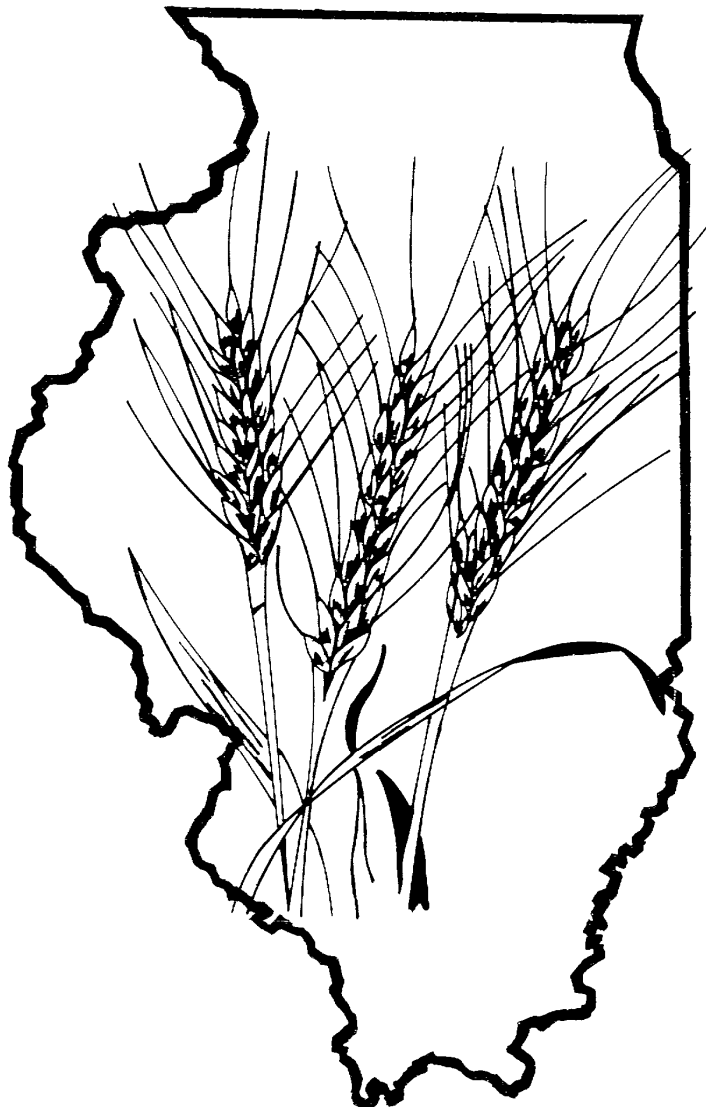


WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2008



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University of Illinois
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Even with the damage to the 2007 Illinois wheat crop from the early April freeze, high prices going into the fall of 2007 and decent planting conditions helped wheat acreage to rebound, with about 1.2 million acres planted in the fall of 2007. This is the highest planted acreage since 1998. The harvest of the 2007 corn and soybean crops was relatively early, and wheat planting was timely in most areas. There were some wet areas, but in general it was a favorable fall for wheat, and the crop condition in most areas was good heading into dormancy.

The winter was relatively benign, with the only challenges to the wheat crop coming from high rainfall in some areas, and both standing water and ice. This caused serious damage to the crop in some areas of northern Illinois, including the trial near DeKalb. That trial was abandoned as a result of uneven injury that ruled out getting useful data.

March 2008 was cool and wet, in contrast to the warm and dry conditions in March 2007. April continued to be cool and wet, with considerable concern about loss of nitrogen in many fields. The weather in May continued this trend, and the lack of warm temperatures delayed heading by a week or more in the southern part of the state and by two weeks or more in central and northern parts of the state. As an example, the median heading date in the Brownstown trial was May 19, which is about two weeks later than normal.

While cool temperatures delayed development, they also limited the production of disease inoculum and favored the growth of wheat, so the crop was in very good condition by early June. Fungicides were applied on a large number of acres, especially for control of Fusarium head scab. Perhaps due to lack of inoculum, this disease was not very damaging in Illinois in 2008. Some leaf diseases appeared late, but fungicide application in some trials produced little yield response. Barley yellow dwarf, which is carried into fields by aphids, seemed to be at a very low level in 2008; seed treatment fungicides produced little or not yield increase, either because aphids were not a factor or perhaps because aphids did not carry BYDV when they came into fields. Entries made in the variety trials using both insecticide-treated and untreated seed showed little difference in yield, as you can see in the tables.

Normal temperatures returned in June, but harvest took place a week to two weeks later than normal, reflecting the late heading but a more or less normal length of filling. Yields in most areas were surprisingly good given the wet spring weather. The July crop report indicates that statewide yield was 66 bushels per acre, which is only one bushel less than the record-high yield of 67 in 2006.

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. 11	25 Fall 95 Spring	June 18
Belleville	Ron Krausz	Ebbert silt loam	Oct. 12	30 Fall 80 Spring	June 26
Brownstown	Lindell Deal	Cisne silt loam	Oct. 9	30 Fall 70 Spring	June 2
Orr Center	Mike Vose	Clarksdale silt loam	Oct. 2	40 Fall 60 Spring	July 7
Urbana	Bob Dunker Mike Kleiss	Flanagan silt loam	Sept. 26	40 Fall 40 Spring	July 9
DeKalb	Lyle Paul Dave Lindgren	Drummer silty clay loam	Sept. 21	40 Fall 40 Spring	Abandoned

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 Table 10.

Participating Companies

We thank these companies for their support of this program in 2008.

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

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

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

Excel Brand Seed
Box 320
Camp Point, IL 62320
(800) 969-6717

Miles Farm Supply, LLC
PO Box 22879
Owensboro, KY 42304
(270) 926-2420

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

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

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

Bohl Bros.
7826 N 16000 E Rd
Grant Park, IL 60940
(815) 465-6922

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

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

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

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

Pioneer Hi-Bred International
14171 Carole Drive
Bloomington, IL 61704
(309) 821-9940

Brown Seed Enterprises, Inc.
289 Co. Rd. 550 N
Neoga, IL 62447
(217) 895-2335

Hartke Seed Farms
22679 Sunset Rd
Litchfield, IL 62056
(217) 324-2680

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

Cappel Certified Seeds
12629 Hwy 38 W
Rochelle, IL 61068
(815) 562-3978

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

UAP Distribution
1267 W. Washington
Pittsfield, IL 62363
(800) 533-8309

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

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

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

Table 1. Southern Illinois regional wheat variety trial results, 2008

Company	Variety	Regional Average			Dixon Springs	Belleville	Brownstown
		Yield bu/ac	Yield Rank 1 to 70	Test wt. lb/bu	Yield bu/ac	Yield bu/ac	Yield bu/ac
AgriPro COKER	BRANSON	81.3	25	58.6	72.5	87.4	84.1
AgriPro COKER	COOPER	80.7	31	59.3	81.9	78.3	82.0
AgriPro COKER	W1377	77.6	49	63.1	76.7	74.0	82.0
Beck's Hybrids	BECK 122	77.9	48	60.3	75.7	73.0	85.0
Beck's Hybrids	BECK 164	81.6	23	58.8	73.4	84.4	87.1
BioTown Seeds	Diener 496	85.5	9	57.4	81.3	82.0	93.2
BioTown Seeds	Diener 502	78.6	47	58.9	73.7	74.8	87.3
BioTown Seeds	Diener 511	81.0	28	58.1	74.7	85.0	83.2
BioTown Seeds	Diener XW 73	75.6	61	58.9	74.5	73.1	79.3
Brown Seed Enterprises	Arise 766	79.6	40	61.2	74.2	79.0	85.7
Brown Seed Enterprises	Arise 766 Cruiser	76.8	54	61.7	69.5	80.0	81.0
Brown Seed Enterprises	Arise 817	76.6	57	58.9	71.9	66.7	91.2
Brown Seed Enterprises	Arise 817 Cruiser	79.8	38	59.8	74.0	78.9	86.5
Brown Seed Enterprises	Arise 857	83.6	14	57.0	77.3	80.0	93.4
Brown Seed Enterprises	Arise 857 Cruiser	87.9	3	57.4	80.9	86.8	96.0
Brown Seed Enterprises	Arise 887	79.6	41	58.7	72.5	79.8	86.7
Brown Seed Enterprises	Arise 887 Cruiser	80.9	30	58.8	78.1	79.9	84.7
Brown Seed Enterprises	Arise X-21	79.5	42	60.7	73.5	70.9	94.0
Brown Seed Enterprises	Arise X-21 Cruiser	79.0	46	61.2	75.3	73.2	88.3
Coops Creek Acres	EXCEL 209	82.9	18	61.0	72.6	84.9	91.1
Coops Creek Acres	EXCEL 209 Cruiser	81.5	24	60.0	72.0	85.9	86.5
Coops Creek Acres	EXCEL 410 TW	80.3	34	60.6	72.4	77.1	91.5
Coops Creek Acres	EXCEL 410 TW Cruiser	81.0	29	60.9	75.8	76.8	90.2
Crop Production Services	Vigoro 9710	79.9	37	59.9	76.8	78.8	84.0
Crop Production Services	Vigoro 9712	76.6	55	59.6	68.7	73.3	87.9
Crop Production Services	Vigoro 9723	82.3	19	59.4	81.2	76.2	89.5
Crop Production Services	Vigoro 9812	80.0	36	58.9	79.4	75.4	85.1
EXCEL BRAND SEEDS	EXCEL 264	76.2	59	58.1	71.4	75.3	81.8
GROWMARK	FS 618	80.7	33	60.2	70.5	78.6	92.9
GROWMARK	FS 628	80.0	35	58.7	78.5	75.8	85.7
GROWMARK	FS 637	74.7	63	59.5	73.7	73.7	76.7
GROWMARK	FS 8309	71.6	69	57.6	53.7	78.6	82.5
GROWMARK	W08-01	81.8	22	58.3	74.5	84.3	86.5
Haas Seed House	EXCEL 343	79.3	45	59.6	68.8	71.3	97.7
Haas Seed House	EXCEL 343 Cruiser	82.0	21	60.0	74.6	76.4	95.1
Hartke Seed Farms	EXCEL 442	75.7	60	59.8	62.0	70.6	94.5
Hartke Seed Farms	EXCEL 442 Cruiser	81.2	27	59.8	71.6	78.5	93.6
Hoffman Seed House	EXCEL 180	83.3	15	62.4	79.8	80.3	89.9
Hoffman Seed House	EXCEL 180 Cruiser	86.6	7	62.4	75.6	86.9	97.4
Hoffman Seed House	EXCEL 367	83.8	13	59.8	81.9	83.2	86.2
Hoffman Seed House	EXCEL 367 Cruiser	83.0	17	60.3	76.0	88.5	84.5
Kitchen Seed Company	KSC 407W	81.3	26	60.5	73.1	79.0	91.7
Kitchen Seed Company	KSC 408W	77.1	52	59.6	64.6	70.1	96.7
Lewis Hybrids	Lewis 830	83.3	16	59.2	75.1	76.2	98.6
Lewis Hybrids	Lewis 858	80.7	32	60.7	79.5	79.7	82.9
Miles Farm Supply	Candace	79.4	43	58.7	78.3	74.3	85.4
Miles Farm Supply	Dinah	86.7	6	61.9	78.0	83.6	98.5
Miles Farm Supply	Hannah	76.6	56	60.2	74.3	71.5	84.1
Miller Bros Farm & Fertilizer	EXCEL 173	87.9	4	60.3	85.9	84.5	93.1
Miller Bros Farm & Fertilizer	EXCEL 173 Cruiser	88.3	2	60.9	82.6	83.9	98.5
Miller Bros Farm & Fertilizer	EXCEL 392 TW	75.1	62	59.3	71.1	73.5	80.7
MWS Seeds	MWS 135	84.9	11	58.8	84.0	74.8	96.0
MWS Seeds	MWS X7147	77.3	51	59.9	73.9	76.3	81.8
Pioneer Hi-Bred Int'l	Pioneer 25R47	90.4	1	58.3	89.3	85.1	96.8
Pioneer Hi-Bred Int'l	Pioneer 25R54	84.2	12	59.7	78.5	85.4	88.9
Pioneer Hi-Bred Int'l	Pioneer 25R56	79.4	44	58.8	73.9	77.8	86.3
Pioneer Hi-Bred Int'l	Pioneer 25R62	87.5	5	56.9	73.9	94.9	93.6
Public	Bess	72.6	68	61.0	65.2	70.9	81.7
Public	Ernie	73.4	66	59.1	70.0	70.2	80.0
Public	Kaskaskia	73.8	65	62.0	71.3	70.0	80.2
Public	McCormick	77.0	53	62.4	70.4	77.2	83.5
Public	Patterson	67.0	70	59.4	60.7	63.2	77.1
Public	Roane	74.3	64	62.7	71.1	78.9	72.9
Public	Sisson	77.5	50	58.2	68.5	74.3	89.6
Public	Truman	73.0	67	58.8	66.0	69.3	83.7
Public	VA03W-409	85.0	10	58.5	83.5	80.4	91.2
Steyer Seeds	EXP 701	86.5	8	57.3	79.9	86.1	93.5
Steyer Seeds	EXP 703	79.7	39	58.2	71.0	83.8	84.3
UAP Distribution	Dyna-Gro 404	82.1	20	59.0	77.9	73.4	95.1
UAP Distribution	Dyna-Gro 459	76.4	58	59.8	68.0	73.9	87.2
	Trial Meam	80.0		59.8	74.0	78.1	87.9
	LSD, 10%	6.4		1.4	7.7	4.5	7.5
	CV, %	10.2		2.9	7.7	4.3	6.4

Averaged over fourteen varieties in the Southern Region, Cruiser seed treatment increased yield by 0.9 bushels/acre.

Table 2. Northern Illinois regional wheat variety trial results, 2008

<u>Company</u>	<u>Variety</u>	<u>Regional Average</u>			<u>Perry</u>	<u>Urbana</u>
		<u>Yield</u> bu/ac	<u>Yield Rank</u> 1 to 57	<u>Test wt.</u> lb/bu	<u>Yield</u> bu/ac	<u>Yield</u> bu/ac
Agrinetics	EXCEL 343	81.5	49	57.5	82.1	80.9
Agrinetics	EXCEL 410 TW	85.6	32	58.3	83.6	87.6
Agrinetics	EXCEL 423	84.1	38	56.9	83.1	85.0
Agrinetics	EXCEL 442	89.7	13	57.6	81.2	98.2
AgriPro COKER	BRANSON	83.9	41	57.0	80.3	87.5
AgriPro COKER	COOPER	90.3	10	57.9	89.1	91.5
AgriPro COKER	W1377	80.7	51	61.0	82.3	79.0
Beck's Hybrids	BECK 117	85.3	34	58.2	83.4	87.1
Beck's Hybrids	BECK 122	90.3	11	57.5	89.0	91.5
Beck's Hybrids	BECK 164	86.9	25	57.5	83.5	90.3
Bohl Bros	EXCEL 357	86.3	26	58.6	84.9	87.8
Cappel Certified Seed	EXCEL 209	86.9	24	57.7	82.9	91.0
Cappel Certified Seed	EXCEL 352 TW	82.9	44	57.4	82.0	83.8
Crop Production Services	Vigoro 9712	90.4	9	57.9	89.2	91.6
Crop Production Services	Vigoro 9723	89.8	12	57.0	85.8	93.8
Crop Production Services	Vigoro 9812	88.3	17	57.1	87.2	89.5
DeRaedt Seed	DeRaedt 07	90.7	7	57.2	88.2	93.2
DeRaedt Seed	DeRaedt 88	84.1	39	58.6	82.6	85.6
DeRaedt Seed	DeRaedt 98	72.7	57	56.2	73.1	72.2
EXCEL BRAND SEEDS	EXCEL 264	86.2	29	57.9	80.2	92.1
Green Valley Seed	Willcross 736	87.6	21	57.6	83.9	91.2
Green Valley Seed	Willcross 748	89.6	14	57.1	89.2	90.0
GROWMARK	FS 618	83.9	42	58.0	82.8	85.1
GROWMARK	FS 628	87.4	23	57.4	84.6	90.1
GROWMARK	FS 637	85.5	33	57.8	80.5	90.5
GROWMARK	FS 8309	86.2	28	59.1	85.4	87.0
GROWMARK	W08-01	82.7	46	57.6	76.1	89.2
Kaltenberg Seeds	KW60	91.4	4	58.6	89.1	93.6
Kaltenberg Seeds	KW62	90.9	6	57.3	89.7	92.0
Kaltenberg Seeds	KW66	84.8	37	57.6	83.9	85.6
Kaltenberg Seeds	KW67	91.0	5	57.5	82.7	99.3
Kitchen Seed Company	KSC 407W	85.7	31	58.0	84.4	86.9
Kitchen Seed Company	KSC 408W	87.6	22	57.2	77.3	97.9
Lewis Hybrids	Lewis 830	92.4	3	57.3	90.7	94.1
Lewis Hybrids	Lewis 841	88.7	16	57.8	83.6	93.8
MWS Seeds	MWS 135	88.1	20	56.9	86.0	90.2
Pioneer Hi-Bred Int'l	Pioneer 25R47	95.0	2	56.5	87.9	102.1
Pioneer Hi-Bred Int'l	Pioneer 25R56	86.0	30	56.4	80.8	91.2
Pioneer Hi-Bred Int'l	Pioneer 25R62	99.6	1	54.1	93.5	105.7
Public	Bess	82.9	45	58.9	80.6	85.2
Public	Ernie	74.7	56	57.0	74.1	75.3
Public	Kaskaskia	79.1	53	59.7	77.0	81.2
Public	McCormick	81.9	48	60.3	82.3	81.6
Public	Patterson	76.6	55	57.7	71.3	81.8
Public	Roane	79.4	52	61.1	77.8	81.1
Public	Sisson	77.9	54	57.2	76.3	79.4
Public	Truman	82.2	47	59.2	79.4	84.9
Public	VA03W-409	88.2	18	56.7	88.5	87.9
UAP Distribution	Dyna-Gro 421	83.8	43	57.9	79.5	88.1
Wilken Seed Grains	Wilken W 103	90.5	8	57.4	87.7	93.2
Wilken Seed Grains	Wilken W 106	84.9	35	58.2	83.8	86.1
Wilken Seed Grains	Wilken W 110	88.1	19	58.5	86.3	89.9
Wilken Seed Grains	Wilken W 124	84.0	40	60.1	80.3	87.8
Wilken Seed Grains	Wilken W 130	81.5	50	58.4	82.0	80.9
Wilken Seed Grains	Wilken W 135	84.9	36	58.3	84.6	85.2
Wilken Seed Grains	Wilken W 161	89.0	15	57.3	81.3	96.7
Wilken Seed Grains	Wilken W 204	86.3	27	58.4	83.0	89.6
	Trial Meam	86.0		58.0	83.4	88.7
	LSD, 10%	6.0		1.1	4.8	5.2
	CV, %	7.2		1.9	4.3	4.3

Averaged over two varieties in the Northern Region, Cruiser seed treatment decreased yield by 0.6 bushels/acre.

Table 3. Results of the 2008 wheat variety trial at Dixon Springs, in far southeastern Illinois.

Company	Variety	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
			Rank 1 to 69			2006.08 bu/ac	2005-06.08 bu/ac
AgriPro COKER	BRANSON	72.5	45	58.9	34	73.7	77.7
AgriPro COKER	COOPER	81.9	6	57.7	36	77.2	79.1
AgriPro COKER	W1377	76.7	22	61.9	37		
Beck's Hybrids	BECK 122	75.7	25	58.5	39		
Beck's Hybrids	BECK 164	73.4	42	57.4	35		
BioTown Seeds	Diener 496	81.3	7	58.2	38		
BioTown Seeds	Diener 502	73.7	39	58.4	39		
BioTown Seeds	Diener 511	74.7	29	56.5	36		
BioTown Seeds	Diener XW 73	74.5	32	58.0	42		
Brown Seed Enterprises	Arise 766	74.2	34	60.8	34	70.5	74.3
Brown Seed Enterprises	Arise 766 Cruiser	69.5	59	60.7	35		
Brown Seed Enterprises	Arise 817	71.9	49	58.6	34		
Brown Seed Enterprises	Arise 817 Cruiser	74.0	35	59.3	35		
Brown Seed Enterprises	Arise 857	77.3	20	57.5	37		
Brown Seed Enterprises	Arise 857 Cruiser	80.9	9	57.6	38		
Brown Seed Enterprises	Arise 887	72.5	46	57.5	38		
Brown Seed Enterprises	Arise 887 Cruiser	78.1	17	57.5	38		
Brown Seed Enterprises	Arise X-21	73.5	41	59.5	36	73.9	76.2
Brown Seed Enterprises	Arise X-21 Cruiser	75.3	27	60.5	36		
Coops Creek Acres	EXCEL 209	72.6	44	60.0	38		
Coops Creek Acres	EXCEL 209 Cruiser	72.0	48	59.3	33		
Coops Creek Acres	EXCEL 410 TW	72.4	47	58.9	37	70.1	76.9
Coops Creek Acres	EXCEL 410 TW Cruiser	75.8	24	59.9	38		
Crop Production Services	Vigoro 9710	76.8	21	59.9	32		
Crop Production Services	Vigoro 9712	68.7	61	59.8	36		
Crop Production Services	Vigoro 9723	81.2	8	59.4	39		
Crop Production Services	Vigoro 9812	79.4	13	57.7	36		
EXCEL BRAND SEEDS	EXCEL 264	71.4	51	57.0	37		
GROWMARK	FS 618	70.5	56	60.0	39		
GROWMARK	FS 628	78.5	14	58.4	40		
GROWMARK	FS 637	73.7	40	58.7	37	73.3	
GROWMARK	FS 8309	53.7	69	51.5	37	54.9	62.1
GROWMARK	W08-01	74.5	31	57.0	36		
Haas Seed House	EXCEL 343	68.8	60	58.2	38		
Haas Seed House	EXCEL 343 Cruiser	74.6	30	58.8	39		
Hartke Seed Farms	EXCEL 442	62.0	67	58.5	40		
Hartke Seed Farms	EXCEL 442 Cruiser	71.6	50	58.8	42		
Hoffman Seed House	EXCEL 180	79.8	11	62.1	35		
Hoffman Seed House	EXCEL 180 Cruiser	75.6	26	62.7	37		
Hoffman Seed House	EXCEL 367	81.9	5	58.0	37		
Hoffman Seed House	EXCEL 367 Cruiser	76.0	23	59.4	35		
Kitchen Seed Company	KSC 407W	73.1	43	59.9	37		
Kitchen Seed Company	KSC 408W	64.6	66	58.2	40		
Lewis Hybrids	Lewis 830	75.1	28	58.4	39		
Lewis Hybrids	Lewis 858	79.5	12	58.8	38		
Miles Farm Supply	Candace	78.3	16	58.6	39		
Miles Farm Supply	Dinah	78.0	18	60.4	35		
Miles Farm Supply	Hannah	74.3	33	59.6	38		
Miller Bros Farm & Fertilizer	EXCEL 173	85.9	2	60.2	36	78.4	
Miller Bros Farm & Fertilizer	EXCEL 173 Cruiser	82.6	4	60.1	36		
Miller Bros Farm & Fertilizer	EXCEL 392 TW	71.1	53	57.1	41	68.8	73.6
MWS Seeds	MWS 135	84.0	3	58.4	39		
MWS Seeds	MWS X7147	73.9	37	58.7	40		
Pioneer Hi-Bred Int'l	Pioneer 25R47	89.3	1	57.0	36	83.5	86.8
Pioneer Hi-Bred Int'l	Pioneer 25R54	78.5	15	59.0	37	74.8	78.7
Pioneer Hi-Bred Int'l	Pioneer 25R56	73.9	36	59.0	34		
Pioneer Hi-Bred Int'l	Pioneer 25R62	73.9	38	56.2	35		
Public	Bess	65.2	65	58.9	37		
Public	Ernie	70.0	58	58.7	30	67.9	69.4
Public	Kaskaskia	71.3	52	61.1	41	69.3	76.1
Public	McCormick	70.4	57	60.8	35	64.8	69.4
Public	Patterson	60.7	68	58.8	37	55.6	60.7
Public	Roane	71.1	54	61.6	33	68.7	73.9
Public	Sisson	68.5	62	57.5	32	68.2	72.8
Public	Truman	66.0	64	53.8	41	60.0	64.9
Steyer Seeds	EXP 701	79.9	10	57.3	39		
Steyer Seeds	EXP 703	71.0	55	56.4	36		
UAP Distribution	Dyna-Gro 404	77.9	19	59.0	39		
UAP Distribution	Dyna-Gro 459	68.0	63	59.0	42		
	Trial Mean	74.0		58.8	37		
	LSD, 10%	7.7		1.3	2		
	CV, %	7.7		1.6	5		

Averaged over fourteen varieties in this location, Cruiser seed treatment increased yield by 0.3 bushels/acre.

Table 4. Results of the 2008 wheat variety trial at Belleville, in southwestern Illinois.

Company	Variety	Yield			2-yr avg 2007-08	3-yr avg 2006-08	
		Yield bu/ac	Rank 1 to 69	Test wt. lb/bu			Height in.
AgriPro COKER	BRANSON	87.4	3	59.4	35	77.7	73.3
AgriPro COKER	COOPER	78.3	34	60.1	38	72.4	70.9
AgriPro COKER	W1377	74.0	50	63.8	37	74.1	
Beck's Hybrids	BECK 122	73.0	58	61.2	38	69.5	
Beck's Hybrids	BECK 164	84.4	13	59.9	36		
BioTown Seeds	Diener 496	82.0	19	58.2	39		
BioTown Seeds	Diener 502	74.8	47	59.6	34		
BioTown Seeds	Diener 511	85.0	10	59.3	36		
BioTown Seeds	Diener XW 73	73.1	57	59.1	36		
Brown Seed Enterprises	Arise 766	79.0	27	62.1	36	70.8	68.3
Brown Seed Enterprises	Arise 766 Cruiser	80.0	21	63.0	37		
Brown Seed Enterprises	Arise 817	66.7	68	58.3	36	66.9	
Brown Seed Enterprises	Arise 817 Cruiser	78.9	28	60.2	38		
Brown Seed Enterprises	Arise 857	80.0	22	57.9	34	72.9	
Brown Seed Enterprises	Arise 857 Cruiser	86.8	5	58.6	39		
Brown Seed Enterprises	Arise 887	79.8	24	59.4	37	75.2	
Brown Seed Enterprises	Arise 887 Cruiser	79.9	23	59.7	35		
Brown Seed Enterprises	Arise X-21	70.9	61	61.4	36	67.8	67.8
Brown Seed Enterprises	Arise X-21 Cruiser	73.2	56	61.8	36		
Coops Creek Acres	EXCEL 209	84.9	11	62.3	36		
Coops Creek Acres	EXCEL 209 Cruiser	85.9	7	60.9	36		
Coops Creek Acres	EXCEL 410 TW	77.1	37	61.6	39	74.7	69.4
Coops Creek Acres	EXCEL 410 TW Cruiser	76.8	38	61.2	38	78.5	
Crop Production Services	Vigoro 9710	78.8	30	60.1	35	67.6	
Crop Production Services	Vigoro 9712	73.3	55	59.1	37	67.5	
Crop Production Services	Vigoro 9723	76.2	42	59.7	39	72.4	
Crop Production Services	Vigoro 9812	75.4	44	60.4	38		
EXCEL BRAND SEEDS	EXCEL 264	75.3	45	58.5	36		
GROWMARK	FS 618	78.6	32	60.6	37	66.7	
GROWMARK	FS 628	75.8	43	59.1	35	71.0	
GROWMARK	FS 637	73.7	52	60.2	36	62.6	64.2
GROWMARK	FS 8309	78.6	31	60.3	34		
GROWMARK	W08-01	84.3	14	58.9	38		
Haas Seed House	EXCEL 343	71.3	60	60.6	39	72.8	
Haas Seed House	EXCEL 343 Cruiser	76.4	39	60.7	35	78.5	
Hartke Seed Farms	EXCEL 442	70.6	63	61.2	37	74.5	
Hartke Seed Farms	EXCEL 442 Cruiser	78.5	33	61.2	37		
Hoffman Seed House	EXCEL 180	80.3	20	63.2	37		
Hoffman Seed House	EXCEL 180 Cruiser	86.9	4	62.7	37		
Hoffman Seed House	EXCEL 367	83.2	18	60.6	37		
Hoffman Seed House	EXCEL 367 Cruiser	88.5	2	61.2	36		
Kitchen Seed Company	KSC 407W	79.0	26	61.6	37	66.0	
Kitchen Seed Company	KSC 408W	70.1	65	60.0	38		
Lewis Hybrids	Lewis 830	76.2	41	60.0	36	72.5	
Lewis Hybrids	Lewis 858	79.7	25	61.2	37		
Miles Farm Supply	Candace	74.3	48	58.9	38		
Miles Farm Supply	Dinah	83.6	17	63.0	37	74.4	
Miles Farm Supply	Hannah	71.5	59	60.9	34		
Miller Bros Farm & Fertilizer	EXCEL 173	84.5	12	59.9	36	74.2	72.9
Miller Bros Farm & Fertilizer	EXCEL 173 Cruiser	83.9	15	61.9	38	77.7	
Miller Bros Farm & Fertilizer	EXCEL 392 TW	73.5	53	60.8	40	74.3	72.2
MWS Seeds	MWS 135	74.8	46	59.1	36	73.6	
MWS Seeds	MWS X7147	76.3	40	60.1	37		
Pioneer Hi-Bred Int'l	Pioneer 25R47	85.1	9	58.9	36	81.6	77.2
Pioneer Hi-Bred Int'l	Pioneer 25R54	85.4	8	60.7	37	78.8	79.7
Pioneer Hi-Bred Int'l	Pioneer 25R56	77.8	35	60.6	35	75.9	
Pioneer Hi-Bred Int'l	Pioneer 25R62	94.9	1	59.0	36		
Public	Bess	70.9	62	62.0	36	67.2	
Public	Ernie	70.2	64	59.7	37	63.1	57.1
Public	Kaskaskia	70.0	66	62.8	35	72.9	69.4
Public	McCormick	77.2	36	64.2	35	68.7	65.2
Public	Patterson	63.2	69	60.7	36	61.9	57.6
Public	Roane	78.9	29	63.1	35	75.5	73.7
Public	Sisson	74.3	49	58.2	34	63.5	62.7
Public	Truman	69.3	67	61.4	36	73.5	66.3
Steyer Seeds	EXP 701	86.1	6	58.9	36		
Steyer Seeds	EXP 703	83.8	16	59.4	35		
UAP Distribution	Dyna-Gro 404	73.4	54	59.3	37		
UAP Distribution	Dyna-Gro 459	73.9	51	60.9	39		
	Trial Mean	78.1		60.6	37		
	LSD, 10%	4.5		1.2	3		
	CV, %	4.3		1.5	6		

Averaged over fourteen varieties in this location, Cruiser seed treatment increased yield by 3.6 bushels/acre.

Table 5. Results of the 2008 wheat variety trial at Brownstown, in south central Illinois.

Company	Variety	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
			Rank 1 to 69			2007-08 bu/ac	2006-08 bu/ac
AgriPro COKER	BRANSON	84.1	49	57.6	38	78.8	74.7
AgriPro COKER	COOPER	82.0	57	60.1	40	77.5	73.2
AgriPro COKER	W1377	82.0	58	63.5	42	82.1	
Beck's Hybrids	BECK 122	85.0	45	61.3	40	86.7	
Beck's Hybrids	BECK 164	87.1	34	59.0	40		
BioTown Seeds	Diener 496	93.2	18	55.9	40		
BioTown Seeds	Diener 502	87.3	32	58.8	40		
BioTown Seeds	Diener 511	83.2	54	58.5	40		
BioTown Seeds	Diener XW 73	79.3	66	59.6	43		
Brown Seed Enterprises	Arise 766	85.7	41	60.8	38	81.6	80.9
Brown Seed Enterprises	Arise 766 Cruiser	81.0	62	61.3	37		
Brown Seed Enterprises	Arise 817	91.2	23	59.7	39	86.2	
Brown Seed Enterprises	Arise 817 Cruiser	86.5	36	60.1	38		
Brown Seed Enterprises	Arise 857	93.4	17	55.5	40	90.6	
Brown Seed Enterprises	Arise 857 Cruiser	96.0	8	56.0	40		
Brown Seed Enterprises	Arise 887	86.7	35	59.0	40	83.2	
Brown Seed Enterprises	Arise 887 Cruiser	84.7	46	59.3	39		
Brown Seed Enterprises	Arise X-21	94.0	13	61.1	39	87.5	77.0
Brown Seed Enterprises	Arise X-21 Cruiser	88.3	30	61.1	38		
Coops Creek Acres	EXCEL 209	91.1	24	60.6	32		
Coops Creek Acres	EXCEL 209 Cruiser	86.5	37	60.0	38		
Coops Creek Acres	EXCEL 410 TW	91.5	22	61.1	42	88.0	76.2
Coops Creek Acres	EXCEL 410 TW Cruiser	90.2	25	61.7	41	91.6	
Crop Production Services	Vigoro 9710	84.0	51	59.6	33	80.0	
Crop Production Services	Vigoro 9712	87.9	31	59.8	39	78.8	
Crop Production Services	Vigoro 9723	89.5	28	59.1	42	85.3	
Crop Production Services	Vigoro 9812	85.1	44	58.4	40		
EXCEL BRAND SEEDS	EXCEL 264	81.8	59	58.9	40		
GROWMARK	FS 618	92.9	20	60.2	40	84.8	
GROWMARK	FS 628	85.7	42	58.6	42	85.3	
GROWMARK	FS 637	76.7	68	59.5	39	75.5	71.7
GROWMARK	FS 8309	82.5	56	61.1	43		
GROWMARK	W08-01	86.5	38	58.9	40		
Haas Seed House	EXCEL 343	97.7	4	59.9	40	88.7	
Haas Seed House	EXCEL 343 Cruiser	95.1	10	60.5	39	94.8	
Hartke Seed Farms	EXCEL 442	94.5	12	59.8	44	88.9	
Hartke Seed Farms	EXCEL 442 Cruiser	93.6	15	59.5	43		
Hoffman Seed House	EXCEL 180	89.9	26	61.8	39		
Hoffman Seed House	EXCEL 180 Cruiser	97.4	5	61.8	39		
Hoffman Seed House	EXCEL 367	86.2	40	60.7	40		
Hoffman Seed House	EXCEL 367 Cruiser	84.5	47	60.4	38		
Kitchen Seed Company	KSC 407W	91.7	21	60.0	39	83.1	
Kitchen Seed Company	KSC 408W	96.7	7	60.6	42		
Lewis Hybrids	Lewis 830	98.6	1	59.3	42	93.4	
Lewis Hybrids	Lewis 858	82.9	55	62.1	41		
Miles Farm Supply	Candace	85.4	43	58.5	40		
Miles Farm Supply	Dinah	98.5	3	62.1	39	87.8	
Miles Farm Supply	Hannah	84.1	50	59.9	40		
Miller Bros Farm & Fertilizer	EXCEL 173	93.1	19	60.8	39	85.3	83.4
Miller Bros Farm & Fertilizer	EXCEL 173 Cruiser	98.5	2	60.5	39	95.4	
Miller Bros Farm & Fertilizer	EXCEL 392 TW	80.7	63	59.9	43	76.8	71.6
MWS Seeds	MWS 135	96.0	9	58.7	41	91.8	
MWS Seeds	MWS X7147	81.8	60	61.0	42		
Pioneer Hi-Bred Int'l	Pioneer 25R47	96.8	6	59.0	39	92.7	85.4
Pioneer Hi-Bred Int'l	Pioneer 25R54	88.9	29	59.3	40	83.1	84.7
Pioneer Hi-Bred Int'l	Pioneer 25R56	86.3	39	56.8	39	87.0	
Pioneer Hi-Bred Int'l	Pioneer 25R62	93.6	14	55.3	38		
Public	Bess	81.7	61	62.0	40	77.7	
Public	Ernie	80.0	65	58.7	36	75.1	70.4
Public	Kaskaskia	80.2	64	62.1	43	83.0	72.9
Public	McCormick	83.5	53	62.3	36	76.7	71.7
Public	Patterson	77.1	67	58.7	40	75.3	65.5
Public	Roane	72.9	69	63.4	38	75.6	68.2
Public	Sisson	89.6	27	58.8	36	74.8	75.1
Public	Truman	83.7	52	61.4	42	78.5	71.7
Steyer Seeds	EXP 701	93.5	16	55.6	40		
Steyer Seeds	EXP 703	84.3	48	58.7	39		
UAP Distribution	Dyna-Gro 404	95.1	11	58.7	42		
UAP Distribution	Dyna-Gro 459	87.2	33	59.5	44		
	Trial Mean	87.9		59.9	40		
	LSD, 10%	7.5		1.0	4		
	CV, %	6.4		1.3	7		

Averaged over fourteen varieties in this location, Cruiser seed treatment decreased yield by 0.9 bushels/acre.

Table 6. Results of the 2008 wheat variety trial at Perry, in western 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 56			lb/bu	in.
Agrinetics	EXCEL 343	82.1	36	58.6	41	79.4	
Agrinetics	EXCEL 410 TW	83.6	24	59.4	42		
Agrinetics	EXCEL 423	83.1	28	57.1	39	84.7	
Agrinetics	EXCEL 442	81.2	40	57.9	43		
AgriPro COKER	BRANSON	80.3	44	57.2	40	81.1	80.2
AgriPro COKER	COOPER	89.1	7	59.2	38	81.5	81.4
AgriPro COKER	W1377	82.3	34	61.5	42	88.7	
Beck's Hybrids	BECK 117	83.4	27	58.8	40		
Beck's Hybrids	BECK 122	89.0	8	57.5	43		
Beck's Hybrids	BECK 164	83.5	26	58.0	41		
Bohl Bros	EXCEL 357	84.9	17	59.4	42		
Cappel Certified Seed	EXCEL 209	82.9	30	57.1	40		
Cappel Certified Seed	EXCEL 352 TW	82.0	38	57.8	42		
Crop Production Services	Vigoro 9712	89.2	5	58.0	40	80.5	
Crop Production Services	Vigoro 9723	85.8	15	57.4	43	82.2	
Crop Production Services	Vigoro 9812	87.2	12	57.8	40		
DeRaedt Seed	DeRaedt 07	88.2	9	57.3	41		
DeRaedt Seed	DeRaedt 88	82.6	33	58.8	41	80.6	78.3
DeRaedt Seed	DeRaedt 98	73.1	55	57.7	42	72.4	69.4
EXCEL BRAND SEEDS	EXCEL 264	80.2	46	58.9	40		
Green Valley Seed	Willcross 736	83.9	21	58.1	41	80.0	
Green Valley Seed	Willcross 748	89.2	4	57.1	43		
GROWMARK	FS 618	82.8	31	58.5	44		
GROWMARK	FS 628	84.6	18	57.6	40	84.2	
GROWMARK	FS 637	80.5	43	58.0	42	78.6	80.4
GROWMARK	FS 8309	85.4	16	60.1	41	76.5	77.6
GROWMARK	W08-01	76.1	53	57.2	41		
Kaltenberg Seeds	KW60	89.1	6	59.3	41		
Kaltenberg Seeds	KW62	89.7	3	57.1	43	85.0	
Kaltenberg Seeds	KW66	83.9	22	57.0	40		
Kaltenberg Seeds	KW67	82.7	32	58.2	43		
Kitchen Seed Company	KSC 407W	84.4	20	58.5	42	74.9	
Kitchen Seed Company	KSC 408W	77.3	50	58.0	44		
Lewis Hybrids	Lewis 830	90.7	2	58.0	42	86.1	
Lewis Hybrids	Lewis 841	83.6	25	58.0	39	79.0	81.8
MWS Seeds	MWS 135	86.0	14	56.9	40	85.7	
Pioneer Hi-Bred Int'l	Pioneer 25R47	87.9	10	56.3	40	84.0	84.1
Pioneer Hi-Bred Int'l	Pioneer 25R56	80.8	41	56.3	37	84.0	
Pioneer Hi-Bred Int'l	Pioneer 25R62	93.5	1	53.8	39		
Public	Bess	80.6	42	59.2	42	73.4	
Public	Ernie	74.1	54	57.0	39	64.4	67.1
Public	Kaskaskia	77.0	51	60.4	43	80.6	76.9
Public	McCormick	82.3	35	61.2	37	70.4	72.0
Public	Patterson	71.3	56	57.7	41	68.7	69.0
Public	Roane	77.8	49	61.3	40	77.0	76.0
Public	Sisson	76.3	52	57.2	40	67.6	71.9
Public	Truman	79.4	48	59.9	42	76.1	76.1
UAP Distribution	Dyna-Gro 421	79.5	47	58.5	41	75.1	77.3
Wilken Seed Grains	Wilken W 103	87.7	11	57.1	45		
Wilken Seed Grains	Wilken W 106	83.8	23	58.8	42	77.3	76.1
Wilken Seed Grains	Wilken W 110	86.3	13	59.4	43	81.8	81.8
Wilken Seed Grains	Wilken W 124	80.3	45	60.7	42	78.6	74.9
Wilken Seed Grains	Wilken W 130	82.0	37	58.9	39	78.7	78.2
Wilken Seed Grains	Wilken W 135	84.6	19	58.6	42	82.0	77.9
Wilken Seed Grains	Wilken W 161	81.3	39	58.4	41		
Wilken Seed Grains	Wilken W 204	83.0	29	59.0	43	74.2	75.5
	Trial Mean	83.4		58.4	41		
	LSD, 10%	4.8		1.0	3		
	CV, %	4.3		1.3	5		

Averaged over two varieties in this location, Cruiser seed treatment increased yield by 3.3 bushels/acre.

Table 7. Results of the 2008 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 56	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2-yr avg</u> <u>2007-08</u> bu/ac	<u>3-yr avg</u> <u>2006-08</u> bu/ac
AgriPro COKER	BRANSON	87.5	34	56.8	38	78.2	88.1
AgriPro COKER	COOPER	91.5	16	56.7	36	80.2	87.8
AgriPro COKER	W1377	79.0	54	60.4	39	79.7	
Beck's Hybrids	BECK 117	87.1	35	57.5	38		
Beck's Hybrids	BECK 122	91.5	17	57.5	41		
Beck's Hybrids	BECK 164	90.3	22	56.9	39		
Bohl Bros	EXCEL 357	87.8	32	57.7	41		
Cappel Certified Seed	EXCEL 209	91.0	20	58.2	39		
Cappel Certified Seed	EXCEL 352 TW	83.8	46	57.0	39		
Crop Production Services	Vigoro 9712	91.6	15	57.8	37	73.5	
Crop Production Services	Vigoro 9723	93.8	8	56.6	42	82.2	
Crop Production Services	Vigoro 9812	89.5	28	56.4	37		
DeRaedt Seed	DeRaedt 07	93.2	11	57.0	36		
DeRaedt Seed	DeRaedt 88	85.6	39	58.3	40	75.9	82.0
DeRaedt Seed	DeRaedt 98	72.2	56	54.7	45	66.0	75.1
EXCEL BRAND SEEDS	EXCEL 264	92.1	13	56.9	41		
Green Valley Seed	Willcross 736	91.2	18	57.0	38	85.4	
Green Valley Seed	Willcross 748	90.0	25	57.1	43		
GROWMARK	FS 618	85.1	43	57.5	42		
GROWMARK	FS 628	90.1	24	57.2	41	77.1	
GROWMARK	FS 637	90.5	21	57.7	39	80.4	88.3
GROWMARK	FS 8309	87.0	36	58.0	41	75.2	84.0
GROWMARK	W08-01	89.2	29	58.0	39		
Kaltenberg Seeds	KW60	93.6	10	57.9	39		
Kaltenberg Seeds	KW62	92.0	14	57.4	41	80.9	
Kaltenberg Seeds	KW66	85.6	40	58.2	41		
Kaltenberg Seeds	KW67	99.3	3	56.8	45		
Kitchen Seed Company	KSC 407W	86.9	37	57.4	41	67.7	
Kitchen Seed Company	KSC 408W	97.9	5	56.4	44		
Lewis Hybrids	Lewis 830	94.1	7	56.6	42	82.9	
Lewis Hybrids	Lewis 841	93.8	9	57.7	37	81.0	88.9
MWS Seeds	MWS 135	90.2	23	56.9	42	83.9	
Pioneer Hi-Bred Int'l	Pioneer 25R47	102.1	2	56.8	37	87.1	92.0
Pioneer Hi-Bred Int'l	Pioneer 25R56	91.2	19	56.6	38	85.8	
Pioneer Hi-Bred Int'l	Pioneer 25R62	105.7	1	54.5	36		
Public	Bess	85.2	42	58.5	41	64.0	
Public	Ernie	75.3	55	57.0	34	57.7	69.9
Public	Kaskaskia	81.2	49	59.0	43	77.3	81.8
Public	McCormick	81.6	48	59.3	33	67.8	75.5
Public	Patterson	81.8	47	57.8	40	70.2	76.4
Public	Roane	81.1	50	60.8	37	77.4	83.0
Public	Sisson	79.4	53	57.1	32	64.1	71.9
Public	Truman	84.9	45	58.5	42	70.1	77.7
UAP Distribution	Dyna-Gro 421	88.1	30	57.2	35	70.8	74.6
Wilken Seed Grains	Wilken W 103	93.2	12	57.6	41		
Wilken Seed Grains	Wilken W 106	86.1	38	57.7	40	72.5	80.8
Wilken Seed Grains	Wilken W 110	89.9	26	57.6	39	80.3	
Wilken Seed Grains	Wilken W 124	87.8	31	59.5	41	81.0	86.2
Wilken Seed Grains	Wilken W 130	80.9	52	58.0	34	66.6	73.0
Wilken Seed Grains	Wilken W 135	85.2	41	57.9	40	75.8	83.9
Wilken Seed Grains	Wilken W 161	96.7	6	56.1	43		
Wilken Seed Grains	Wilken W 204	89.6	27	57.7	42	76.5	84.8
	Trial Mean	88.7		57.6	39		
	LSD, 10%	5.2		0.9	2		
	CV, %	4.3		1.1	4		

Averaged over two varieties in this location, Cruiser seed treatment decreased yield by 2.1 bushels/acre.

Table 8. Results of the 2007 wheat variety trial at DeKalb, in north central Illinois.
THE 2008 TRIAL WAS ABANDONED DUE TO WINTER INJURY, SO THIS IS A RERUN OF THE 2007 DATA.

Company	Variety	Yield		Test wt.	Height	2-yr avg 3-yr avg	
		Yield bu/ac	Rank 1 to 56			2006-07 bu/ac	2005-07 bu/ac
AgriPro COKER	Branson	71.4	26	61.0	32.0	81.9	
AgriPro COKER	COKER 9511	56.9	47	63.5	28.7	68.2	
AgriPro COKER	Cooper	71.6	25	61.4	31.0	87.5	87.3
AgriPro COKER	W1377	82.1	3	63.3	35.0		
CPS-Vigoro Seeds	Vigoro 9611	74.9	19	60.6	32.7	83.4	
CPS-Vigoro Seeds	Vigoro 9712	63.8	35	61.6	32.3		
CPS-Vigoro Seeds	Vigoro 9723	74.0	22	60.5	36.0		
DeRaedt Seed	DeRaedt 88	65.4	32	62.1	34.7	79.2	80.8
DeRaedt Seed	DeRaedt 98	57.0	46	59.5	34.0	79.2	
Excel Brand Seed	EXCEL 307	61.7	39	61.4	35.3	79.1	80.2
Excel Brand Seed	EXCEL 341	69.2	31	62.0	35.0		
Excel Brand Seed	EXCEL 343	73.2	24	62.1	33.0		
Excel Brand Seed	EXCEL 399	69.5	30	62.0	34.7	81.3	81.3
Excel Brand Seed	EXCEL 423	75.0	18	62.5	31.0		
Green Valley Seed	Willcross 733	61.2	42	61.6	35.7	76.9	76.5
Green Valley Seed	Willcross 736	80.9	6	61.0	32.0		
GROWMARK	FS 628	79.6	8	60.2	35.3		
GROWMARK	FS 634	61.3	40	61.6	37.0	77.7	79.7
GROWMARK	FS 637	75.2	17	60.9	32.0	86.4	
GROWMARK	FS 645	79.8	7	64.3	32.0	86.4	
GROWMARK	FS 8309	59.5	43	61.4	29.7	77.2	79.9
JGL	Exp 701	78.7	9	59.2	34.7		
JGL	Exp 702	78.6	10	60.5	30.7		
JGL	Exp 703	54.6	50	58.9	31.0		
Kaltenberg Seeds	KW53	81.6	4	60.6	32.3		
Kaltenberg Seeds	KW62	77.4	12	60.7	35.7		
Kaltenberg Seeds	KW63	76.5	15	61.9	32.3		
Kitchen Seed Company	KSC 406W	57.7	44	61.5	34.0		
Kitchen Seed Company	KSC 407W	55.9	49	61.6	33.7		
Lewis Hybrids	LEWIS 830	77.9	11	60.8	37.7		
Lewis Hybrids	LEWIS 841	73.7	23	61.5	31.0	86.2	
MWS Seeds	EXCEL 173*	47.6	55	60.2	30.7		
MWS Seeds	MWS 128	76.7	14	61.0	31.7		
MWS Seeds	MWS 135	81.1	5	60.9	37.3		
Pioneer Hi-Bred Int'l	Pioneer 25R47	77.2	13	60.3	30.3	91.1	96.7
Pioneer Hi-Bred Int'l	Pioneer 25R54	63.3	37	61.2	28.0		
Pioneer Hi-Bred Int'l	Pioneer 25R56	86.7	1	61.8	31.0		
Pioneer Hi-Bred Int'l	Pioneer 25R63	64.5	34	60.5	31.3		
Public	Bess*	56.2	48	61.9	30.0		
Public	Ernie*	48.5	54	60.7	29.3	59.0	
Public	Kaskaskia	82.3	2	63.8	40.0	87.4	88.6
Public	Madison*	51.6	53	60.5	31.3	69.2	70.0
Public	McCormick	44.6	56	61.2	27.3	65.8	70.9
Public	Patterson	62.1	38	61.6	35.3	65.2	70.0
Public	Roane	75.9	16	63.7	30.7	84.2	85.6
Public	Sisson*	57.4	45	60.3	28.0	71.4	71.8
Public	Truman*	52.2	52	59.8	28.7	76.7	77.5
UAP Distribution	Dyna-Gro 415	63.6	36	62.1	35.7	79.1	80.3
UAP Distribution	Dyna-Gro 421	74.3	20	61.9	32.3	81.1	
Wilken Seed Grains	Wilken W 102	53.4	51	61.3	34.7	70.1	72.1
Wilken Seed Grains	Wilken W 106	65.3	33	62.3	36.7	81.3	80.1
Wilken Seed Grains	Wilken W 110	71.3	27	62.6	32.7		
Wilken Seed Grains	Wilken W 124	70.8	28	63.6	35.3	82.7	81.4
Wilken Seed Grains	Wilken W 130	74.1	21	62.2	30.7	81.7	
Wilken Seed Grains	Wilken W 135	70.4	29	62.6	35.3	82.0	83.6
Wilken Seed Grains	Wilken W 204	61.2	41	61.4	36.3	77.3	78.9
	Trial Mean	69.0		61.6	33.1		
	LSD, 10%	4.7		0.8	1.8		
	CV, %	6.4		1.3	5.1		

Averaged over four varieties in this location, Gaucho seed treated decreased yield by 3.4 bushels/acre.

*Low yields of these varieties were partly related to winter injury.

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>
Agrinetics Inc.	EXCEL 410 TW	V	M	S	E	M	VG	MR	R	MR
	EXCEL 423	V	M	S	E	M	VG	MR	MR	MR
	EXCEL 343	V	M	S	E	M	E	I	MR	MR
	EXCEL 442	V	M	B	E	MT	VG	I	R	MR
Agripro COKER	BRANSON	V	ME	S	G	M	G	MR	MS	MR
	COOPER	V	M	S	G	M	E	S	MR	MR
	W1377	V	ML	S	G	M	E		MR	MR
Beck's Hybrids	117	V	ME	T	E	M	VG	MR	MR	MR
	122	V	ME	S	VG	T	VG	MR	MR	MR
	164	V	ML	S	E	M	VE	MR	MR	MR
Bohl Bros	EXCEL 357	V	M	S	E	M	VG	I	MR	MR
BioTown Seeds	Diener 496W	V	ME	S	E	M	VG	MR	I	MR
	Diener 502W	V	M	S	VG	M	VG	MR	I	I
	Diener 511W	V	M	S	E	M	VG	MR	MR	MR
Brown Seed Enterprises Inc	ARISE 766	V	E	T	VG	M	VG	MS	R	MR
	ARISE 817	V	ME	T	VG	S	E	MS	I	MR
	ARISE 857	V	ME	T	E	M	E	MS	R	MR
	ARISE 887	V	M	T	VG	T	VG	MS	I	I
	ARISE X-21	V	ME	T	VG	M	VG	MS	R	MS
Cappel Certified Seeds	EXCEL 352TW	V	M	S	E	M	VG	MR	MR	MR
	EXCEL 209	V	ME	S	E	M	VG	I	MR	MR
Coops Creek Acres	EXCEL 410TW	V	M	S	E	M	VG	MR	R	MR
	EXCEL 209	V	ME	S	E	M	VG	I	MR	MR
Crop Production Services	V9710	V	E	S	VG	M	E		MR	MS
	V9712	V	ME	S	VG	MS	VG		MR	MR
	V9723	V	M	S	E	MT	VG		MR	I
	V9812	V	ME	S	VG	M	E		MR	MR
DeRaedt Seed Corp	07	V	ME	T	VG	MT	M	S	S	MR
	88	V	M	T	E	MT	VG		MR	I
	98	V	ML	T	E	T	VG		MR	MR
Excel Brand Seeds	EXCEL 264	V	ME	B	VG	S	I		G	VG
Green Valley Seed	Willcross 736	V	ME	S	E	M	E	I	R	MR
	Willcross 748	V	ME	S	E	M	E	I	MR	MR
GROWMARK Inc.	FS 618	V	E	S	G	M	VG	S	R	R
	FS 628	V	ME	S	E	T	NG	S	I	I
	FS 637	V	ME	S	VG	M	E	S	R	R
	FS 8309	V	ML	S	E	M	E	S	R	I
	W08-01	V	ML	S	E	MT	VG		R	I
Haas Seed House	EXCEL 343	V	M	S	E	M	E	I	MR	MR
Hartke Seed Farms	EXCEL 442	V	M	B	E	MT	VG	I	R	MR
Hoffman Seed House Inc.	EXCEL 180	V	E	S	VG	M	VG	I	R	MR
	EXCEL 367	V	M	S	E	M	VG	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>Stand-ability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Sept-oria</u>
Kaltenberg Seed	KW 66	V	M	S	VG	MT	VG		MR	MR
	KW 67	V	ML	B	E	T	VG		R	MR
	KW 62	V	M	S	E	MT	E		MR	MR
	KW 60	V	ML	S	E	T	E		MR	MR
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
Lewis Hybrids	830	V	E	S	E	MT	G	I	I	I
	841	V	ME	S	E	M	E	I	MR	MR
	858	V	M	S	G	M	G	I	I	MR
Miller Bros. Farm & Fertilizer	EXCEL 392TW	V	M	S	VG	M	VG	MR	R	MR
	EXCEL 173	V	E	S	G	M	G	I	R	R
MWS Seeds LLC	MWS 135	V	M	S	VG	M	E	MR	MR	MR
	MWS X7147	V	M	S	VG	MT	VG		MR	R
Pioneer Hi-Bred Int'l, Inc.	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
Public	Bess	V	ME	T	G	M	G	S	S	I
	Ernie	V	E	T	VG	S	VG	MS	MR	MR
	Kaskaskia	V	M	B	VG	MT	VG	S	MR	MR
	Madison	V	M	T	G	M	G	MS	MR	MR
	McCormick	V	ML	T	VG	S	VG	ND	ND	ND
	Patterson	V	ME	S	E	M	VG	R	MR	ND
	Roane	V	ML	S	VG	S	VG	MR	MS	MR
	Sisson	V	M	T	G	M	G	S	MS	MR
Truman	V	L	T	VG	MT	G	S	MR	MR	
Steyer Seeds	EXP 703	V	M	S	E	M	E	MR	MR	MR
	EXP 701	V	M	S	E	M	E	MR	MR	MR
UAP Distribution	Dyna Gro 421	V	M	S	VG	M	VG	I	MR	MR
	Dyna Gro 404	V	ME	S	E	MT	E	MR	MR	MR
	Dyna Gro 459	V	ML	B	E	M	E	MR	MR	MR
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 124	V	ML	B	E	M	VG	M	I	MR
	Wilken 130	V	ME	S	E	M	VG	M	MR	MR
	Wilken 135	V	M	S	E	M	VG	M	MR	MR
	Wilken 204	V	ML	S	E	M	VG	M	MR	MR
	Wilken 161	V	ML	B	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. 2007-2008 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	2008					2007					
		Incidence	Severity	Kernel Rating	FHB Index	ISK Index	Incidence	Severity	Kernel Rating	FHB Index	ISK Index	DON
		(%)	(%)	(%) FDK	(0-100)	(0-100)	(%)	(%)	(%) FDK	(0-100)	(0-100)	(ppm)
AgriPro COKER	Branson	98.3	62.9	57	61.9	71.0	50.0	49.3	30	26.4	41.8	1.4
AgriPro COKER	Cooper	96.7	56.7	80	55.1	78.0	95.0	68.8	63	65.1	74.4	2.2
AgriPro COKER	W1377	95.0	56.2	43	52.6	62.7	--	--	--	--	--	--
Beck's Hybrids	Beck 117	86.7	60.5	37	52.7	58.8	--	--	--	--	--	--
Beck's Hybrids	Beck 122	96.7	84.1	57	81.2	76.9	--	--	--	--	--	--
Beck's Hybrids	Beck 164	95.0	75.5	75	71.7	81.1	--	--	--	--	--	--
Brown Seed Enterprises	Arise 766	85.0	49.6	30	43.5	52.4	--	--	--	--	--	--
Brown Seed Enterprises	Arise 817	100.0	51.7	70	51.7	73.5	--	--	--	--	--	--
Brown Seed Enterprises	Arise 857	98.3	84.1	83	82.4	88.1	--	--	--	--	--	--
Brown Seed Enterprises	Arise 887	96.7	66.9	60	64.5	73.0	--	--	--	--	--	--
CPS-Vigoro Seeds	Vigoro 9710	95.0	35.3	37	33.6	53.8	--	--	--	--	--	--
CPS-Vigoro Seeds	Vigoro 9723	88.3	59.8	50	53.4	64.4	--	--	--	--	--	--
CPS-Vigoro Seeds	Vigoro 9812	95.0	78.3	67	74.4	78.7	--	--	--	--	--	--
DeRaedt Seed	DeRaedt 07	88.3	57.8	50	50.0	63.8	--	--	--	--	--	--
DeRaedt Seed	DeRaedt 88	95.0	57.4	43	55.2	63.0	--	--	--	--	--	--
Diener Seeds, Inc.	Diener 496	98.3	80.6	77	79.1	84.3	--	--	--	--	--	--
Diener Seeds, Inc.	Diener 502	95.0	72.6	57	69.0	73.0	--	--	--	--	--	--
Diener Seeds, Inc.	Diener 511	90.0	42.4	60	38.3	63.7	--	--	--	--	--	--
Excel Brand Seed	Excel 173	98.3	39.0	35	38.1	55.2	--	--	20	--	--	1.2
Excel Brand Seed	EXCEL 180	76.7	35.2	30	28.4	45.6	--	--	--	--	--	--
Excel Brand Seed	EXCEL 209	75.0	31.1	27	23.4	42.5	--	--	--	--	--	--
Excel Brand Seed	EXCEL 264	96.7	49.3	70	47.7	71.8	--	--	--	--	--	--
Excel Brand Seed	Excel 343	91.7	39.7	50	36.2	59.4	53.3	46.1	17	25.3	36.5	1.0
Excel Brand Seed	EXCEL 352 TW	80.0	61.1	50	49.0	62.3	--	--	--	--	--	--
Excel Brand Seed	EXCEL 357	91.7	38.8	33	35.4	52.5	--	--	--	--	--	--
Excel Brand Seed	EXCEL 367	86.7	37.4	37	33.4	51.9	--	--	--	--	--	--
Excel Brand Seed	Excel 392 TW	100.0	82.7	63	82.7	80.2	46.7	62.9	27	31.7	43.5	0.9
Excel Brand Seed	Excel 410 tw	86.7	50.5	37	44.3	55.8	50.0	58.2	18	29.6	39.8	0.6
Excel Brand Seed	Excel 423	98.3	76.1	67	74.9	79.0	90.0	45.3	43	41.6	57.9	1.1
Excel Brand Seed	Excel 442	91.7	49.6	27	45.3	53.1	50.0	60.5	20	29.3	41.1	3.4
GROWMARK	FS 618	96.7	48.4	43	47.2	60.9	60.0	66.3	27	40.3	48.6	0.8
GROWMARK	FS 628	98.3	68.9	70	67.6	78.2	70.0	56.9	57	38.9	60.7	2.0
GROWMARK	W08-01	98.3	78.3	73	77.2	82.3	--	--	--	--	--	--
Kitchen Seed Company	KSC 408W	93.3	77.5	37	72.4	65.9	--	--	--	--	--	--
Lewis Hybrids	Lewis 830	91.7	68.0	70	63.8	75.9	--	--	--	--	--	--
Lewis Hybrids	Lewis 841	96.7	81.9	73	79.3	82.9	--	--	--	--	--	--
Lewis Hybrids	Lewis 858	98.3	88.3	67	86.9	82.6	--	--	--	--	--	--
MWS Seed	MWS 135	86.7	68.0	70	59.3	74.4	--	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R47	96.7	48.1	73	47.3	72.8	63.3	46.4	60	29.3	56.9	3.2
Pioneer Hi-Bred Int'l	Pio 25R54	98.3	66.1	50	64.6	69.3	56.7	35.2	27	20.1	38.2	4.2
Pioneer Hi-Bred Int'l	Pio 25R56	81.7	72.1	47	58.6	64.8	23.3	39.1	33	9.6	32.1	3.8
Pioneer Hi-Bred Int'l	Pio 25R62	96.7	67.9	43	65.5	66.7	--	--	--	--	--	--
Public	Bess	90.0	31.9	37	28.2	51.2	70.0	46.3	28	32.4	45.9	2.2
Public	Ernie	91.7	43.8	23	40.0	50.0	90.0	54.8	33	49.3	57.4	3.0
Public	Kaskaskia	98.3	63.9	50	63.0	68.7	36.7	36.9	33	13.5	35.4	1.9
Public	McCormick	93.3	53.6	33	48.9	57.4	92.5	59.4	50	55.2	65.6	3.0
Public	Patterson	88.3	64.1	43	57.4	63.1	50.0	60.0	30	34.0	45.0	1.5
Public	Roane	90.0	34.1	40	30.2	53.2	63.3	41.6	17	28.6	38.2	1.5
Public	Sisson	100.0	52.8	73	52.8	75.2	86.7	64.0	50	55.4	65.2	4.6
Public	Truman	95.0	22.2	38	21.1	50.2	40.0	17.3	13	7.0	19.2	1.3
University of Illinois	94-1653	91.7	54.6	37	49.6	58.5	63.3	60.5	40	38.2	53.2	2.0
UAP Distribution	Dyna-Gro 404	93.3	77.3	70	72.2	79.2	--	--	--	--	--	--
UAP Distribution	Dyna-Gro 459	88.3	62.5	30	56.0	57.2	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 103	85.0	54.8	67	47.2	68.6	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 110	88.3	61.3	43	55.1	62.2	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 124	93.3	38.5	33	36.0	52.9	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 135	88.3	52.6	37	46.8	56.9	--	--	--	--	--	--
Wilkin Seed Grains	Wilken W 161	83.3	51.1	38	42.6	55.7	--	--	--	--	--	--
	Test Average	91.5	57.5	50.1	53.2	64.8	61.3	52.4	33.2	34.0	47.0	2.3
	LSD (0.05)	12.5	23.4	16.5	23.5	12.2	29.1	21.3	18.0	22.9	15.9	1.4

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.

DON = vomitoxin level in grain

Varieties with greater resistance have lower numbers.