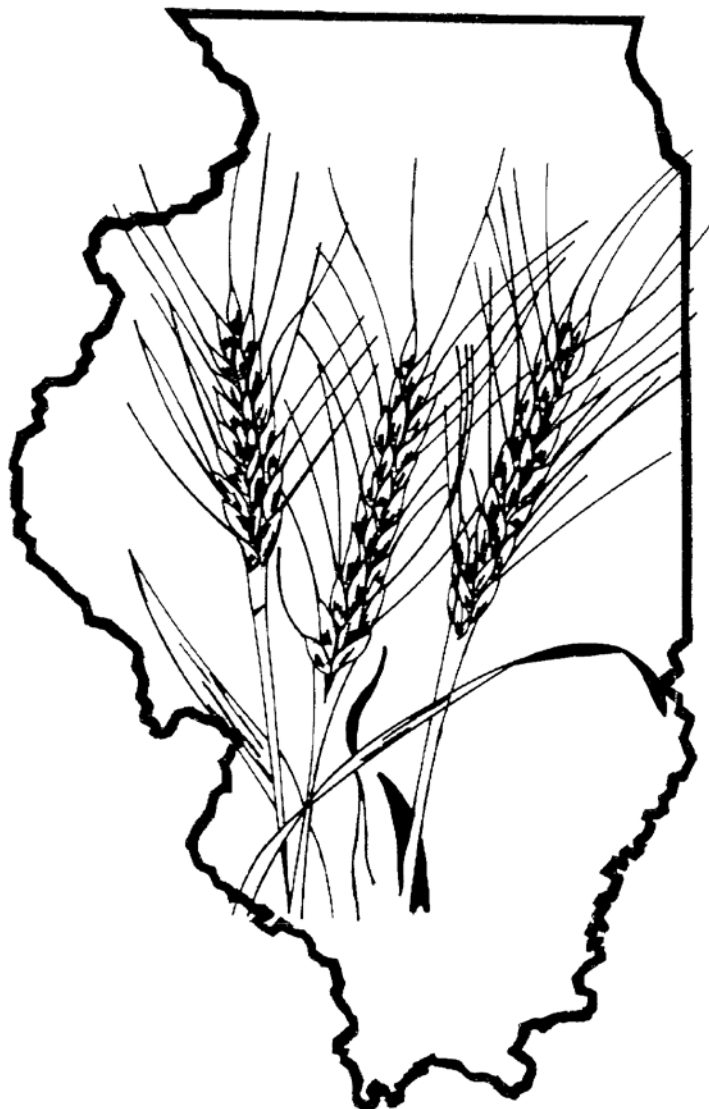


WHEAT PERFORMANCE IN ILLINOIS TRIALS – 2023



**Crop Sciences Special Report 2023-01
Department of Crop Sciences University
of Illinois August 2023**

WHEAT PERFORMANCE IN ILLINOIS TRIALS - 2023

Crop Sciences Special Report 2022-01, July 2023

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Illinois producers planted 650,000 acres of winter wheat in the fall of 2021 and harvested 560,000 acres in 2022, with an average yield of 79 bushels per acre. Boosted by high world wheat prices, high wheat and good double-crop soybean yields, and dry fall weather, planted acreage jumped to an estimated 940,000 acres for the 2023 crop – the highest planted wheat acreage in Illinois since 2008.

Overall the 2023 winter wheat growing season was good to very good. The USDA projections in May and June estimated 790,000 acres of harvested area, and average yields were forecasted at 78 bushels per acre, down 1 bushel from 2022. While the estimated harvested area decreased to 780,000 acres in July's report, the USDA increased the yield average forecast to a record level of 84 bushels per acre – up 5 bushels from 2022. The crop was planted at about the usual time last fall, with 50% planted by October 17. Crop growth and development was ahead of normal, given the warm and dry weather in most of spring. Statewide wheat heading was at 74% compared to the 5-year average of 56%, with ratings 62% good + excellent. Wheat harvest began the second half of June and ended the first half of July. While the actual average yield is still being determined, it seems that many growers were pleasantly surprised by the yield in spite of the circumstances.

Beyond yield, grain quality tended to be high. Dry conditions during grain filling and during harvest promoted high test weights and low vomitoxin levels. In fact, very little vomitoxin was detected this year. In part due to high wheat prices, most wheat growers applied a fungicide at flowering to control head scab. Without a doubt, this fungicide application played a role in keeping vomitoxin at bay.

To aid variety selection decisions, we present these wheat variety testing results from 6 locations across the state of Illinois. We had a total of 1288 entries for the 2023 season. Plots were seeded at the rate of 36 seeds per square foot, and consisted of six, 7.5-inch rows trimmed to about 16 feet before harvest. Yields were corrected to 13.5% moisture. Entries treated with seed-applied insecticide have insecticide treatment identified by the product trade name in the tables.

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

Participating Companies

We thank these companies for their support of this program in 2023.

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

Green Valley Seed
121 West College St
Kahoka, MO 63445
(800) 748-7943

Langdon Bros Seed
3590 S 100E
Hartford City, IN 47348
(800) 526-4366

American Organic
1676 CR 2200 E
St Joseph, IL
(217) 469-2351

Hoffman Seed House
PO Box 66
Hoffman, IL 62250
(618) 495-2617

Martin Seed
10280 West SR 28
West Lebaon, IL 47991
(217) 649-6348

BioTown Seeds
373 N Diener Rd
Reynolds, IN 47980
(219) 984-6038

Kennel Seed Farms
2153 County Rd D
South Wayne, WI 53587
(608) 293-2200

Pioneer Hi-Bred Int'l Inc.
7100 NW 62nd Ave.
Johnston, IA 50131
(800) 247-6803

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

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

Viking
1414 W Main, PO Box 127
Albert Lea, MN 56007
(800) 352-5247

Dyna-Gro Seed
200 W 2nd St.
Flora, IL 44818
(618) 578-0660

Kratz Farms LLC
4380 Sherman Road
Slinger, WI 53086
(262) 305-6631

VCIA
9225 Atlee Branch Lane
Mechanicsville, VA 23116
(804) 746-4884

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

KWS Cereals
4101 Colleen Dr
Champaign, IL 618/22
217-800-1008

Williamsfield Seed Co.
1122 Knox Highway 18
Williamsfield, IL 61489
(309) 639-2248

Table 1. Southern Illinois regional wheat variety trial results, 2023

Company	Variety	ST ¹	Regional Average ²				Elkville		St Peter		Belleville	
			Yield bu/ac	Yield Rank 1 to 56	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu
AgriMAXX	503	G	106.5	26	60.0	36	127.2	58.5	96.1	63.3	87.2	58.5
AgriMAXX	505	G	108.9	14	62.4	37	131.3	59.8	96.5	65.8	92.5	61.5
AgriMAXX	511	G	102.2	44	58.1	36	138.9	56.1	83.7	62.0	101.3	55.2
AgriMAXX	513	G	108.9	13	60.7	37	146.9	58.5	92.4	63.9	96.8	59.8
AgriMAXX	514	G	112.3	7	59.3	36	136.8	56.8	95.5	62.7	104.0	58.3
AgriMAXX	525	G	109.0	12	60.9	35	135.6	57.0	93.3	64.0	98.4	61.5
AgriMAXX	531	G	102.9	39	60.3	36	131.8	57.5	89.1	64.1	88.0	58.6
AgriMAXX	535	G	102.4	42	61.6	34	130.5	59.6	87.5	64.9	89.5	60.4
AgriMAXX	EXP 2301	G	104.7	29	62.5	34	127.8	61.3	90.1	65.0	92.4	62.3
AgriMAXX	EXP 2302	G	113.1	6	59.4	35	132.8	56.9	98.0	62.7	102.8	58.5
Bio Town Seeds	D477W	G	**	**	58.3	36	140.8	56.1	86.0	61.6	**	57.1
Bio Town Seeds	D491W	G	106.6	23	58.8	35	136.5	56.5	85.6	62.2	104.2	57.9
Bio Town Seeds	D504W	G	100.2	45	61.2	36	118.7	58.0	85.4	64.9	89.7	60.2
Bio Town Seeds	D506W	G	116.7	2	59.8	35	144.0	56.1	101.3	63.1	105.2	60.1
Bio Town Seeds	DXW2026	G	108.7	16	59.1	36	140.0	56.5	91.8	62.5	98.7	57.9
Dyna-Gro	9002	G	105.8	28	59.3	37	139.2	56.5	92.2	62.5	89.3	58.9
Dyna-Gro	9120	G	103.4	33	61.0	35	131.0	58.9	86.7	64.9	94.3	58.5
Dyna-Gro	9151	G	103.0	36	61.9	37	134.3	60.0	90.5	65.1	85.4	60.8
Dyna-Gro	9172	G	97.6	49	61.1	36	104.8	57.3	86.9	64.9	82.2	59.9
Dyna-Gro	9231	G	103.5	32	61.1	38	132.4	59.1	88.5	64.2	90.7	60.3
Dyna-Gro	9290	G	**	**	59.6	36	133.2	57.2	85.9	63.4	**	57.6
Dyna-Gro	9393	G	106.0	27	60.0	35	107.4	55.6	90.9	63.5	100.7	60.1
Dyna-Gro	9422	G	111.7	8	60.4	36	153.8	58.0	91.9	63.9	104.1	59.0
Dyna-Gro	9481	G	108.6	19	58.8	35	138.4	54.0	96.2	62.1	90.6	59.7
Dyna-Gro	WX23444	C	118.4	1	58.1	35	145.1	55.0	96.6	62.4	118.8	55.6
FS InSPIRE	FS 597	G	**	**	60.7	38	132.8	58.4	91.0	64.2	**	59.1
FS InSPIRE	FS 600	G	107.6	22	62.2	38	138.0	59.6	93.1	65.5	93.1	61.3
FS InSPIRE	FS 603	G	94.4	53	60.0	34	112.9	56.9	81.8	63.0	79.3	60.5
FS InSPIRE	FS 606	G	103.0	37	62.7	38	134.4	60.0	88.6	66.0	88.3	62.1
FS InSPIRE	FS 617	G	108.3	20	59.9	35	129.8	57.9	98.4	62.0	87.0	61.3
FS InSPIRE	FS 623	G	109.3	11	60.2	37	144.3	57.2	103.5	63.4	81.5	59.7
FS InSPIRE	FS 624	G	108.7	17	61.9	38	118.7	58.4	93.6	64.3	101.0	64.1
FS InSPIRE	FS 745	G	102.3	43	61.1	37	115.0	56.8	83.9	64.8	99.2	60.8
FS InSPIRE	FS WX23A	G	99.5	46	60.5	37	130.0	57.7	85.6	64.4	83.3	58.4
FS InSPIRE	FS WX23B	G	103.1	35	61.0	39	135.1	57.6	85.6	64.5	95.3	60.4
Hoffman Seed House	H7W21	C	110.3	9	57.1	34	158.4	53.7	91.8	61.0	99.1	55.6
Hoffman Seed House	H7W23	C	96.4	51	62.4	38	124.3	60.9	81.9	65.8	82.9	60.2
Hoffman Seed House	H7W30	C	106.5	24	62.0	35	137.3	58.4	92.3	65.4	91.9	61.8
Hoffman Seed House	H7W40	C	103.3	34	57.5	35	130.9	55.7	86.2	60.5	95.7	57.0
Kitchen Seed Company	KSC 420	F	104.1	31	61.6	36	140.3	58.3	88.3	64.9	91.0	61.1
Kitchen Seed Company	KSC 423	F	98.6	48	62.3	38	129.1	60.0	88.1	65.4	78.3	61.6
KWS Cereals US	KWS453	C	108.7	15	61.0	33	120.1	59.9	98.6	62.6	90.3	63.3
KWS Cereals US	KWS472	C	109.7	10	60.5	33	136.8	57.7	98.4	64.1	90.2	59.3
KWS Cereals US	KWS477	C	108.7	18	62.3	36	132.5	58.5	97.7	66.1	91.2	61.6
KWS Cereals US	KWS482	C	96.5	50	59.3	34	139.9	57.8	79.0	62.1	84.3	58.8
KWS Cereals US	KWS490	C	106.5	25	59.7	34	141.7	56.5	93.2	62.7	89.0	59.9
KWS Cereals US	KWS492	C	108.0	21	62.5	35	135.1	57.9	103.2	63.3	81.2	68.7
KWS Cereals US	KWS495	C	114.5	3	59.0	32	141.9	56.5	98.4	62.8	104.4	56.9
Pioneer	25R65	C	114.2	4	57.6	37	149.0	53.6	96.4	60.9	104.8	57.8
Pioneer	25R74	C	102.6	41	59.2	35	137.5	56.1	79.6	62.9	101.3	57.9
Pioneer	25R76	C	113.9	5	59.5	35	154.9	56.3	95.9	63.2	103.3	58.5
VCIA	16VDH-SRW03-023	C	95.1	52	60.3	36	132.2	56.8	78.0	63.2	84.0	61.1
VCIA	VA19FHB-36	C	102.9	38	62.1	37	135.4	59.1	87.4	65.6	90.3	61.4
Viking	801	C	102.8	40	61.1	38	136.4	59.6	85.0	63.9	94.3	60.9
Williamsfield Seed Co	WSC 3804	G	99.2	47	62.9	37	121.4	61.1	89.5	66.0	78.8	62.2
Williamsfield Seed Co	WSC 3906	G	104.3	30	60.9	36	85.0	58.2	95.0	63.0	91.4	62.9
	Trial Mean		105.7		60.4	36	133.0	57.7	90.8	63.7	93.1	59.9
	LSD, 10%		4.6		0.6	1.0	14.4	1.2	5.8	0.7	6.6	6.6
	CV, %		13.3		2.9	3.1	5.1	1.0	3.8	0.8	2.8	0.5

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide and E= Escalate+Fungicide.

.- plots lost to deer feeding.

Location	Elkville	St Peter	Belleville
County	Jackson	Fayette	St. Clair
Host	John and Trent Funk	Russ Schwarm	Dane Hunter
Soil type	Hurst silt loam	Hoyleton silt loam	Winfield silt loam
Planting date	October 14, 2023	October 18, 2023	October 7, 2023
Harvest date	June 22, 2023	June 21, 2023	June 15, 2023

Nitrogen applied	Pounds N/ A		
Fall	30	0	30
Spring	110	120	85

Latitude	37.91534271	38.90360971	38.51963332
Longitude	-89.16569406	-88.87881719	-89.84230464

Location	Perry	Urbana	Hampshire
County	Pike	Champaign	Kane
Host	Luke Merrit	CSREC	Dezeri DeRaedt
Soil type	Clarksdale silt loam	Flanagan silt loam	Drummer silty clay loam
Planting date	October 4, 2023	August 29, 2023	October 5, 2023
Harvest date	June 26, 2023	June 28, 2023	October 11, 2023

Nitrogen applied	Pounds N/ A		
Fall	30	30	30
Spring	80	90	80

Latitude	39.80416804	40.07897251	42.03952173
Longitude	-90.8210913	88.24505146	-88.49289432

Table 3. Results of the 2023 wheat variety trial at Elkhart, in far southcentral Illinois.

<u>Company</u>	<u>Variety</u>	<u>ST</u> ¹	<u>Yield</u> bu/ac	<u>Yield</u>	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2-yr avg</u>	<u>3-yr avg</u>
				<u>Rank</u> 1 to 56			<u>2022-23</u> bu/ac	<u>2021-223</u> bu/ac
AgriMAXX	503	G	127.2	46	58.5	37		
AgriMAXX	505	G	131.3	38	59.8	36	128.4	117.7
AgriMAXX	511	G	138.9	16	56.1	35	123.1	
AgriMAXX	513	G	146.9	5	58.5	37	127.4	120.8
AgriMAXX	514	G	136.8	21	56.8	35	132.1	123.5
AgriMAXX	525	G	135.6	25	57.0	35	124.9	
AgriMAXX	531	G	131.8	37	57.5	38		
AgriMAXX	535	G	130.5	41	59.6	35		
AgriMAXX	EXP 2301	G	127.8	45	61.3	34		
AgriMAXX	EXP 2302	G	132.8	32	56.9	34		
Bio Town Seeds	D477W	G	140.8	11	56.1	35	124.8	114.4
Bio Town Seeds	D491W	G	136.5	23	56.5	35	129.6	
Bio Town Seeds	D504W	G	118.7	50	58.0	37	112.5	113.4
Bio Town Seeds	D506W	G	144.0	8	56.1	36		
Bio Town Seeds	DXW2026	G	140.0	13	56.5	35		
Dyna-Gro	9002	G	139.2	15	56.5	37	120.3	113.1
Dyna-Gro	9120	G	131.0	39	58.9	35	123.0	117.0
Dyna-Gro	9151	G	134.3	30	60.0	36	123.4	117.5
Dyna-Gro	9172	G	104.8	55	57.3	37	112.6	111.0
Dyna-Gro	9231	G	132.4	35	59.1	39		
Dyna-Gro	9290	G	133.2	31	57.2	36		
Dyna-Gro	9393	G	107.4	54	55.6	35		
Dyna-Gro	9422	G	153.8	3	58.0	36		
Dyna-Gro	9481	G	138.4	17	54.0	36		
Dyna-Gro	WX23444	C	145.1	6	55.0	36		
FS InSPIRE	FS 597	G	132.8	33	58.4	37	121.9	
FS InSPIRE	FS 600	G	138.0	18	59.6	37	127.4	117.5
FS InSPIRE	FS 603	G	112.9	53	56.9	33	109.7	104.5
FS InSPIRE	FS 606	G	134.4	29	60.0	38		
FS InSPIRE	FS 617	G	129.8	43	57.9	35		
FS InSPIRE	FS 623	G	144.3	7	57.2	37		
FS InSPIRE	FS 624	G	118.7	51	58.4	38	120.8	110.2
FS InSPIRE	FS 745	G	115.0	52	56.8	37	107.5	
FS InSPIRE	FS WX23A	G	130.0	42	57.7	37		
FS InSPIRE	FS WX23B	G	135.1	27	57.6	39		
Hoffman Seed House	H7W21	C	158.4	1	53.7	34	137.5	
Hoffman Seed House	H7W23	C	124.3	47	60.9	38		
Hoffman Seed House	H7W30	C	137.3	20	58.4	34	114.8	110.7
Hoffman Seed House	H7W40	C	130.9	40	55.7	32	111.1	101.6
Kitchen Seed Company	KSC 420	F	140.3	12	58.3	34	115.1	107.9
Kitchen Seed Company	KSC 423	F	129.1	44	60.0	38		
KWS Cereals US	KWS453	C	120.1	49	59.9	32		
KWS Cereals US	KWS472	C	136.8	22	57.7	33		
KWS Cereals US	KWS477	C	132.5	34	58.5	35		
KWS Cereals US	KWS482	C	139.9	14	57.8	37		
KWS Cereals US	KWS490	C	141.7	10	56.5	34		
KWS Cereals US	KWS492	C	135.1	28	57.9	36		
KWS Cereals US	KWS495	C	141.9	9	56.5	30		
Pioneer	25R65	C	149.0	4	53.6	38		
Pioneer	25R74	C	137.5	19	56.1	34	116.1	109.7
Pioneer	25R76	C	154.9	2	56.3	34	134.1	
VCIA	16VDH-SRW03-023	C	132.2	36	56.8	36		
VCIA	VA19FHB-36	C	135.4	26	59.1	37		
Viking	801	C	136.4	24	59.6	40	126.9	
Williamsfield Seed Co	WSC 3804	G	121.4	48	61.1	37		
Williamsfield Seed Co	WSC 3906	G	85.0	56	58.2	35		
			133.0		57.7	35.8		
	Trial Mean		14.4		1.2	2		
	LSD, 10%		5.1		1.0	2		
	CV, %							

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide.

Pest management is carried out by the cooperator at this site. In 2023 this included Trivapro fungicide and Warrior insecticide on April 10th, and Prosaro fungicide and Warrior insecticide on May 12th.

Table 3. Results of the 2023 wheat variety trial at Belleville, in far southwestern Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 53			2021,23 bu/ac	2019,21,23 bu/ac
AgriMAXX	503	G	87.2	41	58.5	38	83.1	
AgriMAXX	505	G	92.5	24	61.5	40	89.2	
AgriMAXX	511	G	101.3	10	55.2	38		
AgriMAXX	513	G	96.8	18	59.8	39	90.7	
AgriMAXX	514	G	104.0	7	58.3	38	99.3	
AgriMAXX	525	G	98.4	17	61.5	36		
AgriMAXX	531	G	88.0	40	58.6	37		
AgriMAXX	535	G	89.5	36	60.4	35		
AgriMAXX	EXP 2301	G	92.4	25	62.3	35		
AgriMAXX	EXP 2302	G	102.8	9	58.5	37		
Bio Town Seeds	D477W	G	**	**	57.1	38		
Bio Town Seeds	D491W	G	104.2	5	57.9	38		
Bio Town Seeds	D504W	G	89.7	35	60.2	37	88.7	
Bio Town Seeds	D506W	G	105.2	2	60.1	36		
Bio Town Seeds	DXW2026	G	98.7	16	57.9	38		
Dyna-Gro	9002	G	89.3	37	58.9	39	91.3	85.7
Dyna-Gro	9120	G	94.3	22	58.5	36	92.1	
Dyna-Gro	9151	G	85.4	43	60.8	40	82.5	81.5
Dyna-Gro	9172	G	82.2	48	59.9	38	85.0	
Dyna-Gro	9231	G	90.7	30	60.3	39		
Dyna-Gro	9290	G	**	**	57.6	38		
Dyna-Gro	9393	G	100.7	13	60.1	37		
Dyna-Gro	9422	G	104.1	6	59.0	39		
Dyna-Gro	9481	G	90.6	31	59.7	37		
Dyna-Gro	WX23444	C	118.8	1	55.6	38		
FS InSPIRE	FS 597	G	**	**	59.1	40		
FS InSPIRE	FS 600	G	93.1	23	61.3	40	91.6	
FS InSPIRE	FS 603	G	79.3	51	60.5	36	79.7	77.3
FS InSPIRE	FS 606	G	88.3	39	62.1	40		
FS InSPIRE	FS 617	G	87.0	42	61.3	36		
FS InSPIRE	FS 623	G	81.5	49	59.7	39	91.6	
FS InSPIRE	FS 624	G	101.0	12	64.1	42	101.2	93.0
FS InSPIRE	FS 745	G	99.2	14	60.8	40		
FS InSPIRE	FS WX23A	G	83.3	46	58.4	38		
FS InSPIRE	FS WX23B	G	95.3	20	60.4	41		
Hoffman Seed House	H7W21	C	99.1	15	55.6	36		
Hoffman Seed House	H7W23	C	82.9	47	60.2	39		
Hoffman Seed House	H7W30	C	91.9	26	61.8	38	96.2	
Hoffman Seed House	H7W40	C	95.7	19	57.0	38	90.4	
Kitchen Seed Company	KSC 420	F	91.0	29	61.1	39	94.7	
Kitchen Seed Company	KSC 423	F	78.3	53	61.6	40		
KWS Cereals US	KWS453	C	90.3	32	63.3	35		
KWS Cereals US	KWS472	C	90.2	34	59.3	34		
KWS Cereals US	KWS477	C	91.2	28	61.6	39		
KWS Cereals US	KWS482	C	84.3	44	58.8	35		
KWS Cereals US	KWS490	C	89.0	38	59.9	35		
KWS Cereals US	KWS492	C	81.2	50	68.7	35		
KWS Cereals US	KWS495	C	104.4	4	56.9	35		
Pioneer	25R65	C	104.8	3	57.8	37		
Pioneer	25R74	C	101.3	11	57.9	37	91.8	88.4
Pioneer	25R76	C	103.3	8	58.5	38		
VCIA	16VDH-SRW03-023	C	84.0	45	61.1	38		
VCIA	VA19FHB-36	C	90.3	33	61.4	39		
Viking	801	C	94.3	21	60.9	40		
Williamsfield Seed Co	WSC 3804	G	78.8	52	62.2	39		
Williamsfield Seed Co	WSC 3906	G	91.4	27	62.9	38		
			93.1		59.9	38		
	Trial Mean		6.6		6.6	2		
	LSD, 10%		2.8		0.5	2		
	CV, %							

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide, E= Escalate+Fungicide.

* Variety data dropped due to severe lodging and/or deer feeding.

Table 5. Results of the 2023 wheat variety trial at St Peter, in south central Illinois.

<u>Company</u>	<u>Variety</u>	<u>ST</u> ¹	<u>Yield</u>				<u>2-yr avg</u>	<u>3-yr avg</u>
			<u>Yield</u> bu/ac	<u>Rank</u> 1 to 56	<u>Test wt.</u> lb/bu	<u>Height</u> in.	<u>2022-23</u> bu/ac	<u>2021-23</u> bu/ac
AgriMAXX	503	G	96.1	14	63.3	34	103.7	109.6
AgriMAXX	505	G	96.5	11	65.8	35	103.8	109.7
AgriMAXX	511	G	83.7	51	62.0	34	94.8	
AgriMAXX	513	G	92.4	22	63.9	34	101.1	107.4
AgriMAXX	514	G	95.5	16	62.7	34	106.2	111.7
AgriMAXX	525	G	93.3	19	64.0	33	106.2	
AgriMAXX	531	G	89.1	33	64.1	34		
AgriMAXX	535	G	87.5	38	64.9	32		
AgriMAXX	EXP 2301	G	90.1	31	65.0	34		
AgriMAXX	EXP 2302	G	98.0	8	62.7	33		
Bio Town Seeds	D477W	G	86.0	43	61.6	36	98.3	104.8
Bio Town Seeds	D491W	G	85.6	45	62.2	33	100.1	
Bio Town Seeds	D504W	G	85.4	48	64.9	35	97.3	104.8
Bio Town Seeds	D506W	G	101.3	3	63.1	34		
Bio Town Seeds	DXW2026	G	91.8	26	62.5	34		
Dyna-Gro	9002	G	92.2	24	62.5	35	102.3	108.8
Dyna-Gro	9120	G	86.7	41	64.9	34	99.1	104.6
Dyna-Gro	9151	G	90.5	30	65.1	36	103.7	108.7
Dyna-Gro	9172	G	86.9	40	64.9	34	101.1	107.9
Dyna-Gro	9231	G	88.5	35	64.2	36		
Dyna-Gro	9290	G	85.9	44	63.4	35		
Dyna-Gro	9393	G	90.9	29	63.5	32		
Dyna-Gro	9422	G	91.9	25	63.9	34		
Dyna-Gro	9481	G	96.2	13	62.1	33		
Dyna-Gro	WX23444	C	96.6	10	62.4	32		
FS InSPIRE	FS 597	G	91.0	28	64.2	36	101.0	
FS InSPIRE	FS 600	G	93.1	21	65.5	36	102.6	109.0
FS InSPIRE	FS 603	G	81.8	53	63.0	34	95.5	97.2
FS InSPIRE	FS 606	G	88.6	34	66.0	36		
FS InSPIRE	FS 617	G	98.4	6	62.0	35		
FS InSPIRE	FS 623	G	103.5	1	63.4	37	109.9	115.6
FS InSPIRE	FS 624	G	93.6	18	64.3	34	106.1	113.2
FS InSPIRE	FS 745	G	83.9	50	64.8	35	96.5	
FS InSPIRE	FS WX23A	G	85.6	47	64.4	37		
FS InSPIRE	FS WX23B	G	85.6	46	64.5	36		
Hoffman Seed House	H7W21	C	91.8	27	61.0	33	101.2	
Hoffman Seed House	H7W23	C	81.9	52	65.8	36		
Hoffman Seed House	H7W30	C	92.3	23	65.4	34	105.5	105.5
Hoffman Seed House	H7W40	C	86.2	42	60.5	34	98.0	98.0
Kitchen Seed Company	KSC 420	F	88.3	36	64.9	35	95.2	103.8
Kitchen Seed Company	KSC 423	F	88.1	37	65.4	35		
KWS Cereals US	KWS453	C	98.6	4	62.6	32		
KWS Cereals US	KWS472	C	98.4	5	64.1	32		
KWS Cereals US	KWS477	C	97.7	9	66.1	36		
KWS Cereals US	KWS482	C	79.0	55	62.1	30		
KWS Cereals US	KWS490	C	93.2	20	62.7	34		
KWS Cereals US	KWS492	C	103.2	2	63.3	35		
KWS Cereals US	KWS495	C	98.4	7	62.8	32		
Pioneer	25R65	C	96.4	12	60.9	35		
Pioneer	25R74	C	79.6	54	62.9	33	92.8	100.2
Pioneer	25R76	C	95.9	15	63.2	34	104.7	
VCIA	16VDH-SRW03-023	C	78.0	56	63.2	33		
VCIA	VA19FHB-36	C	87.4	39	65.6	36		
Viking	801	C	85.0	49	63.9	35	98.6	
Williamsfield Seed Co	WSC 3804	G	89.5	32	66.0	36		
Williamsfield Seed Co	WSC 3906	G	95.0	17	63.0	34		
	Trial Mean		90.8		63.7	34		
	LSD, 10%		5.8		0.7	2		
	CV, %		3.8		0.8	2		

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide and G= Gaucho+Fungicide.

Table 6. Results of the 2023 wheat variety trial at Perry, in western Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 69			2022-23 bu/ac	2021-23 bu/ac
AgriMAXX	498	G	96.3	33	53.8	34		
AgriMAXX	503	G	88.8	51	56.4	31	89.3	90.8
AgriMAXX	505	G	89.6	46	58.2	32	92.7	94.2
AgriMAXX	511	G	89.6	47	56.5	32	85.8	
AgriMAXX	513	G	104.2	9	57.1	32	101.7	101.3
AgriMAXX	516	G	95.5	36	56.7	33	86.9	90.9
AgriMAXX	525	G	102.0	13	56.2	31	95.5	
AgriMAXX	531	G	88.5	52	57.1	33		
AgriMAXX	EXP 2302	G	111.7	3	57.2	32		
American Organic	Erisman AM		78.1	63	58.1	31	78.0	79.5
Bio Town Seeds	D504W	G	93.7	41	56.6	31	86.9	91.5
Bio Town Seeds	D506W	G	104.6	8	56.2	31		
Bio Town Seeds	DXW2023	G	98.8	22	54.8	31		
Bio Town Seeds	DXW2025	G	91.0	45	57.5	34		
DeRaedt Seed	DeRaedt 47	C	92.5	44	58.3	33	93.0	94.5
Dyna-Gro	9120	G	93.3	42	59.1	31	91.7	92.9
Dyna-Gro	9151	G	98.9	20	59.4	31	94.1	98.0
Dyna-Gro	9172	G	102.1	12	56.9	32	89.4	91.4
Dyna-Gro	9231	G	97.6	27	57.3	33		
Dyna-Gro	9290	G	93.8	40	56.9	34		
Dyna-Gro	9422	G	108.6	5	56.8	33		
Dyna-Gro	9481	G	87.5	53	56.5	30		
Dyna-Gro	WX23444	C	101.1	16	56.0	31		
FS InSPIRE	FS 597	G	93.1	43	57.3	31	91.2	
FS InSPIRE	FS 600	G	101.9	15	59.4	35	99.8	98.9
FS InSPIRE	FS 603	G	88.9	50	56.9	30	89.1	90.9
FS InSPIRE	FS 606	G	80.4	60	59.0	32		
FS InSPIRE	FS 617	G	96.6	30	57.0	31		
FS InSPIRE	FS 623	G	76.9	65	55.6	32	87.0	87.9
FS InSPIRE	FS 624	G	102.5	11	57.7	34	94.6	93.6
FS InSPIRE	FS 745	G	104.0	10	56.7	34	90.4	
FS InSPIRE	FS WX23A	G	99.6	18	56.9	33		
FS InSPIRE	FS WX23B	G	101.9	14	58.1	35		
Green Valley Seed	GV 6123X	C	107.4	6	57.3	31		
Green Valley Seed	GV 619	C	106.4	7	60.0	34	99.4	98.9
Green Valley Seed	GV 6223X	C	98.2	23	56.7	33		
Green Valley Seed	GV 631	C	96.2	34	57.9	34	95.4	96.6
Green Valley Seed	GV 6323X	C	110.6	4	55.9	33		
Green Valley Seed	GV 652	C	99.8	17	57.8	30	96.0	
Kennel Seed Farms	KF 1618	G	96.4	32	59.2	31		
Kennel Seed Farms	KF 2308	G	97.8	25	55.5	31		
Kennel Seed Farms	KF 2339	G	80.2	61	58.7	32		
Kennel Seed Farms	KF 2342	G	94.0	39	56.1	30		
Kitchen Seed Company	KSC 420	F	85.7	56	56.6	31	91.5	91.7
Kitchen Seed Company	KSC 423	F	79.5	62	58.8	34		
Kratz Farms LLC	EX KF 848	F	89.6	48	56.6	34		
Kratz Farms LLC	EX KF 861	F	81.4	59	57.6	32		
Kratz Farms LLC	EX KF 908	F	96.7	29	57.9	31		
Kratz Farms LLC	EX KF 952	F	83.9	58	57.0	32		
Kratz Farms LLC	KF 667	F	84.3	57	58.7	31	86.4	89.1
Kratz Farms LLC	KF 809	F	99.3	19	58.2	32	91.6	93.1
Kratz Farms LLC	KF 839	F	86.1	55	57.6	31	88.9	
Kratz Farms LLC	KF 841	F	95.4	37	56.9	30	98.4	
Kratz Farms LLC	KF 869	F	76.0	66	59.0	34		
Kratz Farms LLC	KF 893	F	116.1	1	56.3	32		
Kratz Farms LLC	KF 920	F	72.2	67	57.4	29	84.4	85.9
Langdon Bros. Seed	LB1936	F	70.1	68	52.6	30		
Martin Seed	M20	F	69.1	69	55.4	31		
Martin Seed	M22	F	98.9	21	58.9	34		
Pioneer	25R61	C	94.2	38	57.2	33	95.0	96.1
Pioneer	25R64	C	113.2	2	54.9	33	107.2	
Pioneer	25R65	C	95.9	35	56.2	33		
Pioneer	25R74	C	89.2	49	55.2	31	97.1	97.6
Pioneer	25R76	C	96.5	31	56.0	32	102.0	
VCIA	16VDH-SRW03-023	F	97.6	26	55.5	32		
VCIA	VA19FHB-36	F	97.4	28	58.3	35		
Viking	801	C	98.1	24	57.5	33	97.1	
Williamsfield Seed Co	WSC 3804	G	77.2	64	59.6	36		
Williamsfield Seed Co	WSC 3906	G	86.2	54	56.4	32		
	Trial Mean		93.8		57.1	32		
	LSD, 10%		7.0		1.1	2		
	CV, %		3.7		0.9	3		

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide.

Table 7. Results of the 2023 wheat variety trial at Urbana, in east central Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 69			2021,23 bu/ac	2020,21,23 bu/ac
AgriMAXX	498	G	121.3	38	57.6	41	107.5	102.0
AgriMAXX	503	G	127.3	13	60.1	41	113.5	107.8
AgriMAXX	505	G	125.1	24	61.5	40	110.3	106.8
AgriMAXX	511	G	111.8	60	59.5	38		
AgriMAXX	513	G	107.7	67	59.3	38	103.3	
AgriMAXX	516	G	125.7	23	59.9	40	116.0	
AgriMAXX	525	G	109.1	66	57.7	38		
AgriMAXX	531	G	115.9	57	60.4	40		
AgriMAXX	EXP 2302	G	122.3	32	60.9	39		
American Organic	Erisman AM		106.6	68	62.5	40	100.8	
Bio Town Seeds	D504W	G	120.6	41	59.5	39	110.7	104.1
Bio Town Seeds	D506W	G	140.2	1	59.8	40		
Bio Town Seeds	DXW2023	G	128.5	8	58.1	41		
Bio Town Seeds	DXW2025	G	123.0	30	60.1	41		
DeRaedt Seed	DeRaedt 47	C	122.1	33	62.1	40	106.9	103.9
Dyna-Gro	9120	G	111.6	61	62.6	39	112.3	106.8
Dyna-Gro	9151	G	121.7	34	61.1	39	114.5	105.5
Dyna-Gro	9172	G	129.2	6	60.0	40	115.2	109.5
Dyna-Gro	9231	G	118.1	48	60.0	40		
Dyna-Gro	9290	G	116.5	53	60.9	43		
Dyna-Gro	9422	G	136.3	2	61.3	41		
Dyna-Gro	9481	G	120.9	39	61.8	38		
Dyna-Gro	WX23444	C	129.7	5	59.3	41		
FS InSPIRE	FS 597	G	124.2	28	61.3	42		
FS InSPIRE	FS 600	G	126.6	17	61.8	40	113.7	
FS InSPIRE	FS 603	G	116.0	56	61.1	39	98.1	95.2
FS InSPIRE	FS 606	G	124.4	26	63.7	42		
FS InSPIRE	FS 617	G	126.1	20	59.3	39		
FS InSPIRE	FS 623	G	127.0	15	59.1	41	107.4	
FS InSPIRE	FS 624	G	128.2	9	60.8	41	107.9	101.3
FS InSPIRE	FS 745	G	127.5	12	59.1	40		
FS InSPIRE	FS WX23A	G	129.0	7	61.0	40		
FS InSPIRE	FS WX23B	G	120.7	40	59.8	41		
Green Valley Seed	GV 6123X	C	127.1	14	60.0	40		
Green Valley Seed	GV 619	C	120.0	42	61.6	39	104.8	102.6
Green Valley Seed	GV 6223X	C	131.0	4	61.1	41		
Green Valley Seed	GV 631	C	115.1	59	60.4	41	105.2	
Green Valley Seed	GV 6323X	C	117.1	51	57.4	41		
Green Valley Seed	GV 652	C	115.7	58	61.3	38		
Kennel Seed Farms	KF 1618	G	116.4	55	61.6	39		
Kennel Seed Farms	KF 2308	G	127.6	11	60.0	39		
Kennel Seed Farms	KF 2339	G	119.8	44	63.9	42		
Kennel Seed Farms	KF 2342	G	124.3	27	61.1	38		
Kitchen Seed Company	KSC 420	F	121.6	36	61.0	41	110.0	
Kitchen Seed Company	KSC 423	F	110.7	63	63.6	42		
Kratz Farms LLC	EX KF 848	F	126.1	19	61.0	41		
Kratz Farms LLC	EX KF 861	F	110.8	62	60.8	42		
Kratz Farms LLC	EX KF 908	F	127.9	10	60.1	40		
Kratz Farms LLC	EX KF 952	F	118.3	46	60.1	40		
Kratz Farms LLC	KF 667	F	122.4	31	62.5	39	109.7	92.8
Kratz Farms LLC	KF 809	F	134.4	3	60.4	40	123.8	114.2
Kratz Farms LLC	KF 839	F	117.5	50	62.0	41		
Kratz Farms LLC	KF 841	F	125.9	22	61.5	38		
Kratz Farms LLC	KF 869	F	116.9	52	62.6	41		
Kratz Farms LLC	KF 893	F	121.5	37	59.7	38		
Kratz Farms LLC	KF 920	F	121.7	35	61.6	39	116.5	
Langdon Bros. Seed	LB1936	F	104.9	69	58.6	37		
Martin Seed	M20	F	126.2	18	59.4	41		
Martin Seed	M22	F	124.4	25	61.9	39		
Pioneer	25R61	C	123.4	29	59.1	41	112.0	109.6
Pioneer	25R64	C	126.7	16	56.9	39		
Pioneer	25R65	C	116.5	54	58.7	38		
Pioneer	25R74	C	118.2	47	58.9	37	109.7	104.7
Pioneer	25R76	C	119.9	43	59.1	41		
VCIA	16VDH-SRW03-023	F	126.0	21	60.0	39		
VCIA	VA19FHB-36	F	117.5	49	61.9	42		
Viking	801	C	118.5	45	60.3	41		
Williamsfield Seed Co	WSC 3804	G	110.1	64	61.0	41		
Williamsfield Seed Co	WSC 3906	G	109.9	65	59.3	39		
	Trial Mean		121.3		60.5	40		
	LSD, 10%		7.2		0.8	2		
	CV, %		3.7		0.6	2		

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide.

Table 8. Results of the 2023 wheat variety trial at Hampshire, in north central Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield Rank 1 to 69	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
							2022-23 bu/ac	2021-23 bu/ac
AgriMAXX	498	G	148.4	35	59.9	38.3		
AgriMAXX	503	G	156.5	6	61.4	36.3	140.3	135.2
AgriMAXX	505	G	155.3	8	63.0	36.1	143.7	138.2
AgriMAXX	511	G	141.3	59	58.3	34.6	126.1	
AgriMAXX	513	G	146.9	41	61.8	36.5	133.1	126.5
AgriMAXX	516	G	153.4	18	61.8	36.9	142.4	137.2
AgriMAXX	525	G	152.8	21	61.0	32.7	144.5	
AgriMAXX	531	G	139.2	63	62.4	39.0		
AgriMAXX	EXP 2302	G	143.7	56	63.0	36.7		
American Organic	Erisman AM		132.6	69	62.8	38.2	123.2	119.7
Bio Town Seeds	D504W	G	151.2	23	61.8	37.2	144.5	126.8
Bio Town Seeds	D506W	G	154.1	16	61.1	36.4		
Bio Town Seeds	DXW2023	G	153.2	19	59.4	35.7		
Bio Town Seeds	DXW2025	G	157.5	2	61.1	37.6		
DeRaedt Seed	DeRaedt 47	C	150.6	26	63.5	35.4	141.9	136.8
Dyna-Gro	9120	G	146.8	43	62.9	33.9	143.0	136.8
Dyna-Gro	9151	G	151.0	24	63.2	35.3	138.7	132.1
Dyna-Gro	9172	G	154.4	14	61.4	36.9	144.4	135.7
Dyna-Gro	9231	G	155.1	9	61.6	38.5		
Dyna-Gro	9290	G	148.9	33	61.6	36.4		
Dyna-Gro	9422	G	157.4	3	61.8	35.9		
Dyna-Gro	9481	G	148.6	34	61.4	37.3		
Dyna-Gro	WX23444	C	146.4	45	61.0	37.1		
FS InSPIRE	FS 597	G	146.5	44	62.0	37.7	138.9	
FS InSPIRE	FS 600	G	153.1	20	63.3	36.1	143.7	137.5
FS InSPIRE	FS 603	G	146.9	42	62.2	34.7	137.9	132.3
FS InSPIRE	FS 606	G	138.6	64	63.7	39.3		
FS InSPIRE	FS 617	G	156.6	5	61.2	34.9		
FS InSPIRE	FS 623	G	151.0	25	61.4	36.4	138.3	130.3
FS InSPIRE	FS 624	G	142.9	58	61.6	38.4	135.2	128.7
FS InSPIRE	FS 745	G	154.3	15	61.7	36.9	144.6	
FS InSPIRE	FS WX23A	G	145.8	48	61.5	34.5		
FS InSPIRE	FS WX23B	G	154.7	12	61.8	38.0		
Green Valley Seed	GV 6123X	C	150.4	28	61.2	35.3		
Green Valley Seed	GV 619	C	152.6	22	63.5	35.2	140.7	133.0
Green Valley Seed	GV 6223X	C	136.1	67	61.5	37.4		
Green Valley Seed	GV 631	C	155.3	7	62.7	36.6	143.5	131.0
Green Valley Seed	GV 6323X	C	156.9	4	60.9	36.6		
Green Valley Seed	GV 652	C	144.6	53	63.5	34.7	137.9	
Kennel Seed Farms	KF 1618	G	146.0	47	61.6	23.6		
Kennel Seed Farms	KF 2308	G	148.2	36	61.2	35.3		
Kennel Seed Farms	KF 2339	G	143.0	57	63.5	40.2		
Kennel Seed Farms	KF 2342	G	144.3	55	63.1	36.5		
Kitchen Seed Company	KSC 420	F	136.2	66	61.1	35.7	127.0	122.8
Kitchen Seed Company	KSC 423	F	139.7	62	62.9	39.6		
Kratz Farms LLC	EX KF 848	F	145.4	49	61.7	38.3		
Kratz Farms LLC	EX KF 861	F	154.7	11	61.8	38.8		
Kratz Farms LLC	EX KF 908	F	147.4	38	61.4	35.9		
Kratz Farms LLC	EX KF 952	F	150.0	29	61.4	36.2		
Kratz Farms LLC	KF 667	F	144.3	54	62.3	33.3	134.4	131.3
Kratz Farms LLC	KF 809	F	149.0	32	61.5	35.5	140.5	135.5
Kratz Farms LLC	KF 839	F	146.9	40	63.7	37.2	137.9	
Kratz Farms LLC	KF 841	F	147.2	39	63.0	36.0	126.5	
Kratz Farms LLC	KF 869	F	145.2	51	63.8	40.7		
Kratz Farms LLC	KF 893	F	139.7	61	62.1	38.2		
Kratz Farms LLC	KF 920	F	149.9	30	61.7	36.6	136.2	126.2
Langdon Bros. Seed	LB1936	F	137.6	65	59.8	38.0		
Martin Seed	M20	F	144.7	52	61.3	36.4		
Martin Seed	M22	F	150.6	27	63.5	35.1		
Pioneer	25R61	C	145.4	50	61.1	37.8	133.0	131.1
Pioneer	25R64	C	149.4	31	59.1	35.0	134.6	
Pioneer	25R65	C	140.4	60	58.9	34.6		
Pioneer	25R74	C	146.4	46	59.9	33.3	134.9	127.0
Pioneer	25R76	C	153.9	17	61.0	35.8	144.6	
VCIA	16VDH-SRW03-023	F	161.0	1	60.6	36.6		
VCIA	VA19FHB-36	F	154.5	13	62.8	38.0		
Viking	801	C	155.0	10	61.2	36.9	143.6	
Williamsfield Seed Co	WSC 3804	G	133.4	68	62.4	40.1		
Williamsfield Seed Co	WSC 3906	G	147.4	37	60.8	35.2		
	Trial Mean		148.2		61.8	36.4		
	LSD, 10%		8.1		0.9	3.6		
	CV, %		2.6		0.6	4.3		

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide.

Table 9. Agronomic characteristics of wheat varieties sold in Illinois. Descriptions of private varieties are provided by companies. See the bottom of the table (second page) for codes.

<u>Origin</u>	<u>Variety</u>	<u>Type</u>	<u>Maturity</u>	<u>Head type</u>	<u>Winter-hardiness</u>	<u>Plant height</u>	<u>Stand-ability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Sept-oria</u>
AgriMAXX	498	V	ML	S	E	MT	VG	S	I	I
	503	V	ME	S	E	MT	G	I	MR	MR
	505	V	M	B	VG	M	E	S	I	I
	511	V	E	B	E	MS	VG	S	MR	MR
	513	V	ME	B	E	M	E	R	R	MR
	514	V	M	B	VG	M	G	S	R	MR
	516	V	M/ML	B	E	M	VG	R	MR	MR
	525	V	M	B	E	M	E	R	MR	MR
	535	V	M	B	G	M	E	I	MR	MR
	531	V	VE	S	VG	M	VG	S	I	I
	EXP 2302	V	M	B	G	M	E	S	MR	MR
	EXP 2301	V	ME	S	G	MS	E	S	I	I
	American Organic	Erisman	v	E	B	E	T	VG		MR
American Organic	Erisman	V	E	B	E	T	VG		MR	MR
Bio Town Seeds	D477W	V	VE	B	VG	M	G		I	
	D491W	V	ME	B	VG	M	E		I	
	D504W	V	ML	B	VG	M	VG		I	
	D506W	V		B	VG					
	DXW2023	V		B	VG					
	DXW2024	V		B	VG					
	DXW2025	V		S	VG					
	DXW2026	V		B	VG					
DeRaedt Seed	47	V	ME	B	E	MT	E	S	I	MR
Dyna-Gro Seed	9002	V	M	B	E	M	G	R	I	
	9120	V	E	B	E	M	G	S	I	
	9151	V	ME	B	E	M	G	S	I	
	9172	V	M	B	E	M	G	S	I	
	9231	V	ME	B						
	9290	V	E	B						
	9393	V	ML	B						
	9422	V	M	B						
	9481	V	ME	S						
	WX23444	V	M	S						
FS Wheat	FS 597	V	E	B	G	MT	VG	S	VG	VG
	FS 600	V	ME	B	VG	M	E	S	G	VG
	FS 603	V	ME	B	VG	MS	E	MR	VG	VG
	FS 606	V	E	S	VG	M	E	S	VG	VG
	FS 617	V	M	B	VG	M	E	S	VG	VG
	FS 623	V	M	S	VG	MT	G	S	G	G
	FS 624	V	M	S	VG	M	E	MR	VG	G
	FS 745	V	M	B	VG	M	VG	MS	G	G
	FS WX23A	V	M	B	VG	M	E	S	VG	VG
	FS WX23B	V	ME	B	E	MT	G	MS	G	VG
Green Valley	GV 6123X	V	ME	B	E	M	VG	S	I	I
	GV 619	V	ME	B	VG	M	VG	S	I	I
	GV 6223X	V	M	B	E	M,T	VG	S	I	I
	GV 631	V	M	B	E	M,T	VG	S	I	I
	GV 6323X	V	M	B	E	M,T	E	S	I	I
	GV 652	V	ML	B	VG	M	E	S	I	I

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>Standability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Septoria</u>
Hoffman Seed House	H7W21	V	ME	B	E	MS	E	I	S	I
	H7W23	V	ME	S	E	M	E	I	MR	MR
	H7W30	V	M	S	E	MT	G	I	I	MS
	H7W40	V	E	S	E	M	VG	I	I	MR
Kitchen Seed	KSC 420W	V	ME	S	VG	M	VG	R	R	R
	KSC 423W	V	ME	S	VG	M	VG	R	R	R
Kennel Seed Farms	KF 2342	V	M	S	VG	M	VG	I	S	I
	KF 2339	V	ME	S	VG	M	VG	I	MR	I
	KF 2308	V	M	T	VG	M	VG	I	MR	R
	KF 1618	V	M	T	VG	M	VG	I	MS	MS
Kratz Farms	KF 667	v	ME	T	VG	M	E	I	R	R
	KF 809	v	ME	S	VG	MS	E	I	S	MR
	KF 839	v	M	B	VG	M	VG	I	R	R
	KF 841	v	ME	S	VG	M	VG	I	MR	I
	KF 869	v	E	S	VG	M	VG	I	R	R
	KF 893	v	M	S	VG	M	VG	I	R	I
	KF 920	v	M	S	VG	M	VG	I	S	MR
	EX KF 848	v	E	S	VG	M	VG	I	R	R
	EX KF 861	v	ME	B	VG	M	VG	I	MS	I
	EX KF 908	v	ME	T	VG	M	VG	I	R	R
	EX KF 952	v	E	S	VG	M	VG	I	S	R
KWS Cereals	KWS453	V	M	T	G	M				
	KWS472	V	M	B	G	M				
	KWS477	V	M	T	G	M				
	KWS482	V	ML	B	VG	M				
	KWS490	V	M	B	VG	M				
	KWS492	V	ML	B	VG	M				
	KWS495	V	M	B	VG	M				
Langdon Bros. Seed	LB1936	V	E	S	VG	M	E	R	G	G
Martin Seed	M20	V	ME	S	VG	MT	AVG	S	MS	MS
	M22	V	ME	B	VG	MT	VG	S	S	MS
Pioneer - Corteva	25R64	V	M	B	G	M	VG	S	MS	
	25R65	V	ME	B	G	M	E	R	MS	
	25R74	V	E	B	G	S	G	R	I	
	25R76	V	ME	B	G	M	G	R	MS	
	25R61	V	M	B	G	M	G	S	R	
VCIA	16VDH-SRW03-023	V	M	S	G	M	G		R	
	VA19FHB-36	V	M	B	G	M	G		R	
Viking	801	V	ME	T	G	M	G		R	
Williamsfield Seed Co	WSC 3804	V	m	s	vg	m	vg	i	s	i
	WSC 3906	V	ml	b	vg	m	vg	i	r	i

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. Illinois regional wheat variety trial results and diseases ratings, 2023

Company	Variety	ST ¹	Regional Yield ²		Fusarium Head Blight ³		SBMV ⁴	
			North bu/ac	South bu/ac	Score 0 to 9	SE	Score 0-9	Category R/S
AgniMAXX	498	G	122.2	##	2.1	2.4	4	R
AgniMAXX	503	G	123.2	115.7	1.8	2.4	6	S
AgniMAXX	505	G	122.7	116.9	6.8	2.4	4	R
AgniMAXX	511	G	114.7	106.5	3.2	6.4	3	R
AgniMAXX	513	G	121.6	115.0	3.9	2.4	5	R
AgniMAXX	514	G	##	116.6	3.6	2.4	3	R
AgniMAXX	516	G	124.7	##	3.2	2.4	3	R
AgniMAXX	525	G	123.0	114.5	tbid	tbid	3	R
AgniMAXX	531	G	114.6	110.3	tbid	tbid	5	R
AgniMAXX	535	G	##	108.8	tbid	tbid	2	R
AgniMAXX	EXP 2301	G	##	110.8	tbid	tbid	3	R
AgniMAXX	EXP 2302	G	127.3	118.2	tbid	tbid	2	R
American Organic	Erisman AM	G	105.7	##	1.1	2.4	6	S
Bio Town Seeds	D477W	G	##	108.9	3.2	6.4	3	R
Bio Town Seeds	D491W	G	##	108.1	3.6	6.4	3	R
Bio Town Seeds	D504W	G	121.9	105.5	3.7	6.4	3	R
Bio Town Seeds	D506W	G	132.4	122.6	4.6	6.4	3	R
Bio Town Seeds	DXW2023	G	126.6	##	tbid	tbid	6	S
Bio Town Seeds	DXW2026	G	##	113.7	tbid	tbid	5	R
Bio Town Seeds	DXW 2025	G	123.6	##	tbid	tbid	3	R
DeRaedt Seed	DeRaedt 47	C	121.5	##	6.1	2.4	4	R
Dyna-Gro	9002	G	##	114.0	2.7	2.4	4	R
Dyna-Gro	9120	G	118.1	108.1	2.4	2.4	1	R
Dyna-Gro	9151	G	124.3	111.9	7.7	2.4	3	R
Dyna-Gro	9172	G	128.6	104.9	2.2	2.4	4	R
Dyna-Gro	9231	G	124.1	109.9	tbid	tbid	3	R
Dyna-Gro	9290	G	120.1	107.6	tbid	tbid	2	R
Dyna-Gro	9393	G	##	109.0	tbid	tbid	2	R
Dyna-Gro	9422	G	134.0	115.5	tbid	tbid	2	R
Dyna-Gro	9481	G	118.5	117.4	tbid	tbid	4	R
Dyna-Gro	WX23444	G	125.6	118.5	tbid	tbid	2	R
FS InSPIRE	FS 597	G	121.0	112.1	3.6	6.4	3	R
FS InSPIRE	FS 600	G	127.5	114.6	3.8	6.4	4	R
FS InSPIRE	FS 603	G	117.3	101.8	5.4	2.4	5	R
FS InSPIRE	FS 606	G	113.2	110.1	tbid	tbid	6	S
FS InSPIRE	FS 617	G	126.2	118.4	tbid	tbid	6	S
FS InSPIRE	FS 623	G	116.2	124.4	3.6	6.4	6	S
FS InSPIRE	FS 624	G	124.8	112.6	7.4	2.4	3	R
FS InSPIRE	FS 745	G	128.9	103.7	3.6	6.4	2	R
FS InSPIRE	FS WX23A	G	124.6	107.0	tbid	tbid	2	R
FS InSPIRE	FS WX23B	G	126.3	107.6	tbid	tbid	2	R
Green Valley Seed	GV 6123X	C	129.0	##	tbid	tbid	2	R
Green Valley Seed	GV 619	C	127.6	##	4.9	2.4	4	R
Green Valley Seed	GV 6223X	C	121.4	##	tbid	tbid	3	R
Green Valley Seed	GV 631	C	122.9	##	3.7	6.4	3	R
Green Valley Seed	GV 6323X	C	130.2	##	tbid	tbid	4	R
Green Valley Seed	GV 652	C	120.9	##	4.6	6.4	3	R
Hoffman Seed House	H7W21	C	##	116.1	8.9	2.4	5	R
Hoffman Seed House	H7W23	C	##	103.1	tbid	tbid	6	S
Hoffman Seed House	H7W30	C	##	113.8	2.6	2.4	8	S
Hoffman Seed House	H7W40	C	##	107.7	1.0	2.4	5	R
Kennel Seed Farms	KF 1618	C	120.3	##	tbid	tbid	7	S
Kennel Seed Farms	KF 2308	C	124.4	##	tbid	tbid	7	S
Kennel Seed Farms	KF 2339	C	113.3	##	tbid	tbid	7	S
Kennel Seed Farms	KF 2342	C	120.6	##	tbid	tbid	8	S
Kitchen Seed Company	KSC 420	C	113.8	110.5	3.5	2.4	8	S
Kitchen Seed Company	KSC 423	C	109.7	109.1	tbid	tbid	7	S
Kratz Farms LLC	EX KF 848	F	119.5	##	tbid	tbid	6	S
Kratz Farms LLC	EX KF 861	F	115.4	##	tbid	tbid	5	R
Kratz Farms LLC	EX KF 908	F	123.7	##	tbid	tbid	7	S
Kratz Farms LLC	EX KF 952	F	116.7	##	tbid	tbid	6	S
Kratz Farms LLC	KF 667	F	116.1	##	3.4	2.4	6	S
Kratz Farms LLC	KF 809	F	127.0	##	7.5	2.4	7	S
Kratz Farms LLC	KF 839	F	116.5	##	4.2	6.4	6	S
Kratz Farms LLC	KF 841	F	122.6	##	3.0	6.4	8	S
Kratz Farms LLC	KF 869	F	111.4	##	tbid	tbid	7	S
Kratz Farms LLC	KF 893	F	127.8	##	tbid	tbid	4	R
Kratz Farms LLC	KF 920	F	112.6	##	1.6	2.4	6	S
KWS Cereals US	KWS453	C	##	117.5	tbid	tbid	6	S
KWS Cereals US	KWS472	C	##	119.1	tbid	tbid	7	S
KWS Cereals US	KWS477	C	##	117.7	tbid	tbid	9	S
KWS Cereals US	KWS482	C	##	102.6	tbid	tbid	7	S
KWS Cereals US	KWS490	C	##	115.1	tbid	tbid	5	R
KWS Cereals US	KWS492	C	##	122.7	tbid	tbid	7	S
KWS Cereals US	KWS495	C	##	119.7	tbid	tbid	8	S
Langdon Bros. Seed	LB1936	F	103.5	##	tbid	tbid	7	S
Martin Seed	M20	F	110.8	##	tbid	tbid	7.0	S
Martin Seed	M22	F	124.8	##	tbid	tbid	3	R
Pioneer	25R61	C	120.8	##	1.0	2.4	2	R
Pioneer	25R64	C	131.1	##	4.9	6.4	4	R
Pioneer	25R65	C	118.1	118.9	tbid	tbid	2	R
Pioneer	25R74	C	117.8	103.0	8.9	2.4	3	R
Pioneer	25R76	C	123.8	119.2	3.3	6.4	2	R
VCIA	16VDH-SRW0	F	128.0	100.7	tbid	tbid	6	S
VCIA	VA19FHB-36	F	123.8	109.2	tbid	tbid	7.0	S
Viking	801	C	124.5	107.4	3.7	6.4	3.0	R
Williamsfield Seed Co	WSC 3804	G	106.5	109.4	tbid	tbid	6.0	S
Williamsfield Seed Co	WSC 3906	G	114.8	110.8	tbid	tbid	6.0	S
	Trial Mean		121.1	112.0	4.0		4.6	
	LSD, 10%		9.0	9.3				
	CV, %		13.6	13.6				

¹ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide.

²##- Varieties not entered in the region.

³Varieties were evaluated for resistance to soilborne mosaic virus (SBMV) at in the SBMV nursery at the University of Illinois South Farm at Urbana, IL. SBMV and its vector are naturally present in the soil in this nursery. Disease symptoms were rated on a 1 to 9 scale in late March/ early April. Varieties with a score of 5 or below are considered to be resistant to SBMV.

⁴Varieties were evaluated for resistance to FHB at the University of Illinois South Farm at Urbana, IL. To promote disease symptoms, we spread scabby corn kernels on the soil surface 3 weeks before heading and mist irrigated three times per day for 15 minutes. Ratings for each variety are based on vomitoxin levels under FHB epidemic conditions. Ratings are expressed on a 0 to 9 scale with 0 being the best (lowest vomitoxin) and 9 being the worst (highest vomitoxin). Varieties with ratings lower than 3.4, indicated in bold font, are considered at least moderately resistant to FHB. The SE column contains the standard error for the disease rating estimate. Lower SE values indicate that the resistance level is known with greater certainty because the variety has been evaluated in the nursery for multiple seasons.