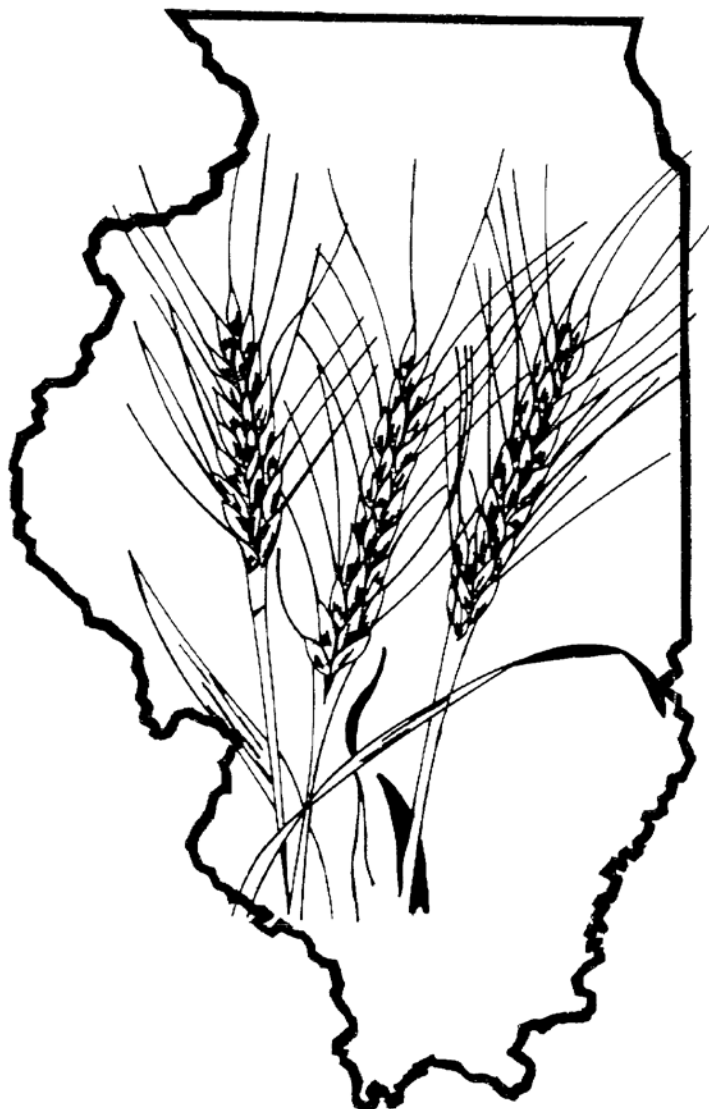


WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2009



**Crop Sciences Special Report 2009-01
Department of Crop Sciences
University of Illinois
July 2009**

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Emerson D. Nafziger, Darin K. Joos, Ralph W. Esgar, and Brian R. Henry
Department of Crop Sciences, University of Illinois, Urbana

The 2009 wheat season in Illinois will go down in the books as a rather average one, with the July yield estimate from NASS at 59 bushels per acre. Yields in northern Illinois averaged about 70, while in central Illinois yields ranged widely, from only 46 in the west to 83 in the east. Yields were consistent across southern Illinois, averaging in the mid- to upper 50s among the four southern crop reporting districts.

The low yields in western Illinois were somewhat surprising, but acreage was down by nearly half there, and it's likely that much of the problem was related to late planting and planting into wet soils. The response of wheat to late planting varies a lot among years, and the penalty in 2008-09 was larger than it is in many years. Planting into wet soils didn't help. The winter and early spring conditions were not too stressful, though late-planted wheat needed more recovery time and tillering than the spring provided. Wet weather in the spring contributed to N loss and to problems with disease, especially Fusarium head blight, or scab.

With constant rainfall during the flowering period, application of fungicides for scab control was either not feasible or was not particularly effective. Many fields showed high levels of head blight early, and in many of those fields, kernels were very light, and many such kernels were likely blown out of the combine. This helped to improve quality, but couldn't cure all problems. At least some of the low test weight came, as it often does, from the crop's having gotten rainfall after maturity, with kernels swelling as they took on moisture and then drying again, but with lower density. It was not as wet when the wheat flowered and matured in central and northern Illinois, so quality there was much better.

The story in southern Illinois was more focused on grain quality than on yields, though these were related. Yields were not particularly high in many fields, but they were better than in some poor wheat years in the past. Test weights were as low as we have seen, and dockage due to low test weights was common. Some elevators tested for vomitoxin (DON) that is produced in grain by Fusarium, and docked according to DON level.

The wheat variety trial at Brownstown was one of the casualties of the wet weather in spring 2009. This trial was in a field with some drainage problems, and while yields were not terrible, there was a great deal of variability in the study that was not related to variety. So while we report the Brownstown results as a single location here, we did not include these results in the southern regional average. Because some varieties in such cases are "lucky" and some are "unlucky" it pays to look at other locations in addition to this one when choosing varieties.

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 (Gaucho or Cruiser), with the insecticide identified in the name. We also treated seed of several varieties with insecticide at each location as a test of yield response to this input.

<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. 17	30 Fall 125 Spring	June 23
Belleville	Ron Krausz	Ebbert silt loam	Oct. 16	30 Fall 80 Spring	June 23
Brownstown	Lindell Deal	Cisne silt loam	Oct. 10	30 Fall 70 Spring	June 24
Orr Center	Mike Vose	Clarksdale silt loam	Oct. 1	40 Fall 60 Spring	June 30
Urbana	Bob Dunker Mike Kleiss	Flanagan silt loam	Oct. 3	40 Fall 40 Spring	June 27
DeKalb	Lyle Paul Dave Lindgren	Drummer silty clay loam	Oct. 2	30 Fall 40 Spring	July 14

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.

Participating Companies

We thank these companies for their support of this program in 2009.

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

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

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

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

Haas Seed House
305 N. Broadway
Albers, IL 62215
(618) 248-5165

MWS Seeds, LLC
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 62056
(217) 324-2680

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

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

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

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

Coops Creek Acres, Inc.
12102 Chesterfield Rd
Shipman, IL 62685
(618) 836-7736

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

Steyer Seeds
6154 N Co Rd 33
Tiffin, OH 44883
(800) 231-4247

Crop Production Services
PO Box 1467
Galesburg, IL 61402-1467
(309) 342-4100

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

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

DeRaedt Seed Corp.
10 N 971 Tower Road
Hampshire, IL 60140
(847) 464-5553

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

Virginia Tech
2229 Menokin Rd
Warsaw, VA 22572
(804) 333-3785

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

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

Table 1. Southern Illinois regional wheat variety trial results, 2009

<u>Company</u>	<u>Variety</u>	<u>Regional Average</u>			<u>Dixon Springs</u>		<u>Belleville</u>	
		<u>Yield</u> bu/ac	<u>Yield Rank</u> 1 to 64	<u>Test wt.</u> lb/bu	<u>Yield</u> bu/ac	<u>Test wt.</u> lb/bu	<u>Yield</u> bu/ac	<u>Test wt.</u> lb/bu
AgriPro	BRANSON	84.6	14	52.2	74.7	52.8	94.4	51.7
AgriPro	W1104	85.8	10	51.3	82.8	51.7	88.9	50.9
AgriPro	W1377	79.3	37	55.1	76.2	54.9	82.4	55.3
Beck's Hybrids	Beck 113	84.8	13	51.9	76.4	50.1	93.1	53.7
Beck's Hybrids	Beck 122	85.0	12	52.7	80.9	51.7	89.2	53.7
Beck's Hybrids	Beck 766	80.6	34	54.0	75.5	53.7	85.7	54.3
Beck's Hybrids	Beck 766 Cruiser	82.5	24	54.2	74.6	53.2	90.4	55.2
Beck's Hybrids	Beck 817	73.8	59	52.9	68.4	53.4	79.3	52.3
Beck's Hybrids	Beck 817 Cruiser	77.2	45	53.1	70.6	52.8	83.7	53.4
Beck's Hybrids	Beck 857	75.7	54	48.9	72.7	49.3	78.7	48.4
Beck's Hybrids	Beck 857 Cruiser	78.3	42	49.2	73.1	49.2	83.5	49.3
BioTown Seeds	Diener 496	76.3	50	50.5	75.3	49.4	77.4	51.6
BioTown Seeds	Diener XW 70	83.4	21	55.6	81.9	55.3	84.8	56.0
BioTown Seeds	Diener XW 81	74.8	57	50.4	64.4	50.8	85.2	50.0
Coops Creek Acres	EXCEL 170	72.1	60	53.0	62.5	52.0	81.7	54.0
Coops Creek Acres	EXCEL 170 Macho	81.2	32	54.5	71.8	53.5	90.5	55.5
Coops Creek Acres	EXCEL 209	88.7	3	53.8	80.9	53.6	96.4	54.0
Coops Creek Acres	EXCEL 209 Macho	86.3	7	54.5	75.1	54.5	97.5	54.5
Crop Production Services	9922	78.7	40	53.2	71.1	53.2	86.3	53.2
Crop Production Services	DG404	84.3	16	51.8	77.6	51.4	90.9	52.1
Crop Production Services	Shirley	77.4	44	49.2	78.6	49.9	76.2	48.4
Crop Production Services	V9710	76.9	47	53.1	66.2	52.5	87.5	53.8
Crop Production Services	V9723	82.1	26	52.3	73.6	52.2	90.5	52.5
Crop Production Services	V9812	75.9	51	49.9	68.9	49.8	82.8	50.0
GROWMARK	FS 610	83.4	20	56.9	77.1	57.9	89.7	55.9
GROWMARK	FS 618	83.4	19	52.5	77.4	51.9	89.5	53.0
GROWMARK	FS 628	81.3	30	51.5	74.6	51.3	88.0	51.8
GROWMARK	FS 637	75.8	53	49.1	69.2	48.8	82.4	49.4
GROWMARK	FS 659	74.5	58	49.8	68.9	49.3	80.0	50.2
Haas Seed House	EXCEL 343	81.3	31	52.6	80.3	52.5	82.2	52.7
Haas Seed House	EXCEL 343 Cruiser	84.1	18	53.1	78.8	52.8	89.5	53.4
Hoffman Seed House	EXCEL 180	86.5	6	56.1	81.7	55.7	91.3	56.4
Hoffman Seed House	EXCEL 180 Cruiser	91.0	1	56.6	83.4	56.2	98.5	56.9
Hoffman Seed House	EXCEL 180 Macho	89.7	2	56.5	82.9	56.6	96.4	56.5
Hoffman Seed House	EXCEL 286	80.0	36	52.3	76.1	52.0	83.8	52.6
Hoffman Seed House	EXCEL 286 Macho	83.3	22	52.5	80.5	50.4	86.0	54.6
Hoffman Seed House	EXCEL 367	74.8	56	53.1	73.5	54.3	76.0	51.9
Hoffman Seed House	EXCEL 367 Cruiser	75.8	52	53.4	70.7	53.9	81.0	52.8
Hoffman Seed House	EXCEL 367 Macho	80.0	35	53.5	75.5	54.7	84.5	52.3
Kitchen Seed Company	KSC 407W	82.9	23	52.7	76.7	52.7	89.1	52.7
Kitchen Seed Company	KSC 408W	84.4	15	53.2	85.1	54.8	83.7	51.7
Kitchen Seed Company	KSC 409W	79.0	39	56.7	74.0	56.3	84.0	57.0
Lewis Hybrids	Lewis 830	86.0	8	52.0	78.1	51.4	93.8	52.6
Lewis Hybrids	Lewis 835	81.3	29	56.5	77.6	56.2	85.1	56.7
Miles Seed	Anna	71.6	61	48.7	62.6	47.8	80.6	49.6
Miles Seed	Dinah	81.9	27	55.9	77.1	56.1	86.7	55.7
Miles Seed	Lois	80.7	33	50.3	76.3	50.2	85.1	50.5
Miller Bros Farm & Fert	EXCEL 173	81.5	28	55.5	72.1	55.4	90.9	55.5
Miller Bros Farm & Fert	EXCEL 173 Cruiser	86.9	5	54.7	79.3	54.1	94.6	55.4
Miller Bros Farm & Fert	EXCEL 173 Macho	85.3	11	55.2	73.5	54.8	97.1	55.7
MWS Seeds LLC	MWS 135	84.1	17	51.9	75.2	51.1	93.1	52.7
MWS Seeds LLC	MWS 225	85.9	9	56.4	79.2	55.9	92.7	56.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	88.6	4	49.6	84.8	49.8	92.4	49.4
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R54	77.5	43	52.7	73.0	52.4	82.1	53.0
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	75.4	55	50.8	68.3	52.0	82.5	49.6
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	82.1	25	50.1	78.9	49.7	85.2	50.4
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R78	76.7	49	51.8	67.1	50.1	86.4	53.4
Public	Kaskaskia	76.8	48	55.5	70.9	55.4	82.6	55.6
Steyer Seeds	Geary	77.0	46	49.5	73.1	49.0	81.0	50.0
Steyer Seeds	Jordan	78.7	41	54.2	76.0	54.1	81.4	54.2
Virginia Tech	Jamestown	71.3	62	54.2	62.7	54.7	79.8	53.7
Virginia Tech	Merl	70.5	63	50.9	62.4	50.9	78.5	50.8
Virginia Tech	Roane	70.1	64	54.9	67.4	55.0	72.8	54.8
Virginia Tech	VA04W-90	79.1	38	54.1	73.3	54.6	84.9	53.6
	Trial Mean	80.6		52.9	74.5	52.7	86.7	53.0
	LSD, 10%	6.8		1.5	5.9	1.5	5.6	1.1
	CV, %	8.7		3.0	5.9	2.0	4.7	1.5

Averaged over ten varieties in the Southern Region, seed treatment insecticide increased yield by 3.7 bushels/acre.

Table 2. Northern Illinois regional wheat variety trial results, 2009

Company	Variety	Regional Average			Perry	Urbana	DeKalb
		Yield bu/ac	Yield Rank 1 to 70	Test wt. lb/bu	Yield bu/ac	Yield bu/ac	Yield bu/ac
AgriPro	EXCEL 180	88.9	44	60.2	76.8	88.2	101.7
AgriPro	EXCEL 180 Macho	99.8	3	60.2	88.1	104.1	107.3
AgriPro	EXCEL 234	91.5	26	59.5	86.0	100.8	87.8
AgriPro	EXCEL 234 Macho	89.1	43	59.3	85.4	99.1	82.7
AgriPro	EXCEL 442	104.0	1	57.8	100.0	105.5	106.3
AgriPro	BRANSON	91.2	28	56.7	76.6	95.2	101.8
AgriPro	W1104	97.9	6	56.4	87.6	97.3	108.8
AgriPro	W1377	84.9	63	59.7	71.8	88.1	94.7
AgriPro	W1566	86.7	56	56.1	79.5	81.9	98.9
Beck's Hybrids	Beck 122	93.7	15	57.4	79.4	97.3	104.5
Beck's Hybrids	Beck 137	80.3	68	58.6	72.5	68.9	99.5
Beck's Hybrids	Beck 164	92.3	21	56.4	88.5	95.5	92.9
BioTown Seeds	Diener 496	90.8	33	55.2	87.2	92.4	92.9
BioTown Seeds	Diener XW 70	89.3	41	59.9	81.9	91.3	94.8
BioTown Seeds	Diener XW 81	86.1	58	56.9	83.2	86.5	88.5
Crop Production Services	9911	76.9	70	57.8	72.3	62.2	96.1
Crop Production Services	DG408	92.7	20	58.9	81.7	93.4	102.9
Crop Production Services	Shirley	85.5	61	54.8	80.0	89.0	87.4
Crop Production Services	V9712	80.8	67	58.4	72.2	87.5	82.7
Crop Production Services	V9723	93.8	14	56.9	80.9	97.5	103.0
Crop Production Services	V9812	88.3	47	57.7	83.6	92.5	88.8
DeRaedt Seed	DeRaedt 07	87.5	50	57.9	76.7	90.6	95.1
DeRaedt Seed	DeRaedt 14	90.7	34	56.5	87.8	91.1	93.3
Green Valley Seed	Willcross 736	85.6	60	57.9	70.6	85.4	100.7
Green Valley Seed	Willcross 748	91.1	29	56.7	79.0	90.6	103.6
GROWMARK	FS 610	93.4	17	59.7	81.5	95.6	103.0
GROWMARK	FS 618	90.9	31	58.6	74.2	92.3	106.2
GROWMARK	FS 628	88.3	46	57.0	71.8	93.2	99.9
GROWMARK	FS 637	88.9	45	57.0	83.5	86.3	96.9
GROWMARK	FS 659	89.6	38	56.2	81.8	96.0	91.0
Hartke Seed Farm	EXCEL 351 TW	89.4	40	60.3	78.4	96.1	93.6
Hartke Seed Farm	EXCEL 351 TW Macho	95.2	10	60.3	84.0	104.9	96.7
Kaltenberg Seeds	KW62	87.4	51	56.8	75.0	86.6	100.6
Kaltenberg Seeds	KW63	86.8	55	58.1	79.6	91.2	89.6
Kaltenberg Seeds	KW70	84.1	64	53.7	70.5	84.1	97.6
Kaltenberg Seeds	KW75	90.9	32	56.8	86.2	95.0	91.4
Kitchen Seed Company	KSC 407W	90.5	35	58.8	81.3	88.9	101.3
Kitchen Seed Company	KSC 408W	96.6	7	57.1	82.3	96.5	110.9
Kitchen Seed Company	KSC 409W	93.6	16	60.3	77.2	98.6	104.9
Lewis Hybrids	Lewis 830	87.4	52	57.1	68.7	94.5	99.0
Lewis Hybrids	Lewis 835	91.7	25	60.1	80.3	92.7	101.9
Lewis Hybrids	Lewis 841	87.3	53	57.6	80.0	90.3	91.6
MWS Seeds LLC	MWS 135	86.7	57	57.0	68.8	88.7	102.6
MWS Seeds LLC	MWS 225	94.6	11	60.4	81.5	99.1	103.3
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	92.1	22	56.8	83.6	92.2	100.5
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	93.3	18	55.7	77.8	96.0	106.1
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	89.2	42	56.0	80.7	92.2	94.6
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	91.8	23	54.9	86.5	102.0	86.9
Pro Seed Genetics	PRO 200	87.7	49	59.8	64.4	92.9	106.0
Pro Seed Genetics	PRO 240	89.7	37	57.2	75.8	95.4	97.8
Public	Kaskaskia	89.8	36	59.4	82.3	86.0	101.0
Steyer Seeds	Fatzinger	91.0	30	56.8	75.0	95.9	102.1
Synergy Seeds	EXCEL 307	89.6	39	59.3	78.4	92.4	98.0
Synergy Seeds	EXCEL 307 Macho	94.5	12	59.4	83.7	96.2	103.6
Synergy Seeds	EXCEL 341	91.7	24	58.4	78.2	92.1	104.8
Synergy Seeds	EXCEL 341 Macho	98.4	5	58.5	88.0	103.5	103.8
Synergy Seeds	EXCEL 399	95.3	9	58.3	86.5	95.7	103.8
Synergy Seeds	EXCEL 399 Macho	100.4	2	58.7	93.3	102.0	106.0
Synergy Seeds	EXCEL 442 Macho	98.4	4	58.2	79.5	102.3	113.5
Virginia Tech	Merl	85.2	62	58.8	69.4	87.6	98.6
Virginia Tech	Roane	81.4	66	59.0	73.8	79.6	90.7
Virginia Tech	VA04W-90	84.0	65	58.9	73.2	91.0	87.8
Wilken Seed Grains	Wilken W 103	85.9	59	57.1	72.6	91.9	93.2
Wilken Seed Grains	Wilken W 106	87.1	54	58.3	73.9	84.6	102.8
Wilken Seed Grains	Wilken W 110	92.8	19	58.5	84.7	91.8	101.9
Wilken Seed Grains	Wilken W 130	77.5	69	58.8	67.6	67.9	97.0
Wilken Seed Grains	Wilken W 135	91.4	27	57.9	78.8	89.8	105.5
Wilken Seed Grains	Wilken W 137	93.9	13	57.8	83.1	96.6	101.9
Wilken Seed Grains	Wilken W 161	96.3	8	57.9	88.3	92.5	108.1
Wilken Seed Grains	Wilken W 204	87.8	48	58.4	77.3	84.4	101.7
	Trial Mean	90.2		58.0	79.6	92.1	98.9
	LSD, 10%	7.8		1.2	9.2	5.6	6.0
	CV, %	11.1		2.7	8.5	4.5	4.5

Averaged over seven varieties in the Northern Region, seed treatment insecticide (macho) increased yield by 3.6 bushels/acre.

Table 3. Results of the 2009 wheat variety trial at Dixon Springs, in far southeastern Illinois.

<u>Company</u>	<u>Variety</u>	<u>Yield</u>	<u>Yield</u>	<u>Test wt.</u>	<u>Height</u>	<u>2-yr avg</u>	<u>3-yr avg</u>
		bu/ac	Rank 1 to 64			2008-09 bu/ac	2006,08,09 bu/ac
AgriPro	BRANSON	74.7	34	52.8	30	73.6	74.0
AgriPro	W1104	82.8	5	51.7	33		
AgriPro	W1377	76.2	26	54.9	33	76.4	
Beck's Hybrids	Beck 113	76.4	24	50.1	33		
Beck's Hybrids	Beck 122	80.9	9	51.7	36	78.3	
Beck's Hybrids	Beck 766	75.5	29	53.7	34	74.9	72.2
Beck's Hybrids	Beck 766 Cruiser	74.6	36	53.2	30	72.1	
Beck's Hybrids	Beck 817	68.4	55	53.4	34	70.1	
Beck's Hybrids	Beck 817 Cruiser	70.6	51	52.8	31	72.3	
Beck's Hybrids	Beck 857	72.7	45	49.3	32	75.0	
Beck's Hybrids	Beck 857 Cruiser	73.1	42	49.2	34	77.0	
BioTown Seeds	Diener 496	75.3	31	49.4	33	78.3	
BioTown Seeds	Diener XW 70	81.9	6	55.3	33		
BioTown Seeds	Diener XW 81	64.4	60	50.8	31		
Coops Creek Acres	EXCEL 170	62.5	63	52.0	29		
Coops Creek Acres	EXCEL 170 Macho	71.8	47	53.5	32		
Coops Creek Acres	EXCEL 209	80.9	8	53.6	32	76.8	
Coops Creek Acres	EXCEL 209 Macho	75.1	33	54.5	32		
Crop Production Services	9922	71.1	48	53.2	31		
Crop Production Services	DG404	77.6	18	51.4	35	77.8	
Crop Production Services	Shirley	78.6	16	49.9	31	81.0	
Crop Production Services	V9710	66.2	59	52.5	31	71.5	
Crop Production Services	V9723	73.6	38	52.2	36	77.4	
Crop Production Services	V9812	68.9	54	49.8	32	74.1	
GROWMARK	FS 610	77.1	21	57.9	32		
GROWMARK	FS 618	77.4	20	51.9	33	74.0	
GROWMARK	FS 628	74.6	35	51.3	33	76.6	
GROWMARK	FS 637	69.2	52	48.8	34	71.4	71.9
GROWMARK	FS 659	68.9	53	49.3	33		
Haas Seed House	EXCEL 343	80.3	11	52.5	31	74.6	
Haas Seed House	EXCEL 343 Cruiser	78.8	15	52.8	31	76.7	
Hoffman Seed House	EXCEL 180	81.7	7	55.7	32	80.8	
Hoffman Seed House	EXCEL 180 Cruiser	83.4	3	56.2	33	79.5	
Hoffman Seed House	EXCEL 180 Macho	82.9	4	56.6	34		
Hoffman Seed House	EXCEL 286	76.1	27	52.0	33		
Hoffman Seed House	EXCEL 286 Macho	80.5	10	50.4	34		
Hoffman Seed House	EXCEL 367	73.5	39	54.3	33	77.7	
Hoffman Seed House	EXCEL 367 Cruiser	70.7	50	53.9	34	73.3	
Hoffman Seed House	EXCEL 367 Macho	75.5	30	54.7	34		
Kitchen Seed Company	KSC 407W	76.7	23	52.7	34	74.9	
Kitchen Seed Company	KSC 408W	85.1	1	54.8	36	74.9	
Kitchen Seed Company	KSC 409W	74.0	37	56.3	32		
Lewis Hybrids	Lewis 830	78.1	17	51.4	35	76.6	
Lewis Hybrids	Lewis 835	77.6	19	56.2	32		
Miles Seed	Anna	62.6	62	47.8	29		
Miles Seed	Dinah	77.1	22	56.1	32	77.5	
Miles Seed	Lois	76.3	25	50.2	31		
Miller Bros Farm & Fert	EXCEL 173	72.1	46	55.4	34	79.0	76.3
Miller Bros Farm & Fert	EXCEL 173 Cruiser	79.3	12	54.1	35	80.9	
Miller Bros Farm & Fert	EXCEL 173 Macho	73.5	40	54.8	33		
MWS Seeds LLC	MWS 135	75.2	32	51.1	35	79.6	
MWS Seeds LLC	MWS 225	79.2	13	55.9	31		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	84.8	2	49.8	31	87.0	83.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R54	73.0	44	52.4	33	75.7	74.2
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	68.3	56	52.0	30	71.1	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	78.9	14	49.7	32	76.4	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R78	67.1	58	50.1	32		
Public	Kaskaskia	70.9	49	55.4	34	71.1	69.9
Steyer Seeds	Geary	73.1	43	49.0	34		
Steyer Seeds	Jordan	76.0	28	54.1	32		
Virginia Tech	Jamestown	62.7	61	54.7	31		
Virginia Tech	Merl	62.4	64	50.9	32		
Virginia Tech	Roane	67.4	57	55.0	30	69.2	68.3
Virginia Tech	VA04W-90	73.3	41	54.6	32		
	Trial Mean	74.5		52.7	32	75.9	73.8
	LSD, 10%	5.9		1.5	3		
	CV, %	5.9		2.0	6		

Averaged over ten entries compared at this location, seed treatment insecticide increased yield by 1.7 bushels/acre.

Table 4. Results of the 2009 wheat variety trial at Belleville, in southwestern Illinois.

<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>2008-09</u> bu/ac	<u>3-yr avg</u> <u>2007-09</u> bu/ac
			<u>Rank</u> 1 to 64				
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 2009 wheat variety trial at Brownstown, in south central Illinois.

Due to water damage problems we are not including these results in the southern regional average. Variability was high and the yields relatively low for this location, so results should be used with caution.

<u>Company</u>	<u>Variety</u>	<u>Yield</u> bu/ac	<u>Yield</u> Rank 1 to 64	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2-yr avg</u>	<u>3-yr avg</u>
						<u>2008-09</u> bu/ac	<u>2007-09</u> bu/ac
AgriPro	BRANSON	63.3	34	51.5	32	73.7	73.6
AgriPro	W1104	64.5	27	51.4	31		
AgriPro	W1377	54.1	60	55.6	33	68.0	72.7
Beck's Hybrids	Beck 113	71.9	7	51.2	32		
Beck's Hybrids	Beck 122	62.2	38	50.5	35	73.6	78.6
Beck's Hybrids	Beck 766	62.0	39	53.6	32	73.9	75.1
Beck's Hybrids	Beck 766 Cruiser	68.2	17	53.0	32	74.6	
Beck's Hybrids	Beck 817	63.2	36	52.7	33	77.2	78.5
Beck's Hybrids	Beck 817 Cruiser	63.4	32	52.4	31	74.9	
Beck's Hybrids	Beck 857	58.5	52	47.0	34	76.0	79.9
Beck's Hybrids	Beck 857 Cruiser	60.2	48	48.0	34	78.1	
BioTown Seeds	Diener 496	71.6	8	46.7	34	82.4	
BioTown Seeds	Diener XW 70	63.3	33	55.1	32		
BioTown Seeds	Diener XW 81	60.5	47	47.9	33		
Coops Creek Acres	EXCEL 170	56.2	58	52.3	34		
Coops Creek Acres	EXCEL 170 Macho	64.9	25	53.9	32		
Coops Creek Acres	EXCEL 209	76.1	1	53.9	36	83.6	
Coops Creek Acres	EXCEL 209 Macho	61.3	45	52.7	33		
Crop Production Services	9922	64.4	28	53.9	34		
Crop Production Services	DG404	67.9	18	48.3	33	81.5	
Crop Production Services	Shirley	66.7	22	48.6	32	79.0	
Crop Production Services	V9710	64.9	26	52.4	30	74.4	75.0
Crop Production Services	V9723	67.0	20	50.7	38	78.3	79.2
Crop Production Services	V9812	58.2	54	49.2	35	71.6	
GROWMARK	FS 610	68.4	16	55.8	34		
GROWMARK	FS 618	70.2	12	52.0	34	81.5	79.9
GROWMARK	FS 628	72.3	6	51.2	38	79.0	81.0
GROWMARK	FS 637	59.1	50	50.2	35	68.0	70.0
GROWMARK	FS 659	64.2	29	48.4	35		
Haas Seed House	EXCEL 343	63.2	35	52.2	32	80.4	80.2
Haas Seed House	EXCEL 343 Cruiser	63.6	30	53.3	34	79.3	84.4
Hoffman Seed House	EXCEL 180	71.2	10	56.4	35	80.5	
Hoffman Seed House	EXCEL 180 Cruiser	75.8	2	56.5	35	86.6	
Hoffman Seed House	EXCEL 180 Macho	74.9	4	56.4	33		
Hoffman Seed House	EXCEL 286	58.6	51	52.2	35		
Hoffman Seed House	EXCEL 286 Macho	69.8	14	52.7	38		
Hoffman Seed House	EXCEL 367	49.6	64	52.9	32	67.9	
Hoffman Seed House	EXCEL 367 Cruiser	61.6	44	53.4	34	73.0	
Hoffman Seed House	EXCEL 367 Macho	58.3	53	53.8	34		
Kitchen Seed Company	KSC 407W	70.3	11	53.0	35	81.0	78.8
Kitchen Seed Company	KSC 408W	62.6	37	54.1	38	79.6	
Kitchen Seed Company	KSC 409W	67.0	21	55.8	33		
Lewis Hybrids	Lewis 830	63.5	31	50.5	35	81.0	83.4
Lewis Hybrids	Lewis 835	69.8	13	56.2	33		
Miles Seed	Anna	60.6	46	49.3	32		
Miles Seed	Dinah	67.3	19	55.3	33	82.9	81.0
Miles Seed	Lois	68.8	15	50.4	33		
Miller Bros Farm & Fert	EXCEL 173	65.3	24	53.5	35	79.2	78.6
Miller Bros Farm & Fert	EXCEL 173 Cruiser	61.7	42	54.2	35	80.1	84.1
Miller Bros Farm & Fert	EXCEL 173 Macho	75.3	3	54.7	36		
MWS Seeds LLC	MWS 135	61.9	41	50.6	33	78.9	
MWS Seeds LLC	MWS 225	74.2	5	56.0	35		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	52.0	62	48.7	30	74.4	79.1
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R54	55.1	59	52.0	34	72.0	73.8
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	62.0	40	49.9	31	74.1	78.6
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	66.6	23	50.7	33	80.1	
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R78	71.4	9	53.3	35		
Public	Kaskaskia	52.4	61	55.4	36	66.3	72.8
Steyer Seeds	Geary	60.0	49	47.1	35		
Steyer Seeds	Jordan	56.9	57	53.6	33		
Virginia Tech	Jamestown	57.7	56	55.5	33		
Virginia Tech	Merl	51.4	63	49.3	30		
Virginia Tech	Roane	58.0	55	55.6	30	65.5	69.7
Virginia Tech	VA04W-90	61.6	43	54.0	33		
	Trial Mean	63.8		52.2	34	76.6	77.7
	LSD, 10%	8.7		1.2	3		
	CV, %	10.1		1.7	7		

Averaged over ten entries compared at this location, seed treatment insecticide increased yield by 3.7 bushels/acre.

Table 6. Results of the 2009 wheat variety trial at Perry, in western Illinois.

Company	Variety	Yield bu/ac	Yield Rank 1 to 70	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
						2008-09 bu/ac	2007-09 bu/ac
Agrinetics	EXCEL 180	76.8	48	59.6	35		
Agrinetics	EXCEL 180 Macho	88.1	5	59.1	35		
Agrinetics	EXCEL 234	86.0	13	59.8	37		
Agrinetics	EXCEL 234 Macho	85.4	14	60.1	37		
Agrinetics	EXCEL 442	100.0	1	57.3	42	90.6	
AgriPro	BRANSON	76.6	50	56.1	37	78.5	79.6
AgriPro	W1104	87.6	8	57.4	35		
AgriPro	W1377	71.8	62	60.2	38	77.1	83.1
AgriPro	W1566	79.5	37	56.2	38		
Beck's Hybrids	Beck 122	79.4	39	57.5	37	84.2	
Beck's Hybrids	Beck 137	72.5	59	57.7	34		
Beck's Hybrids	Beck 164	88.5	3	57.1	34	86.0	
BioTown Seeds	Diener 496	87.2	9	55.2	36		
BioTown Seeds	Diener XW 70	81.9	25	60.0	35		
BioTown Seeds	Diener XW 81	83.2	21	57.2	35		
Crop Production Services	9911	72.3	60	57.7	35		
Crop Production Services	DG408	81.7	27	59.1	39		
Crop Production Services	Shirley	80.0	35	56.1	34	84.2	
Crop Production Services	V9712	72.2	61	58.2	33	80.7	77.8
Crop Production Services	V9723	80.9	31	57.0	37	83.4	81.7
Crop Production Services	V9812	83.6	19	57.7	34	85.4	
DeRaedt Seed	DeRaedt 07	76.7	49	57.3	36	82.4	
DeRaedt Seed	DeRaedt 14	87.8	7	57.1	38		
Green Valley Seed	Willcross 736	70.6	64	58.6	37	77.2	76.8
Green Valley Seed	Willcross 748	79.0	40	56.9	38	84.1	
GROWMARK	FS 610	81.5	28	58.9	36		
GROWMARK	FS 618	74.2	54	58.5	38	78.5	
GROWMARK	FS 628	71.8	63	57.2	39	78.2	80.0
GROWMARK	FS 637	83.5	20	58.0	38	82.0	80.2
GROWMARK	FS 659	81.8	26	56.8	35		
Hartke Seed Farm	EXCEL 351 TW	78.4	43	60.3	36		
Hartke Seed Farm	EXCEL 351 TW Macho	84.0	16	60.7	38		
Kaltenberg Seeds	KW62	75.0	53	57.0	38	82.3	81.7
Kaltenberg Seeds	KW63	79.6	36	57.6	36		
Kaltenberg Seeds	KW70	70.5	65	56.8	36		
Kaltenberg Seeds	KW75	86.2	12	57.0	35		
Kitchen Seed Company	KSC 407W	81.3	30	58.5	36	82.8	77.0
Kitchen Seed Company	KSC 408W	82.3	24	57.1	40	79.8	
Kitchen Seed Company	KSC 409W	77.2	47	59.4	37		
Lewis Hybrids	Lewis 830	68.7	68	57.5	38	79.7	80.3
Lewis Hybrids	Lewis 835	80.3	33	59.5	35		
Lewis Hybrids	Lewis 841	80.0	34	58.0	34	81.8	79.4
MWS Seeds LLC	MWS 135	68.8	67	57.6	38	77.4	80.1
MWS Seeds LLC	MWS 225	81.5	29	60.0	37		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	83.6	18	57.4	36		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	77.8	45	56.0	36	82.8	81.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	80.7	32	55.5	35	80.8	82.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	86.5	11	53.8	34	90.0	
Pro Seed Genetics	PRO 200	64.4	70	59.4	38		
Pro Seed Genetics	PRO 240	75.8	51	57.2	36		
Public	Kaskaskia	82.3	23	59.5	38	79.7	81.2
Steyer Seeds	Fatzinger	75.0	52	57.1	36		
Synergy Seeds	EXCEL 307	78.4	42	59.6	37		
Synergy Seeds	EXCEL 307 Macho	83.7	17	59.3	38		
Synergy Seeds	EXCEL 341	78.2	44	58.5	40		
Synergy Seeds	EXCEL 341 Macho	88.0	6	59.7	39		
Synergy Seeds	EXCEL 399	86.5	10	58.7	38		
Synergy Seeds	EXCEL 399 Macho	93.3	2	58.8	39		
Synergy Seeds	EXCEL 442 Macho	79.5	38	57.9	43		
Virginia Tech	Merl	69.4	66	59.6	35		
Virginia Tech	Roane	73.8	56	59.8	34	75.8	75.9
Virginia Tech	VA04W-90	73.2	57	58.8	35		
Wilken Seed Grains	Wilken W 103	72.6	58	57.1	39	80.2	
Wilken Seed Grains	Wilken W 106	73.9	55	58.4	38	78.8	76.2
Wilken Seed Grains	Wilken W 110	84.7	15	59.3	38	85.5	82.8
Wilken Seed Grains	Wilken W 130	67.6	69	58.4	33	74.8	75.0
Wilken Seed Grains	Wilken W 135	78.8	41	57.7	38	81.7	80.9
Wilken Seed Grains	Wilken W 137	83.1	22	58.9	37		
Wilken Seed Grains	Wilken W 161	88.3	4	58.0	40	84.8	
Wilken Seed Grains	Wilken W 204	77.3	46	59.1	37	80.2	75.2
	Trial Mean	79.6		58.1	37	81.6	79.5
	LSD, 10%	9.2		0.9	2		
	CV, %	8.5		1.1	4		

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

Table 7. Results of the 2009 wheat variety trial at Urbana, in east central Illinois.

<u>Company</u>	<u>Variety</u>	<u>Yield</u> bu/ac	<u>Yield Rank</u> 1 to 70	<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
Agrinetics	EXCEL 180	88.2	54	61.9	37		
Agrinetics	EXCEL 180 Macho	104.1	3	61.9	36		
Agrinetics	EXCEL 234	100.8	8	60.6	37		
Agrinetics	EXCEL 234 Macho	99.1	10	61.6	36		
Agrinetics	EXCEL 442	105.5	1	59.4	40	101.9	
AgriPro	BRANSON	95.2	26	59.2	36	91.4	83.9
AgriPro	W1104	97.3	14	58.3	36		
AgriPro	W1377	88.1	55	60.5	37	83.5	82.5
AgriPro	W1566	81.9	66	57.9	41		
Beck's Hybrids	Beck 122	97.3	13	59.6	39	94.4	
Beck's Hybrids	Beck 137	68.9	68	59.7	33		
Beck's Hybrids	Beck 164	95.5	24	58.4	38	92.9	
BioTown Seeds	Diener 496	92.4	35	56.2	41		
BioTown Seeds	Diener XW 70	91.3	43	61.4	37		
BioTown Seeds	Diener XW 81	86.5	59	59.0	36		
Crop Production Services	9911	62.2	70	58.1	33		
Crop Production Services	DG408	93.4	29	60.9	39		
Crop Production Services	Shirley	89.0	51	56.2	33	88.4	
Crop Production Services	V9712	87.5	57	60.2	32	89.5	78.2
Crop Production Services	V9723	97.5	12	58.7	38	95.6	87.3
Crop Production Services	V9812	92.5	34	59.7	35	91.0	
DeRaedt Seed	DeRaedt 07	90.6	48	60.4	37	91.9	
DeRaedt Seed	DeRaedt 14	91.1	45	58.5	37		
Green Valley Seed	Willcross 736	85.4	62	59.3	37	88.3	85.4
Green Valley Seed	Willcross 748	90.6	47	59.0	39	90.3	
GROWMARK	FS 610	95.6	23	61.8	37		
GROWMARK	FS 618	92.3	37	59.7	41	88.7	
GROWMARK	FS 628	93.2	30	59.2	38	91.6	82.4
GROWMARK	FS 637	86.3	60	56.9	37	88.4	82.4
GROWMARK	FS 659	96.0	19	58.2	37		
Hartke Seed Farm	EXCEL 351 TW	96.1	18	62.7	37		
Hartke Seed Farm	EXCEL 351 TW Macho	104.9	2	62.5	37		
Kaltenberg Seeds	KW62	86.6	58	59.2	40	89.3	82.8
Kaltenberg Seeds	KW63	91.2	44	61.0	36		
Kaltenberg Seeds	KW70	84.1	65	51.1	36		
Kaltenberg Seeds	KW75	95.0	27	58.8	36		
Kitchen Seed Company	KSC 407W	88.9	52	60.2	41	87.9	74.8
Kitchen Seed Company	KSC 408W	96.5	16	57.7	41	97.2	
Kitchen Seed Company	KSC 409W	98.6	11	62.2	35		
Lewis Hybrids	Lewis 830	94.5	28	58.9	39	94.3	86.8
Lewis Hybrids	Lewis 835	92.7	32	62.1	37		
Lewis Hybrids	Lewis 841	90.3	49	59.8	36	92.0	84.1
MWS Seeds LLC	MWS 135	88.7	53	58.7	38	89.5	85.5
MWS Seeds LLC	MWS 225	99.1	9	61.7	36		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R39	92.2	39	59.1	35		
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R47	96.0	20	57.0	35	99.0	90.0
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R56	92.2	38	58.5	35	91.7	87.9
Pioneer Hi-Bred Int'l, Inc.	Pioneer 25R62	102.0	7	56.7	35	103.8	
Pro Seed Genetics	PRO 200	92.9	31	60.9	39		
Pro Seed Genetics	PRO 240	95.4	25	59.6	39		
Public	Kaskaskia	86.0	61	59.5	37	83.6	80.2
Steyer Seeds	Fatzinger	95.9	21	59.1	39		
Synergy Seeds	EXCEL 307	92.4	36	61.0	38		
Synergy Seeds	EXCEL 307 Macho	96.2	17	61.0	36		
Synergy Seeds	EXCEL 341	92.1	40	60.1	38		
Synergy Seeds	EXCEL 341 Macho	103.5	4	60.5	39		
Synergy Seeds	EXCEL 399	95.7	22	60.1	38		
Synergy Seeds	EXCEL 399 Macho	102.0	6	60.4	38		
Synergy Seeds	EXCEL 442 Macho	102.3	5	60.0	43		
Virginia Tech	Merl	87.6	56	60.1	36		
Virginia Tech	Roane	79.6	67	59.5	33	80.3	78.1
Virginia Tech	VA04W-90	91.0	46	60.6	37		
Wilken Seed Grains	Wilken W 103	91.9	41	59.1	37	92.5	
Wilken Seed Grains	Wilken W 106	84.6	63	59.9	37	85.3	76.6
Wilken Seed Grains	Wilken W 110	91.8	42	60.9	39	90.9	84.1
Wilken Seed Grains	Wilken W 130	67.9	69	59.6	35	74.4	67.0
Wilken Seed Grains	Wilken W 135	89.8	50	59.7	37	87.5	80.5
Wilken Seed Grains	Wilken W 137	96.6	15	58.8	38		
Wilken Seed Grains	Wilken W 161	92.5	33	59.3	43	94.6	
Wilken Seed Grains	Wilken W 204	84.4	64	59.8	41	87.0	79.1
	Trial Mean	92.1		59.6	37	90.6	81.9
	LSD, 10%	5.6		1.6	3		
	CV, %	4.5		2.0	5		

Averaged over seven entries compared at Urbana, seed treatment insecticide (Macho) increased yield by 5.9 bushels/acre.

Table 8. Results of the 2009 wheat variety trial at DeKalb, in north central Illinois.

<u>Company</u>	<u>Variety</u>	<u>Yield</u> bu/ac	<u>Yield Rank</u> 1 to 70	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2-yr avg</u>	<u>3-yr avg</u>
						<u>2007.09</u> bu/ac	<u>2006.07.09</u> bu/ac
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>
Agrinetics Inc	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	G	MR	MS	MR
	W1104	V	M	S						
	W1377	V	ML	S	G	M	E	MR	MR	MR
	W1566	V	M	S						
Beck's Hybrids	113	V	E	S	VG	M	E	MR	MR	MR
	122	V	ME	S	VG	T	VG	MR	MR	MR
	137	V	ME	S	E	M	VG	MR	MR	MR
	164	V	ML	S	E	M	E	MR	MR	MR
	766	V	E	T	VG	M	VG	MS	R	MR
	817	V	ME	T	VG	S	E	MS	I	MR
	857	V	ME	T	E	M	E	MS	R	MR
BioTown Seeds	Diener 496	V	ME	S	E	M	VG	MR	I	MR
	Diener XW 70	V	ME	S		M			R	MR
	Diener XM 81	V	E	S	E	M	E		MR	MR
Coops Creek Acres	EXCEL 170	V	E	S	E	S	E	I	R	R
	EXCEL 209	V	E	S	E	S	E	I	R	R
Crop Production Services	9911	V	ME	T	E	M	VG		MR	I
	9922	V	M	B	E	M	E		MR	MR
	DG404	V	ME	S	E	MT	VG		MR	I
	DG408	V	ME	S	E	M	VG		MR	MR
	Shirley	V	L	T	VG	S	E		R	MR
	V9710	V	E	S	VG	S	E		MR	MR
	V9712	V	M	S	E	M	G		I	MR
	V9723	V	M	S	E	MT	VG		MR	MR
V9812	V	M	S	E	M	E		MR	I	
DeRaedt Seed	07	V	ME	T	VG	M	VG	S	S	MR
	14	V	ML	S	E	MT	VG		MR	MR
Green Valley Seed	Willcross 736	V	ME	S	E	M	E	I	R	MR
	Willcross 748	V	ME	S	E	T	E	I	MR	MR
FS Seeds	FS 610	V	E	S	G	MT	VG	S	MR	MR
	FS 618	V	ME	S	G	T	VG	S	MR	MR
	FS 628	V	ME	S	E	T	E	S	MR	MR
	FS 637	V	ME	S	G	M	E	MR	MR	MR
	FS 659	V	ML	S	E	MT	G	S	MR	MR
Haas Seed House	EXCEL 343	V	M	S	E	M	E	I	MR	MR
Hartke Seed Farms	EXCEL 351	V	M	S	VG	S	VG	I	R	MR
Hoffman Seed House	EXCEL 180	V	E	S	VG	M	VG	I	MR	MR
	EXCEL 286	V	E	S	VG	M	E	I	R	MR
	EXCEL 367	V	M	S	E	M	E	I	R	R
Kaltenberg Seed	KW62	V	M	S	E	MT	E		MR	MR
	KW63	V	E	S	E	M	E		R	MR
	KW70	V	ML	S	E	M	E		MR	MR
	KW75	V	M	S	E	M	VG		R	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 407W	V	ME	S	E	S	E	R	MR	R
	KSC 408W	V	ML	B	E	S	E	MR	R	R
	KSC 409W	V	ME	S	VG	S	VG	MR	MR	R
Lewis Hybrids	830	V	E	S	E	T	VG	MS	I	I
	835	V	ME	S	VG	M	G	MS	S	MR
	841	V	ME	S	E	M	E	MS	MR	I
Miles Seed	Anna	V	E	S	E	M	E		I	I
	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
MWS Seeds LLC	MWS 135	V	M	S	VG	M	E	E	I	I
	MWS 225	V	E	S	VG	M	E	E	I	MR
Pioneer Hi-Bred Int'l, Inc.	PIONEER 25R39	V	E	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	I	I
	PIONEER 25R78	V	ML	B	G	S	E	MR	R	MS
Public	Kaskaskia	V	M	B	VG	MT	VG	S	MR	MR
Pro Seed Genetics	PRO 200	V	M	S	VG	M	VG		R	MR
	PRO 240	V	M	S	G	M	VG		MR	MR
Steyer Seeds	Fatzinger	V	ML	S	E	T	E	MR	MR	MR
	Geary	V	M	S	E	M	E	MR	MR	MR
	Jordan	V	M	S	E	M	E	MR	MR	MR
Synergy Seeds	EXCEL 307	V	ME	S	E	M	E	I	R	MR
	EXCEL 399	V	M	S	E	M	E	I	R	R
	EXCEL 341	V	M	S	E	M	VG	I	MR	R
Virginia Tech	Jamestown	V	E	B	G	S	VG	R	MR	MS
	Merl	V	M	S	G	M	E	S	I	MR
	Roane	V	ML	S	VG	S	VG	MR	MS	MR
	VA 04W-90	V	M	S	G	M	G	MS	I	I
Wilken Seed Grains, Inc.	Wilken 103	V	ME	S	E	MT	E	M	MR	MR
	Wilken 106	V	ME	S	VG	M	VG	M	MR	MR
	Wilken 110	V	ME	S	E	M	VG	M	MR	MR
	Wilken 130	V	ME	S	E	M	VG	M	MR	MR
	Wilken 135	V	M	S	E	M	VG	M	MR	MR
	Wilken 137	V	M	S	E	M	VG	M	MR	MR
	Wilken 161	V	ML	B	E	M	VG	M	MR	MR
	Wilken 204	V	ML	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)

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

Table 10. 2008-2009 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	2009					2008						
		Incidence	Severity	Kernel	FHB	ISK	Incidence	Severity	Kernel	FHB	ISK	Winter	
				Rating	Index	Index			Rating	Index	Index	Survival	DON
		(%)	(%)	(%) FDK(0-100)	(0-100)	(%)	(%)	(%) FDK(0-100)	(0-100)	(%)	(ppm)		
AgriPro COKER	Branson	100	76	53	76	74	98	63	57	62	71	63	15.2
AgriPro COKER	M03-3104B	97	49	63	47	69	--	--	--	--	--	--	--
AgriPro COKER	M04-4566	99	67	83	67	83	--	--	--	--	--	--	--
AgriPro COKER	W1377	93	44	40	42	57	95	56	43	53	63	100	11.4
Beck's Hybrids	Beck 113	87	35	40	30	53	--	--	--	--	--	--	--
Beck's Hybrids	Beck 122	83	65	43	54	62	97	84	57	81	77	100	30.1
Beck's Hybrids	Beck 164	97	52	57	51	67	95	76	75	72	81	100	25.3
Diener Seeds, Inc.	Diener 496	100	88	78	88	88	98	81	77	79	84	70	31.2
Diener Seeds, Inc.	Diener XW70	68	48	35	35	49	--	--	--	--	--	--	--
Diener Seeds, Inc.	Diener XW80	100	77	72	77	82	--	--	--	--	--	--	--
Excel Brand Seed	Excel 170	92	30	37	28	51	--	--	--	--	--	--	--
Excel Brand Seed	Excel 173	93	61	43	57	64	98	39	35	38	55	25	8.8
Excel Brand Seed	Excel 180	92	34	22	31	46	77	35	30	28	46	100	6.0
Excel Brand Seed	Excel 209	90	36	37	33	52	75	31	27	23	43	100	5.1
Excel Brand Seed	Excel 234	73	33	27	27	43	--	--	--	--	--	--	--
Excel Brand Seed	Excel 286	82	71	42	59	63	--	--	--	--	--	--	--
Excel Brand Seed	Excel 307	92	51	50	47	63	--	--	--	--	--	--	--
Excel Brand Seed	Excel 341	83	42	33	37	51	--	--	--	--	--	--	--
Excel Brand Seed	Excel 343	88	51	45	45	60	92	40	50	36	59	37	13.8
Excel Brand Seed	Excel 351 TW	85	50	37	45	55	--	--	--	--	--	--	--
Excel Brand Seed	Excel 367	80	46	33	35	51	87	37	37	33	52	100	12.2
Excel Brand Seed	Excel 399	88	50	33	45	55	--	--	--	--	--	--	--
Excel Brand Seed	Excel 442	80	48	22	39	47	92	50	27	45	53	100	12.8
GROWMARK	FS 618	73	60	30	42	52	97	48	43	47	61	52	9.2
GROWMARK	FS 628	85	64	37	53	59	98	69	70	68	78	93	25.1
GROWMARK	FS 637	100	80	70	80	82	--	--	--	--	--	--	--
GROWMARK	FS 659	97	67	57	65	72	--	--	--	--	--	--	--
GROWMARK	W09-1	87	37	25	32	47	--	--	--	--	--	--	--
Kaltenberg Seeds	KW62	80	64	38	52	59	--	--	--	--	--	--	--
Kaltenberg Seeds	KW63	100	80	62	80	79	--	--	--	--	--	--	--
Kaltenberg Seeds	KW70	43	14	22	6	26	--	--	--	--	--	--	--
Kaltenberg Seeds	KW75	93	54	47	50	63	--	--	--	--	--	--	--
Kitchen Seed Co.	KSC 407W	80	45	35	35	51	--	--	--	--	--	--	--
Kitchen Seed Co.	KSC 409W	93	26	28	24	47	--	--	--	--	--	--	--
Lewis Hybrids	Lewis 830	80	61	42	48	59	92	68	70	64	76	100	25.4
Lewis Hybrids	Lewis 835	92	20	23	18	43	--	--	--	--	--	--	--
Lewis Hybrids	Lewis 841	100	88	57	88	79	97	82	73	79	83	100	43.5
Pioneer Hi-Bred Int'l	Pio 25R39	95	51	53	48	65	--	--	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R47	100	74	70	74	80	97	48	73	47	73	100	38.6
Pioneer Hi-Bred Int'l	Pio 25R54	85	48	30	39	52	98	66	50	65	69	80	18.7
Pioneer Hi-Bred Int'l	Pio 25R56	92	36	60	34	62	82	72	47	59	65	100	19.1
Pioneer Hi-Bred Int'l	Pio 25R62	98	44	67	44	70	97	68	43	66	67	100	39.5
Pioneer Hi-Bred Int'l	Pio 25R78	80	63	57	49	66	--	--	--	--	--	--	--
Pro Seed Genetics	PRO 200	93	53	37	49	59	--	--	--	--	--	--	--
Pro Seed Genetics	PRO 240	83	62	35	52	58	--	--	--	--	--	--	--
Public	Kaskaskia	93	58	52	54	66	98	64	50	63	69	100	26.8
University of Illinois	94-1653	90	49	35	44	56	92	55	37	50	59	87	14.4
Virginia Tech	Jamestown	87	44	43	38	57	--	--	--	--	--	--	--
Virginia Tech	Roane	93	29	35	27	51	90	34	40	30	53	77	13.4
Wilkin Seed Grains	Wilken W 103	85	69	47	58	65	85	55	67	47	69	100	35.0
Wilkin Seed Grains	Wilken W 106	76	40	37	29	50	--	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 110	93	43	37	40	56	88	61	43	55	62	63	12.4
Wilkin Seed Grains	Wilken W 130	97	44	43	42	59	--	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 135	85	48	37	41	55	88	53	37	47	57	77	13.8
Wilkin Seed Grains	Wilken W 137	93	56	37	53	60	--	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 161	77	52	28	38	50	83	51	38	43	56	100	10.8
Wilkin Seed Grains	Wilken W 204	77	61	52	47	62	--	--	--	--	--	--	--
	Test Average	87	52	42	45	59	92	58	50	53	65	83	19.1
	LSD (0.05)	19	21	13	20	11	13	23	17	24	12	26	10.2

Data are from Dr. Fred Kolb's wheat breeding program, and include some of the varieties entered into the wheat variety trial.

The test nursery was inoculated and mist irrigated. Three replications were evaluated.

Incidence = the percent of heads in a row with symptoms.

Kernel rating = the percent of shriveled seed.

Varieties with greater resistance have lower numbers.