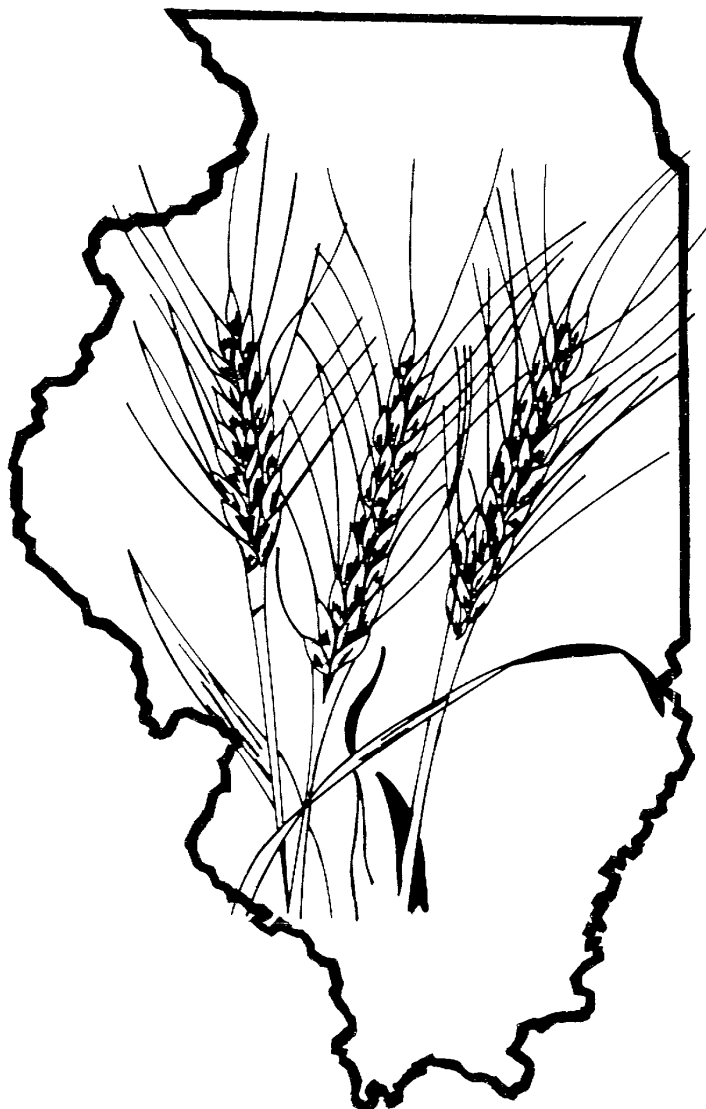


WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2006



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July 2006**

WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2006

Crop Sciences Special Report 2006-01, July 2006

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Following good wheat and doublecrop soybean yields in 2005, wheat acreage rebounded in Illinois for 2006, with 900,000 acres planted in the fall of 2005. Wheat planted in the fall of 2005 got off to an average start, but cool temperatures in the fall resulted in somewhat less growth than usual at the time of dormancy.

Much of the winter was warmer than normal, and there was more growth than usual during January and February. Some water stood in fields in places, but there was only limited freezing and thawing, and the crop came through the winter in fairly good condition. The weather in March and April was good for the wheat crop, with cool temperatures and some sunny days, and thus good conditions for tillering. Rainfall was more or less normal during April and May, but temperatures were favorable, and the weather was dry enough that few fungal diseases developed. There was, however, a substantial amount of barley yellow dwarf virus (BYDV) present in some fields, especially in the variety trials where the grass around the fields might have harbored the aphids that transmit this disease. Due to the uniform height of affected plants, we think that most of the aphid flight was in the late winter rather than in the fall. Heading was at about the normal time, and warm temperatures brought the crop along rapidly. Harvest was up to a week ahead of normal.

According to the July 2006 estimate, yield on acres harvested this year is 68 bushels per acre, surpassing the 2003 yield of 65 bushels for a new record. Yields in all of the variety trials reported here were good to excellent. This was despite the fact that BYDV ratings at the three Southern Illinois locations showed substantial amounts of the disease on most varieties. Seed treatment insecticide (Gaucho), which provides some protection against the aphids that transmit BYDV, produced a yield increase of 8.6 bushels per acre averaged across four varieties and three Southern Illinois locations. The same treatment increased yield by only 1.8 bushels per acre in the northern region, reflecting the much lower BYDV incidence in that part of Illinois.

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. While we allowed seed companies to include entries treated with seed-applied insecticide (Gaucho or Cruiser), such entries have to be identified in their name. We treated seed of four varieties with Gaucho 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 Ron Hines	Grantsburg silt loam	Oct. 11	25 Fall 95 Spring	June 15
Belleville	Ron Krausz	Ebbert silt loam	Oct. 7	30 Fall 80 Spring	June 19
Brownstown	Lindell Deal	Cisne silt loam	Oct. 7	30 Fall 70 Spring	June 19
Orr Center	Mike Vose	Clarksdale silt loam	Oct. 2	40 Fall 60 Spring	June 22
Urbana	Bob Dunker Mike Kleiss	Flanagan silt loam	Oct. 4	40 Fall 40 Spring	June 27
DeKalb	Lyle Paul Dave Lindgren	Drummer silty clay loam	Sept. 22	40 Fall 40 Spring	July 10

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Page 13	Fusarium head scab ratings for selected varieties at Urbana

Participating Companies

Following is a list of addresses and phone numbers of companies that entered wheat varieties in the 2006 University of Illinois trials reported in this publication. We thank these companies for their support of this program, which is designed as a neutral comparison of all wheat varieties available for production in Illinois.

Adler Seeds
6085W 550N
Sharpsville, IN 46068
(800)-536-2676

AgriPro COKER
Box 411 East 8th St
Brookston, IN 47923
(765) 563-3111

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

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

Excel Brand Seeds
Box 320
Camp Point, IL 62320
(888) 593-7707

Green Valley Seed
P.O. Box 135
Kahoka, MO 63445
(660) 727-3341

FS Seeds
1701 Towanda Ave.
Bloomington, IL 61701
(309) 557-6399

JGL, Inc.
3540 S. US 231
Greencastle, IN 46135
(765) 653-5402

Kaltenberg Seed
P.O. Box 278
Waunakee, WI 53597
(608) 849-5021

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

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

Miles Seed
P.O. Box 22879
Owensboro, KY 42304
(800) 685-0877

Ohio Seed Improvement Assoc
6150 Avery Rd.
Dublin, OH 43013
(614) 889-1136

Pioneer Hi-Bred International
14171 Carole Drive
Bloomington, IL 61704
(800) 950-3489

Royster-Clark, Inc.
717 Robinson Road SE
Washington C.H., OH 43160
(800) 659-7790

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

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

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

Table 1. Southern Illinois regional wheat variety trial results, 2006

Company	Variety	Regional Average			Dixon	Belleville	Brownstown
		Yield	Yield Rank	Test wt	Springs Yield	Yield	Yield
Adler Seeds	545	56.2	64	58.1	62.1	54.3	52.3
Adler Seeds	575	67.4	19	57.5	74.2	67.2	60.7
Adler Seeds	625	64.4	29	56.9	65.3	64.3	63.6
AgriPro COKER	9312	70.1	10	58.1	69.3	67.4	73.6
AgriPro COKER	9436	57.5	55	56.8	55.2	62.9	54.2
AgriPro COKER	9511	64.7	27	59.1	60.2	63.6	70.2
AgriPro COKER	9553	64.4	28	59.9	64.2	64.3	64.8
AgriPro COKER	Benton	65.3	24	56.7	58.9	64.8	72.1
AgriPro COKER	Branson	68.6	13	57.6	74.9	64.4	66.4
AgriPro COKER	Cooper	68.4	14	58.4	72.6	67.9	64.7
Brown Seed Enterprises	766	69.8	11	58.2	66.8	63.2	79.4
Brown Seed Enterprises	777	53.2	69	58.5	53.6	55.9	50.3
Brown Seed Enterprises	X21	66.1	21	58.3	74.3	67.9	56.1
Brown Seed Enterprises	X27	65.9	22	58.6	71.3	62.4	63.9
Excel Brand Seeds	173	73.6	2	58.5	70.9	70.3	79.7
Excel Brand Seeds	176	53.7	68	58.1	47.7	52.8	60.4
Excel Brand Seeds	211	60.4	43	58.1	55.9	58.1	67.2
Excel Brand Seeds	211 Cruiser	57.1	59	57.4	50.4	53.9	67.0
Excel Brand Seeds	307	63.0	32	58.4	68.2	61.8	59.0
Excel Brand Seeds	361	58.8	50	58.8	59.4	61.2	55.9
Excel Brand Seeds	392 TW	65.2	25	59.2	66.6	67.9	61.2
Excel Brand Seeds	392 TW Cruiser	73.2	4	58.6	75.4	74.0	70.4
Excel Brand Seeds	399	59.8	45	58.1	62.8	66.3	50.3
Excel Brand Seeds	400-1	62.0	34	58.2	66.5	56.7	62.9
Excel Brand Seeds	410 TW	59.7	47	58.5	67.7	58.9	52.6
FS Seeds	FS 634	56.8	62	58.0	53.7	56.6	60.2
FS Seeds	FS 637	68.2	16	57.9	72.9	67.4	64.3
FS Seeds	FS 645	70.3	9	59.7	71.0	69.3	70.6
FS Seeds	FS 8302	72.7	5	58.0	61.7	73.4	83.1
FS Seeds	FS 8309	61.3	37	57.2	56.1	59.3	68.6
JGL	Exp 603	57.3	57	57.6	60.2	56.4	55.4
JGL	Exp 604	60.9	39	56.4	60.3	61.4	61.0
Lewis Hybrids	823	59.1	49	57.7	63.1	52.1	62.2
Lewis Hybrids	841	68.2	17	58.3	72.3	65.4	67.0
Lewis Hybrids	860	58.1	54	57.4	61.1	60.6	52.6
Merschman Seeds	Barbie VII	61.1	38	58.1	64.7	62.2	56.4
Merschman Seeds	Bintee VII	56.9	61	56.8	57.1	53.2	60.4
Merschman Seeds	Genie IX	57.0	60	57.7	59.6	57.9	53.6
Merschman Seeds	Katie X	55.1	66	57.7	55.6	56.0	53.8
Miles Seed	Judith	56.2	65	57.6	55.2	55.8	57.6
Miles Seed	Leah	60.6	42	57.6	61.0	67.4	53.3
Miles Seed	Lydia	71.2	8	59.1	71.2	70.8	71.6
Miles Seed	Rachel	64.3	30	57.9	55.3	63.8	73.8
Ohio Seed Improvement	Bravo	57.4	56	58.9	63.0	55.4	53.6
Pioneer HI-Bred International	25R47	72.4	6	56.6	77.7	68.5	70.9
Pioneer HI-Bred International	25R54	80.1	1	57.1	71.1	81.5	87.9
Pioneer HI-Bred International	25R63	71.2	7	58.3	76.7	68.3	68.5
Pioneer HI-Bred International	25R78	73.6	3	58.6	66.9	72.8	81.2
Public	Cardinal	49.0	70	55.2	54.0	50.3	42.8
Public	Ernie	57.3	58	56.5	65.8	45.3	60.9
Public	Kaskaskia	60.8	40	60.6	67.4	62.4	52.7
Public	Madison	56.5	63	56.0	53.1	52.4	64.1
Public	McCormick	59.6	48	60.7	59.2	58.0	61.7
Public	Patterson	48.5	71	58.2	50.5	49.1	45.8
Public	Roane	63.4	31	60.5	66.4	70.2	53.6
Public	Sisson	68.3	15	56.9	68.0	61.1	75.8
Public	Truman	54.6	67	56.0	54.0	51.8	58.1
Royster-Clark	V9410	58.5	52	58.6	59.4	56.0	60.2
Royster-Clark	V9412	65.0	26	58.3	71.0	65.5	58.4
Royster-Clark	V9512	58.2	53	58.3	59.9	60.2	54.5
Royster-Clark	V9611	67.6	18	57.5	68.6	68.4	65.6
Steyer Seeds	McLane	65.7	23	58.3	66.0	68.9	62.2
Steyer Seeds	Merrell	68.6	12	58.3	75.4	63.8	66.5
Steyer Seeds	Morral	61.9	35	57.6	61.9	65.1	58.7
Steyer Seeds	Wiser	59.8	44	58.3	63.2	61.8	54.5
UAP	DG 401	62.7	33	58.2	61.6	56.6	69.8
UAP	DG 410	61.6	36	57.9	60.2	58.4	66.3
UAP	DG 415	59.7	46	58.0	62.6	55.3	61.3
UAP	DG 421	66.5	20	58.4	71.4	67.1	61.2
UAP	DG 427	60.7	41	58.2	58.0	61.6	62.4
Wilken Seed Grains	W-102	58.8	51	57.9	56.2	58.9	61.4
	Trial Mean	63.6		58.1	64.3	63.0	63.6
	LSD, 10%	7.3		1.2	7.7	4.3	7.2
	CV, %	14.8		2.6	11.5	6.5	10.8

Averaged over four varieties in the Southern Region, Gaucho seed treated increased yield by 8.6 bushels/acre.

Table 2. Northern Illinois regional wheat variety trial results, 2006

<u>Company</u>	<u>Entry</u>	<u>Regional average</u>			<u>Perry</u>	<u>Urbana</u>	<u>DeKalb</u>
		<u>Yield</u>	<u>Yield Rank</u>	<u>Test wt</u>	<u>Yield</u>	<u>Yield</u>	<u>Yield</u>
AgriPro COKER	9436	84.5	47	57.5	73.8	87.4	92.2
AgriPro COKER	9511	84.9	44	60.2	80.8	94.5	79.5
AgriPro COKER	9553	85.1	43	60.0	71.3	90.7	93.4
AgriPro COKER	Benton	93.4	10	58.1	78.8	105.5	96.0
AgriPro COKER	Branson	92.9	11	57.7	78.3	107.9	92.5
AgriPro COKER	Cooper	95.8	5	59.0	81.2	102.9	103.4
DeRaedt Seed	77 SR	80.7	59	61.2	77.8	77.3	87.1
DeRaedt Seed	88	87.0	30	58.6	73.6	94.3	93.1
DeRaedt Seed	98	86.1	41	57.4	63.4	93.4	101.5
Excel Brand Seeds	307	90.8	16	58.5	73.5	102.3	96.6
Excel Brand Seeds	361	83.9	54	60.1	71.2	91.1	89.4
Excel Brand Seeds	399	89.9	23	58.0	75.5	101.3	93.1
Excel Brand Seeds	400-1	88.0	25	59.0	73.8	96.7	93.5
Excel Brand Seeds	410 TW	86.7	33	58.9	74.0	97.6	88.6
Excel Brand Seeds	442	84.6	46	59.3	75.0	96.8	82.1
FS Seeds	FS 634	90.2	19	58.6	78.3	98.1	94.1
FS Seeds	FS 637	95.3	6	59.4	84.0	104.1	97.7
FS Seeds	FS 645	86.3	39	59.8	78.5	87.5	92.9
FS Seeds	FS 657	90.0	22	57.3	78.2	92.3	99.5
FS Seeds	FS 8302	96.9	4	59.4	86.2	104.8	99.6
FS Seeds	FS 8309	92.2	12	58.5	80.0	101.6	94.8
Green Valley Seed	733	90.4	18	58.6	79.6	99.0	92.6
Green Valley Seed	Exp 061	87.1	29	57.9	81.8	96.3	83.3
Green Valley Seed	Exp 062	95.0	7	59.3	79.9	105.8	99.2
Kaltenberg Seed	KW 51	83.0	56	59.0	76.8	82.3	89.7
Kaltenberg Seed	KW 55	84.8	45	58.4	72.5	93.0	89.0
Kaltenberg Seed	KW 59	90.1	20	57.8	78.5	91.5	100.3
Lewis Hybrids	841	96.9	3	59.5	87.4	104.7	98.7
Lewis Hybrids	860	86.8	32	58.3	75.3	96.8	88.2
Merschman Seeds	Barbie VII	86.6	35	59.1	71.9	98.8	89.2
Merschman Seeds	Bintee VII	82.8	57	58.8	67.4	92.2	88.9
Merschman Seeds	Genie IX	87.7	27	58.3	73.4	95.8	93.8
Merschman Seeds	Katie X	86.5	36	58.2	75.5	94.9	89.2
Pioneer HI-Bred International	25R37	93.5	9	59.0	76.6	109.0	94.9
Pioneer HI-Bred International	25R47	97.0	1	56.1	84.2	101.8	105.0
Pioneer HI-Bred International	25R51	92.1	13	56.9	74.8	100.8	100.8
Public	Cardinal	78.2	60	56.9	75.8	78.1	80.7
Public	Kaskaskia	84.2	50	60.8	69.5	90.7	92.5
Public	Madison	86.6	34	57.2	74.3	98.8	86.8
Public	McCormick	84.3	49	60.8	75.0	90.9	87.0
Public	Patterson	75.6	62	58.5	69.8	88.8	68.2
Public	Roane	87.0	31	60.7	74.2	94.1	92.6
Public	Sisson	84.5	48	57.8	80.7	87.3	85.3
Public	Truman	90.0	21	58.3	76.0	92.9	101.1
Royster-Clark	V9410	86.5	37	58.8	75.7	91.2	92.5
Royster-Clark	V9412	77.8	61	58.9	68.4	76.0	88.9
Royster-Clark	V9512	84.0	52	58.2	69.7	93.9	88.4
Royster-Clark	V9611	93.9	8	59.3	81.5	108.5	91.9
Steyer Seeds	Merrell	97.0	2	59.6	85.8	106.7	98.5
Steyer Seeds	Wiley	80.9	58	59.5	74.6	86.1	82.1
UAP	DG 401	86.4	38	58.9	73.4	91.9	94.0
UAP	DG 410	90.7	17	58.6	83.3	96.9	91.9
UAP	DG 415	90.9	15	58.7	75.9	102.5	94.5
UAP	DG 421	84.0	53	59.2	81.8	82.2	87.9
UAP	DG 427	87.6	28	58.6	76.6	94.3	91.9
Wilken Seed Grains	W-100	85.6	42	59.0	74.8	91.3	90.8
Wilken Seed Grains	W-102	83.9	55	58.8	72.8	92.2	86.7
Wilken Seed Grains	W-106	89.4	24	58.5	73.7	97.2	97.4
Wilken Seed Grains	W-124	86.2	40	59.7	67.3	96.6	94.7
Wilken Seed Grains	W-130	84.1	51	59.3	77.2	85.7	89.4
Wilken Seed Grains	W-135	87.8	26	58.7	69.8	100.0	93.7
Wilken Seed Grains	W-204	90.9	14	58.3	78.1	101.5	93.3
	Trial Mean	88.1		58.8	76.5	95.9	92.0
	LSD, 10%	6.6		0.7	6.0	3.9	3.7
	CV, %	9.5		1.5	7.5	3.9	3.8

Averaged over four varieties in the Northern Region, Gaucho seed treated increased yield by 1.8 bushels/acre.

Table 3. Results of the 2006 wheat variety trial at Dixon Springs, in far southeastern Illinois.

<u>Company</u>	<u>Variety</u>	<u>Yield</u>	<u>Yield Rank</u>	<u>Test wt.</u>	<u>Height</u>	<u>2-yr avg</u>	<u>3-yr avg</u>
						<u>2005-06</u>	<u>2004-06</u>
Adler Seeds	545	62.1	39	58.1	35.3		
Adler Seeds	575	74.2	7	58.1	34.0		
Adler Seeds	625	65.3	31	56.8	36.7		
AgriPro COKER	9312	69.3	18	59.3	31.3	79.3	72.1
AgriPro COKER	9436	55.2	62	56.2	32.3	68.3	69.5
AgriPro COKER	9511	60.2	46	59.5	35.3		
AgriPro COKER	9553	64.2	33	60.6	34.7		
AgriPro COKER	Benton	58.9	54	57.0	32.7	70.7	67.2
AgriPro COKER	Branson	74.9	5	58.0	33.3	80.3	
AgriPro COKER	Cooper	72.6	9	58.4	33.3	77.7	76.9
Brown Seed Enterprises	766	66.8	25	59.3	31.3	74.3	74.0
Brown Seed Enterprises	777	53.6	67	58.4	32.0		
Brown Seed Enterprises	X21	74.3	6	58.5	33.0	77.6	75.8
Brown Seed Enterprises	X27	71.3	12	58.6	36.3	78.9	76.7
Excel Brand Seeds	173	70.9	17	58.6	36.0		
Excel Brand Seeds	176	47.7	71	56.9	37.0		
Excel Brand Seeds	211	55.9	59	57.1	35.0	70.7	70.4
Excel Brand Seeds	211 Cruiser	50.4	70	57.5	34.7		
Excel Brand Seeds	307	68.2	20	59.3	38.3	73.1	73.9
Excel Brand Seeds	361	59.4	51	57.9	37.7		
Excel Brand Seeds	392 TW	66.6	26	57.7	38.3	74.8	77.9
Excel Brand Seeds	392 TW Cruiser	75.4	4	57.9	40.0		
Excel Brand Seeds	399	62.8	37	58.0	35.3	74.1	
Excel Brand Seeds	400-1	66.5	27	59.3	36.3	76.0	77.5
Excel Brand Seeds	410 TW	67.7	22	59.2	36.3	79.2	
FS Seeds	FS 634	53.7	66	57.4	37.0	70.1	69.0
FS Seeds	FS 637	72.9	8	57.9	34.3		
FS Seeds	FS 645	71.0	16	60.0	34.3		
FS Seeds	FS 8302	61.7	41	58.0	32.7	73.9	76.1
FS Seeds	FS 8309	56.1	58	57.1	33.7	66.3	66.4
JGL	Exp 603	60.2	48	58.3	35.7		
JGL	Exp 604	60.3	45	55.9	35.3		
Lewis Hybrids	823	63.1	35	58.2	36.0		
Lewis Hybrids	841	72.3	10	59.2	33.7		
Lewis Hybrids	860	61.1	43	57.0	36.0		
Merschman Seeds	Barbie VII	64.7	32	58.1	35.3	75.9	75.0
Merschman Seeds	Bintee VII	57.1	56	57.0	35.0	66.6	
Merschman Seeds	Genie IX	59.6	50	56.8	36.0	73.7	73.6
Merschman Seeds	Katie X	55.6	60	57.7	35.7	65.1	
Miles Seed	Judith	55.2	63	56.6	35.7	72.8	71.9
Miles Seed	Leah	61.0	44	58.7	31.3	73.6	
Miles Seed	Lydia	71.2	13	58.2	32.0		
Miles Seed	Rachel	55.3	61	57.5	33.3	70.3	
Ohio Seed Improvement	Bravo	63.0	36	59.9	35.0	70.4	67.0
Pioneer HI-Breed International	25R47	77.7	1	57.5	31.3	85.5	83.7
Pioneer HI-Breed International	25R54	71.1	14	57.8	35.7	78.8	
Pioneer HI-Breed International	25R63	76.7	2	59.3	35.3		
Pioneer HI-Breed International	25R78	66.9	24	58.8	33.0	74.3	73.0
Public	Cardinal	54.0	65	55.0	37.0	63.5	62.6
Public	Ernie	65.8	30	57.8	32.0	69.1	61.0
Public	Kaskaskia	67.4	23	60.4	39.3	78.5	74.5
Public	Madison	53.1	68	56.4	33.7	68.7	62.0
Public	McCormick	59.2	53	60.8	31.7	69.0	69.9
Public	Patterson	50.5	69	58.6	34.3	60.7	58.0
Public	Roane	66.4	28	60.2	32.7	75.2	75.1
Public	Sisson	68.0	21	57.3	30.0	74.9	65.0
Public	Truman	54.0	64	54.8	38.0	64.3	67.5
Royster-Clark	V9410	59.4	52	58.9	35.3	67.8	68.5
Royster-Clark	V9412	71.0	15	58.7	31.7	73.5	72.5
Royster-Clark	V9512	59.9	49	58.7	35.7	66.2	
Royster-Clark	V9611	68.6	19	57.1	34.3		
Steyer Seed	McLane	66.0	29	57.8	40.0	75.6	
Steyer Seed	Merrell	75.4	3	58.2	34.7	83.6	
Steyer Seed	Morrall	61.9	40	58.0	35.0		
Steyer Seed	Wiser	63.2	34	58.2	36.3		
UAP	DG 401	61.6	42	57.9	36.3	71.0	69.1
UAP	DG 410	60.2	47	57.5	36.7	71.2	
UAP	DG 415	62.6	38	58.5	37.7	72.0	72.8
UAP	DG 421	71.4	11	58.2	30.7		
UAP	DG 427	58.0	55	57.9	37.3		
Wilken Seed Grains	W-102	56.2	57	57.0	35.7	69.7	69.9
	Trial Mean	64.3		58.1	35.0		
	LSD, 10%	7.7		1.2	1.8		
	CV, %	11.5		1.9	4.8		

Averaged over four varieties in this location, Gaucho seed treated increased yield by 10.1 bushels/acre.

Table 4. Results of the 2006 wheat variety trial at Belleville, in southwestern Illinois.

<u>Company</u>	<u>Variety</u>	<u>Yield</u>	<u>Yield Rank</u>	<u>Test wt.</u>	<u>Height</u>	<u>2-yr avg</u>	<u>3-yr avg</u>
						<u>2005-06</u>	<u>2004-06</u>
Adler Seeds	545	54.3	62	57.8	39.3		
Adler Seeds	575	67.2	19	57.0	34.7		
Adler Seeds	625	64.3	28	56.8	38.0		
AgriPro COKER	9312	67.4	17	56.9	34.0	73.0	71.3
AgriPro COKER	9436	62.9	33	58.5	32.3	78.2	74.9
AgriPro COKER	9511	63.6	31	58.3	36.7		
AgriPro COKER	9553	64.3	27	59.8	37.0		
AgriPro COKER	Benton	64.8	25	55.9	34.3	80.9	76.2
AgriPro COKER	Branson	64.4	26	57.4	34.0	78.5	
AgriPro COKER	Cooper	67.9	15	58.8	33.7	81.8	80.0
Brown Seed Enterprises	766	63.2	32	56.8	34.7	75.9	74.9
Brown Seed Enterprises	777	55.9	58	59.8	33.0		
Brown Seed Enterprises	X21	67.9	13	59.4	32.3	81.0	79.8
Brown Seed Enterprises	X27	62.4	35	58.9	39.0	77.1	76.4
Excel Brand Seeds	173	70.3	6	58.3	36.7		
Excel Brand Seeds	176	52.8	65	59.1	38.0		
Excel Brand Seeds	211	58.1	49	58.6	39.7	74.9	75.6
Excel Brand Seeds	211 Cruiser	53.9	63	56.6	37.3		
Excel Brand Seeds	307	61.8	38	58.4	38.7	78.0	79.0
Excel Brand Seeds	361	61.2	41	60.1	38.0		
Excel Brand Seeds	392 TW	67.9	14	59.9	38.7	81.8	81.9
Excel Brand Seeds	392 TW Cruiser	74.0	2	58.9	40.3		
Excel Brand Seeds	399	66.3	21	58.7	39.7	81.9	
Excel Brand Seeds	400-1	56.7	52	58.2	39.0	74.2	73.3
Excel Brand Seeds	410 TW	58.9	46	58.2	35.7	72.4	
FS Seeds	FS 634	56.6	54	59.0	38.0	74.2	73.4
FS Seeds	FS 637	67.4	16	58.0	34.7		
FS Seeds	FS 645	69.3	8	60.7	36.3		
FS Seeds	FS 8302	73.4	3	57.7	36.3	84.3	80.6
FS Seeds	FS 8309	59.3	45	56.7	38.7	77.0	71.8
JGL	Exp 603	56.4	55	57.5	37.0		
JGL	Exp 604	61.4	40	57.1	36.7		
Lewis Hybrids	823	52.1	67	57.2	40.3		
Lewis Hybrids	841	65.4	23	57.5	36.0		
Lewis Hybrids	860	60.6	43	58.1	36.7		
Merschman Seeds	Barbie VII	62.2	36	58.2	39.7	74.5	74.8
Merschman Seeds	Bintee VII	53.2	64	56.8	36.3	70.7	
Merschman Seeds	Genie IX	57.9	51	58.7	38.0	75.9	75.9
Merschman Seeds	Katie X	56.0	56	58.7	37.3	74.7	
Miles Seed	Judith	55.8	59	58.5	37.3	66.6	66.5
Miles Seed	Leah	67.4	18	58.6	32.0	76.8	
Miles Seed	Lydia	70.8	5	59.8	35.0		
Miles Seed	Rachel	63.8	30	57.3	37.7	74.5	
Ohio Seed Improvement	Bravo	55.4	60	59.3	35.3	67.0	66.3
Pioneer HI-Breed International	25R47	68.5	10	56.1	34.7	82.0	81.6
Pioneer HI-Breed International	25R54	81.5	1	55.4	39.0	88.4	
Pioneer HI-Breed International	25R63	68.3	12	57.6	35.3		
Pioneer HI-Breed International	25R78	72.8	4	57.7	36.0	83.2	76.6
Public	Cardinal	50.3	69	56.4	38.7	65.0	61.8
Public	Ernie	45.3	71	55.3	33.0	63.5	63.8
Public	Kaskaskia	62.4	34	61.9	39.3	72.1	71.6
Public	Madison	52.4	66	54.8	37.0	70.3	69.3
Public	McCormick	58.0	50	60.7	34.0	69.9	68.5
Public	Patterson	49.1	70	58.5	35.0	65.7	63.7
Public	Roane	70.2	7	61.6	35.0	75.7	74.7
Public	Sisson	61.1	42	55.8	33.0	79.9	75.8
Public	Truman	51.8	68	59.2	39.3	71.1	70.8
Royster-Clark	V9410	56.0	57	58.4	38.3	68.9	69.8
Royster-Clark	V9412	65.5	22	59.1	32.3	79.9	76.4
Royster-Clark	V9512	60.2	44	58.7	36.7	74.1	
Royster-Clark	V9611	68.4	11	58.0	33.7		
Steyer Seed	McLane	68.9	9	59.6	39.3	81.8	
Steyer Seed	Merrell	63.8	29	58.9	34.7	77.6	
Steyer Seed	Morrall	65.1	24	58.1	32.7		
Steyer Seed	Wiser	61.8	37	59.1	37.0		
UAP	DG 401	56.6	53	58.4	38.7	73.8	72.7
UAP	DG 410	58.4	48	58.1	38.7	76.3	
UAP	DG 415	55.3	61	58.2	39.7	71.3	70.6
UAP	DG 421	67.1	20	59.0	34.7		
UAP	DG 427	61.6	39	58.7	39.0		
Wilken Seed Grains	W-102	58.9	47	58.5	37.7	71.0	70.3
	Trial Mean	63.0		58.3	36.8		
	LSD, 10%	4.3		0.9	1.7		
	CV, %	6.5		1.4	4.3		

Averaged over four varieties in this location, Gaucho seed treated increased yield by 9.0 bushels/acre.

Table 5. Results of the 2006 wheat variety trial at Brownstown, in south central 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>
			<u>Rank</u>				<u>2005-06</u>	<u>2004-06</u>
Adler Seeds	545	52.3	67	58.5	39.7			
Adler Seeds	575	60.7	42	57.5	38.0			
Adler Seeds	625	63.6	30	57.1	38.7			
AgriPro COKER	9312	73.6	8	58.3	38.3	67.8		
AgriPro COKER	9436	54.2	58	55.7	35.3	66.8		
AgriPro COKER	9511	70.2	14	59.5	40.0			
AgriPro COKER	9553	64.8	25	59.2	35.3			
AgriPro COKER	Benton	72.1	9	57.4	35.0	75.4	83.5	
AgriPro COKER	Branson	66.4	22	57.2	37.3	73.2		
AgriPro COKER	Cooper	64.7	26	58.0	37.3	69.3		
Brown Seed Enterprises	766	79.4	5	58.4	38.0	73.4		
Brown Seed Enterprises	777	50.3	69	57.1	38.0			
Brown Seed Enterprises	X21	56.1	53	57.0	33.0	73.0		
Brown Seed Enterprises	X27	63.9	29	58.2	38.0	67.3		
Excel Brand Seeds	173	79.7	4	58.6	36.3			
Excel Brand Seeds	176	60.4	43	58.3	41.3			
Excel Brand Seeds	211	67.2	18	58.7	38.0	68.9	79.8	
Excel Brand Seeds	211 Cruiser	67.0	19	58.1	39.3			
Excel Brand Seeds	307	59.0	47	57.5	37.3	65.1	78.1	
Excel Brand Seeds	361	55.9	54	58.4	39.0			
Excel Brand Seeds	392 TW	61.2	39	59.9	35.7	65.4		
Excel Brand Seeds	392 TW Cruiser	70.4	13	59.0	42.3			
Excel Brand Seeds	399	50.3	68	57.7	39.3	60.5		
Excel Brand Seeds	400-1	62.9	31	57.1	38.7	69.2	80.5	
Excel Brand Seeds	410 TW	52.6	66	58.0	39.0	59.0		
FS Seeds	FS 634	60.2	45	57.6	37.3	65.8		
FS Seeds	FS 637	64.3	27	57.9	38.7			
FS Seeds	FS 645	70.6	12	58.6	37.3			
FS Seeds	FS 8302	83.1	2	58.2	39.3	75.2		
FS Seeds	FS 8309	68.6	16	57.9	37.7	68.2		
JGL	Exp 603	55.4	55	56.8	36.0			
JGL	Exp 604	61.0	40	56.3	37.0			
Lewis Hybrids	823	62.2	33	57.8	36.7			
Lewis Hybrids	841	67.0	20	58.2	38.0			
Lewis Hybrids	860	52.6	65	57.2	37.7			
Merschman Seeds	Barbie VII	56.4	52	58.0	37.0	60.4		
Merschman Seeds	Bintee VII	60.4	44	56.5	38.0	63.8		
Merschman Seeds	Genie IX	53.6	62	57.4	38.0	61.7		
Merschman Seeds	Katie X	53.8	59	56.8	38.0	62.4		
Miles Seed	Judith	57.6	51	57.8	37.7	62.0		
Miles Seed	Leah	53.3	63	55.5	36.3	61.8		
Miles Seed	Lydia	71.6	10	59.2	38.7			
Miles Seed	Rachel	73.8	7	58.8	40.0	69.5		
Ohio Seed Improvement	Bravo	53.6	60	57.5	35.7	60.5	71.9	
Pioneer HI-Breed International	25R47	70.9	11	56.2	36.7	75.2	83.0	
Pioneer HI-Breed International	25R54	87.9	1	58.0	37.3	80.2		
Pioneer HI-Breed International	25R63	68.5	17	57.9	36.3			
Pioneer HI-Breed International	25R78	81.2	3	59.4	36.7	81.9	88.4	
Public	Cardinal	42.8	71	54.1	40.3	59.0	71.5	
Public	Ernie	60.9	41	56.4	36.3	66.0	75.1	
Public	Kaskaskia	52.7	64	59.4	39.3	60.2	71.3	
Public	Madison	64.1	28	56.8	38.0	66.6	73.2	
Public	McCormick	61.7	35	60.5	37.0	65.8	74.8	
Public	Patterson	45.8	70	57.6	37.0	51.9	65.8	
Public	Roane	53.6	61	59.6	38.7	59.8	69.2	
Public	Sisson	75.8	6	57.5	32.7	82.5	86.2	
Public	Truman	58.1	50	54.1	41.0	71.1		
Royster-Clark	V9410	60.2	46	58.4	39.0	69.9		
Royster-Clark	V9412	58.4	49	57.2	36.7	69.8		
Royster-Clark	V9512	54.5	57	57.3	39.0	65.3		
Royster-Clark	V9611	65.6	24	57.4	34.3			
Steyer Seed	McLane	62.2	34	57.5	40.3	68.9		
Steyer Seed	Merrell	66.5	21	57.8	36.0	70.7		
Steyer Seed	Morrall	58.7	48	56.7	33.7			
Steyer Seed	Wiser	54.5	56	57.7	38.3			
UAP	DG 401	69.8	15	58.3	38.7	73.2	82.2	
UAP	DG 410	66.3	23	58.1	39.3	67.3		
UAP	DG 415	61.3	37	57.2	40.0	67.0	77.0	
UAP	DG 421	61.2	38	57.9	37.7			
UAP	DG 427	62.4	32	58.0	37.0			
Wilken Seed Grains	W-102	61.4	36	58.1	37.7	69.9	79.8	
	Trial Mean	63.6		57.8	37.8			
	LSD, 10%	7.2		1.0	2.8			
	CV, %	10.8		1.6	7.1			

Averaged over four varieties in this location, Gaucho seed treated increased yield by 6.7 bushels/acre.

Table 6. Results of the 2006 wheat variety trial at Perry, in western Illinois.

Company	Variety	Yield	Yield Rank	Test wt.	Height	2-yr avg	3-yr avg
						2005-06	2004-06
AgriPro COKER	9436	73.8	44	57.9	34.3	69.2	78.0
AgriPro COKER	9511	80.8	11	60.7	38.0		
AgriPro COKER	9553	71.3	54	60.5	36.3		
AgriPro COKER	Benton	78.8	16	58.2	35.7	71.7	79.2
AgriPro COKER	Branson	78.3	20	57.9	36.0		
AgriPro COKER	Cooper	81.2	10	59.1	35.7	72.3	79.8
DeRaedt Seed	77 SR	77.8	23	61.1	44.3		
DeRaedt Seed	88	73.6	46	58.8	43.0	68.4	
DeRaedt Seed	98	63.4	63	56.7	42.3		
Excel Brand Seeds	307	73.5	47	58.5	43.0	68.6	77.5
Excel Brand Seeds	361	71.2	55	60.4	42.7		
Excel Brand Seeds	399	75.5	32	58.8	40.7	66.5	
Excel Brand Seeds	400-1	73.8	43	59.3	42.3	67.8	78.9
Excel Brand Seeds	410 TW	74.0	42	58.9	42.0	68.7	76.6
Excel Brand Seeds	442	75.0	35	59.5	39.3		
FS Seeds	FS 634	78.3	19	58.8	42.7	69.3	77.9
FS Seeds	FS 637	84.0	5	59.6	36.3		
FS Seeds	FS 645	78.5	18	60.2	40.7		
FS Seeds	FS 657	78.2	21	56.4	41.7		
FS Seeds	FS 8302	86.2	2	59.6	38.0	72.0	80.4
FS Seeds	FS 8309	80.0	13	58.7	38.7	75.0	76.5
Green Valley Seed	733	79.6	15	58.5	41.7	68.9	80.2
Green Valley Seed	Exp 061	81.8	7	57.9	41.3		
Green Valley Seed	Exp 062	79.9	14	58.8	35.7		
Kaltenberg Seed	KW 51	76.8	25	59.2	36.7	74.9	
Kaltenberg Seed	KW 55	72.5	51	57.6	40.7	69.5	
Kaltenberg Seed	KW 59	78.5	17	57.6	44.0		
Lewis Hybrids	841	87.4	1	59.3	36.0		
Lewis Hybrids	860	75.3	34	58.5	41.0		
Merschman Seeds	Barbie VII	71.9	53	59.3	41.7	66.2	76.9
Merschman Seeds	Bintee VII	67.4	61	58.4	39.7	63.5	
Merschman Seeds	Genie IX	73.4	48	58.3	42.3	65.1	75.3
Merschman Seeds	Katie X	75.5	33	57.7	41.0	66.0	
Pioneer HI-Breed International	25R37	76.6	26	58.8	34.7	72.5	78.6
Pioneer HI-Breed International	25R47	84.2	4	55.9	34.3	75.0	84.9
Pioneer HI-Breed International	25R51	74.8	37	56.7	37.0		
Public	Cardinal	75.8	30	57.6	46.3	69.4	75.5
Public	Ernie	72.5	52	58.1	37.7	60.6	70.6
Public	Kaskaskia	69.5	59	60.5	43.0	65.9	73.8
Public	Madison	74.3	40	57.5	38.0	70.6	77.9
Public	McCormick	75.0	36	61.0	34.0	68.4	74.3
Public	Patterson	69.8	57	59.0	40.0	59.9	68.6
Public	Roane	74.2	41	60.7	37.0	67.4	73.3
Public	Sisson	80.7	12	58.3	35.3	69.1	77.6
Public	Truman	76.0	28	58.8	42.3	69.0	77.5
Royster-Clark	V9410	75.7	31	59.1	40.0		
Royster-Clark	V9412	68.4	60	59.1	36.7	66.4	77.5
Royster-Clark	V9512	69.7	58	58.3	42.0	62.8	
Royster-Clark	V9611	81.5	9	58.9	37.0		
Steyer Seed	Merrell	85.8	3	59.5	35.3		
Steyer Seed	Wiley	74.6	39	60.3	35.7		
UAP	DG 401	73.4	49	59.2	41.7		
UAP	DG 410	83.3	6	58.9	40.7	69.7	
UAP	DG 415	75.9	29	58.9	41.7	68.5	76.1
UAP	DG 421	81.8	8	59.9	35.3		
UAP	DG 427	76.6	27	59.1	41.7		
Wilken Seed Grains	W-100	74.8	38	58.5	42.0	67.3	
Wilken Seed Grains	W-102	72.8	50	58.9	42.7	61.6	
Wilken Seed Grains	W-106	73.7	45	57.8	42.7	65.7	77.6
Wilken Seed Grains	W-124	67.3	62	59.8	42.0	63.2	73.5
Wilken Seed Grains	W-130	77.2	24	59.8	35.7		
Wilken Seed Grains	W-135	69.8	56	58.6	41.3	65.6	
Wilken Seed Grains	W-204	78.1	22	58.7	43.3	69.8	78.4
	Trial Mean	76.5		58.9	39.6		
	LSD, 10%	6.0		0.6	1.8		
	CV, %	7.5		1.0	4.3		

Averaged over four varieties in this location, Gaucho seed treated increased yield by 2.3 bushels/acre.

Table 7. Results of the 2006 wheat variety trial at Urbana, in east central Illinois.

Company	Variety	Yield	Yield		Test wt.	Height	2-yr avg	3-yr avg
			Rank				2005-06	2004-06
AgriPro COKER	9436	87.4	55		57.7	36.3	92.8	92.2
AgriPro COKER	9511	94.5	33		60.2	42.0		
AgriPro COKER	9553	90.7	51		59.5	42.7		
AgriPro COKER	Benton	105.5	6		57.7	40.3	105.6	98.6
AgriPro COKER	Branson	107.9	3		56.9	40.0		
AgriPro COKER	Cooper	102.9	10		57.9	41.3	105.3	103.0
DeRaedt Seed	77 SR	77.3	62		61.0	46.3		
DeRaedt Seed	88	94.3	34		57.6	44.3	102.3	
DeRaedt Seed	98	93.4	39		56.9	43.3		
Excel Brand Seeds	307	102.3	12		58.0	45.7	108.7	106.3
Excel Brand Seeds	361	91.1	49		59.8	44.7		
Excel Brand Seeds	399	101.3	16		56.4	44.7	106.8	
Excel Brand Seeds	400-1	96.7	28		58.0	47.0	102.4	99.9
Excel Brand Seeds	410 TW	97.6	23		58.2	42.3	103.0	100.8
Excel Brand Seeds	442	96.8	26		58.4	43.3		
FS Seeds	FS 634	98.1	22		57.7	44.0	104.4	103.8
FS Seeds	FS 637	104.1	9		57.9	41.3		
FS Seeds	FS 645	87.5	54		59.3	42.7		
FS Seeds	FS 657	92.3	42		56.6	46.0		
FS Seeds	FS 8302	104.8	7		59.2	42.7	107.8	101.5
FS Seeds	FS 8309	101.6	14		58.1	41.7	99.5	95.3
Green Valley Seed	733	99.0	19		58.1	45.0	102.7	101.5
Green Valley Seed	Exp 061	96.3	30		57.4	44.3		
Green Valley Seed	Exp 062	105.8	5		58.6	41.0		
Kaltenberg Seed	KW 51	82.3	59		58.7	39.0	95.6	
Kaltenberg Seed	KW 55	93.0	40		58.2	45.0	104.5	
Kaltenberg Seed	KW 59	91.5	46		56.8	45.7		
Lewis Hybrids	841	104.7	8		58.4	41.3		
Lewis Hybrids	860	96.8	27		57.4	43.0		
Merschman Seeds	Barbie VII	98.8	21		58.4	43.7	105.1	101.8
Merschman Seeds	Bintee VII	92.2	44		59.1	43.3	99.3	
Merschman Seeds	Genie IX	95.8	31		57.2	44.0	103.5	102.9
Merschman Seeds	Katie X	94.9	32		57.8	44.7	97.6	
Pioneer HI-Breed International	25R37	109.0	1		58.7	41.3	112.9	105.1
Pioneer HI-Breed International	25R47	101.8	13		55.4	39.7	112.2	108.8
Pioneer HI-Breed International	25R51	100.8	17		56.3	42.3		
Public	Cardinal	78.1	61		55.5	44.3	91.1	87.1
Public	Ernie	94.3	35		56.5	42.0	91.8	91.2
Public	Kaskaskia	90.7	52		60.5	46.3	107.1	100.8
Public	Madison	98.8	20		57.1	44.0	103.3	98.6
Public	McCormick	90.9	50		59.6	39.3	98.7	92.5
Public	Patterson	88.8	53		57.5	45.3	92.1	90.5
Public	Roane	94.1	37		60.0	41.3	101.8	98.9
Public	Sisson	87.3	56		57.1	36.7	95.8	94.7
Public	Truman	92.9	41		56.9	45.7	99.5	98.1
Royster-Clark	V9410	91.2	48		57.8	45.3		
Royster-Clark	V9412	76.0	63		58.3	40.7	90.3	91.5
Royster-Clark	V9512	93.9	38		57.2	44.0	98.2	
Royster-Clark	V9611	108.5	2		58.4	42.7		
Steyer Seed	Merrell	106.7	4		58.7	42.0		
Steyer Seed	Wiley	86.1	57		58.5	39.0		
UAP	DG 401	91.9	45		57.7	44.7		
UAP	DG 410	96.9	25		57.6	45.0	104.6	
UAP	DG 415	102.5	11		57.7	44.7	107.2	104.8
UAP	DG 421	82.2	60		58.5	39.7		
UAP	DG 427	94.3	36		57.7	43.7		
Wilken Seed Grains	W-100	91.3	47		58.2	46.3	100.5	
Wilken Seed Grains	W-102	92.2	43		57.7	45.7	100.4	
Wilken Seed Grains	W-106	97.2	24		57.6	45.3	103.3	102.1
Wilken Seed Grains	W-124	96.6	29		59.1	46.0	103.6	99.4
Wilken Seed Grains	W-130	85.7	58		58.7	41.7		
Wilken Seed Grains	W-135	100.0	18		58.1	43.7	107.2	
Wilken Seed Grains	W-204	101.5	15		57.3	46.3	106.5	101.9
	Trial Mean	95.9			58.1	43.2		
	LSD, 10%	3.9			0.7	1.7		
	CV, %	3.9			1.1	3.7		

Averaged over four varieties in this location, Gaucho seed treated increased yield by 3.2 bushels/acre.

Table 8. Results of the 2006 wheat variety trial at DeKalb, in north central Illinois.

<u>Company</u>	<u>Variety</u>	<u>Yield</u>	<u>Yield Rank</u>	<u>Test wt.</u>	<u>Height</u>	<u>2-yr avg 2005-06</u>	<u>3-yr avg 2004-06</u>
AgriPro COKER	9436	92.2	35	57.1	36.0	84.9	85.9
AgriPro COKER	9511	79.5	61	59.5	38.7		
AgriPro COKER	9553	93.4	25	60.0	40.3		
AgriPro COKER	Benton	96.0	15	58.3	38.3	91.9	90.6
AgriPro COKER	Branson	92.5	32	58.2	37.3		
AgriPro COKER	Cooper	103.4	2	59.9	35.3	95.2	92.4
DeRaedt Seed	77 SR	87.1	52	61.4	43.7		
DeRaedt Seed	88	93.1	27	59.5	40.7	88.5	
DeRaedt Seed	98	101.5	3	58.7	43.7		
Excel Brand Seeds	307	96.6	14	59.0	42.0	89.4	89.3
Excel Brand Seeds	361	89.4	41	60.0	42.3		
Excel Brand Seeds	399	93.1	28	59.0	41.3	87.3	
Excel Brand Seeds	400-1	93.5	24	59.6	42.0	88.6	86.8
Excel Brand Seeds	410 TW	88.6	48	59.6	40.7	84.8	86.0
Excel Brand Seeds	442	82.1	59	60.0	41.7		
FS Seeds	FS 634	94.1	20	59.4	42.0	88.9	87.5
FS Seeds	FS 637	97.7	12	60.6	37.0		
FS Seeds	FS 645	92.9	29	60.0	38.0		
FS Seeds	FS 657	99.5	8	59.0	43.7		
FS Seeds	FS 8302	99.6	7	59.4	39.0	89.1	88.1
FS Seeds	FS 8309	94.8	17	58.6	39.7	90.1	90.7
Green Valley Seed	733	92.6	30	59.4	40.7	84.2	86.6
Green Valley Seed	Exp 061	83.3	57	58.5	40.7		
Green Valley Seed	Exp 062	99.2	9	60.6	37.3		
Kaltenberg Seed	KW 51	89.7	40	59.3	38.3	83.9	
Kaltenberg Seed	KW 55	89.0	45	59.5	41.0	85.8	
Kaltenberg Seed	KW 59	100.3	6	59.0	43.3		
Lewis Hybrids	841	98.7	10	60.9	37.0		
Lewis Hybrids	860	88.2	50	59.0	42.0		
Merschman Seeds	Barbie VII	89.2	44	59.5	40.0	86.7	88.1
Merschman Seeds	Bintee VII	88.9	46	59.0	40.3	81.6	
Merschman Seeds	Genie IX	93.8	22	59.5	42.3	87.4	89.8
Merschman Seeds	Katie X	89.2	43	59.0	42.0	83.9	
Pioneer HI-Breed International	25R37	94.9	16	59.6	36.7	87.9	86.7
Pioneer HI-Breed International	25R47	105.0	1	57.1	38.0	106.5	98.9
Pioneer HI-Breed International	25R51	100.8	5	57.7	39.0		
Public	Cardinal	80.7	60	57.6	44.3	79.3	77.5
Public	Kaskaskia	92.5	34	61.2	45.0	91.8	89.2
Public	Madison	86.8	54	57.0	41.0	79.2	75.7
Public	McCormick	87.0	53	61.9	36.0	84.1	81.7
Public	Patterson	68.2	62	59.1	41.3	74.0	73.6
Public	Roane	92.6	31	61.4	35.7	90.5	84.6
Public	Sisson	85.3	56	58.1	35.3	78.9	77.3
Public	Truman	101.1	4	59.2	40.3	90.2	85.3
Royster-Clark	V9410	92.5	33	59.7	43.7		
Royster-Clark	V9412	88.9	47	59.3	37.7	87.1	88.9
Royster-Clark	V9512	88.4	49	59.0	42.3	84.3	
Royster-Clark	V9611	91.9	38	60.8	36.7		
Steyer Seed	Merrell	98.5	11	60.5	37.7		
Steyer Seed	Wiley	82.1	58	59.8	37.0		
UAP	DG 401	94.0	21	59.8	42.7		
UAP	DG 410	91.9	36	59.4	41.3	87.2	
UAP	DG 415	94.5	19	59.4	43.3	88.6	86.5
UAP	DG 421	87.9	51	59.2	37.7		
UAP	DG 427	91.9	37	59.0	43.3		
Wilken Seed Grains	W-100	90.8	39	60.2	43.3	85.2	
Wilken Seed Grains	W-102	86.7	55	59.8	42.3	81.5	
Wilken Seed Grains	W-106	97.4	13	60.0	42.7	87.5	89.4
Wilken Seed Grains	W-124	94.7	18	60.2	44.0	86.8	88.2
Wilken Seed Grains	W-130	89.4	42	59.5	38.7		
Wilken Seed Grains	W-135	93.7	23	59.5	42.0	90.2	
Wilken Seed Grains	W-204	93.3	26	59.0	42.7	87.7	87.4
	Trial Mean	92.0		59.5	40.3		
	LSD, 10%	3.7		0.5	1.4		
	CV, %	3.8		0.9	3.2		

Averaged over four varieties in this location, Gaucho seed treated decreased yield by 0.0 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>Septoria</u>
Adler Seeds	545	V	E	S	VG	M	VG		MR	MR
	575	V	ME	S	VG	M	VG		MR	I
	625	V	M	S	VG	S	VG		MR	MR
Agripro COKER	Benton	V	M	S	E	M	VG	S	MS	MS
	Branson	V	ME	S	VG	M	VG	MS	I	I
	Cooper	V	M	S	E	M	E	S	MS	I
	9312	V	E/ME	T	G	S	G	R	MR	MR
	9436	V	M	T	G	MS	G	R	MS	MR
	9553	V	E	B	G	M	VG	S	I	MR
	9511	V	ME	S	G	MT	G	S	MR	MR
Brown Seed Enterprises Inc	Arise 766	V	E	T	E	M	VG	I	R	R
	Arise X21	V	ME	T	E	M	E	I	R	R
	Arise X27	V	M	T	E	M	VG	I	R	R
	Arise 777	V	E	T	VG	M	E	I	R	R
DeRaedt Seed	77 SR	V	ME	B	E	T	VG	S	R	R
	88	V	M	T	E	MT	VG	ND	MR	I
	98	V	ML	T	E	T	VG	ND	MR	MR
Excel Brand Seeds	173	V	E	S	VG	M	M	I	R	R
	176	V	E	S	VG	M	VG	I	MR	R
	211	V	E	S	E	M	VG	MR	R	R
	307	V	ME	S	E	M	E	MR	R	R
	361	V	M	S	E	M	M	I	MR	R
	392 TW	V	M	S	VG	M	E	MR	R	MR
	399	V	ML	S	E	M	E	MR	MR	MR
	400-1	V	M	S	E	M	E	MR	R	MR
	410 TW	V	M	S	E	M	E	MR	R	MR
	442	V	ML	B	E	MT	VG	I	R	MR
Green Valley Seed	733	V	ME	S	E	M	E	ND	R	MR
	EXP 061	V	M	S	E	M	E	ND	I	R
	EXP 062	V	M	S	E	M	E	ND	R	R
FS Seeds	FS 634	V	ME	S	VG	MT	VG	MR	MR	MR
	FS 637	V	ME	S	VG	MT	VG	MR	MR	MR
	FS 645	V	M	S	E	M	E	S	MR	MR
	FSS 657	V	ML	S	VG	T	VG	ND	MR	MR
	FS 8302	V	ML	B	G	M	E	R	R	MR
	FS 8309	V	M	S	VG	M	E	S	MR	MR
JGL	Exp 603	V	E	S	VG	M	E	S	MR	MR
	Exp 604	V	M	S	VG	MT	VG	ND	MR	MR
Kaltenberg Seed	KW 51	V	ML	T	E	M	VG	I	I	I
	KW 55	V	M	S	VG	MT	E	MR	MR	MR
	KW 59	V	ML	S	VG	MT	VG	VG	MR	MR
Lewis Hybrids	841	V	ME	S	E	M	E	R	MR	MR
	860	V	ME	S	E	S	E	R	MR	MR
	823	V	E	S	E	M	E	R	MR	MR
Merschman Seeds Inc	Barbie VII	V	M	S	VG	M	VG	S	I	I
	Bintee VII	V	M	S	E	M	E	R	I	I
	Genie IX	V	M	S	E	M	VG	R	I	I
	Katie X	V	M	S	VG	M	VG	S	I	R
Miles Seed	Judith	V	E	S	E	T	VG	MR	MR	MR
	Leah	V	E	S	E	M	VG	ND	MR	MS
	Rachel	V	E	B	G	M	VG	ND	MR	MS
	Lydia	V	E	B	G	M	G	I	MR	MR
Ohio Seed Improv. Association	Bravo	V	E	S	E	M	E	S	S	R

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>
Pioneer Hi-Bred Int'l, Inc.	25R37	V	M	S	VG	S	E	MS	MR	MR
	25R47	V	M	B	E	S	VG	S	R	MR
	25R51	V	ME	B	VG	S	E	S	MR	I
	25R54	V	M	B	VG	M	VG	MR	I	I
	25R63	V	ME	B	VG	S	VG	S	MR	I
	25R78	V	ME	B	VG	S	E	MR	MR	I
Public	Cardinal	V	M	S	VG	MT	VG	MR	MR	MS
	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
	Pat	V	M	B	G	M	VG	ND	MR	MS
	Patterson	V	ME	S	E	M	VG	R	MR	ND
	Roane	V	ML	S	VG	S	VG	MR	MS	MR
	Sisson	V	M	T	E	M	G	S	MS	MR
Truman	V	L	T	VG	MT	G	S	MR	MR	
Royster-Clark, Inc.	V9212	V	M	T	VG	M	VG	I	MR	MR
	V9410	V	E	S	EX	T	VG	I	MR	MR
	V9512	V	ML	S	EX	MT	VG	ND	I	MR
	WX 8501	V	ME	S	VG	MT	VG	ND	MR	MR
Steyer Seeds Inc.	McLane	V	M	S	VG	M	VG	MS	MR	MR
	Merrell	V	E	S	VG	M	VG	MS	MS	MS
	Morrell	V	M	S	VG	S	VG	MR	I	MR
	Wiley	V	ME	T	VG	M	VG	MS	MR	MR
	Wiser	V	ML	S	E	M	VG	MS	MS	MR
UAP	Dyna Gro 401	V	E	T	VG	M	VG	I	I	MR
	Dyna Gro 410	V	ME	S	VG	M	VG	I	R	MR
	Dyna Gro 415	V	ME	S	VG	M	VG	I	I	MR
	Dyna Gro 427	V	M	S	VG	MT	VG	I	MR	MR
	Dyna Gro 444	V	ML	B	VG	M	VG	I	MR	MR
Wilken Seed Grains, Inc.	Wilken 100	V	E	S	VG	M	VG	MR	MR	MR
	Wilken 102	V	E	T	VG	M	VG	MR	I	MR
	Wilken 106	V	ME	S	VG	M	VG	MR	MR	MR
	Wilken 124	V	ML	S	E	M	VG	MR	I	MR
	Wilken 130	V	ME	S	E	M	VG	MR	MR	MR
	Wilken 135	V	M	S	E	M	VG	MR	MR	MR
	Wilken 204	V	ML	S	E	M	VG	MR	I	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. 2005 - 2006 Fusarium head scab evaluation of variety test entries at Urbana.
Varieties with greater resistance have lower numbers.

Company	Entry Name	2006					2005					
		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	Benton	81.7	69.4	70	57.0	73.3	65.0	51.6	53	37.1	56.3	5.2
AgriPro COKER	Branson	70.0	78.6	43	54.8	61.9	--	--	--	--	--	--
AgriPro COKER	Cooper	65.0	66.0	53	42.7	60.7	93.3	54.7	60	51.0	68.4	5.9
AgriPro COKER	Coker 9312	85.0	54.7	43	46.2	59.3	73.3	50.2	40	37.5	53.1	5.0
AgriPro COKER	Coker 9436	70.0	55.7	53	37.2	59.0	95.0	54.1	53	51.8	66.1	7.4
AgriPro COKER	Coker 9511	60.0	11.0	22	6.2	30.0	--	--	--	--	--	--
AgriPro COKER	Coker 9553	73.3	76.2	60	55.7	68.9	--	--	--	--	--	--
Excel Brand Seeds	Excel 173	41.7	40.6	33	20.9	38.0	--	--	--	--	--	--
Excel Brand Seeds	Excel 176	60.0	66.9	25	40.1	48.1	--	--	--	--	--	--
Excel Brand Seeds	Excel 211	50.0	55.2	27	27.1	42.2	10.0	42.5	20	3.0	23.7	3.3
Excel Brand Seeds	Excel 307	40.0	47.6	27	21.3	36.9	24.3	46.3	40	10.6	37.2	2.5
Excel Brand Seeds	Excel 361	55.0	34.8	13	23.8	32.3	--	--	--	--	--	--
Excel Brand Seeds	Excel 392	81.7	75.6	60	61.4	71.2	68.3	61.9	47	42.1	57.7	5.9
Excel Brand Seeds	Excel 399	51.7	65.3	20	34.1	43.1	48.3	56.3	33	28.0	44.8	3.1
Excel Brand Seeds	Excel 400-1	35.0	55.2	30	19.7	39.1	30.0	63.6	40	19.5	44.1	2.7
Excel Brand Seeds	Excel 410 tw	60.0	56.7	43	33.9	52.3	38.3	62.6	33	21.1	43.6	3.2
Excel Brand Seeds	Excel 442	33.3	60.2	27	20.6	38.7	--	--	--	--	--	--
GROWMARK	FS 634	41.7	62.3	25	26.9	41.2	25.0	52.3	30	16.0	35.2	2.4
GROWMARK	FS 637	93.3	74.6	67	69.3	77.0	--	--	--	--	--	--
GROWMARK	FS 645	60.0	40.6	30	24.1	42.2	--	--	--	--	--	--
GROWMARK	FS 657	78.3	85.3	60	66.6	73.1	--	--	--	--	--	--
GROWMARK	FS 8302	61.7	60.5	50	37.9	56.7	76.7	57.9	63	42.6	65.7	5.8
GROWMARK	FS 8309	53.3	42.1	37	23.1	43.3	31.7	38.2	43	11.4	38.3	4.9
JGL	JGL 603	56.7	56.5	37	31.7	48.6	--	--	--	--	--	--
JGL	JGL 604	66.7	60.6	63	40.5	63.5	--	--	--	--	--	--
Ohio Seed Imp. Assn.	Bravo	73.3	58.8	37	43.6	54.3	75.0	64.9	33	47.7	55.3	3.5
Pioneer Hi-Bred Int'l	Pio 25R37	76.7	42.4	53	32.8	57.1	90.0	31.1	53	27.0	57.7	4.5
Pioneer Hi-Bred Int'l	Pio 25R47	75.0	63.7	43	47.3	58.9	91.7	47.4	53	44.2	63.0	23.0
Pioneer Hi-Bred Int'l	Pio 25R51	26.7	16.6	30	4.4	25.0	--	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R54	56.7	42.4	27	27.1	40.4	80.0	51.6	47	43.4	58.2	7.1
Pioneer Hi-Bred Int'l	Pio 25R63	56.7	63.2	47	37.3	54.7	--	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R78	70.0	80.7	47	56.5	63.9	93.3	65.3	33	60.2	60.9	6.2
Public	Cardinal	70.0	72.5	53	50.3	64.1	38.3	44.9	53	18.0	46.3	4.8
Public	Ernie	33.3	44.7	7	14.9	26.1	43.3	52.1	37	19.7	43.3	2.6
Public	Kaskaskia	61.7	60.1	38	38.2	51.8	86.7	57.5	43	50.0	60.6	4.5
Public	Madison	76.7	73.0	70	56.3	72.9	96.7	67.1	60	64.8	73.1	4.2
Public	McCormick	71.7	59.3	37	43.1	54.0	95.0	40.5	37	38.4	55.3	5.0
Public	Patterson	73.3	82.0	33	58.4	59.9	58.3	66.4	33	40.2	50.8	3.8
Public	Roane	66.7	47.8	27	34.6	45.0	63.3	32.6	30	20.4	40.8	3.2
Public	Sisson	96.7	54.8	57	53.5	68.1	88.3	49.7	63	43.6	66.7	13.5
Public	Truman	53.3	62.8	15	34.6	40.9	23.3	14.7	47	3.4	30.1	5.1
	Test Average	60.1	56.3	37.9	35.7	50.1	58.7	54.1	42.5	33.1	50.8	
	LSD (0.05)	26.3	21.5	19.2	19.6	14.6	31.6	22.4	23.7	21.4	16.8	

These data on selected varieties from the U of I trials are from Dr. Fred Kolb's breeding program.

The test nursery was inoculated and mist irrigated. Three replications of 3' rows were evaluated.

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

Severity = the percent of spikelets in a head with symptoms.

Kernel rating = the percent of shriveled seed.

FHB Index = incidence x severity/100.

Varieties with greater resistance have lower numbers.

ISK Index combines incidence, severity, and the % shriveled seed.