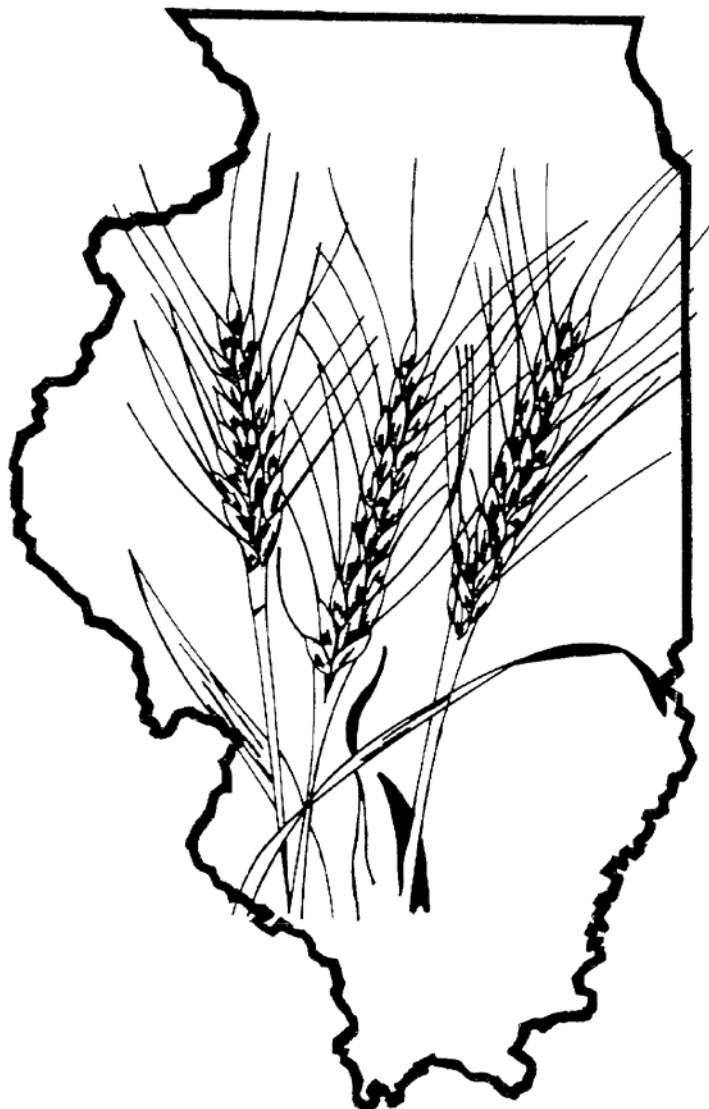


WHEAT PERFORMANCE IN ILLINOIS TRIALS – 2013



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Department of Crop Sciences
University of Illinois
July 2013**

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Crop Sciences Special Report 2013-01, July 2013

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The 2012-13 wheat season was a reasonably good one in Illinois, with above-average yields but with some quality issues due to wet weather in the spring. Acres planted for grain increased from 645,000 acres in 2012 to 820,000 acres in 2013, and 2013 yield is projected at 65 bushels per acre, 2 bushels more than in 2012. The 2013 yield is the second-highest on record.

The very dry summer and fall of 2012 was relieved somewhat by rains (including remnants of a hurricane in early September) in August and September. The corn crop was very poor in most of Illinois, and was either harvested early or destroyed, so more than usual amounts of wheat followed corn. Some was planted earlier than normal, and access to nitrogen was above normal in many fields that were corn in 2012. With rainfall continuing through the fall and soybean harvest delayed, some of the crop was planted late as well. Stands were generally good, and fall growth was about average. The winter of 2012-13 brought average temperatures, with no mid-winter thaw. There was little damage from standing water or from cold temperatures. The crop greened up somewhat late and remained behind normal development through the spring. The weather remained wetter than normal throughout the spring. The crop was spared serious Fusarium head scab in much of southern Illinois, but not in much of central and northern Illinois. Harvest was delayed by late crop development and by wet weather, with much of the crop harvested and doublecrop soybeans planted in late June or early July.

The 2013 wheat variety trials were planted on time, under good soil conditions. The main factors that negatively affected yields were disease and delayed harvest, with some low test weights and quality issues. The trial at Urbana was somewhat affected by herbicide carryover from 2012, plus wet weather before harvest; data from this trial were supplied to companies but not included in the regional averages. Yields were average to good at southern locations and below average in central and northern Illinois trials.

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. Entries treated with seed-applied insecticide have insecticide treatment identified by product name.

<u>Location</u>	<u>Cooperators</u>	<u>Soil type</u>	<u>Planted</u>	<u>N fertilizer</u>	<u>Harvest</u>
Dixon Springs	Steve Ebelhar	Grantsburg silt loam	Oct. 23	30 Fall 120 Spring	July 3
Belleville	Ron Krausz	Ebbert silt loam	Oct. 22	30 Fall 85 Spring	July 7
Brownstown	Lindell Deal	Cisne silt loam	Oct. 10	40 Fall 120 Spring	July 8
Orr Center	Mike Vose	Clarksdale silt loam	Oct. 3	45 Fall 80 Spring	June 27
Urbana	Bob Dunker Jeff Warren	Flanagan silt loam	Oct. 1	40 Fall 40 Spring	July 9
DeKalb	Greg Steckel Dave Lindgren	Elpaso silty clay loam	Sept. 25	30 Fall 40 Spring	July 18

Participating companies are listed on Page 2, regional data in Tables 1 and 2, individual location data in Tables 3 to 8, wheat variety characteristics in Table 9, and the Fusarium head scab ratings in Table 10.

Participating Companies

We thank these companies for their support of this program in 2013.

AgriMAXX Wheat Co
7167 Highbanks Rd
Mascoutah, IL 62258
(855) 629-9432

GROWMARK, Inc.
1701 Towanda Ave., PO 2500
Bloomington, IL 61701
(309) 557-6399

Pro Harvest Seeds, Inc.
2737 N 700 E Rd
Ashkum, IL 60911
(815) 698-2204

Beck's Hybrids
6767 E 276th St
Atlanta, IN 46031
(317) 984-3508

Hartke Seed Farms
22679 Sunset Rd
Litchfield, IL 62059
(217) 324-2680

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

BioGene Seeds
5477 Tri-County Hwy
Sardinia, OH 45171
(937) 444-4042

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

Steyer Seeds
6154 N Co Rd 33
Tiffin, OH 44883
(800) 231-4274

BioTown Seeds
Box 299
Reynolds, IN 47980
(219) 984-5247

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

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

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

Lewis Hybrids, Inc
530 West Maple Ave.
Ursa, IL 62376
(217) 964-2131

Syngenta
2426 Webster Rd
Monroeville, IN 46773
(765) 412-5420

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

Limagrain Cereal Seeds LLC
257 East Hail Street
Bushnell, IL 61422
(309) 772-2070

UniSouth Genetics, Inc.
3205C HWY 46 S
Dickson, TN 37055
(615) 515-3133

DuPont Pioneer
421 Detroit Drive
Bloomington, IL 61704
(800) 950-3489

Martin Seeds, Inc.
10045W Second
Williamsport, IN 47993
(765) 986-2030

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

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

Merschman Seeds, Inc
103 Ave D, PO Box 67
West Point, IA 52656
(800) 848-7333

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

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

Table 1. Southern Illinois regional wheat variety trial results, 2013

Company	Variety	ST ¹	Regional Average				Dixon Springs		Belleville		Brownstown	
			Yield bu/ac	Yield Rank 1 to 71	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu
AgriMAXX	412	C	75.5	30	56.9	36	79.1	55.8	84.4	58.3	62.9	56.7
AgriMAXX	413	C	80.2	9	52.8	33	82.1	52.8	88.6	53.5	69.9	52.2
AgriMAXX	415	C	75.5	29	56.8	34	68.2	55.5	93.2	58.3	65.2	56.6
AgriMAXX	422	C	72.7	43	54.5	36	70.6	53.0	84.6	56.3	62.7	54.2
AgriMAXX	447	C	74.5	35	53.9	36	73.3	52.5	86.1	55.7	64.7	53.6
AgriMAXX	Exp 1327	C	72.0	48	56.5	37	77.4	55.8	75.6	57.1	59.5	56.4
AgriMAXX	Exp 1335	C	77.4	20	54.2	34	84.1	53.1	81.7	55.6	66.3	53.8
Beck's Hybrids	Beck 113	S	74.6	34	54.5	34	74.8	53.3	82.8	56.0	66.3	54.2
Beck's Hybrids	Beck 120	S	79.6	12	52.8	34	77.4	52.1	90.2	53.9	71.4	52.4
Beck's Hybrids	Beck 129	S	79.6	13	54.5	37	80.2	52.3	86.4	56.4	72.2	54.9
Beck's Hybrids	Beck 135	S	81.8	4	55.0	36	82.1	53.9	90.1	56.1	73.1	55.2
BioGene	BG 2W11	C	79.8	11	54.2	35	82.7	52.4	87.6	55.6	69.0	54.5
BioTown Seeds	Diener 492W	C	83.1	1	53.7	34	80.2	52.9	93.2	54.6	75.8	53.5
BioTown Seeds	Diener 506W	C	71.1	53	53.9	36	69.5	51.3	80.4	57.1	63.5	53.3
Direct Enterprises	Edge	G	69.0	62	55.3	37	68.9	54.1	81.2	56.1	56.9	55.7
Direct Enterprises	Guardian	G	71.6	50	55.5	36	66.7	53.0	81.6	57.4	66.7	56.0
Direct Enterprises	Quest	G	66.0	69	53.3	35	74.1	52.6	64.5	54.3	59.5	53.1
Direct Enterprises	Sienna	G	67.8	67	54.6	37	75.4	53.1	69.4	55.3	58.6	55.4
DuPont Pioneer	Pioneer 25R40	G	72.9	42	54.9	33	72.5	53.9	80.3	55.5	65.8	55.5
DuPont Pioneer	Pioneer 25R46	G	75.2	31	55.4	35	74.9	52.9	77.1	57.0	73.7	56.4
DuPont Pioneer	Pioneer 25R62	G	80.5	8	53.3	35	80.7	52.3	88.3	54.1	72.5	53.5
DuPont Pioneer	Pioneer 25R77	G	81.4	6	55.9	34	82.5	55.0	88.2	56.9	73.5	55.8
DuPont Pioneer	Pioneer 25R78	G	70.0	58	54.8	34	66.7	53.8	78.6	56.4	60.1	54.1
Dyna-Gro	9031	G	69.8	61	57.6	36	70.1	57.0	80.0	58.3	59.2	57.5
Dyna-Gro	9171	G	79.1	16	53.2	33	81.7	52.7	84.2	54.2	71.4	52.6
Dyna-Gro	9223	G	78.1	18	54.6	37	79.9	52.7	87.6	56.3	66.7	54.7
Dyna-Gro	9373	C	76.4	23	54.0	36	77.7	52.7	87.1	55.8	64.3	53.6
GROWMARK	FS 602	C	80.6	7	53.3	34	80.0	53.3	89.8	54.2	72.0	52.4
GROWMARK	FS 605	C	74.9	32	56.9	37	73.7	55.6	87.8	58.1	63.3	57.0
GROWMARK	FS 622	C	73.0	41	56.6	33	69.4	55.1	84.7	57.7	64.8	56.8
GROWMARK	FS 625	C	75.8	26	54.2	35	76.6	52.7	86.9	55.7	64.0	54.3
GROWMARK	FS 626	C	75.9	25	53.3	35	72.0	52.3	80.9	53.7	74.8	53.8
GROWMARK	WX13A	C	69.8	60	55.2	37	73.7	53.0	80.6	57.4	55.0	55.3
Hartke Seed	LCS - L228	C	72.3	47	59.1	35	56.1	57.1	88.6	60.0	71.5	60.1
Hoffman Seed House	H-7180	C	70.6	56	57.9	36	76.2	57.4	79.4	58.8	56.3	57.4
Hoffman Seed House	H-7171	C	74.4	36	56.6	37	74.6	56.2	81.2	57.4	67.3	56.4
Hoffman Seed House	H7W11	C	72.3	46	56.7	35	74.1	55.4	82.4	58.0	60.4	56.5
Hoffman Seed House	H7W14	C	81.9	3	54.0	33	82.6	52.9	92.4	55.4	71.2	53.6
Hoffman Seed House	LCS L163	C	68.6	65	56.0	34	73.1	54.6	77.5	57.9	54.1	55.5
Kitchen Seed Company	KSC 409W	F	68.7	63	57.7	36	66.0	56.9	77.7	58.8	62.5	57.4
Kitchen Seed Company	KSC 411W	C	78.2	17	53.2	33	78.9	52.9	85.6	54.2	70.1	52.4
Kitchen Seed Company	KSC 412W	C	76.7	21	54.7	37	79.4	52.5	84.5	56.4	66.3	55.2
Lewis Hybrids	Lewis 829	F	70.8	54	54.6	39	68.7	53.2	83.8	55.6	59.7	55.1
Lewis Hybrids	Lewis 839	C	76.4	24	54.1	36	78.9	53.1	87.3	55.4	63.0	53.8
Lewis Hybrids	Lewis 851	C	74.2	38	56.1	36	81.0	54.6	80.4	57.3	61.3	56.3
Limagrain Cereal Seeds	LCS 34969	C	74.7	33	55.8	37	78.0	55.2	83.3	56.6	62.7	55.5
Limagrain Cereal Seeds	LCS 38686	C	71.4	52	54.8	35	74.5	53.2	76.3	56.1	63.2	55.0
Merschman	Barbie 9	C	70.6	57	56.4	36	71.1	54.9	85.3	57.9	55.5	56.3
Merschman	Barbie VIII		77.4	19	52.9	32	77.8	51.5	88.5	55.3	65.9	52.0
Merschman	Bintee 9	G	74.2	37	56.8	37	78.1	56.5	85.8	57.7	58.7	56.2
Merschman	Julie VII		71.9	49	58.7	38	71.6	58.8	76.6	58.5	67.6	58.8
Merschman	Katie 12	C	75.7	28	57.7	36	76.3	56.7	87.9	59.4	63.0	57.0
Merschman	Millie 4	C	68.7	64	57.0	34	70.6	56.5	80.0	58.9	55.4	55.5
Miller Bros. Seed and Fert.	LCS L171	C	75.8	27	56.6	36	76.2	55.7	83.3	57.6	67.8	56.4
Pro Harvest	288	C	67.0	68	55.2	39	57.8	53.8	83.6	55.9	59.7	55.9
Pro Harvest	311	C	73.0	40	53.9	34	76.1	51.8	81.7	55.9	61.3	53.8
Pro Harvest	334	C	71.5	51	54.4	37	51.5	52.0	90.2	56.3	72.7	55.0
Steyer Seeds	Dowell	F	79.3	14	53.8	35	81.1	51.4	89.3	55.6	67.7	54.4
Steyer Seeds	Heilman	F	72.4	45	55.1	38	74.5	53.9	76.8	55.7	65.8	55.8
Steyer Seeds	Hunker	F	79.8	10	54.8	37	74.8	52.8	90.8	55.9	73.6	55.6
Sunstar Hybrids	S-1100	F	72.6	44	54.0	35	74.6	52.0	77.8	55.5	65.4	54.5
Sunstar Hybrids	S-1200	F	82.1	2	53.8	33	81.5	52.7	91.4	55.6	73.4	52.9
Syngenta	SY 474	C	73.1	39	56.0	37	72.6	54.3	88.8	57.3	57.7	56.6
Syngenta	SY 1526	C	70.7	55	54.7	36	69.0	53.0	78.9	55.5	64.3	55.5
Syngenta	SY 483	C	63.6	71	52.7	35	66.2	52.3	67.2	53.7	57.4	52.2
Syngenta	W1104	C	70.0	59	53.1	35	70.0	52.1	70.5	53.6	69.4	53.7
UniSouth Genetics, Inc.	3251	C	81.4	5	55.3	37	83.2	54.3	92.7	56.4	68.4	55.4
UniSouth Genetics, Inc.	3438	C	79.2	15	53.1	34	81.6	52.7	85.9	53.9	70.1	52.6
UniSouth Genetics, Inc.	3555	C	76.5	22	55.0	33	70.7	53.4	87.5	56.6	66.0	55.0
Virginia Crop Impr. Assoc.	Jamestown	F	65.1	70	57.0	33	69.4	57.2	75.5	58.5	50.6	55.2
Virginia Crop Impr. Assoc.	VA09W-73	F	68.4	66	55.6	36	71.9	53.2	71.4	57.4	62.0	56.2
	Trial Mean		74.1		55.2	35	74.3	54.0	83.1	56.4	64.7	55.2
	LSD, 10%		4.1		0.5	1	7.0	1.1	7.8	1.0	6.2	0.6
	CV, %		7.1		1.2	4	7.0	1.5	7.0	1.2	7.0	0.9

¹ST- 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, 2013

Company	Variety	ST ¹	Regional Average				Perry		DeKalb	
			Yield bu/ac	Yield Rank 1 to 59	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu
AgriMAXX	413	C	78.4	16	56.4	32	80.1	55.2	76.7	57.5
AgriMAXX	427	C	73.8	41	55.3	35	78.1	55.0	69.5	55.7
AgriMAXX	434	C	79.9	9	56.9	32	89.8	57.1	70.1	56.6
AgriMAXX	438	C	75.8	33	55.5	37	79.3	55.0	72.3	56.0
AgriMAXX	447	C	80.3	7	55.7	35	81.2	54.7	79.4	56.7
Beck's Hybrids	Beck 113	S	74.9	37	57.7	34	79.1	58.7	70.6	56.7
Beck's Hybrids	Beck 120	S	78.9	13	56.9	32	81.6	55.9	76.1	57.9
Beck's Hybrids	Beck 129	S	78.6	15	56.1	37	82.3	56.1	74.9	56.1
Beck's Hybrids	Beck 135	S	81.7	5	57.1	36	85.9	56.0	77.5	58.2
BioTown Seeds	Diener 492W	C	79.1	11	56.8	34	77.5	55.7	80.8	58.0
BioTown Seeds	Diener 512W	C	76.8	25	55.4	37	80.3	55.3	73.3	55.4
DeRaedt Seed	DeRaedt 11	C	77.0	22	56.0	33	73.1	55.0	80.9	56.9
DeRaedt Seed	DeRaedt 9	C	78.1	18	56.2	36	75.0	54.3	81.1	58.0
Direct Enterprises	Guardian	G	69.1	55	55.4	36	74.8	56.2	63.4	54.6
Direct Enterprises	Quest	G	73.2	43	57.9	37	74.2	57.6	72.2	58.1
Direct Enterprises	Sienna	G	72.9	44	56.1	39	75.6	56.6	70.1	55.6
DuPont Pioneer	Pioneer 25R34	G	80.1	8	56.3	35	84.4	56.1	75.8	56.4
DuPont Pioneer	Pioneer 25R39	G	76.6	26	56.5	34	72.5	56.2	80.8	56.8
DuPont Pioneer	Pioneer 25R40	G	82.6	3	58.1	32	89.8	57.4	75.4	58.7
DuPont Pioneer	Pioneer 25R46	G	70.4	52	56.6	34	79.8	56.6	60.9	56.6
DuPont Pioneer	Pioneer 25R77	G	78.9	12	59.4	33	81.5	59.2	76.4	59.7
Dyna-Gro	9171	G	75.1	35	56.6	33	75.6	55.2	74.5	57.9
Dyna-Gro	9223	G	77.9	19	55.7	37	80.5	55.7	75.3	55.8
Green Valley Seed	GV 653	C	74.8	38	55.8	36	78.2	55.4	71.4	56.2
Green Valley Seed	GV 662	C	71.9	46	59.4	33	77.9	59.0	65.9	59.8
GROWMARK	FS 602	C	75.9	31	56.4	32	78.0	55.5	73.9	57.3
GROWMARK	FS 622	C	78.3	17	58.7	34	82.5	59.1	74.1	58.3
GROWMARK	FS 625	C	78.7	14	55.6	35	80.5	55.1	76.8	56.2
GROWMARK	FS 626	C	68.0	57	56.0	33	77.7	55.6	58.5	56.4
GROWMARK	WX13A	C	70.1	54	55.8	36	71.5	55.4	68.7	56.1
Kitchen Seed Company	KSC 409W	F	71.2	47	59.7	35	76.3	60.4	66.0	59.0
Kitchen Seed Company	KSC 411W	C	75.0	36	56.8	32	75.2	55.1	74.7	58.5
Kitchen Seed Company	KSC 412W	C	77.0	23	54.4	36	79.6	53.7	74.3	55.2
Lewis Hybrids	Lewis 829	F	71.1	49	55.8	39	70.7	56.3	71.5	55.4
Lewis Hybrids	Lewis 839	C	76.9	24	55.6	35	80.2	54.7	73.6	56.6
Lewis Hybrids	Lewis 851	C	66.2	58	54.9	36	68.8	54.4	63.6	55.3
Martin Seeds, Inc.	M13W	C	84.5	1	56.6	34	86.4	56.5	82.7	56.8
Martin Seeds, Inc.	Skysail	C	81.4	6	59.7	37	83.4	59.7	79.4	59.8
Merschman	Barbie 9	C	76.5	27	58.1	37	79.2	59.1	73.8	57.2
Merschman	Barbie VIII		77.4	21	56.2	31	78.1	54.5	76.8	57.8
Merschman	Bintee 9	G	72.3	45	61.5	36	75.2	61.9	69.4	61.2
Merschman	Julie VII		68.5	56	61.7	35	71.3	61.2	65.7	62.1
Merschman	Katie 12	C	76.4	28	59.7	35	82.2	60.0	70.7	59.5
Merschman	Millie 4	C	73.8	40	60.5	35	78.6	60.2	69.0	60.9
Pro Harvest	288	C	77.7	20	57.1	39	81.0	57.3	74.4	56.9
Pro Harvest	311	C	70.6	51	55.1	34	78.8	55.5	62.2	54.7
Pro Harvest	334	C	75.9	32	54.8	37	81.3	55.6	70.5	54.0
Pro Seed Genetics	PRO 240	M	83.6	2	57.9	40	90.2	59.1	77.0	56.6
Pro Seed Genetics	PRO 260	M	70.9	50	57.3	34	73.6	57.8	68.2	56.7
Pro Seed Genetics	PRO 320A	M	82.5	4	59.4	40	88.2	58.6	76.7	60.1
Steyer Seeds	Dowell	F	79.8	10	56.0	35	81.7	56.1	77.9	55.9
Steyer Seeds	Heilman	F	76.3	29	56.5	40	73.3	57.3	79.3	55.8
Steyer Seeds	Hunker	F	76.2	30	54.6	36	80.7	55.0	71.8	54.3
Sunstar Hybrids	S-1100	F	70.1	53	55.6	34	78.1	56.1	62.2	55.0
Sunstar Hybrids	S-1200	F	75.4	34	56.7	33	79.0	56.2	71.8	57.1
Syngenta	SY 007	C	73.6	42	57.5	37	73.4	58.5	73.8	56.5
Syngenta	SY 7474	C	71.1	48	56.8	36	69.6	56.9	72.7	56.6
Syngenta	SY 483	C	64.7	59	54.5	35	64.7	53.1	64.6	55.9
Syngenta	W1104	C	74.0	39	55.4	34	83.6	55.2	64.4	55.7
	Trial Mean		75.4		57.1	35	78.3	56.9	72.5	57.3
	LSD, 10%		4.1		1.1	1	5.4	0.9	6.1	2.0
	CV, %		5.6		2.0	4	5.1	1.1	6.3	2.6

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

Table 3. Results of the 2013 wheat variety trial at Dixon Springs, in far southeastern Illinois.

Company	Variety	ST ¹	Yield			Height	2-yr avg	3-yr avg
			Yield bu/ac	Rank 1 to 71	Test wt. lb/bu		2012-13 bu/ac	2011-13 bu/ac
AgriMAXX	412	C	79.1	19	55.8	34.0	71.3	74.1
AgriMAXX	413	C	82.1	6	52.8	33.0	76.3	77.0
AgriMAXX	415	C	68.2	64	55.5	32.0	66.3	66.7
AgriMAXX	422	C	70.6	54	53.0	35.0		
AgriMAXX	447	C	73.3	45	52.5	35.0		
AgriMAXX	Exp 1327	C	77.4	26	55.8	36.0		
AgriMAXX	Exp 1335	C	84.1	1	53.1	33.0		
Beck's Hybrids	Beck 113	S	74.8	36	53.3	33.0	71.8	73.9
Beck's Hybrids	Beck 120	S	77.4	27	52.1	31.0	76.9	
Beck's Hybrids	Beck 129	S	80.2	15	52.3	35.0		
Beck's Hybrids	Beck 135	S	82.1	7	53.9	35.0	74.8	76.9
BioGene	BG 2W11	C	82.7	3	52.4	34.0		
BioTown Seeds	Diener 492W	C	80.2	14	52.9	33.0	73.6	74.5
BioTown Seeds	Diener 506W	C	69.5	58	51.3	35.0		
Direct Enterprises	Edge	G	68.9	62	54.1	34.0	63.5	
Direct Enterprises	Guardian	G	66.7	66	53.0	34.0		
Direct Enterprises	Quest	G	74.1	41	52.6	35.0	62.1	66.4
Direct Enterprises	Sienna	G	75.4	33	53.1	36.0	65.4	70.2
DuPont Pioneer	Pioneer 25R40	G	72.5	48	53.9	31.0	74.1	76.9
DuPont Pioneer	Pioneer 25R46	G	74.9	34	52.9	35.0		
DuPont Pioneer	Pioneer 25R62	G	80.7	13	52.3	32.0	73.1	74.9
DuPont Pioneer	Pioneer 25R77	G	82.5	5	55.0	33.0		
DuPont Pioneer	Pioneer 25R78	G	66.7	65	53.8	33.0	65.1	66.8
Dyna-Gro	9031	G	70.1	56	57.0	33.0	69.0	64.8
Dyna-Gro	9171	G	81.7	8	52.7	33.0	74.0	76.6
Dyna-Gro	9223	G	79.9	17	52.7	36.0	75.8	
Dyna-Gro	9373	C	77.7	25	52.7	35.0		
GROWMARK	FS 602	C	80.0	16	53.3	32.0	74.4	77.2
GROWMARK	FS 605	C	73.7	44	55.6	35.0	68.7	
GROWMARK	FS 622	C	69.4	60	55.1	32.0	67.9	69.0
GROWMARK	FS 625	C	76.6	28	52.7	34.0	70.8	
GROWMARK	FS 626	C	72.0	49	52.3	32.0		
GROWMARK	WX13A	C	73.7	43	53.0	35.0		
Hartke Seed	LCS - L228	C	56.1	70	57.1	33.0		
Hoffman Seed House	H-7171	C	74.6	37	56.2	36.0		
Hoffman Seed House	H-7180	C	76.2	31	57.4	35.0		
Hoffman Seed House	H7W11	C	74.1	42	55.4	34.0	65.5	
Hoffman Seed House	H7W14	C	82.6	4	52.9	33.0		
Hoffman Seed House	LCS L163	C	73.1	46	54.6	32.0		
Kitchen Seed Company	KSC 409W	F	66.0	68	56.9	34.0	65.8	65.5
Kitchen Seed Company	KSC 411W	C	78.9	20	52.9	32.0		
Kitchen Seed Company	KSC 412W	C	79.4	18	52.5	36.0		
Lewis Hybrids	Lewis 829	F	68.7	63	53.2	37.0	64.1	
Lewis Hybrids	Lewis 839	C	78.9	20	53.1	35.0		
Lewis Hybrids	Lewis 851	C	81.0	12	54.6	35.0		
Limagrain Cereal Seeds	LCS 34969	C	78.0	23	55.2	36.0		
Limagrain Cereal Seeds	LCS 38686	C	74.5	39	53.2	34.0		
Merschman	Barbie 9	C	71.1	52	54.9	35.0		
Merschman	Barbie VIII		77.8	24	51.5	29.0	71.4	
Merschman	Bintee 9	G	78.1	22	56.5	35.0		
Merschman	Julie VII		71.6	51	58.8	36.0	63.8	
Merschman	Katie 12	C	76.3	29	56.7	35.0		
Merschman	Millie 4	C	70.6	55	56.5	34.0		
Miller Bros. Seed and Fert.	LCS L171	C	76.2	30	55.7	35.0		
Pro Harvest	288	C	57.8	69	53.8	38.0		
Pro Harvest	311	C	76.1	32	51.8	32.0	71.4	
Pro Harvest	334	C	51.5	71	52.0	35.0		
Steyer Seeds	Dowell	F	81.1	11	51.4	34.0		
Steyer Seeds	Heilman	F	74.5	40	53.9	37.0	64.6	
Steyer Seeds	Hunker	F	74.8	35	52.8	36.0	66.5	
Sunstar Hybrids	S-1100	F	74.6	38	52.0	33.0	71.0	
Sunstar Hybrids	S-1200	F	81.5	10	52.7	33.0	71.2	74.7
Syngenta	SY 1526 Cruiser	C	69.0	61	53.0	35.0	61.6	64.2
Syngenta	SY 474	C	72.6	47	54.3	36.0		
Syngenta	SY 483	C	66.2	67	52.3	34.0		
Syngenta	W1104 Cruiser	C	70.0	57	52.1	34.0	69.1	74.1
UniSouth Genetics, Inc.	3251	C	83.2	2	54.3	36.0		
UniSouth Genetics, Inc.	3438	C	81.5	9	52.7	32.0		
UniSouth Genetics, Inc.	3555	C	70.7	53	53.4	32.0		
Virginia Crop Impr. Assoc.	Jamestown	F	69.4	59	57.2	32.0	63.3	63.8
Virginia Crop Impr. Assoc.	VA09W-73	F	71.9	50	53.2	34.0		
	Trial Mean		74.3		54.0	34	69.2	71.3
	LSD, 10%		7.0		1.1	2		
	CV, %		7.0		1.5	4		

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

Table 4. Results of the 2013 wheat variety trial at Belleville, in southwestern Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 71			2012-13 bu/ac	2011-13 bu/ac
AgriMAXX	412	C	84.4	35	58.3	40	82.0	78.8
AgriMAXX	413	C	88.5	14	53.5	35	85.9	83.1
AgriMAXX	415	C	93.2	2	58.3	37	87.6	83.9
AgriMAXX	422	C	84.6	33	56.3	39		
AgriMAXX	447	C	86.1	27	55.7	37		
AgriMAXX	Exp 1327	C	75.6	65	57.1	40		
AgriMAXX	Exp 1335	C	81.7	43	55.6	36		
Beck's Hybrids	Beck 113	S	82.8	41	56.0	36	81.3	79.8
Beck's Hybrids	Beck 120	S	90.2	8	53.9	36	87.0	
Beck's Hybrids	Beck 129	S	86.4	26	56.4	40		
Beck's Hybrids	Beck 135	S	90.1	9	56.1	38	90.7	88.6
BioGene	BG 2W11	C	87.6	21	55.6	36		
BioTown Seeds	Diener 492W	C	93.2	1	54.6	35	87.1	84.3
BioTown Seeds	Diener 506W	C	80.4	51	57.1	39		
Direct Enterprises	Edge	G	81.2	47	56.1	41	75.2	
Direct Enterprises	Guardian	G	81.6	45	57.4	37		
Direct Enterprises	Quest	G	64.5	71	54.3	35	65.2	65.1
Direct Enterprises	Sienna	G	69.4	69	55.3	39	67.8	70.4
DuPont Pioneer	Pioneer 25R40	G	80.3	52	55.5	35	82.2	82.2
DuPont Pioneer	Pioneer 25R46	G	77.1	61	57.0	35		
DuPont Pioneer	Pioneer 25R62	G	88.3	16	54.1	38	87.7	88.3
DuPont Pioneer	Pioneer 25R77	G	88.2	17	56.9	36		
DuPont Pioneer	Pioneer 25R78	G	78.6	57	56.4	36	82.0	81.3
Dyna-Gro	9031	G	80.0	54	58.3	39	80.9	80.1
Dyna-Gro	9171	G	84.2	36	54.2	34	84.3	82.0
Dyna-Gro	9223	G	87.6	20	56.3	40	86.0	
Dyna-Gro	9373	C	87.1	24	55.8	38		
GROWMARK	FS 602	C	89.8	10	54.2	35	84.8	82.4
GROWMARK	FS 605	C	87.8	19	58.1	40	82.9	
GROWMARK	FS 622	C	84.7	32	57.7	36	80.2	79.0
GROWMARK	FS 625	C	86.9	25	55.7	38	81.8	
GROWMARK	FS 626	C	80.9	48	53.7	36		
GROWMARK	WX13A	C	80.6	49	57.4	39		
Hartke Seed	LCS - L228	C	88.6	13	60.0	37		
Hoffman Seed House	H-7171	C	81.2	46	57.4	39		
Hoffman Seed House	H-7180	C	79.4	55	58.8	38		
Hoffman Seed House	H7W11	C	82.4	42	58.0	39	78.9	
Hoffman Seed House	H7W14	C	92.4	4	55.4	35		
Hoffman Seed House	LCS L163	C	77.5	60	57.9	38		
Kitchen Seed Company	KSC 409W	F	77.6	59	58.8	37	78.3	76.4
Kitchen Seed Company	KSC 411W	C	85.6	30	54.2	34		
Kitchen Seed Company	KSC 412W	C	84.5	34	56.4	39		
Lewis Hybrids	Lewis 829	F	83.8	37	55.6	44	80.9	
Lewis Hybrids	Lewis 839	C	87.3	23	55.4	38		
Lewis Hybrids	Lewis 851	C	80.4	50	57.3	37		
Limagrain Cereal Seeds	LCS 34969	C	83.3	39	56.6	39		
Limagrain Cereal Seeds	LCS 38686	C	76.3	64	56.1	35		
Merschman	Barbie 9	C	85.3	31	57.9	38		
Merschman	Barbie VIII		88.5	15	55.3	35	90.5	
Merschman	Bintee 9	G	85.8	29	57.7	38		
Merschman	Julie VII		76.6	63	58.5	39	75.5	
Merschman	Katie 12	C	87.9	18	59.4	38		
Merschman	Millie 4	C	80.0	53	58.9	36		
Miller Bros. Seed and Fert.	LCS L171	C	83.3	40	57.6	38		
Pro Harvest	288	C	83.6	38	55.9	42		
Pro Harvest	311	C	81.7	44	55.9	36	85.0	
Pro Harvest	334	C	90.2	7	56.3	37		
Steyer Seeds	Dowell	F	89.3	11	55.6	37		
Steyer Seeds	Heilman	F	76.8	62	55.7	41	72.9	
Steyer Seeds	Hunker	F	90.8	6	55.9	38	86.4	
Sunstar Hybrids	S-1100	F	77.8	58	55.5	37	84.1	
Sunstar Hybrids	S-1200	F	91.3	5	55.6	35	87.9	86.7
Syngenta	SY 1526	C	78.9	56	55.5	39	76.0	76.5
Syngenta	SY 474	C	88.8	12	57.3	39		
Syngenta	SY 483	C	67.2	70	53.7	37		
Syngenta	W1104	C	70.5	68	53.6	37	81.6	79.7
UniSouth Genetics, Inc.	3251	C	92.7	3	56.4	39		
UniSouth Genetics, Inc.	3438	C	85.9	28	53.9	35		
UniSouth Genetics, Inc.	3555	C	87.5	22	56.6	35		
Virginia Crop Impr. Assoc.	Jamestown	F	75.5	66	58.5	35	74.1	74.9
Virginia Crop Impr. Assoc.	VA09W-73	F	71.4	67	57.4	38		
	Trial Mean		83.1		56.4	37	81.6	80.1
	LSD, 10%		7.8		1.0	2		
	CV, %		7.0		1.3	5		

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

Table 5. Results of the 2013 wheat variety trial at Brownstown, in south central Illinois.

Company	Variety	ST ¹	Yield				2-yr avg	3-yr avg
			Yield bu/ac	Rank 1 to 71	Test wt. lb/bu	Height in.	2012-13 bu/ac	2011-13 bu/ac
AgriMAXX	412	C	62.9	47	56.7	34	77.2	76.4
AgriMAXX	413	C	69.9	18	52.2	32	85.8	86.5
AgriMAXX	415	C	65.2	36	56.6	34	73.2	75.7
AgriMAXX	422	C	62.7	49	54.2	35		
AgriMAXX	447	C	64.7	38	53.6	35		
AgriMAXX	Exp 1327	C	59.5	58	56.4	35		
AgriMAXX	Exp 1335	C	66.3	30	53.8	33		
Beck's Hybrids	Beck 113	S	66.3	28	54.2	34	85.1	84.1
Beck's Hybrids	Beck 120	S	71.4	14	52.4	34	84.9	
Beck's Hybrids	Beck 129	S	72.2	10	54.9	37		
Beck's Hybrids	Beck 135	S	73.1	7	55.2	36	84.2	82.9
BioGene	BG 2W11	C	69.0	20	54.5	33		
BioTown Seeds	Diener 492W	C	75.8	1	53.5	34	85.6	86.5
BioTown Seeds	Diener 506W	C	63.5	42	53.3	35		
Direct Enterprises	Edge	G	56.9	65	55.7	36	69.4	
Direct Enterprises	Guardian	G	66.7	27	56.0	35		
Direct Enterprises	Quest	G	59.4	59	53.1	34	69.7	71.3
Direct Enterprises	Sienna	G	58.6	62	55.4	35	70.3	73.5
DuPont Pioneer	Pioneer 25R40	G	65.8	33	55.5	32	79.3	78.0
DuPont Pioneer	Pioneer 25R46	G	73.7	3	56.4	34		
DuPont Pioneer	Pioneer 25R62	G	72.5	9	53.5	36	90.8	89.3
DuPont Pioneer	Pioneer 25R77	G	73.5	5	55.8	33		
DuPont Pioneer	Pioneer 25R78	G	60.1	55	54.1	35	76.7	77.5
Dyna-Gro	9031	G	59.2	60	57.5	35	71.2	73.8
Dyna-Gro	9171	G	71.4	13	52.6	33	86.7	86.3
Dyna-Gro	9223	G	66.7	26	54.7	35	84.1	
Dyna-Gro	9373	C	64.3	40	53.6	35		
GROWMARK	FS 602	C	72.0	11	52.4	34	83.0	85.0
GROWMARK	FS 605	C	63.3	43	57.0	36	73.3	
GROWMARK	FS 622	C	64.8	37	56.8	32	73.0	74.2
GROWMARK	FS 625	C	64.0	41	54.3	34	76.8	
GROWMARK	FS 626	C	74.8	2	53.8	35		
GROWMARK	WX13A	C	55.0	69	55.3	36		
Hartke Seed	LCS - L228	C	71.5	12	60.1	35		
Hoffman Seed House	H-7171	C	67.3	25	56.4	36		
Hoffman Seed House	H-7180	C	56.3	66	57.4	36		
Hoffman Seed House	H7W11	C	60.4	54	56.5	34	71.2	
Hoffman Seed House	H7W14	C	71.2	15	53.6	32		
Hoffman Seed House	LCS L163	C	54.1	70	55.5	32		
Kitchen Seed Company	KSC 409W	F	62.5	50	57.4	36	71.8	74.4
Kitchen Seed Company	KSC 411W	C	70.1	17	52.4	33		
Kitchen Seed Company	KSC 412W	C	66.3	28	55.2	37		
Lewis Hybrids	Lewis 829	F	59.7	57	55.1	37	76.7	
Lewis Hybrids	Lewis 839	C	63.0	46	53.8	35		
Lewis Hybrids	Lewis 851	C	61.3	52	56.3	35		
Limagrain Cereal Seeds	LCS 34969	C	62.7	48	55.5	36		
Limagrain Cereal Seeds	LCS 38686	C	63.2	44	55.0	35		
Merschman	Barbie 9	C	55.5	67	56.3	36		
Merschman	Barbie VIII		65.9	32	52.0	31	83.6	
Merschman	Bintee 9	G	58.7	61	56.2	37		
Merschman	Julie VII		67.6	24	58.8	38	73.3	
Merschman	Katie 12	C	63.0	45	57.0	35		
Merschman	Millie 4	C	55.4	68	55.5	33		
Miller Bros. Seed and Fert.	LCS L171	C	67.8	22	56.4	35		
Pro Harvest	288	C	59.7	56	55.9	36		
Pro Harvest	311	C	61.3	53	53.8	35	78.4	
Pro Harvest	334	C	72.7	8	55.0	37		
Steyer Seeds	Dowell	F	67.7	23	54.4	33		
Steyer Seeds	Heilman	F	65.8	34	55.8	37	80.0	
Steyer Seeds	Hunker	F	73.6	4	55.6	37	83.1	
Sunstar Hybrids	S-1100	F	65.3	35	54.5	35	84.5	
Sunstar Hybrids	S-1200	F	73.4	6	52.9	33	86.3	86.4
Syngenta	SY 1526	C	64.3	39	55.5	34	78.9	77.8
Syngenta	SY 474	C	57.7	63	56.6	37		
Syngenta	SY 483	C	57.4	64	52.2	34		
Syngenta	W1104	C	69.4	19	53.7	34	86.5	80.6
UniSouth Genetics, Inc.	3251	C	68.4	21	55.4	35		
UniSouth Genetics, Inc.	3438	C	70.1	16	52.6	34		
UniSouth Genetics, Inc.	3555	C	66.0	31	55.0	32		
Virginia Crop Impr. Assoc.	Jamestown	F	50.6	71	55.2	33	64.8	67.3
Virginia Crop Impr. Assoc.	VA09W-73	F	62.0	51	56.2	35		
	Trial Mean		64.7		55.2	35	78.8	79.4
	LSD, 10%		6.2		0.7	2		
	CV, %		7.0		0.9	3		

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 2013 wheat variety trial at Perry, in western Illinois.

<u>Company</u>	<u>Variety</u>	<u>ST</u> ¹	<u>Yield</u>				<u>2-yr avg</u>	<u>3-yr avg</u>
			<u>Yield</u> bu/ac	<u>Rank</u> 1 to 59	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2012-13</u> bu/ac	<u>2011-13</u> bu/ac
AgriMAXX	413	C	80.1	24	55.2	35	88.8	
AgriMAXX	427	C	78.1	34	55.0	37		
AgriMAXX	434	C	89.8	2	57.1	34		
AgriMAXX	438	C	79.3	27	55.0	39		
AgriMAXX	447	C	81.2	17	54.7	38		
Beck's Hybrids	Beck 113	S	79.1	29	58.7	36	90.2	88.0
Beck's Hybrids	Beck 120	S	81.6	14	55.9	34	93.2	
Beck's Hybrids	Beck 129	S	82.3	11	56.1	39		
Beck's Hybrids	Beck 135	S	85.8	6	56.0	40	100.1	95.0
BioTown Seeds	Diener 492W	C	77.5	40	55.7	36	88.1	82.2
BioTown Seeds	Diener 512W	C	80.3	22	55.3	39		
DeRaedt Seed	DeRaedt 11	C	73.1	52	55.0	35	90.3	84.6
DeRaedt Seed	DeRaedt 9	C	75.0	46	54.3	40		
Direct Enterprises	Guardian	G	74.8	47	56.2	39		
Direct Enterprises	Quest	G	74.2	48	57.6	40	86.1	78.9
Direct Enterprises	Sienna	G	75.6	42	56.6	42	91.1	88.1
DuPont Pioneer	Pioneer 25R34	G	84.4	7	56.1	37	93.6	88.1
DuPont Pioneer	Pioneer 25R39	G	72.5	53	56.2	37	91.4	84.9
DuPont Pioneer	Pioneer 25R40	G	89.8	3	57.4	34	101.5	94.1
DuPont Pioneer	Pioneer 25R46	G	79.8	25	56.6	38		
DuPont Pioneer	Pioneer 25R77	G	81.5	15	59.2	36		
Dyna-Gro	9171	G	75.6	43	55.2	34	90.7	
Dyna-Gro	9223	G	80.5	21	55.7	40	93.9	
Green Valley Seed	GV 653	C	78.2	33	55.4	38		
Green Valley Seed	GV 662	C	77.9	38	59.0	36	86.1	81.6
GROWMARK	FS 602	C	78.0	37	55.5	34	90.7	
GROWMARK	FS 622	C	82.5	10	59.1	37	88.9	83.6
GROWMARK	FS 625	C	80.5	20	55.1	37	91.3	
GROWMARK	FS 626	C	77.7	39	55.6	35		
GROWMARK	WX13A	C	71.5	54	55.4	39		
Kitchen Seed Company	KSC 409W	F	76.3	41	60.4	37	85.1	79.5
Kitchen Seed Company	KSC 411W	C	75.2	44	55.1	35		
Kitchen Seed Company	KSC 412W	C	79.6	26	53.7	39		
Lewis Hybrids	Lewis 829	F	70.7	56	56.3	42	87.3	
Lewis Hybrids	Lewis 839	C	80.2	23	54.7	38		
Lewis Hybrids	Lewis 851	C	68.8	58	54.4	39		
Martin Seeds, Inc.	M13W	C	86.4	5	56.5	36		
Martin Seeds, Inc.	Skysail	C	83.4	9	59.7	40		
Merschman	Barbie 9	C	79.2	28	59.1	39		
Merschman	Barbie VIII		78.1	35	54.5	34	93.1	
Merschman	Bintee 9	G	75.2	45	61.9	41		
Merschman	Julie VII		71.3	55	61.2	37	78.0	
Merschman	Katie 12	C	82.2	12	60.0	39		
Merschman	Millie 4	C	78.6	32	60.2	37		
Pro Harvest	288	C	81.0	18	57.3	42		
Pro Harvest	311	C	78.8	31	55.5	36	90.9	
Pro Harvest	334	C	81.3	16	55.6	40		
Pro Seed Genetics	PRO 240	M	90.2	1	59.1	44	95.7	86.5
Pro Seed Genetics	PRO 260	M	73.6	49	57.8	37	87.4	85.6
Pro Seed Genetics	PRO 320A	M	88.2	4	58.6	43	95.8	89.6
Steyer Seeds	Dowell	F	81.7	13	56.1	37		
Steyer Seeds	Heilman	F	73.3	51	57.3	44	89.6	
Steyer Seeds	Hunker	F	80.7	19	55.0	39		
Sunstar Hybrids	S-1100	F	78.1	36	56.1	37	95.7	
Sunstar Hybrids	S-1200	F	79.0	30	56.2	35	95.9	89.6
Syngenta	SY 007	C	73.4	50	58.5	39		
Syngenta	SY 474	C	69.6	57	56.9	38		
Syngenta	SY 483	C	64.7	59	53.1	39	87.7	
Syngenta	W1104	C	83.6	8	55.2	36	97.7	94.0
	Trial Mean		78.3		56.9	38	91.1	86.2
	LSD, 10%		5.4		0.9	2		
	CV, %		5.1		1.1	3		

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

2012 Results

Table 7. Results of the 2012 wheat variety trial at Urbana, in east central Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 70			2011-12 bu/ac	2010-12 bu/ac
AgriMAXX	413	C	88.1	25	60.0	35		
AgriMAXX	Exp 1215	C	79.0	51	59.6	37		
Agrinetics	EXCEL 180	N	62.0	67	59.1	38	76.8	81.6
Agrinetics	EXCEL 442	F	92.2	15	61.9	42	86.6	88.2
Beck's Hybrids	Beck 113	S	87.8	27	62.6	37	91.0	93.1
Beck's Hybrids	Beck 120	S	89.3	22	59.7	34		
Beck's Hybrids	Beck 126	S	93.3	11	61.8	42	96.2	
Beck's Hybrids	Beck 135	S	102.5	2	60.7	39	101.5	99.9
BioTown Seeds	Diener 492W	F	85.8	33	59.5	35	89.3	
BioTown Seeds	Diener 506	F	82.9	43	59.7	40		
Cappel Certified Seed	EXCEL 242	N	81.6	44	61.0	39	88.2	89.3
Cappel Certified Seed	EXCEL 350	N	80.2	49	61.4	37		
DeRaedt Seed	DeRaedt 11	C	90.3	19	59.4	34	91.5	
DeRaedt Seed	DeRaedt 15	C	77.7	54	60.9	37		
Direct Enterprises	Edge	M	75.0	57	61.3	38		
Direct Enterprises	Quest	M	73.0	58	59.6	37	79.9	82.5
Direct Enterprises	Sienna	M	86.5	31	61.6	41	92.5	91.9
Dyna-Gro	9171	G	90.4	18	59.9	35		
Dyna-Gro	9223	G	92.9	13	60.7	38		
Excel Brands	EXCEL 166	N	68.9	62	62.1	41	77.1	
Excel Brands	EXCEL 168	C	65.2	64	61.8	40	76.1	
Excel Brands	EXCEL 337	N	72.7	59	61.2	35		
Excel Brands	EXCEL 362	N	88.7	23	61.7	37		
Green Valley Seed	GV 622	C	63.4	66	60.5	37		
Green Valley Seed	GV 662	C	79.9	50	62.1	35	84.5	
GROWMARK	FS 602	C	88.3	24	60.0	34		
GROWMARK	FS 610	C	61.0	68	62.2	38	75.5	81.8
GROWMARK	FS 622	C	85.5	34	62.1	36	90.4	
GROWMARK	FS 625	C	84.0	38	59.4	37		
GROWMARK	FS 630	C	83.9	41	61.4	43	84.8	87.8
Kitchen Seed Company	KSC 408W	F	86.7	30	61.3	40	85.7	
Kitchen Seed Company	KSC 409W	F	56.4	70	62.4	40	70.5	78.1
Kitchen Seed Company	KSC 410W	F	81.2	45	62.5	39	81.7	87.5
Lewis Hybrids	Lewis 829		93.4	10	61.4	41		
Lewis Hybrids	Lewis 842		69.2	61	60.9	37	83.0	
Merschman	Barbie VIII	G	96.5	4	61.0	34		
Merschman	Bintee VIII	G	60.7	69	60.9	38		
Merschman	Genie X	G	89.8	20	62.4	37		
Merschman	Julie VII	C	77.7	53	63.0	41		
Merschman	Katie XI	G	87.4	28	62.2	40		
Monier Seed	MW 844	C	75.6	55	62.5	42		
Monier Seed	MW 859	C	95.2	6	62.0	43	92.0	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R34	G	96.5	5	60.8	38	93.8	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	G	92.5	14	61.6	38	93.3	91.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R40	G	93.1	12	61.8	34	92.5	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	G	93.8	9	59.8	37	92.9	95.0
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	G	105.5	1	59.7	36	102.3	98.7
Pro Harvest	311	C	84.0	39	59.6	36		
Pro Seed Genetics	PRO 200		84.0	40	63.0	38	86.2	88.2
Pro Seed Genetics	PRO 240		84.3	35	61.0	42	88.0	88.3
Pro Seed Genetics	PRO 260		67.9	63	60.4	37	77.5	
Pro Seed Genetics	PRO 320A		95.1	7	61.9	44	92.8	93.0
Steyer Seeds	Heilman	F	84.2	36	61.7	40		
Steyer Seeds	Kidwell	F	90.5	17	60.0	34	92.2	
Sunstar Hybrids	S-1000	F	80.2	48	61.2	38		
Sunstar Hybrids	S-1100	F	86.2	32	59.1	37		
Sunstar Hybrids	S-1200	F	89.4	21	59.4	34	91.2	93.9
Sunstar Hybrids	S-950	F	83.5	42	61.1	37		
Synergy Seeds	EXCEL 234	N	80.3	47	62.3	42		
Synergy Seeds	EXCEL 442	N	91.1	16	61.5	41	94.1	93.2
Syngenta	OAKES	F	64.4	65	62.8	36	75.3	
Syngenta	OAKES Cruiser	C	71.3	60	62.6	38	80.2	
Syngenta	SY 1526	F	75.6	56	61.3	39	82.0	
Syngenta	SY 1526 Cruiser	C	78.0	52	61.4	39	86.6	
Syngenta	SY 483	C	86.8	29	60.2	38		
Syngenta	W1104	F	94.3	8	60.5	38	94.8	94.6
Syngenta	W1104 Cruiser	C	102.2	3	60.7	37	102.9	
Syngenta	W1377	F	84.2	37	63.2	40		
Syngenta	W1377 Cruiser	C	81.1	46	62.7	39		
Westbred	WB-700	F	88.0	26	61.0	40		
	Trial Mean		78.0		57.5	36	87.1	89.2
	LSD, 10%		6.6		0.6	2		
	CV, %		5.8		0.8	4		

Averaged over four entries compared at Urbana, seed treatment insecticide (Cruiser) increased yield by 3.5 bushels/acre.

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

Table 8. Results of the 2013 wheat variety trial at DeKalb, in north central Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 59			2012-13 bu/ac	2011-13 bu/ac
AgriMAXX	413	C	76.7	15	57.5	29	80.9	
AgriMAXX	427	C	69.5	44	55.7	32		
AgriMAXX	434	C	70.1	43	56.6	30		
AgriMAXX	438	C	72.3	33	56.0	34		
AgriMAXX	447	C	79.4	6	56.7	32		
Beck's Hybrids	Beck 113	S	70.6	40	56.7	31	84.5	88.5
Beck's Hybrids	Beck 120	S	76.1	17	57.9	30	84.3	
Beck's Hybrids	Beck 129	S	74.9	21	56.1	34		
Beck's Hybrids	Beck 135	S	77.5	10	58.2	32	91.5	90.5
BioTown Seeds	Diener 492W	C	80.8	5	58.0	32	83.7	84.7
BioTown Seeds	Diener 512W	C	73.3	31	55.4	34		
DeRaedt Seed	DeRaedt 11	C	80.9	3	56.9	30	85.6	84.8
DeRaedt Seed	DeRaedt 9	C	81.1	2	58.0	33		
Direct Enterprises	Guardian	G	63.4	55	54.6	34		
Direct Enterprises	Quest	G	72.2	34	58.1	33	79.2	81.0
Direct Enterprises	Sienna	G	70.1	42	55.6	36	77.4	84.3
DuPont Pioneer	Pioneer 25R34	G	75.8	18	56.4	33	86.0	86.7
DuPont Pioneer	Pioneer 25R39	G	80.8	4	56.8	32	87.4	92.5
DuPont Pioneer	Pioneer 25R40	G	75.4	19	58.7	30	89.0	90.6
DuPont Pioneer	Pioneer 25R46	G	60.9	58	56.6	30		
DuPont Pioneer	Pioneer 25R77	G	76.4	16	59.7	31		
Dyna-Gro	9171	G	74.5	23	57.9	31	83.1	
Dyna-Gro	9223	G	75.3	20	55.8	34	83.9	
Green Valley Seed	GV 653	C	71.4	38	56.2	34		
Green Valley Seed	GV 662	C	65.8	50	59.8	30	75.2	79.9
GROWMARK	FS 602	C	73.9	27	57.3	30	81.8	
GROWMARK	FS 622	C	74.1	26	58.3	31	83.2	85.0
GROWMARK	FS 625	C	76.8	13	56.2	33	81.0	
GROWMARK	FS 626	C	58.5	59	56.4	31		
GROWMARK	WX13A	C	68.7	47	56.1	33		
Kitchen Seed Company	KSC 409W	F	66.0	49	59.0	33	69.8	74.6
Kitchen Seed Company	KSC 411W	C	74.7	22	58.5	30		
Kitchen Seed Company	KSC 412W	C	74.3	25	55.2	33		
Lewis Hybrids	Lewis 829	F	71.5	37	55.4	36	80.4	
Lewis Hybrids	Lewis 839	C	73.6	30	56.6	32		
Lewis Hybrids	Lewis 851	C	63.6	54	55.3	33		
Martin Seeds, Inc.	M13W	C	82.6	1	56.8	33		
Martin Seeds, Inc.	Skysail	C	79.4	7	59.8	34		
Merschman	Barbie 9	C	73.8	28	57.2	34		
Merschman	Barbie VIII		76.8	12	57.8	29	86.7	
Merschman	Bintee 9	G	69.4	45	61.2	31		
Merschman	Julie VII		65.7	51	62.1	33	69.4	
Merschman	Katie 12	C	70.7	39	59.5	32		
Merschman	Millie 4	C	69.0	46	60.9	32		
Pro Harvest	288	C	74.4	24	56.9	35		
Pro Harvest	311	C	62.2	56	54.7	32	76.6	
Pro Harvest	334	C	70.5	41	54.0	34		
Pro Seed Genetics	PRO 240	M	76.9	11	56.6	36	82.7	84.0
Pro Seed Genetics	PRO 260	M	68.2	48	56.7	31	79.3	87.5
Pro Seed Genetics	PRO 320A	M	76.7	14	60.1	37	86.2	88.2
Steyer Seeds	Dowell	F	77.9	9	55.9	33		
Steyer Seeds	Heilman	F	79.3	8	55.8	36	82.5	
Steyer Seeds	Hunker	F	71.8	35	54.3	34		
Sunstar Hybrids	S-1100	F	62.2	57	55.0	31	75.0	
Sunstar Hybrids	S-1200	F	71.8	36	57.1	30	76.7	79.8
Syngenta	SY 007	C	73.8	29	56.5	34		
Syngenta	SY 474	C	72.7	32	56.6	34		
Syngenta	SY 483	C	64.6	52	55.9	31	79.8	
Syngenta	W1104	C	64.4	53	55.7	31	81.9	87.2
	Trial Mean		72.5		57.3	32	81.5	84.5
	LSD, 10%		6.1		2.0	2		
	CV, %		6.3		2.6	4		

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

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>Septoria</u>
AgriMAXX	412	V	E	S	E	M	E	I	MR	MR
	413	V	E	B	E	MS	E	I	MR	MR
	415	V	M	B	E	M	E	I	MR	MR
	422	V	E	B	E	M	E	I	MR	MR
	427	V	ML	S	E	M	E	I	MS	MR
	438	V	ML	S	E	M	E	I	MS	MR
	434	V	M	B	E	M	E	I	MR	MR
	447	V	M	S	E	MT	E	I	MR	MR
	EXP 1327	V	VE	S	E	MT	E	I	MR	MR
	EXP 1335	V	M	B	E	M	E	I		
Beck's Hybrids	113	V	ME	S	E	M	E	MR	I	I
	120	V	ME	B	E	S	E	MR	MR	I
	129	V	M	S	E	M	VG	MR	MR	MR
	135	V	M	B	E	M	VG	MR	MR	MR
BioGene Seeds	BG 2W11	V	M	B	VG	M	VG	MR	VG	
BioTown Seeds	Diener 492W	V	ME	B	VG	S	E	G	VG	VG
	Diener 506W	V	ML	S	VG	M	G	G	G	G
	Diener 512W	V	L	S	VG	T	VG	G	VG	VG
DeRaedt Seed	9	V	ML	S	E	MS	E		I	MR
	11	V	ME	B	E	MS	E		I	MR
Direct Enterprises	Sienna	V	ME	S	E	MT	E		R	MS
	Quest	V	ME	S	E	M	E		R	MR
	Edge	V	E	S	E	M	E	S	R	MS
	Guardian	V	M	S	E	MT	E		MR	R
DuPont Pioneer	PIONEER 25R34	V	ML	B	E	M	VG	R	I	MR
	PIONEER 25R39	V	ML	S	VG	M	G	S	I	MR
	PIONEER 25R40	V	ML	B	G	S	E	S	MR	MR
	PIONEER 25R46	V	ML	B	E	S	E	S	I	I
	PIONEER 25R62	V	E	B	VG	S	E	S	S	MS
	PIONEER 25R77	V	E	B	VG	S	VG	R	S	MS
PIONEER 25R78	V	ME	B	G	S	E	MR	R	MS	
Dyna-Gro Seed	9031	V	E	S	G	M	G	S	MS	MS
	9171	V	ME	B	VG	S	E	S	MR	MS
	9223	V	ML	S	VG	MT	VG	S	MS	MR
	9373	V	ML	S	E	MT	E	S	MR	MS
Green Valley Seed	GV 653	V	M	S	E	M	E	S	R	R
	GV 662	V	M	B	E	M	E	MS	R	R
Growmark	FS 602	V	ME	B	E	S	E	S	MR	MR
	FS 605	V	E	S	E	M	E	S	MR	R
	FS 622	V	M	B	E	M	E	S	MR	MR
	FS 625	V	M	S	E	M	VG	S	MS	I
	FS 626	V	ML	B	VG	M	E	S	MR	MR
	WX13A	V	L	S	VG	M	E	S	MR	MR
Hartke Seed Farms	LCS - L228	V	ME	S	VG	S	E	I	R	MR
Hoffman Seed House	H-7171	V	ME	S	E	M	VG	I	MR	I
	H-7180	V	E	S	E	M	VG	I	MR	MS
	H7W11	V	E	S	VG	M	VG	I	I	MR
	H7W14	V	M	B	VG	M	E	I	MR	I
	LCS L163	V	E	S	E	M	VG	I	I	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>Stand-ability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Sept-oria</u>
Kitchen Seed Company	KSC 409W	V	M	S	E	M	G	I	MR	MR
	KSC 411W	V	MS	B	E	M	E	I	MR	MR
	KSC 412W	V	ML	S	E	M	E	I	MR	MR
Lewis Hybrids	829	V	ME	S	E	M	E	MS	MR	I
	839	V	M	S	E	M	E	S	MR	MR
	851	V	ML	S	E	MT	E	S	E	MR
Limagrain Cereal Seeds	LCS 34969	V	ML	S	VG	M	VG	I	MR	I
	LCS 38686	V	M	S	VG	M	VG	I	MS	MR
Martin Seeds	M13W	V	ME	B	VG	M	VG	I	R	MR
	Skysail	V	ML	B	G	M	G	I	R	
Merschman Seeds, Inc.	Barbie 9	V	ME	S	VG	M	VG	S	MS	R
	Barbie VIII	V	ML	B	VG	M	VG	S	I	R
	Bintee 9	V	E	S	E	M	VG	S	MS	R
	Julie VII	V	E	S	VG	M	VG	S	R	R
	Katie 12	V	ME	S	VG	M	VG	S	R	I
	Millie 4	V	E	S	E	M	VG	S	MS	R
Miller Bros. Seed & Fertilizer	LCS L171	V	E	S	E	M	VG	I	MR	MR
Pro Harvest Seeds Inc.	Pro Harvest 288	V	ME	S	E	M	E		R	R
	Pro Harvest 311	V	ME	S	E	M	E		MR	MR
	Pro Harvest 334	V	ME	S	E	MT	E		MR	MR
Pro Seed Genetics	PRO 240	V	E	S	G	M	VG		MR	MR
	PRO 260	V		S						
	PRO 320A	V		B	G	M	VG		MR	MR
Steyer Seeds	Dowell	V	M	S	VG	M	VG	MS	MR	MS
	Heilman	V	ME	S	E	MT	E	MS	MR	MR
	Hunker	V	ML	S	VG	M	VG	MS	MS	MR
Sunstar Hybrids	S-1100	V	M	S	VG	M	VG		R	R
	S-1200	V	ME	B	VG	M	E		MR	R
Syngenta	SY 1526	V	ME	S	VG	MT	VG		MR	I
	SY 007	V	ME	B	G	MT	VG		MS	MS
	SY 474	V	ME	S	VG	MT	E		MR	MR
	SY 483	V	ME	S	G	MT	VG		MS	MS
	W1104	V	ME	S	G	MT	G		MS	MR
UniSouth Genetics	3555	V	E	T	F	S	E	R	MR	S
	3438	V	ME	B	VG	MS	E	S	MR	MR
	3251	V	ML	B	VG	MS	E	S	MR	MR
Virginia Tech	Jamestown	V	ME	B	VG	S	VG	R	MR	
	VA09W-73	V	ML	T		S			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)

Winterhardiness 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

2013 Fusarium head scab evaluation of variety test entries at Urbana.
Varieties with greater head scab resistance have lower rating or index numbers.

Company	Entry Name	Scab Resistance Rating	Company	Entry Name	Scab Resistance Rating
AgriMAXX	AgriMAXX 412	5.7	Limagrain Cereal Seeds	LCS 34969	5.8
AgriMAXX	AgriMAXX 413	4.7	Limagrain Cereal Seeds	LCS 38686	5.8
AgriMAXX	AgriMAXX 415	5.3	Limagrain Cereal Seeds	LCS L171	4.7
AgriMAXX	AgriMAXX 422	4.4	Limagrain Cereal Seeds	LCS L228	5.2
AgriMAXX	AgriMAXX 427	5.0	Lewis Hybrids	Lewis 829	4.7
AgriMAXX	AgriMAXX 434	5.5	Lewis Hybrids	Lewis 839	5.5
AgriMAXX	AgriMAXX 438	4.9	Lewis Hybrids	Lewis 851	5.2
AgriMAXX	AgriMAXX 447	5.1	Martin Seeds, Inc.	M13W	5.3
AgriMAXX	Exp 1327	5.1	Martin Seeds, Inc.	Skysail	4.7
AgriMAXX	Exp 1335	4.7	Merschman	Barbie 9	4.8
Beck's Hybrids	Beck 113	5.1	Merschman	Barbie VIII	5.3
Beck's Hybrids	Beck 120	5.4	Merschman	Bintee 9	4.0
Beck's Hybrids	Beck 129	4.6	Merschman	Julie VII	4.5
Beck's Hybrids	Beck 135	5.1	Merschman	Katie 12	4.4
BioGene	BG 2W11	4.7	Merschman	Millie 4	5.4
BioTown Seeds	Diener 492W	5.3	Pro Harvest	Pro 288	5.4
BioTown Seeds	Diener 506	5.0	Pro Harvest	Pro 311	4.8
BioTown Seeds	Diener 512W	4.5	Pro Harvest	Pro 334	5.5
DeRaedt Seed	DeRaedt 9	5.6	Pro Seed Genetics	PRO 240	6.1
DeRaedt Seed	DeRaedt 11	5.6	Pro Seed Genetics	PRO 320A	4.8
Direct Enterprises	Edge	4.6	Pro Seed Genetics	PRO 260	5.7
Direct Enterprises	Guardian	5.1	Steyer Seeds	Dowell	5.4
Direct Enterprises	Sienna	4.3	Steyer Seeds	Heilman	4.6
Direct Enterprises	Quest	5.1	Steyer Seeds	Hunker	5.0
Dupont Pioneer	Pioneer 25R34	5.6	Sunstar Hybrids	S-1100	5.5
Dupont Pioneer	Pioneer 25R39	5.3	Sunstar Hybrids	S-1200	5.0
Dupont Pioneer	Pioneer 25R40	5.0	Syngenta	SY 007	5.3
Dupont Pioneer	Pioneer 25R46	5.3	Syngenta	SY 474	5.2
Dupont Pioneer	Pioneer 25R47	5.2	Syngenta	SY 483	5.4
Dupont Pioneer	Pioneer 25R62	5.8	Syngenta	SY 1526	4.4
Dupont Pioneer	Pioneer 25R77	5.9	Syngenta	W1104	4.4
Dupont Pioneer	Pioneer 25R78	5.7	Virginia Tech	Jamestown	5.4
Dyna-Gro	Dyna-Gro 9031	4.5	Virginia Tech	VA09W-73	4.4
Dyna-Gro	Dyna-Gro 9171	4.8			
Dyna-Gro	Dyna-Gro 9223	5.4	Mod. Resistant Check	Ernie	4.7
Dyna-Gro	Dyna-Gro 9373	5.2	Resistant Check	IL02-18228	3.9
Green Valley Seed	GV 653	5.1			
Green Valley Seed	GV 662	5.5			
GROWMARK	FS 602	6.0			
GROWMARK	FS 605	4.5			
GROWMARK	FS 622	5.7			
GROWMARK	FS 625	4.5			
GROWMARK	FS 626	4.7			
GROWMARK	WX13A	4.4			
Hoffman Seed House	H-7171	3.8			
Hoffman Seed House	H-7180	4.3			
Hoffman Seed House	H7W11	5.4			
Hoffman Seed House	H7W14	5.0			
Hoffman Seed House	LCS L163	3.5			
Kitchen Seed Company	KSC 409W	4.9			
Kitchen Seed Company	KSC 411W	5.4			
Kitchen Seed Company	KSC 412W	4.9			

Lower numbers = greater resistance. Rating are based on data collectd in a misted, incolulated nursery.