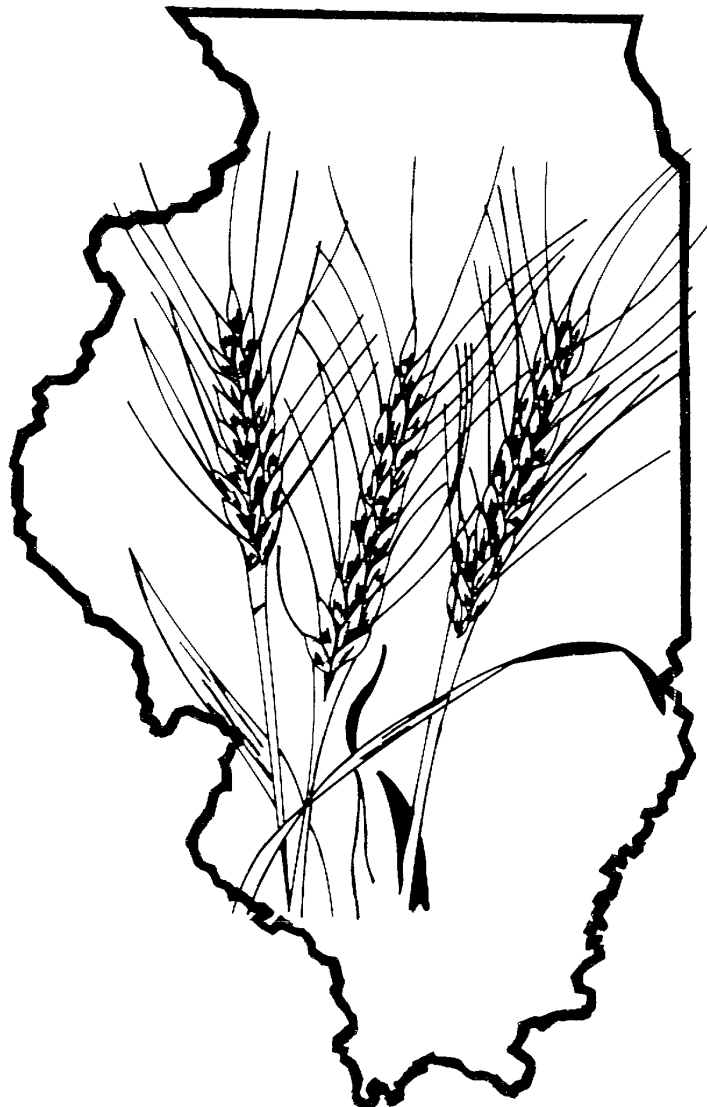


# **WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2005**



**Crop Sciences Special Report 2005-01  
Department of Crop Sciences  
University of Illinois  
July 2005**

**WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2005**  
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**July 2005**

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After the wet fall and high corn and soybean yields of 2004, wheat acreage in Illinois slipped to 650,000 acres in 2004-05. The weather during the fall of 2004 was wetter than normal, and in some places the crop could not be planted by the end of October, leading to both failure to get wheat planted and to some very late planting. Wheat got off to a fair start, though there was some excessive rainfall in January that resulted in ponding.

The crop came through the winter in fairly good condition. The weather in March and April was outstanding for the wheat crop – cool and dry, and thus good conditions for tillering. Conditions stayed relatively dry through most of the spring growing season, and there was virtually no disease on the 2005 crop. Heading was at about the normal time, but continued warm and dry conditions brought the crop along rapidly, and harvest was a few days earlier than normal.

According to the July 2005 estimate, yield on acres harvested this year is 64 bushels per acre. Yields in all of the variety trials reported here were good to excellent, with the exception of the trial at Perry, in West-Southwestern Illinois. Reasons for this are not clear - there was no discernible disease, insect, or weed pressure at that location. The crop did not look as good as expected all spring, however, and it did not yield as well as wheat in other trials nearby. We are rotating onto some different fields there to see if we can produce yields more in line with the potential at that site.

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 16 feet long before harvest. There were three replications. Yields were corrected to 13.5% moisture. As there were few diseases to rate, we did not take systematic ratings at any of the locations. But this year, we are again including Fusarium head scab ratings from Dr. Fred Kolb's misted, inoculated scab trial at Urbana. While we asked seed companies not to include entries treated with seed-applied insecticide (Gaucho), we did treat seed of four varieties in 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. 22	40 Fall 75 Spring	June 23
Belleville	Ron Krausz	Ebbert silt loam	Oct. 7	40 Fall 70 Spring	June 22
Brownstown	Lindell Deal	Cisne silt loam	Oct. 7	40 Fall 70 Spring	June 22
Orr Center	Mike Vose	Clarksdale silt loam	Oct. 4	40 Fall 60 Spring	June 27
Urbana	Bob Dunker Mike Kleiss	Flanagan silt loam	Oct. 1	40 Fall 40 Spring	June 28
DeKalb	Lyle Paul Dave Lindgren	Drummer silty clay loam	Sept. 22	40 Fall 40 Spring	July 11

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Pages 5-10	Yields, including 2- and 3-year averages, from the six trial locations in 2005.
Pages 11-12	Varietal characteristics of varieties for sale in Illinois.
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 2005 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.

AgriPro COKER  
Box 411 East 8<sup>th</sup> 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

Diener Seeds, Inc.  
371 N. Diener Rd.  
Reynolds, IN 47980  
(219) 984-5837

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

GROWMARK, Inc.  
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 Int'l.  
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

Syngenta Seeds, Inc.  
P.O. Box 1240  
Winterville, NC 28590  
(252) 746-3004

UAP Richter Co.  
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, 2005**

Company	Entry	Regional Average			Dixon Springs	Belleville	Brownstown
		Yield	Yield Rank	Test wt	Yield	Yield	Yield
AgriPro COKER	Benton	86.0	7	60.9	82.5	97.0	78.6
AgriPro COKER	Branson	84.1	19	61.3	82.9	95.7	73.8
AgriPro COKER	Cooper	86.1	6	60.6	85.8	92.5	80.1
Brown Seed Enterprises	766	79.3	46	61.5	81.9	88.6	67.5
Brown Seed Enterprises	W36	73.5	70	60.7	74.5	84.7	61.4
Brown Seed Enterprises	X21	88.3	3	61.7	80.9	94.1	89.9
Brown Seed Enterprises	X27	83.0	25	60.9	86.5	91.7	70.7
Diener Seeds	DXW 46	76.7	62	59.9	83.9	81.1	65.0
Diener Seeds	DXW 47	80.0	40	60.8	87.2	84.7	68.1
Diener Seeds	XW 45	84.6	15	63.0	83.7	95.5	74.6
Excel Brand Seeds	201	78.5	50	61.8	76.5	90.9	68.2
Excel Brand Seeds	211	82.6	30	61.6	85.5	91.6	70.6
Excel Brand Seeds	307	81.1	33	60.8	78.0	94.3	71.1
Excel Brand Seeds	333	74.3	67	60.8	74.2	84.3	64.4
Excel Brand Seeds	392	82.8	27	62.8	83.0	95.8	69.7
Excel Brand Seeds	399	84.6	16	61.8	85.5	97.5	70.7
Excel Brand Seeds	354 tw	80.0	41	62.5	77.9	86.1	76.0
Excel Brand Seeds	400-1	84.3	18	61.8	85.5	91.7	75.5
Excel Brand Seeds	410 tw	80.6	37	62.0	90.7	85.9	65.4
GROWMARK	FS 621	80.9	36	59.3	83.0	89.3	70.3
GROWMARK	FS 634	83.2	22	61.1	86.5	91.7	71.5
GROWMARK	FS 652	83.1	23	60.2	78.1	93.0	78.2
GROWMARK	FS 8302	82.9	26	62.0	86.1	95.3	67.3
GROWMARK	FS 8309	79.7	43	60.8	76.6	94.8	67.7
JGL	EXP 501	85.3	10	62.1	83.0	90.5	82.4
JGL	EXP Sabre	82.6	29	60.8	83.3	95.3	69.1
Lewis Hybrids	850	77.9	54	61.1	84.0	83.0	66.7
Lewis Hybrids	855	86.9	4	61.6	84.9	95.8	80.0
Merschman Seeds	Barbie VII	79.4	45	61.3	87.0	86.7	64.4
Merschman Seeds	Bintee VII	77.2	59	61.7	76.1	88.2	67.2
Merschman Seeds	Genie IX	83.9	20	60.9	87.9	94.0	69.9
Merschman Seeds	Katie X	79.6	44	61.1	74.7	93.3	70.9
Miles Seed	Judith	78.0	52	60.6	90.3	77.3	66.4
Miles Seed	Leah	80.9	35	61.2	86.2	86.3	70.2
Miles Seed	Rachel	78.6	49	61.1	85.4	85.3	65.3
Ohio Seed Improvement Assoc	Bravo	74.5	66	61.2	77.7	78.6	67.3
Pioneer HI-Bred International	25R37	77.6	58	61.1	84.2	78.3	70.4
Pioneer HI-Bred International	25R47	89.5	2	60.0	93.4	95.6	79.5
Pioneer HI-Bred International	25R54	84.8	12	60.4	86.6	95.4	72.5
Pioneer HI-Bred International	25R78	86.0	8	61.5	81.8	93.7	82.6
Public	Cardinal	76.0	64	60.2	73.0	79.7	75.1
Public	Clark	71.9	71	60.2	63.3	78.0	74.5
Public	Ernie	75.1	65	60.2	72.4	81.7	71.2
Public	Kaskaskia	79.7	42	63.0	89.5	81.8	67.8
Public	Madison	80.5	38	60.0	84.3	88.1	69.1
Public	McCormick	76.8	61	63.9	78.7	81.9	69.9
Public	Patterson	70.4	72	61.5	70.9	82.3	57.9
Public	Roane	77.1	60	62.8	84.1	81.3	65.9
Public	Sisson	89.8	1	61.9	81.8	98.6	89.1
Public	Truman	83.1	24	60.3	74.6	90.5	84.1
Royster-Clark	V9410	79.3	47	60.5	76.3	81.8	79.7
Royster-Clark	V9412	83.9	21	61.9	76.1	94.2	81.3
Royster-Clark	V9512	78.9	48	60.4	72.5	88.1	76.1
Royster-Clark	V9513	77.9	55	61.1	84.0	85.6	64.0
Steyer Seeds	Alma	84.6	14	60.6	88.9	92.3	72.6
Steyer Seeds	Besecker	77.9	53	60.8	78.3	86.6	68.9
Steyer Seeds	Coffman	81.1	34	60.9	80.4	96.1	66.7
Steyer Seeds	McLane	85.2	11	62.3	85.1	94.7	75.7
Steyer Seeds	Merrell	86.0	9	62.5	91.9	91.4	74.8
Steyer Seeds	Wiley	84.4	17	62.3	80.2	93.2	79.9
Steyer Seeds	Wilson	86.3	5	61.3	88.6	93.7	76.6
Syngenta Seeds	B 980006	74.2	68	61.0	74.5	81.5	66.7
Syngenta Seeds	B 980416	77.9	56	60.4	88.8	78.6	66.2
Syngenta Seeds	B 980582	78.5	51	62.9	84.6	87.6	63.2
Syngenta Seeds	Coker 9312	76.6	63	61.3	89.3	78.7	61.9
Syngenta Seeds	Coker 9436	84.7	13	59.6	81.3	93.5	79.5
Syngenta Seeds	Coker 9663	77.8	57	61.2	78.2	81.6	73.7
UAP Richter	DG 401	82.6	28	60.8	80.4	91.0	76.6
UAP Richter	DG 410	81.6	32	61.5	82.1	94.3	68.4
UAP Richter	DG 415	80.5	39	60.8	81.4	87.4	72.7
UAP Richter	DG 444	73.7	69	61.8	80.9	74.6	65.6
Wilken Seed Grains	W-102	81.6	31	60.8	83.1	83.1	78.5
	Trial Mean	81.1		61.3	82.6	88.6	72.0
	LSD, 10%	7.3		0.9	8.1	7.9	8.1
	CV, %	11.6		1.9	7.3	6.6	8.3

Averaged over four varieties in the Southern Region, Gauchó seed treated increased yield by 2.8 bushels/acre.

**Table 2. Northern Illinois regional wheat variety trial results, 2005**

<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	Benton	86.1	12	58.9	64.7	105.8	87.8
AgriPro COKER	Cooper	86.0	13	59.3	63.3	107.8	87.0
AgriPro COKER	Douglas	86.3	10	59.2	64.4	100.3	94.0
DeRaedt Seed	88	85.8	14	59.6	63.2	110.4	83.9
DeRaedt Seed	7811	83.9	26	59.5	62.1	106.6	82.9
Diener Seeds	D 495	84.5	21	59.3	66.0	106.3	81.3
Diener Seeds	DXW 48	78.2	57	59.0	56.2	102.7	75.6
Diener Seeds	XW 45	82.2	39	60.3	60.8	114.0	71.8
Excel Brand Seeds	201	82.0	41	60.1	58.7	107.5	79.9
Excel Brand Seeds	307	87.0	8	59.7	63.7	115.2	82.2
Excel Brand Seeds	333	81.2	44	60.0	55.5	110.3	77.9
Excel Brand Seeds	388	84.1	25	60.1	58.3	113.9	80.1
Excel Brand Seeds	399	83.8	28	59.9	57.6	112.3	81.5
Excel Brand Seeds	354 tw	80.3	46	60.5	58.7	108.1	74.2
Excel Brand Seeds	400-1	84.5	22	59.7	61.8	108.0	83.6
Excel Brand Seeds	410 tw	84.3	23	59.7	63.4	108.5	81.0
Green Valley Seed	733	80.2	49	58.3	58.2	106.5	75.7
Green Valley Seed	744	82.5	35	58.1	60.2	107.9	79.4
GROWMARK	FS 621	72.6	65	59.7	47.6	97.8	72.6
GROWMARK	FS 634	85.0	18	59.7	60.2	110.8	83.8
GROWMARK	FS 652	88.7	4	59.0	69.0	111.2	86.1
GROWMARK	FS 8302	82.4	37	60.8	57.9	110.7	78.6
GROWMARK	FS 8309	84.3	24	59.2	69.9	97.4	85.4
JGL	EXP 501	80.2	47	59.6	64.5	98.0	78.2
JGL	EXP 505	90.2	3	58.2	70.1	110.8	89.7
Kaltenberg Seed	KW 51	86.6	9	59.6	73.1	108.9	78.0
Kaltenberg Seed	KW 55	88.4	6	58.6	66.5	116.1	82.6
Lewis Hybrids	838	77.9	59	60.1	52.3	103.4	78.1
Lewis Hybrids	850	77.5	61	59.4	51.0	106.3	75.1
Lewis Hybrids	855	83.8	27	59.7	61.0	104.6	86.0
Merschman Seeds	Barbie VII	85.4	15	59.3	60.5	111.3	84.2
Merschman Seeds	Bintee VII	80.2	48	59.4	59.7	106.5	74.3
Merschman Seeds	Genie IX	83.0	33	59.7	56.7	111.1	81.0
Merschman Seeds	Katie X	78.5	55	59.0	56.5	100.3	78.7
Ohio Seed Improvement Assoc	Bravo	78.7	54	58.9	57.9	103.7	74.6
Ohio Seed Improvement Assoc	Daisy	71.2	66	56.8	62.6	84.7	66.4
Pioneer HI-Bred International	25R35	82.3	38	59.2	67.4	97.0	82.4
Pioneer HI-Bred International	25R37	88.7	5	60.2	68.4	116.8	80.9
Pioneer HI-Bred International	25R47	98.8	1	58.2	65.9	122.6	108.0
Public	Cardinal	81.7	42	58.5	63.1	104.1	78.0
Public	Clark	70.2	67	58.6	49.4	90.3	70.8
Public	Ernie	69.2	68	58.8	48.7	89.3	69.5
Public	Kaskaskia	92.3	2	61.2	62.3	123.5	91.1
Public	Madison	82.1	40	57.9	66.9	107.8	71.5
Public	McCormick	83.1	31	62.3	61.7	106.4	81.1
Public	Patterson	75.1	63	59.2	50.1	95.5	79.7
Public	Roane	86.1	11	61.5	60.5	109.5	88.3
Public	Sisson	78.1	58	59.7	57.5	104.3	72.5
Public	Truman	82.4	36	59.2	61.9	106.1	79.3
Royster-Clark	V9122	84.9	19	60.1	60.4	112.5	81.7
Royster-Clark	V9412	84.7	20	60.0	64.3	104.7	85.2
Royster-Clark	V9512	79.5	52	59.0	55.8	102.6	80.2
Syngenta Seeds	B 980006	74.7	64	59.4	52.8	102.9	68.5
Syngenta Seeds	B 980416	80.4	45	58.2	61.0	100.1	80.2
Syngenta Seeds	B 980582	77.9	60	60.7	55.9	103.7	74.2
Syngenta Seeds	Coker 9312	67.4	69	60.4	47.4	92.0	62.7
Syngenta Seeds	Coker 9436	80.1	50	58.3	64.5	98.3	77.6
Syngenta Seeds	Coker 9663	79.0	53	59.0	61.9	100.6	74.6
UAP Richter	DG 410	83.6	29	59.7	56.1	112.2	82.5
UAP Richter	DG 415	85.3	16	60.1	61.1	111.9	82.8
UAP Richter	DG 419	75.8	62	59.4	60.8	95.7	71.1
UAP Richter	DG 444	83.4	30	60.3	61.1	112.5	76.7
Wilken Seed Grains	W-100	83.0	32	60.1	59.9	109.6	79.5
Wilken Seed Grains	W-102	78.4	56	60.4	50.5	108.5	76.3
Wilken Seed Grains	W-106	81.6	43	59.6	57.8	109.5	77.7
Wilken Seed Grains	W-124	82.9	34	61.0	59.2	110.6	78.9
Wilken Seed Grains	W-135	87.5	7	59.4	61.4	114.3	86.8
Wilken Seed Grains	W-154	79.5	51	58.8	61.1	104.6	72.9
Wilken Seed Grains	W-204	85.1	17	59.5	61.6	111.6	82.1
	Trial Mean	82.1		59.6	59.6	107.1	79.7
	LSD, 10%	6.9		1.3	6.9	6.5	5.2
	CV, %	10.8		2.8	8.6	4.5	4.9

Averaged over four varieties in the Northern Region, Gaucho seed treated decreased yield by 0.4 bushels/acre.

**Table 3. Results of the 2005 wheat variety trial at Dixon Springs, in far southeastern Illinois.**

<u>Company</u>	<u>Variety</u>	<u>Yield</u>	<u>Yield</u>		<u>Height</u>	<u>2-yr avg 2004-05</u>	<u>3-yr avg 2003-05</u>
			<u>Rank</u>	<u>Test wt.</u>			
AgriPro COKER	Benton	82.5	39	60.6	35.0	71.4	68.9
AgriPro COKER	Branson	85.8	18	59.8	33.3		
AgriPro COKER	Cooper	82.9	38	60.6	34.3	79.1	
Brown Seed Enterprises	766	81.9	41	61.9	34.0	77.6	
Brown Seed Enterprises	W36	74.5	66	59.8	38.3	74.6	
Brown Seed Enterprises	X21	80.9	46	61.4	35.3	76.5	
Brown Seed Enterprises	X27	86.5	15	60.1	37.7	79.4	
Diener Seeds	DXW 46	83.9	31	61.0	38.3		
Diener Seeds	DXW 47	87.2	11	60.7	38.7		
Diener Seeds	XW 45	83.7	32	62.7	34.0		
Excel Brand Seeds	201	76.5	59	61.0	36.0	74.4	74.8
Excel Brand Seeds	211	85.5	21	61.5	38.0	77.6	74.7
Excel Brand Seeds	307	78.0	55	59.7	37.7	76.8	
Excel Brand Seeds	333	74.2	67	60.2	38.0		
Excel Brand Seeds	392	83.0	35	62.3	40.7	83.6	
Excel Brand Seeds	399	85.5	20	61.1	37.0		
Excel Brand Seeds	354 tw	77.9	56	61.9	35.0		
Excel Brand Seeds	400-1	85.5	19	61.5	37.3	83.0	79.5
Excel Brand Seeds	410 tw	90.7	3	61.8	36.7		
GROWMARK	FS 621	83.0	36	58.6	34.7	75.2	71.4
GROWMARK	FS 634	86.5	14	61.0	38.0	76.6	
GROWMARK	FS 652	78.1	54	58.5	33.0	77.4	70.9
GROWMARK	FS 8302	86.1	17	62.3	37.0	83.4	
GROWMARK	FS 8309	76.6	58	60.6	37.3	71.6	
JGL	EXP 501	83.0	37	61.5	35.3		
JGL	EXP Sabre	83.3	33	60.6	39.3		
Lewis Hybrids	850	84.0	29	61.9	38.0		
Lewis Hybrids	855	84.9	24	61.0	36.3	80.5	
Merschman Seeds	Barbie VII	87.0	12	61.5	37.7	80.2	
Merschman Seeds	Bintee VII	76.1	62	60.7	38.3		
Merschman Seeds	Genie IX	87.9	10	60.6	39.0	80.6	
Merschman Seeds	Katie X	74.7	63	60.6	38.0		
Miles Seed	Judith	90.3	4	60.6	40.0	80.3	
Miles Seed	Leah	86.2	16	60.2	33.7		
Miles Seed	Rachel	85.4	22	61.0	35.3		
Ohio Seed Improvement Assoc	Bravo	77.7	57	61.8	40.0	69.0	65.8
Pioneer HI-Bred International	25R37	84.2	27	61.1	33.7	72.7	71.1
Pioneer HI-Bred International	25R47	93.4	1	58.9	33.7	86.7	82.7
Pioneer HI-Bred International	25R54	86.6	13	60.6	35.7		
Pioneer HI-Bred International	25R78	81.8	42	61.5	34.0	76.1	69.3
Public	Cardinal	73.0	68	59.4	43.3	66.9	64.4
Public	Clark	63.3	72	60.2	34.3	55.2	53.8
Public	Ernie	72.4	70	59.4	31.0	58.6	62.1
Public	Kaskaskia	89.5	5	63.5	41.7	78.0	73.1
Public	Madison	84.3	26	59.3	37.0	66.5	
Public	McCormick	78.7	51	63.5	33.0	75.2	74.9
Public	Patterson	70.9	71	61.9	38.0	61.7	58.1
Public	Roane	84.1	28	63.1	36.0	79.4	75.1
Public	Sisson	81.8	43	61.0	33.0	63.5	63.2
Public	Truman	74.6	64	57.3	39.0	74.2	
Royster-Clark	V9410	76.3	60	60.6	37.0	73.1	
Royster-Clark	V9412	76.1	61	61.4	36.0	73.2	
Royster-Clark	V9512	72.5	69	59.8	37.7		
Royster-Clark	V9513	84.0	30	60.7	39.3		
Steyer Seeds	Alma	88.9	7	60.2	35.0		
Steyer Seeds	Besecker	78.3	52	59.8	36.0	77.1	
Steyer Seeds	Coffman	80.4	48	61.4	38.7		
Steyer Seeds	McLane	85.1	23	61.5	40.0		
Steyer Seeds	Merrell	91.9	2	62.3	35.3		
Steyer Seeds	Wiley	80.2	50	61.9	32.3	73.5	
Steyer Seeds	Wilson	88.6	9	60.6	34.7		
Syngenta Seeds	B 980006	74.5	65	61.5	36.3		
Syngenta Seeds	B 980416	88.8	8	59.4	34.3		
Syngenta Seeds	B 980582	84.6	25	62.6	38.0		
Syngenta Seeds	Coker 9312	89.3	6	60.2	33.7	73.5	
Syngenta Seeds	Coker 9436	81.3	45	58.2	35.0	76.6	
Syngenta Seeds	Coker 9663	78.2	53	60.2	38.0	71.7	70.9
UAP Richter	DG 401	80.4	49	60.1	39.0	72.8	72.7
UAP Richter	DG 410	82.1	40	61.1	36.0		
UAP Richter	DG 415	81.4	44	60.7	38.7	77.9	73.6
UAP Richter	DG 444	80.9	47	60.6	40.7	74.7	
Wilken Seed Grains	W-102	83.1	34	59.4	38.0	76.7	71.5
		82.6		60.8	36.7	74.8	70.1
		8.1		1.2	2.5		
		7.3		1.4	5.0		

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

**Table 4. Results of the 2005 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 2004-05</u>	<u>3-yr avg 2003-05</u>
AgriPro COKER	Benton	97.0	3	60.7	33.0	81.9	84.9
AgriPro COKER	Branson	92.5	26	60.2	34.7		
AgriPro COKER	Cooper	95.7	7	60.8	35.3	86.1	
Brown Seed Enterprises	766	88.6	38	60.8	38.0	80.7	
Brown Seed Enterprises	W36	84.7	52	60.7	38.0	80.5	
Brown Seed Enterprises	X21	94.1	18	62.1	37.0	85.8	
Brown Seed Enterprises	X27	91.7	29	60.7	40.0	83.4	
Diener Seeds	DXW 46	81.1	64	58.6	40.0		
Diener Seeds	DXW 47	84.7	51	61.1	41.7		
Diener Seeds	XW 45	95.5	9	63.2	37.0		
Excel Brand Seeds	201	90.9	34	61.6	41.0	83.8	85.8
Excel Brand Seeds	211	91.6	31	61.2	40.3	84.4	84.9
Excel Brand Seeds	307	94.3	16	61.1	40.3	87.6	87.8
Excel Brand Seeds	333	84.3	53	61.2	39.3		
Excel Brand Seeds	392	95.8	6	62.4	41.0	89.0	
Excel Brand Seeds	399	97.5	2	61.6	42.7		
Excel Brand Seeds	354 tw	86.1	47	62.4	36.7		
Excel Brand Seeds	400-1	91.7	28	61.5	41.0	81.7	80.3
Excel Brand Seeds	410 tw	85.9	48	60.8	39.0		
GROWMARK	FS 621	89.3	37	59.5	37.3	78.0	77.0
GROWMARK	FS 634	91.7	30	60.7	40.3	81.7	
GROWMARK	FS 652	93.0	25	60.2	35.3	84.3	81.5
GROWMARK	FS 8302	95.3	12	62.1	38.3	84.1	
GROWMARK	FS 8309	94.8	13	61.1	38.0	78.0	
JGL	EXP 501	90.5	35	61.2	35.0		
JGL	EXP Sabre	95.3	11	60.0	40.7		
Lewis Hybrids	850	83.0	55	59.5	39.0		
Lewis Hybrids	855	95.8	5	62.4	41.3	85.8	
Merschman Seeds	Barbie VII	86.7	44	61.1	40.3	81.1	
Merschman Seeds	Bintee VII	88.2	39	61.6	40.3		
Merschman Seeds	Genie IX	94.0	19	61.1	41.0	84.8	
Merschman Seeds	Katie X	93.3	23	60.7	40.0		
Miles Seed	Judith	77.3	71	59.9	40.0	71.9	
Miles Seed	Leah	86.3	46	61.6	34.3		
Miles Seed	Rachel	85.3	50	60.8	38.7		
Ohio Seed Improvement Assoc	Bravo	78.6	68	60.7	39.0	71.8	72.0
Pioneer HI-Bred International	25R37	78.3	69	60.7	35.3	73.6	76.9
Pioneer HI-Bred International	25R47	95.6	8	60.4	36.3	88.2	89.6
Pioneer HI-Bred International	25R54	95.4	10	59.9	37.0		
Pioneer HI-Bred International	25R78	93.7	21	62.0	34.0	78.5	78.7
Public	Cardinal	79.7	65	60.3	43.0	67.6	65.3
Public	Clark	78.0	70	59.1	38.3	67.4	57.4
Public	Ernie	81.7	60	59.9	36.3	73.1	76.4
Public	Kaskaskia	81.8	58	62.4	40.7	76.2	77.7
Public	Madison	88.1	40	59.9	38.3	77.7	76.4
Public	McCormick	81.9	57	63.2	35.7	73.7	74.4
Public	Patterson	82.3	56	60.7	39.3	71.1	70.2
Public	Roane	81.3	63	62.4	36.0	77.0	76.8
Public	Sisson	98.6	1	62.0	33.7	83.2	73.0
Public	Truman	90.5	36	61.6	39.3	80.4	
Royster-Clark	V9410	81.8	59	59.9	40.3	76.7	
Royster-Clark	V9412	94.2	17	62.4	37.0	81.9	
Royster-Clark	V9512	88.1	41	59.9	41.3		
Royster-Clark	V9513	85.6	49	60.8	39.7		
Steyer Seeds	Alma	92.3	27	60.2	35.0		
Steyer Seeds	Besecker	86.6	45	60.3	38.3	76.4	
Steyer Seeds	Coffman	96.1	4	60.0	41.3		
Steyer Seeds	McLane	94.7	14	62.4	38.7		
Steyer Seeds	Merrell	91.4	32	62.0	37.0		
Steyer Seeds	Wiley	93.2	24	62.3	36.7	83.5	
Steyer Seeds	Wilson	93.7	20	61.2	38.0		
Syngenta Seeds	B 980006	81.5	62	59.9	39.0		
Syngenta Seeds	B 980416	78.6	67	60.3	36.3		
Syngenta Seeds	B 980582	87.6	42	63.3	38.3		
Syngenta Seeds	Coker 9312	78.7	66	60.7	35.3	73.3	
Syngenta Seeds	Coker 9436	93.5	22	60.0	35.0	80.8	
Syngenta Seeds	Coker 9663	81.6	61	62.0	41.0	79.4	80.2
UAP Richter	DG 401	91.0	33	60.8	41.0	80.8	79.7
UAP Richter	DG 410	94.3	15	61.1	39.3		
UAP Richter	DG 415	87.4	43	60.3	42.0	78.2	78.5
UAP Richter	DG 444	74.6	73	61.5	39.3	72.1	
Wilken Seed Grains	W-102	83.1	54	61.1	41.7	75.9	78.5
	Trial Mean	88.6		61.0	38.5	79.4	77.7
	LSD, 10%	7.9		1.1	2.1		
	CV, %	6.6		1.3	4.1		

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

**Table 5. Results of the 2005 wheat variety trial at Brownstown, in south 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</u>	<u>3-yr avg</u>
						<u>2003,05</u>	<u>2001,03,05</u>
AgriPro COKER	Benton	78.6	13	61.5	32.0	89.3	89.3
AgriPro COKER	Branson	80.1	7	61.9	34.0		
AgriPro COKER	Cooper	73.8	26	62.7	34.7		
Brown Seed Enterprises	766	67.5	52	61.9	34.0		
Brown Seed Enterprises	W36	61.4	71	61.5	36.3		
Brown Seed Enterprises	X21	89.9	1	61.5	37.7		
Brown Seed Enterprises	X27	70.7	36	61.9	39.0		
Diener Seeds	DXW 46	65.0	65	60.2	38.3		
Diener Seeds	DXW 47	68.1	49	60.7	38.0		
Diener Seeds	XW 45	74.6	24	63.1	35.0		
Excel Brand Seeds	201	68.2	48	62.7	39.3	82.2	
Excel Brand Seeds	211	70.6	37	62.3	40.7	86.1	
Excel Brand Seeds	307	71.1	33	61.5	38.7	87.6	85.6
Excel Brand Seeds	333	64.4	67	61.1	37.3	81.1	
Excel Brand Seeds	392	69.7	43	63.5	38.7		
Excel Brand Seeds	399	70.7	35	62.6	38.7		
Excel Brand Seeds	354 tw	76.0	19	63.1	35.0		
Excel Brand Seeds	400-1	75.5	21	62.3	39.0	89.3	85.8
Excel Brand Seeds	410 tw	65.4	63	63.5	38.3		
GROWMARK	FS 621	70.3	39	59.8	35.7	78.6	77.9
GROWMARK	FS 634	71.5	31	61.4	37.0		
GROWMARK	FS 652	78.2	15	61.9	33.0	86.8	
GROWMARK	FS 8302	67.3	54	61.8	33.7		
GROWMARK	FS 8309	67.7	51	60.7	36.3		
JGL	EXP 501	82.4	5	63.5	34.7		
JGL	EXP Sabre	69.1	45	61.9	38.7		
Lewis Hybrids	850	66.7	56	61.9	38.7		
Lewis Hybrids	855	80.0	8	61.5	40.7		
Merschman Seeds	Barbie VII	64.4	66	61.5	39.3		
Merschman Seeds	Bintee VII	67.2	55	62.7	38.7		
Merschman Seeds	Genie IX	69.9	42	61.1	38.7		
Merschman Seeds	Katie X	70.9	34	61.9	39.7		
Miles Seed	Judith	66.4	59	61.4	37.3		
Miles Seed	Leah	70.2	40	61.9	33.3		
Miles Seed	Rachel	65.3	64	61.5	35.3		
Ohio Seed Improvement Assoc	Bravo	67.3	53	61.1	38.0	81.0	
Pioneer HI-Bred International	25R37	70.4	38	61.5	33.3	85.7	87.9
Pioneer HI-Bred International	25R47	79.5	11	60.7	34.3	89.0	
Pioneer HI-Bred International	25R54	72.5	30	60.7	35.0		
Pioneer HI-Bred International	25R78	82.6	4	61.1	33.7	92.0	
Public	Cardinal	75.1	22	61.0	43.3	85.9	83.3
Public	Clark	74.5	25	61.4	38.0	79.6	73.8
Public	Ernie	71.2	32	61.5	34.7	82.2	79.6
Public	Kaskaskia	67.8	50	63.1	40.3	80.6	79.5
Public	Madison	69.1	44	60.7	37.3	77.8	77.3
Public	McCormick	69.9	41	64.9	33.0	81.4	
Public	Patterson	57.9	72	61.9	37.0	75.8	73.6
Public	Roane	65.9	61	62.8	33.3	76.9	76.5
Public	Sisson	89.1	2	62.7	33.7	91.3	90.1
Public	Truman	84.1	3	61.9	38.0		
Royster-Clark	V9410	79.7	10	61.1	39.3		
Royster-Clark	V9412	81.3	6	61.9	35.7		
Royster-Clark	V9512	76.1	18	61.5	41.0		
Royster-Clark	V9513	64.0	68	61.9	37.3		
Steyer Seeds	Alma	72.6	29	61.5	33.7		
Steyer Seeds	Besecker	68.9	46	62.3	39.7		
Steyer Seeds	Coffman	66.7	57	61.1	38.0		
Steyer Seeds	McLane	75.7	20	63.1	40.3		
Steyer Seeds	Merrell	74.8	23	63.1	35.7		
Steyer Seeds	Wiley	79.9	9	62.7	34.3		
Steyer Seeds	Wilson	76.6	16	62.3	33.7		
Syngenta Seeds	B 980006	66.7	58	61.5	37.0		
Syngenta Seeds	B 980416	66.2	60	61.5	34.0		
Syngenta Seeds	B 980582	63.2	69	62.7	36.3		
Syngenta Seeds	Coker 9312	61.9	70	63.2	33.3		
Syngenta Seeds	Coker 9436	79.5	12	60.7	32.7		
Syngenta Seeds	Coker 9663	73.7	27	61.4	40.0	80.6	78.9
UAP Richter	DG 401	76.6	17	61.5	39.0	88.4	
UAP Richter	DG 410	68.4	47	62.4	39.0		
UAP Richter	DG 415	72.7	28	61.4	36.7	84.8	
UAP Richter	DG 444	65.6	62	63.2	39.0		
Wilken Seed Grains	W-102	78.5	14	61.9	40.3	89.1	
	Trial Mean	72.0		62.0	36.9	84.1	81.4
	LSD, 10%	8.1		1.4	2.4		
	CV, %	8.3		1.7	4.8		

Averaged over four varieties in this location, Gaucho seed treated increased yield by 4.1 bushels/acre.



**Table 6. Results of the 2005 wheat variety trial at Perry, in western Illinois.**

<u>Company</u>	<u>Variety</u>	<u>Yield</u>	<u>Yield</u>		<u>Height</u>	<u>2-yr avg</u>	<u>3-yr avg</u>
			<u>Rank</u>	<u>Test wt.</u>		<u>2004-05</u>	<u>2003-05</u>
AgriPro COKER	Benton	64.7	11	59.8	32.3	79.5	89.1
AgriPro COKER	Cooper	63.3	18	60.6	30.3	79.0	
AgriPro COKER	Douglas	64.4	14	59.8	31.7	73.0	81.2
DeRaedt Seed	88	63.2	19	61.1	34.3		
DeRaedt Seed	7811	62.1	23	60.7	34.3	72.9	81.1
Diener Seeds	D 495	66.0	9	60.6	32.3	83.8	
Diener Seeds	DXW 48	56.2	56	59.4	35.3		
Diener Seeds	XW 45	60.8	35	61.1	31.3		
Excel Brand Seeds	201	58.7	45	61.0	34.0		
Excel Brand Seeds	307	63.7	16	60.3	36.7	79.5	90.2
Excel Brand Seeds	333	55.5	60	61.5	35.0	78.6	88.8
Excel Brand Seeds	388	58.3	47	61.1	36.7		
Excel Brand Seeds	399	57.6	52	61.9	35.0		
Excel Brand Seeds	354 tw	58.7	46	61.1	30.7		
Excel Brand Seeds	400-1	61.8	26	60.7	37.0	81.4	92.1
Excel Brand Seeds	410 tw	63.4	17	61.1	36.0	78.0	
Green Vally Seed	733	58.2	48	59.0	36.0	80.6	
Green Vally Seed	744	60.2	41	57.8	35.3		
GROWMARK	FS 621	47.6	68	60.3	32.0		
GROWMARK	FS 634	60.2	40	60.7	36.7	77.7	
GROWMARK	FS 652	69.0	4	58.9	30.3	84.3	88.2
GROWMARK	FS 8302	57.9	50	61.1	32.3	77.5	
GROWMARK	FS 8309	69.9	3	60.2	33.7	74.8	
JGL	EXP 501	64.5	12	61.1	33.3		
JGL	EXP 505	70.1	2	58.1	38.0		
Kaltenberg Seed	KW 51	73.1	1	59.8	32.0		
Kaltenberg Seed	KW 55	66.5	8	58.6	35.7		
Lewis Hybrids	838	52.3	62	61.1	36.3		
Lewis Hybrids	850	51.0	63	60.6	33.0		
Lewis Hybrids	855	61.0	34	60.6	36.3	78.7	
Merschman Seeds	Barbie VII	60.5	37	60.7	35.7	79.4	
Merschman Seeds	Bintee VII	59.7	43	60.7	34.0		
Merschman Seeds	Genie IX	56.7	54	59.8	35.7	76.2	
Merschman Seeds	Katie X	56.5	55	59.0	35.7		
Ohio Seed Improvement Assoc	Bravo	57.9	49	60.2	34.3	72.2	82.9
Ohio Seed Improvement Assoc	Daisy	62.6	21	59.3	33.7	72.8	83.2
Pioneer HI-Bred International	25R35	67.4	6	60.7	32.3		
Pioneer HI-Bred International	25R37	68.4	5	60.6	31.7	79.6	88.4
Pioneer HI-Bred International	25R47	65.9	10	59.4	30.3	85.3	96.6
Public	Cardinal	63.1	20	59.4	37.7	75.3	84.0
Public	Clark	49.4	66	59.9	32.3	65.4	68.9
Public	Ernie	48.7	67	59.8	31.3	69.6	75.9
Public	Kaskaskia	62.3	22	62.3	36.7	76.0	85.7
Public	Madison	66.9	7	58.6	33.7	79.7	88.5
Public	McCormick	61.7	27	63.1	33.0	73.9	81.0
Public	Patterson	50.1	65	60.3	35.7	68.0	75.2
Public	Roane	60.5	38	63.1	30.3	72.8	81.4
Public	Sisson	57.5	53	60.7	31.0	76.1	80.6
Public	Truman	61.9	24	59.4	34.0	78.3	
Royster-Clark	V9122	60.4	39	61.1	37.3	77.9	89.0
Royster-Clark	V9412	64.3	15	60.7	31.3	82.0	
Royster-Clark	V9512	55.8	59	60.6	35.0		
Syngenta Seeds	B 980006	52.8	61	59.8	34.7		
Syngenta Seeds	B 980416	61.0	33	59.0	31.3		
Syngenta Seeds	B 980582	55.9	58	62.3	33.0		
Syngenta Seeds	Coker 9312	47.4	69	61.5	30.3	67.8	
Syngenta Seeds	Coker 9436	64.5	13	59.0	29.3	80.1	
Syngenta Seeds	Coker 9663	61.9	25	59.3	36.7	79.7	87.0
UAP Richter	DG 410	56.1	57	60.2	36.0		
UAP Richter	DG 415	61.1	30	61.1	35.7	76.2	
UAP Richter	DG 419	60.8	36	60.2	36.7	70.4	
UAP Richter	DG 444	61.1	31	60.7	37.3		
Wilken Seed Grains	W-100	59.9	42	59.8	37.7		
Wilken Seed Grains	W-102	50.5	64	61.0	35.3		
Wilken Seed Grains	W-106	57.8	51	60.6	36.0	79.5	
Wilken Seed Grains	W-124	59.2	44	61.9	36.3	76.5	
Wilken Seed Grains	W-135	61.4	29	60.2	35.0		
Wilken Seed Grains	W-154	61.1	32	59.5	34.3	72.3	82.5
Wilken Seed Grains	W-204	61.6	28	60.2	37.3	78.6	88.1
	Trial Mean	59.6		60.3	34.1	76.7	84.6
	LSD, 10%	6.9		1.8	2.1		
	CV, %	8.6		2.2	4.5		

Averaged over four varieties in this location, Gaucho seed treated decreased yield by 4.8 bushels/acre.

**Table 7. Results of the 2005 wheat variety trial at Urbana, in east 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 2004-05</u>	<u>3-yr avg 2003-05</u>
AgriPro COKER	Benton	105.8	43	59.9	39.0	95.2	104.6
AgriPro COKER	Cooper	107.8	34	59.5	38.0	103.1	
AgriPro COKER	Douglas	100.3	57	59.4	39.7	96.5	102.6
DeRaedt Seed	88	110.4	22	60.7	41.7		
DeRaedt Seed	7811	106.6	36	61.1	42.3	100.2	107.1
Diener Seeds	D 495	106.3	41	60.7	39.7	100.8	
Diener Seeds	DXW 48	102.7	53	61.1	43.7		
Diener Seeds	XW 45	114.0	7	61.5	40.0		
Excel Brand Seeds	201	107.5	35	60.3	43.7		
Excel Brand Seeds	307	115.2	5	61.9	42.3	108.3	109.4
Excel Brand Seeds	333	110.3	23	61.5	40.7	100.9	106.6
Excel Brand Seeds	388	113.9	8	61.9	42.7		
Excel Brand Seeds	399	112.3	11	61.1	42.7		
Excel Brand Seeds	354 tw	108.1	30	61.9	36.7		
Excel Brand Seeds	400-1	108.0	31	59.9	43.0	101.4	105.4
Excel Brand Seeds	410 tw	108.5	29	60.3	40.7	102.4	
Green Vally Seed	733	106.5	37	59.9	42.0	102.8	
Green Vally Seed	744	107.9	32	59.9	42.3		
GROWMARK	FS 621	97.8	61	61.0	37.0		
GROWMARK	FS 634	110.8	19	61.4	42.7	106.7	
GROWMARK	FS 652	111.2	16	59.4	38.7	101.5	109.0
GROWMARK	FS 8302	110.7	20	61.8	41.3	99.9	
GROWMARK	FS 8309	97.4	62	58.7	39.7	92.2	
JGL	EXP 501	98.0	60	60.7	39.3		
JGL	EXP 505	110.8	18	59.5	44.7		
Kaltenberg Seed	KW 51	108.9	27	62.4	40.7		
Kaltenberg Seed	KW 55	116.1	4	60.3	43.3		
Lewis Hybrids	838	103.4	51	61.1	42.3		
Lewis Hybrids	850	106.3	40	60.6	41.7		
Lewis Hybrids	855	104.6	46	60.7	43.3	101.4	
Merschman Seeds	Barbie VII	111.3	15	59.5	42.3	103.3	
Merschman Seeds	Bintee VII	106.5	38	60.3	42.0		
Merschman Seeds	Genie IX	111.1	17	61.1	43.0	106.5	
Merschman Seeds	Katie X	100.3	56	61.1	44.0		
Ohio Seed Improvement Assoc	Bravo	103.7	50	60.3	42.7	96.2	95.4
Ohio Seed Improvement Assoc	Daisy	84.7	69	56.2	39.7	79.8	86.0
Pioneer HI-Bred International	25R35	97.0	63	58.2	41.3		
Pioneer HI-Bred International	25R37	116.8	3	60.7	37.3	103.1	113.1
Pioneer HI-Bred International	25R47	122.6	2	57.8	35.7	112.2	115.2
Public	Cardinal	104.1	48	58.6	45.7	91.6	95.7
Public	Clark	90.3	67	61.0	41.7	86.6	92.1
Public	Ernie	89.3	68	60.7	36.3	89.7	91.7
Public	Kaskaskia	123.5	1	61.9	43.0	105.8	108.3
Public	Madison	107.8	33	59.4	39.7	98.5	103.9
Public	McCormick	106.4	39	63.2	37.7	93.2	100.0
Public	Patterson	95.5	65	60.3	42.3	91.3	95.6
Public	Roane	109.5	25	62.0	37.3	101.4	104.1
Public	Sisson	104.3	47	60.7	36.7	98.4	102.2
Public	Truman	106.1	42	59.9	41.7	100.7	
Royster-Clark	V9122	112.5	9	61.5	43.3	102.8	104.4
Royster-Clark	V9412	104.7	44	61.1	40.7	99.3	
Royster-Clark	V9512	102.6	54	60.2	43.3		
Syngenta Seeds	B 980006	102.9	52	60.6	38.7		
Syngenta Seeds	B 980416	100.1	58	58.6	38.3		
Syngenta Seeds	B 980582	103.7	49	61.6	42.0		
Syngenta Seeds	Coker 9312	92.0	66	61.5	37.0	88.4	
Syngenta Seeds	Coker 9436	98.3	59	58.2	36.7	94.7	
Syngenta Seeds	Coker 9663	100.6	55	60.3	44.3	95.5	99.3
UAP Richter	DG 410	112.2	12	61.1	42.7		
UAP Richter	DG 415	111.9	13	61.1	43.7	106.0	
UAP Richter	DG 419	95.7	64	59.8	42.0	87.5	
UAP Richter	DG 444	112.5	10	59.9	44.7		
Wilken Seed Grains	W-100	109.6	24	62.7	44.0		
Wilken Seed Grains	W-102	108.5	28	61.9	42.7		
Wilken Seed Grains	W-106	109.5	26	60.8	41.3	104.5	
Wilken Seed Grains	W-124	110.6	21	60.3	44.0	100.8	
Wilken Seed Grains	W-135	114.3	6	60.7	42.3		
Wilken Seed Grains	W-154	104.6	45	58.8	43.3	91.3	98.3
Wilken Seed Grains	W-204	111.6	14	61.5	42.0	102.1	104.0
	Trial Mean	107.1		60.6	41.1	98.7	102.3
	LSD, 10%	6.5		1.5	1.7		
	CV, %	4.5		1.8	3.0		

Averaged over four varieties in this location, Gaucho seed treated increased yield by 0.8 bushels/acre.

**Table 8. Results of the 2005 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 2004-05</u>	<u>3-yr avg 2003-05</u>
AgriPro COKER	Benton	87.8	6	57.1	32.7	87.9	101.3
AgriPro COKER	Cooper	87.0	7	57.8	31.0	86.9	
AgriPro COKER	Douglas	94.0	2	58.2	35.3	86.6	100.9
DeRaedt Seed	88	83.9	14	57.0	37.3		
DeRaedt Seed	7811	82.9	17	56.6	33.7	83.9	99.6
Diener Seeds	D 495	81.3	26	56.6	29.3	82.1	
Diener Seeds	DXW 48	75.6	52	56.6	37.7		
Diener Seeds	XW 45	71.8	62	58.2	32.3		
Excel Brand Seeds	201	79.9	34	59.0	38.0		
Excel Brand Seeds	307	82.2	22	57.0	37.0	85.7	101.2
Excel Brand Seeds	333	77.9	46	57.0	34.7	80.6	100.2
Excel Brand Seeds	388	80.1	33	57.4	36.7		
Excel Brand Seeds	399	81.5	25	56.6	36.0		
Excel Brand Seeds	354 tw	74.2	58	58.6	32.0		
Excel Brand Seeds	400-1	83.6	16	58.7	36.3	83.4	101.4
Excel Brand Seeds	410 tw	81.0	28	57.8	36.7	84.7	
Green Vally Seed	733	75.7	51	56.2	34.7	83.6	
Green Vally Seed	744	79.4	37	56.6	35.7		
GROWMARK	FS 621	72.6	60	57.8	33.7		
GROWMARK	FS 634	83.8	15	57.0	36.3	84.2	
GROWMARK	FS 652	86.1	9	58.7	33.3	87.2	101.2
GROWMARK	FS 8302	78.6	41	59.5	32.3	82.3	
GROWMARK	FS 8309	85.4	11	58.7	34.7	88.7	
JGL	EXP 501	78.2	42	57.0	31.7		
JGL	EXP 505	89.7	4	57.0	39.3		
Kaltenberg Seed	KW 51	78.0	44	56.6	30.0		
Kaltenberg Seed	KW 55	82.6	19	57.1	36.3		
Lewis Hybrids	838	78.1	43	58.2	35.3		
Lewis Hybrids	850	75.1	53	57.0	34.3		
Lewis Hybrids	855	86.0	10	57.8	36.7	85.8	
Merschman Seeds	Barbie VII	84.2	13	57.8	37.7	87.5	
Merschman Seeds	Bintee VII	74.3	56	57.4	36.3		
Merschman Seeds	Genie IX	81.0	29	58.2	35.3	87.9	
Merschman Seeds	Katie X	78.7	40	57.0	35.0		
Ohio Seed Improvement Assoc	Bravo	74.6	54	56.2	34.7	73.0	89.9
Ohio Seed Improvement Assoc	Daisy	66.4	68	54.9	35.0	69.2	87.5
Pioneer HI-Bred International	25R35	82.4	21	58.7	33.7		
Pioneer HI-Bred International	25R37	80.9	30	59.4	32.7	82.6	99.6
Pioneer HI-Bred International	25R47	108.0	1	57.5	32.7	95.8	114.6
Public	Cardinal	78.0	45	57.4	37.3	75.9	90.2
Public	Clark	70.8	65	54.9	35.3	67.8	80.0
Public	Ernie	69.5	66	55.8	30.3	73.7	85.6
Public	Kaskaskia	91.1	3	59.5	39.7	87.5	104.7
Public	Madison	71.5	63	55.7	36.0	70.1	89.4
Public	McCormick	81.1	27	60.7	30.7	79.0	90.7
Public	Patterson	79.7	35	57.0	35.0	76.4	85.6
Public	Roane	88.3	5	59.5	31.3	80.5	98.4
Public	Sisson	72.5	61	57.8	31.0	73.3	87.2
Public	Truman	79.3	38	58.3	36.3	77.4	
Royster-Clark	V9122	81.7	24	57.8	36.7	82.3	98.3
Royster-Clark	V9412	85.2	12	58.2	29.7	89.0	
Royster-Clark	V9512	80.2	32	56.2	37.7		
Syngenta Seeds	B 980006	68.5	67	57.8	36.0		
Syngenta Seeds	B 980416	80.2	31	57.0	30.7		
Syngenta Seeds	B 980582	74.2	57	58.3	30.7		
Syngenta Seeds	Coker 9312	62.7	69	58.3	29.0	67.8	
Syngenta Seeds	Coker 9436	77.6	48	57.8	28.7	82.8	
Syngenta Seeds	Coker 9663	74.6	55	57.5	33.0	75.3	94.5
UAP Richter	DG 410	82.5	20	57.8	35.3		
UAP Richter	DG 415	82.8	18	58.3	36.0	82.5	
UAP Richter	DG 419	71.1	64	58.3	36.3	74.5	
UAP Richter	DG 444	76.7	49	60.3	37.7		
Wilken Seed Grains	W-100	79.5	36	57.8	34.7		
Wilken Seed Grains	W-102	76.3	50	58.2	36.0		
Wilken Seed Grains	W-106	77.7	47	57.4	36.0	85.4	
Wilken Seed Grains	W-124	78.9	39	60.7	35.3	85.0	
Wilken Seed Grains	W-135	86.8	8	57.4	36.7		
Wilken Seed Grains	W-154	72.9	59	58.3	36.7	75.3	93.8
Wilken Seed Grains	W-204	82.1	23	56.6	37.0	84.4	100.6
	Trial Mean	79.7		57.7	34.5	81.3	95.7
	LSD, 10%	5.2		1.3	2.1		
	CV, %	4.9		1.7	4.5		

Averaged over four varieties in this location, Gaucho seed treated increased yield by 2.8 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>
Agripro COKER	Benton	V	M	S	E	M	VG	S	MS	MS
	Branson	V	ME	S	VG	M	VG	S	I	I
	Cooper	V	M	S	E	M	VG	S	MS	I
	Douglas	V	ML	B	VG	T	VG	S	MS	MS
Brown Seed Enterprises Inc	Arise 766	V	E	T	E	S-M	E	ND	R	I
	Arise X21	V	E	T	E	M	E	ND	R	I
	Arise X27	V	M	T	E	M	VG	ND	R	I
	Arise W36	V	L	T	E	M-T	VG	ND	R	MS
DeRaedt	88	V	M	T	E	T	E		VG	VG
	7811	V	ME	S	E	M	E	I	R	I
Diener Bros.	D 495	V	ME	B	VG	M	VG	S	MS	MS
	XW45	V	M	S	VG	M	VG	S	MS	MS
	XW46	V	M	B	G	M-T	G	S	MS	MS
	XW47	V	ME	S	VG	T	G	S	MS	MS
	XW48	V	M	S	VG	T	G	S	MS	MR
Excel	201	V	ME	S	E	M	E	MR	R	R
	211	V	ME	S	E	M	VG	MR	R	R
	307	V	M	S	E	M	E	MR	R	R
	333	V	M	S	E	MS	E	MR	MR	MR
	354tw	V	ML	S	E	S	E	MR	R	R
	388	V	ML	S	E	M	E	MR	MR	MR
	392	V	ML	S	E	M	E	MR	R	MR
	399	V	ML	S	E	M	E	MR	MR	MR
	400-1	V	ML	S	E	M	E	MR	R	MR
	410tw	V	ML	S	E	M	E	MR	R	MR
Green Valley Seed	Willcross 733	V	ME	S	E	M	E	MR	R	MR
	Willcross 744	V	M	S	E	M	E	I	R	MR
GROWMARK	FS 621	V	E	T	G	M	E	I	I	MR
	FS 634	V	ME	S	E	MT	VG	MR	MR	MR
	FS 652	V	ML	S	VG	MS	E	S	MR	MR
	FS 8302	V	ML	B	E	M	E	R	MR	MR
	FS 8309	V	M	S	E	M	E	S	MR	MR
JGL	Exp Saber	V	M	T	VG	MT	VG	ND	I	I
	Exp 501	V	ME	T	E	M	VG	ND	MR	MR
	Exp 505	V	M	T	E	T	VG	ND	MR	MR
Kaltenberg Seed	KW 51	V	ML	S	T	G	G	I	I	I
	KW 55	V	M	S	E	M	E	MR	MR	MR
Lewis Hybrids	Lewis 838	V	E	S	E	T	E	R	MS	I
	Lewis 855	V	M	S	E	M	E	R	I	I
	Lewis 850	V	ME	T	E	M	E	I	I	MS
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
Ohio Seed Improv. Association	Bravo	V	E	S	E	M	E	S	S	R
	Daisy	V	M	S	E	M	E	ND	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>
Pioneer Hi-Bred Int'l, Inc.	25R35	V	ML	B	VG	M	E	ND	R	ND
	25R37	V	M	S	VG	S	E	ND	I	MR
	25R47	V	M	B	S	S	G	ND	R	MR
	25R54	V	ML	B	VG	M	G	ND	I	ND
	25R78	V	ML	B	VG	S	E	ND	R	I
Public	Cardinal	V	M	S	VG	MT	VG	MR	MR	MS
	Clark	V	E	T	G	M	VG	MR	MS	MR
	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.	V9122	V	M	S	VG	T	VG	MR	R	MR
	V9212	V	M	T	E	M	E	I	MR	MR
	V9410	V	E	S	E	T	VG	MR	MR	MR
	V9512	V	M	S	E	M	VG	ND	I	R
	V9513	V	ML	S	E	T	G	ND	R	MR
Steyer Seeds Inc.	Arthur	V	M	S	VG	M	VG	MS	MR	MR
	Besecker	V	ML	S	E	M	E	MS	MS	MS
	Coffman	V	ME	S	VG	M	VG	MS	MR	MR
	McLane	V	M	S	VG	M	VG	MS	MR	MR
	Merrell	V	E	S	VG	M	VG	MS	MS	MS
	Wiley	V	ME	T	VG	M	VG	MS	MR	MR
Wilson	V	E	B	VG	S	VG	MS	MS	MS	
Syngenta Seeds, Inc.	Coker 9312	V	ME	T	G	S	G	R	MR	MR
	Coker 9436	V	M	T	G	S	G	R	MS	MR
	Coker 9663	V	M	T	VG	T	G	MR	MR	MR
	B 980006	V	ME	T	VG	M	VG	R	MR	MR
	B 980416	V	ME	T	G	S	G	S	MR	MR
	B 980582	V	ME	T	G	T	G	S	MR	MR
UAP/Richter	Dyna Gro 401	V	E	T	VG	M	VG	I	I	MR
	Dyna Gro 410	V	ME	S	VG	M	VG	MR	R	ND
	Dyna Gro 415	V	ME	S	VG	M	VG	I	I	MR
	Dyna Gro 419	V	M	S	E	M	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	M	VG	VG
	Wilken 102	V	E	T	VG	M	VG	M	G	VG
	Wilken 106	V	E	S	VG	M	VG	M	VG	VG
	Wilken 124	V	ML	S	E	M	VG	M	G	MR
	Wilken 135	V	M	S	VG	MT	VG	M	VG	VG
	Wilken 154	V	M	S	E	M	VG	M	VG	MR
	Wilken 204	V	ML	S	E	M	VG	M	G	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 Fusarium head scab evaluation of variety test entries at Urbana.**

**Varieties with greater resistance have lower numbers.**

Company	Entry Name	2005					2004				
		Incidence	Severity	Kernel Rating	FHB Index	ISK Index	Incidence	Severity	Kernel Rating	FHB Index	ISK Index
		(%)	(%)	(%) FDK	(0-100)	(0-100)	(%)	(%)	(%) FDK	(0-100)	(0-100)
Agripro COKER	Benton	65.0	51.6	53.0	37.1	56.3	50.0	35.7	60.0	18.0	49.7
Agripro COKER	Cooper	93.3	54.7	60.0	51.0	68.4	--	--	--	--	--
Agripro COKER	Douglas	95.0	65.7	77.0	62.4	78.9	73.3	40.7	60.0	29.7	58.2
Excel Brand Seeds	Excel 201	23.3	43.2	30.0	8.5	31.9	4.7	38.2	30.0	1.8	24.9
Excel Brand Seeds	Excel 211	10.0	42.5	20.0	3.0	23.7	11.0	44.4	30.0	4.9	28.6
Excel Brand Seeds	Excel 307	24.3	46.3	40.0	10.6	37.2	16.0	44.1	40.0	7.9	34.0
Excel Brand Seeds	Excel 333	23.3	84.2	33.0	19.7	45.6	5.7	31.9	40.0	1.9	27.3
Excel Brand Seeds	Excel 354 tw	53.3	59.6	40.0	33.9	49.9	--	--	--	--	--
Excel Brand Seeds	Excel 392	68.3	61.9	47.0	42.1	57.7	--	--	--	--	--
Excel Brand Seeds	Excel 399	48.3	56.3	33.0	28.0	44.8	--	--	--	--	--
Excel Brand Seeds	Excel 400-1	30.0	63.6	40.0	19.5	44.1	25.0	41.9	20.0	9.8	28.1
Excel Brand Seeds	Excel 410 tw	38.3	62.6	33.0	21.1	43.6	--	--	--	--	--
Growmark	FS 621	85.0	88.7	43.0	76.4	69.5	12.7	49.4	46.7	6.3	37.3
Growmark	FS 634	25.0	52.3	30.0	16.0	35.2	--	--	--	--	--
Growmark	FS 652	91.7	65.0	60.0	59.4	71.0	73.3	45.9	66.7	33.4	62.4
Growmark	FS 8302	76.7	57.9	63.0	42.6	65.7	--	--	--	--	--
Growmark	FS 8309	31.7	38.2	43.0	11.4	38.3	--	--	--	--	--
IFSI	F 334W	43.3	38.3	40.0	16.1	40.5	11.7	31.9	30.0	3.8	25.1
IFSI	F 335W	45.0	49.8	23.0	22.1	37.8	--	--	--	--	--
IFSI	F 344W	46.7	65.5	43.0	31.3	51.0	36.7	38.6	36.7	15.2	37.2
IFSI	F 348W	98.3	69.5	47.0	68.3	69.0	--	--	--	--	--
IFSI	F 350W	58.3	58.2	30.0	35.5	47.0	21.7	41.9	33.3	9.9	32.4
Ohio Crop Imp. Assn.	Bravo	75.0	64.9	33.0	47.7	55.3	--	--	--	--	--
Ohio Crop Imp. Assn.	Daisy	63.3	71.7	37.0	45.8	55.2	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R35	33.3	22.9	47.0	8.7	35.5	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R37	90.0	31.1	53.0	27.0	57.7	48.3	27.2	40.0	13.3	38.7
Pioneer Hi-Bred Int'l	Pio 25R47	91.7	47.4	53.0	44.2	63.0	66.7	29.7	43.3	19.9	46.2
Pioneer Hi-Bred Int'l	Pio 25R54	80.0	51.6	47.0	43.4	58.2	--	--	--	--	--
Pioneer Hi-Bred Int'l	Pio 25R78	93.3	65.3	33.0	60.2	60.9	50.0	41.2	46.7	20.9	46.0
Public	Cardinal	38.3	44.9	53.0	18.0	46.3	28.3	42.1	30.0	11.2	33.1
Public	Clark	78.3	79.2	50.0	61.9	67.3	18.3	42.3	46.7	7.5	36.9
Public	Ernie	43.3	52.1	37.0	19.7	43.3	3.0	24.0	16.7	0.7	14.8
Public	Kaskaskia	86.7	57.5	43.0	50.0	60.6	75.0	38.8	30.0	28.9	46.1
Public	Madison	96.7	67.1	60.0	64.8	73.1	78.3	46.3	60.0	36.9	61.4
Public	McCormick	95.0	40.5	37.0	38.4	55.3	28.3	37.8	40.0	10.3	35.8
Public	Patterson	58.3	66.4	33.0	40.2	50.8	43.3	47.8	43.3	19.6	44.7
Public	Roane	63.3	32.6	30.0	20.4	40.8	33.3	21.2	26.7	6.7	27.0
Public	Sisson	88.3	49.7	63.0	43.6	66.7	76.7	29.9	63.3	23.3	57.3
Public	Truman	23.3	14.7	47.0	3.4	30.1	3.3	18.1	30.0	0.6	18.4
Syngenta Seeds	B 980006	65.0	51.8	60.0	36.4	59.0	--	--	--	--	--
Syngenta Seeds	B 980416	23.3	57.1	37.0	13.6	38.8	--	--	--	--	--
Syngenta Seeds	B 980582	15.0	38.6	27.0	6.3	26.7	--	--	--	--	--
Syngenta Seeds	Coker 9312	73.3	50.2	40.0	37.5	53.1	31.7	31.6	43.3	9.4	36.3
Syngenta Seeds	Coker 9436	95.0	54.1	53.0	51.8	66.1	--	--	--	--	--
Syngenta Seeds	Coker 9663	73.3	62.0	50.0	40.7	60.6	75.0	35.9	36.7	26.8	47.9
	Test Average	58.7	54.1	42.5	33.1	50.8	33.6	38.3	38.6	13.1	37.0
	LSD (0.05)	31.6	22.4	23.7	21.4	16.8	22.8	13.6	18.2	9.9	11.9

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 (FDK).

FHB Index = incidence x severity/100.

**Varieties with greater resistance have lower numbers.**

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