	VG	M	E		MR	R
Synergy Seeds	EXCEL 341	V	M	S	E	M	E	I	MR	R
	EXCEL 399	V	M	S	VG	M	E	I	R	R
	EXCEL 442	V	M	B	E	MT	VG	I	R	MR
Virginia Tech	Jamestown	V	E	B	VG	S	VG	MR	R	
	Merl	V	M	T	VG	M	VG		R	
Walter Seed	Walter 09	V	M	S	E	M	VG	S	I	MR
Wilken Seed Grains, Inc.	Wilken 103	V	ME	S	E	MT	E	M	MR	MR
	Wilken 108	V	M	S	E	M	VG	M	MR	MR
	Wilken 130	V	ME	S	E	M	VG	M	MR	MR
	Wilken 161	V	ML	B	E	M	VG	M	MR	MR
	Wilken 140	V	ME	S	E	M	VG	M	MR	MR

Codes:

Type: V = variety; B = blend; H = hybrid  
Maturity: E = 2 or more days earlier than average; ME = 1-2 days early; M = medium maturity, or about average of most varieties grown in Illinois; ML = 1-2 days later than M; L = 2 or more days later than M  
Head type: S = smooth (not bearded); T = tip-awned; B = awned (bearded)  
Winterhardness and standability are rated fair (F), good (G), very good (VG) or excellent (E)  
Plant height: S = short; M = medium; T = tall  
Hessian fly and disease reactions: S = susceptible; R = resistant; I = intermediate;  
MS = moderately susceptible; MR = Moderately resistant

**Table 10. 2010 Fusarium head scab evaluation of variety test entries at Urbana, Illinois.**  
**Head Scab Resistance Rating scale: 1 = resistant, 9 = susceptible.**

<b>Company</b>	<b>Entry Name</b>	<b>Scab Resistance Rating (1-9)</b>	<b>Company</b>	<b>Entry Name</b>	<b>Scab Resistance Rating (1-9)</b>
AgriMAXX	AgriMAXX 403	7	Excel Brand Seed	Excel 442	4
AgriMAXX	AgriMAXX 490	5	Green Valley Seed	Willcross 740	8
AgriMAXX	AgriMAXX 499	4	Green Valley Seed	Willcross 748	7
AgriMAXX	X1017	8	GROWMARK	FS 600	3
AgriPro/Syngenta	Branson	8	GROWMARK	FS 610	3
AgriPro/Syngenta	W1104	7	GROWMARK	FS 620	3
AgriPro/Syngenta	W1377	5	GROWMARK	FS 628	7
AgriPro/Syngenta	W1566	9	GROWMARK	FS 630	4
Beck's Hybrids	Beck 87	5	Hoffman Seed House	H7W06	6
Beck's Hybrids	Beck 113	6	Hoffman Seed House	H7W09	9
Beck's Hybrids	Beck 122	7	Hoffman Seed House	H7W10	6
Beck's Hybrids	Beck 134	6	Horizon Genetics	H 755W	8
Beck's Hybrids	Beck 135	6	Kaltenberg Seeds	KW62	6
BioTown Seeds	Diener 487W	6	Kaltenberg Seeds	KW63	8
BioTown Seeds	Diener 502W	7	Kaltenberg Seeds	KW70	2
BioTown Seeds	Diener XW 90	7	Kaltenberg Seeds	KW74	3
BioTown Seeds	Diener XW 91	7	Kitchen Seed Co.	KSC 409W	4
BioTown Seeds	Diener XW 92	6	Kitchen Seed Co.	KSC 410W	2
Delta Grow Seed	DG 5900	3	Lewis Hybrids	Lewis 830	7
DeRaedt Seed	DeRaedt 10	4	Lewis Hybrids	Lewis 835	3
DeRaedt Seed	DeRaedt 14	8	MWS Seeds LLC	MWS 207	3
Direct Enterprises	DW Exp 106	6	MWS Seeds LLC	MWS 420	5
Direct Enterprises	DW Exp 109	6	Pioneer Hi-Bred Int'l	Pio 25R39	7
Dyna-Gro	9031	4	Pioneer Hi-Bred Int'l	Pio 25R47	8
Dyna-Gro	9012	6	Pioneer Hi-Bred Int'l	Pio 25R54	6
Dyna-Gro	9053	7	Pioneer Hi-Bred Int'l	Pio 25R56	7
Dyna-Gro	9042	7	Pioneer Hi-Bred Int'l	Pio 25R62	7
Dyna-Gro	9922	8	Pioneer Hi-Bred Int'l	Pio 25R78	7
Excel Brand Seed	Excel 163	6	Pro Seed Genetics	PRO 200	6
Excel Brand Seed	Excel 170	4	Pro Seed Genetics	PRO 220	4
Excel Brand Seed	Excel 173	5	Pro Seed Genetics	PRO 240	6
Excel Brand Seed	Excel 180	3	Pro Seed Genetics	PRO EX320A	6
Excel Brand Seed	Excel 209	4	Sunstar Hybrids	S-1200	7
Excel Brand Seed	Excel 234	3	Sunstar Hybrids	S-2100	8
Excel Brand Seed	Excel 242	4	Virginia Tech	Jamestown	7
Excel Brand Seed	Excel 302	5	Virginia Tech	McCormick	4
Excel Brand Seed	Excel 341	5	Virginia Tech	Merl	8
Excel Brand Seed	Excel 357	4	Virginia Tech	Roane	4
Excel Brand Seed	Excel 399	5			

Head Scab Resistance Rating 1-9 scale: 1 = resistant, 9 = susceptible

Data provided by Eric Brucker and Fred Kolb based on a inoculated and mist irrigated nursery.