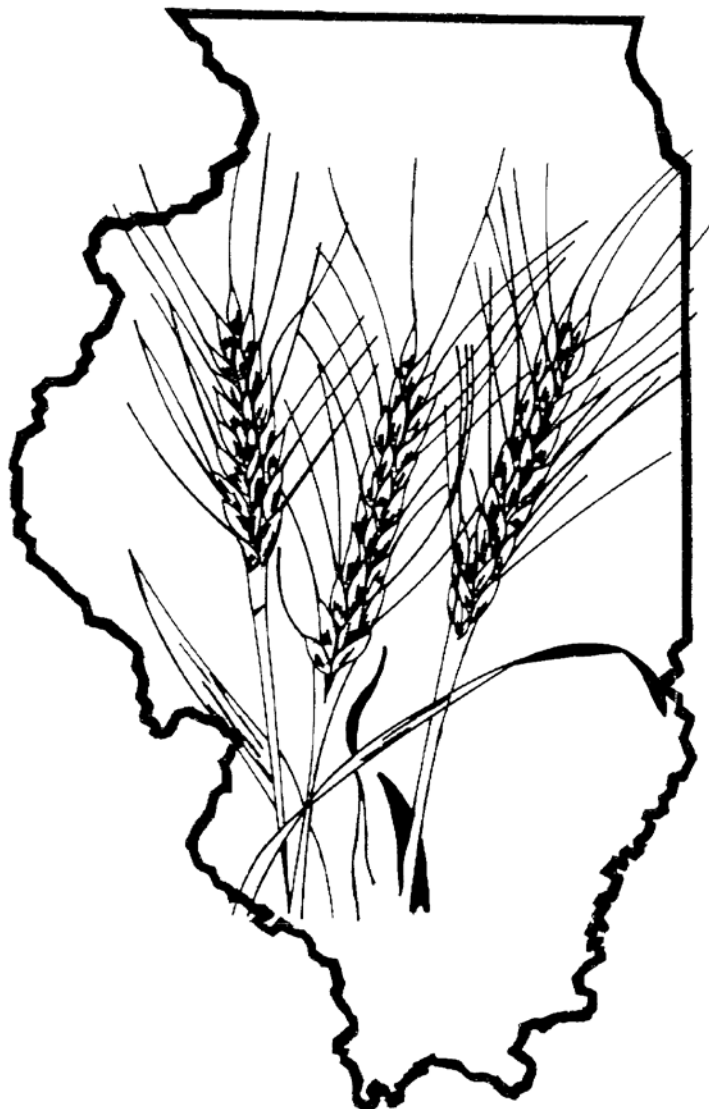


WHEAT PERFORMANCE IN ILLINOIS TRIALS – 2022



**Crop Sciences Special Report 2022-01
Department of Crop Sciences
University of Illinois
July 2022**

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Crop Sciences Special Report 2022-01, July 2022

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Overall the 2022 winter wheat growing season was good, but not excellent. At the beginning of May, the USDA projected average yield was 75 bushels per acre, just 4 bushels per acre lower than observed during the record-breaking 2021 season. Based on tiller counts from 63 fields across Southern IL done on May 24th, the Illinois Wheat Association (IWA) predicted that the average yield in Southern Illinois would be 69 bushels per acre. In many fields, stands were thinner than ideal. Later than optimal planting was likely to blame, as the weather during October 2021 was consistently rainy, making timely planting difficult. Once planted, high rainfall may have hindered establishment in some fields. 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.

It's worth mentioning that this season coincided with the Russian invasion of Ukraine. This war continues to affect US wheat growers and the public at large via its impact on the prices of fuel, fertilizer, and commodities. To promote increased crop production and mitigate rising food prices, just this July, the US Department of Agriculture expanded crop insurance for wheat-soybean double-cropping so that more counties are eligible. Additionally, the profitability of wheat-soybean double-cropping in 2023 is expected to be high in southern as well as in central Illinois given current commodity prices.

To aid variety selection decisions, we present these wheat variety testing results from 6 locations across the state of Illinois. 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.

Location	Cooperator	Soil type	Planting date	N fertilizer	Harvest date
Elkville	Trent Funk	Hurst silt loam	Oct. 10	30 Fall 110 Spring	June 15
Belleville	Dane Hunter	Ebbert silt loam	Oct. 5	30 Fall 85 Spring	June 18
St Peter	Russ Schwarm	Hoyleton silt loam	Sept. 29	0 Fall 120 Spring	June 21
Perry/Orr Center	Luke Merritt	Clarksdale silt loam	Oct. 8	30 Fall 80 Spring	June 28
Urbana	Nick Eisenmenger	Flanagan silt loam	Oct. 1	30 Fall 40 Spring	June 29
Hampshire	Dezeri DeRaedt	Drummer silt loam	Sept. 25	30 Fall 80 Spring	July 14

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 2022.

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

Grow Pro Genetics
375 N US Old Route 66
Hamel, IL 62046
(815) 370-3291

Monier Seed & Service
846 Yankee Lane
Sparland, IL 61565
(319) 464-5708

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

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

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

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

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

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

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

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

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

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

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

Table 1. Southern Illinois regional wheat variety trial results, 2022

Company	Variety	ST ¹	Regional Average ²				Elkville		St Peter	
			Yield bu/ac	Yield Rank 1 to 57	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu
AgriMAXX	503	G	**	**	**	37	**	**	106.9	61.6
AgriMAXX	505	G	113.0	20	63.2	37	119.5	62.9	106.5	63.5
AgriMAXX	511	G	108.7	31	59.9	37	111.5	60.1	105.8	59.6
AgriMAXX	513	G	111.0	25	62.4	37	115.0	62.2	107.0	62.6
AgriMAXX	514	G	119.6	3	60.0	37	122.8	59.7	116.4	60.2
AgriMAXX	516	G	107.0	36	61.0	36	101.0	61.2	113.0	60.8
AgriMAXX	525	G	117.9	8	61.2	35	114.4	61.3	121.4	61.0
AgriMAXX	EXP 2105	G	111.9	23	61.2	37	107.5	61.1	116.3	61.3
AgriMAXX	EXP 2222	G	110.4	28	62.0	36	109.6	61.8	111.2	62.2
Bio Town Seeds	D477W	G	112.6	22	60.0	37	113.2	60.2	112.1	59.9
Bio Town Seeds	D491W	G	119.4	5	61.2	36	119.9	60.9	118.8	61.5
Bio Town Seeds	D499W	G	105.1	40	61.9	37	105.9	62.0	104.2	61.7
Bio Town Seeds	D504W	G	106.7	38	60.9	36	102.9	60.8	110.4	61.0
Bio Town Seeds	XW2022	C	123.0	1	59.7	35	128.3	59.4	117.8	59.9
Dyna-Gro	9002	G	109.7	29	60.7	36	108.1	60.6	111.3	60.7
Dyna-Gro	9120	G	113.1	19	62.2	36	113.0	62.6	113.2	61.8
Dyna-Gro	9151	G	116.1	12	63.1	37	112.8	62.5	119.5	63.7
Dyna-Gro	9172	G	112.7	21	60.9	36	106.0	60.9	119.3	60.9
Dyna-Gro	9352	G	97.1	51	59.8	35	81.7	59.1	112.4	60.4
Dyna-Gro	WX 20738	G	111.4	24	61.4	36	107.4	60.8	115.4	61.9
Dyna-Gro	WX 21741	G	118.4	6	61.7	39	116.5	61.5	120.3	62.0
Dyna-Gro	WX 22741	G	116.4	11	60.0	37	119.4	60.0	113.4	60.0
Dyna-Gro	WX 22793	G	120.6	2	61.4	37	115.7	61.5	125.6	61.3
FS InSPIRE	FS 597	G	110.6	26	61.3	37	111.4	61.1	109.8	61.5
FS InSPIRE	FS 600	C	113.6	17	63.0	37	116.9	62.4	110.2	63.6
FS InSPIRE	FS 603	G	106.7	37	60.9	35	100.8	60.6	112.6	61.2
FS InSPIRE	FS 616	G	108.9	30	61.8	38	107.2	61.8	110.6	61.8
FS InSPIRE	FS 623	G	**	**	**	38	**	**	110.5	61.5
FS InSPIRE	FS 624	G	116.7	10	60.9	39	113.0	61.1	120.3	60.6
FS InSPIRE	FS 745	G	104.3	41	60.7	37	97.7	60.8	111.0	60.7
FS InSPIRE	FS WX22A	G	107.3	35	60.3	36	103.5	60.3	111.1	60.3
FS InSPIRE	FS WX22B	G	118.3	7	61.8	39	117.9	61.6	118.8	62.0
Grow Pro Genetics	GP 381	C	96.6	52	60.5	33	92.5	60.1	100.8	60.9
Grow Pro Genetics	GP 348	C	93.0	54	63.7	34	90.0	62.8	96.1	64.6
Grow Pro Genetics	GP 463	C	97.8	47	60.6	36	85.2	58.8	110.5	62.3
Grow Pro Genetics	GP 709	C	94.0	53	60.5	36	94.3	59.2	93.7	61.8
Grow Pro Genetics	GP 747	C	113.2	18	58.6	37	113.4	58.6	112.9	58.7
Grow Pro Genetics	SY 100	G	**	**	**	34	**	**	113.8	59.9
Grow Pro Genetics	SY 547	C	97.4	49	61.2	37	92.6	60.5	102.2	61.8
Grow Pro Genetics	SY Viper	G	**	**	**	39	**	**	105.4	62.6
Hoffman Seed	H7W21	C	119.6	4	59.5	34	116.6	60.0	122.6	59.0
Hoffman Seed	H7W30	C	98.3	46	61.2	37	92.4	60.7	104.2	61.7
Hoffman Seed	H7W31	C	92.6	55	61.4	35	81.4	60.3	103.8	62.5
Hoffman Seed	H7W40	C	91.6	56	60.5	35	91.3	59.6	91.9	61.5
Kitchen Seed Company	KSC 418	C	101.9	44	61.4	37	96.4	60.6	107.4	62.1
Kitchen Seed Company	KSC 420	C	99.2	45	61.5	39	101.6	61.1	96.8	61.8
KWS Cereals	KWS394	C	115.8	15	59.8	34	122.1	59.8	109.5	59.8
KWS Cereals	KWS398	C	97.6	48	60.2	35	86.9	60.3	108.3	60.1
KWS Cereals	KWS403	C	110.5	27	60.1	35	114.9	60.2	106.2	60.1
KWS Cereals	KWS405	C	97.1	50	62.2	36	91.8	61.6	102.5	62.8
KWS Cereals	KWS411	C	108.3	32	62.6	35	109.0	62.3	107.5	63.0
Pioneer	25R61	C	113.7	16	61.6	38	113.8	61.5	113.7	61.7
Pioneer	25R64	C	117.8	9	59.9	36	116.0	60.2	119.5	59.5
Pioneer	25R74	C	106.1	39	61.4	35	103.4	61.4	108.8	61.4
Pioneer	25R76	C	116.1	13	61.7	36	121.5	62.2	110.7	61.2
VCIA	VA17W-75	C	90.3	57	61.4	36	81.8	60.2	98.7	62.6
Viking	801		116.1	14	61.6	37	116.7	61.5	115.5	61.8
Williamsfield Seed Co	WSC 1537	C	**	**	**	39	**	**	99.9	63.1
Williamsfield Seed Co	WSC 2720	F	**	**	**	35	**	**	119.5	59.0
Williamsfield Seed Co	WSC 3252	C	107.6	34	59.5	38	106.2	59.2	108.9	59.8
Williamsfield Seed Co	WSC 3331	C	102.0	43	58.8	38	95.6	57.7	108.4	59.9
Williamsfield Seed Co	WSC 3400		102.9	42	61.0	38	96.3	61.0	109.4	61.1
Williamsfield Seed Co	WSC 3506	F	108.2	33	59.1	34	100.8	59.3	115.6	58.9
	Trial Mean		107.0		61.0	36	104.0	60.7	109.9	61.3
	LSD, 10%		11.5		1.2	1.9	6.6	0.5	8.7	0.4
	CV, %		11.1		2.0	5.3	4.7	0.6	5.9	0.5

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

² Belleville location data will not be used, the trials suffered from lodging/deer feeding causing the data to be unreliable.

*.- plots lost to deer feeding, please use the data from St Peter.

Table 2. Northern Illinois regional wheat variety trial results, 2022

Company	Variety	ST ¹	Regional Average ²				Perry		Hampshire ³	
			Yield bu/ac	Yield Rank 1 to 71	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu
AgriMAXX	503	G	105.3	50	58.5	39	89.2	58.6	121.5	58.3
AgriMAXX	505	G	113.0	17	60.5	39	94.2	60.5	131.8	60.4
AgriMAXX	511	G	95.8	70	58.1	38	82.9	57.9	108.6	58.3
AgriMAXX	513	G	108.7	34	59.4	39	99.5	60.5	117.9	58.3
AgriMAXX	516	G	106.1	49	58.7	39	80.8	59.3	131.3	58.1
AgriMAXX	525	G	114.1	11	58.7	38	90.7	58.4	137.4	59.0
AgriMAXX	EXP 2105	G	114.4	10	58.6	38	95.0	59.0	133.8	58.2
AgriMAXX	EXP 2222	G	110.0	28	60.2	38	93.6	60.5	126.4	60.0
American Organic	Erisman AM		96.0	68	60.0	39	77.4	60.2	114.5	59.8
Bio Town Seeds	D491W	G	115.2	5	58.2	38	96.6	59.1	133.7	57.2
Bio Town Seeds	D504W	G	110.8	25	58.4	39	81.9	58.5	139.8	58.3
DeRaedt Seed	DeRaedt 47	C	113.6	14	60.3	38	92.9	60.3	134.3	60.3
Dyna-Gro	9120	G	116.4	4	59.9	39	90.1	60.0	142.6	59.8
Dyna-Gro	9151	G	108.0	38	60.0	39	90.5	60.2	125.6	59.7
Dyna-Gro	9172	G	107.7	41	59.3	39	80.6	59.7	134.7	58.8
Dyna-Gro	9352	G	107.4	42	58.7	37	96.2	58.4	118.6	58.9
Dyna-Gro	WX 20738	G	114.7	9	59.8	40	97.3	60.1	132.1	59.5
Dyna-Gro	WX 21741	G	115.1	6	59.6	40	97.0	59.9	133.2	59.3
Dyna-Gro	WX 22741	G	110.3	26	56.2	41	97.1	56.1	123.5	56.2
Dyna-Gro	WX 22793	G	113.3	15	58.5	39	102.5	58.4	124.2	58.7
FS InSPIRE	FS 597	G	111.1	24	59.5	41	89.4	59.8	132.8	59.1
FS InSPIRE	FS 600	C	116.5	3	60.2	39	98.0	60.3	134.9	60.1
FS InSPIRE	FS 603	G	109.3	31	59.0	38	88.8	59.5	129.8	58.4
FS InSPIRE	FS 616	G	103.7	56	59.2	39	95.3	60.0	112.1	58.3
FS InSPIRE	FS 623	G	108.9	33	58.7	38	93.2	58.7	124.6	58.7
FS InSPIRE	FS 624	G	109.0	32	59.5	39	88.9	59.1	129.1	60.0
FS InSPIRE	FS 745	G	108.2	35	58.9	38	81.0	59.0	135.4	58.7
FS InSPIRE	FS WX22A	G	108.2	36	58.9	39	89.4	58.6	127.0	59.3
FS InSPIRE	FS WX22B	G	114.0	12	59.3	39	97.7	59.7	130.2	58.9
Green Valley Seed	63X	C	111.9	21	58.0	36	96.8	58.7	127.0	57.3
Green Valley Seed	64X	C	117.0	2	58.4	38	98.9	59.3	135.0	57.5
Green Valley Seed	GV 619	C	111.3	23	60.0	39	94.4	60.0	128.3	60.0
Green Valley Seed	GV 631	C	112.9	18	58.9	39	94.4	59.1	131.3	58.7
Green Valley Seed	GV 652	C	113.1	16	60.1	37	93.0	60.4	133.2	59.8
Grow Pro Genetics	GP 348	C	107.8	40	60.9	36	92.1	61.0	123.5	60.8
Grow Pro Genetics	GP 381	C	111.6	22	57.7	37	97.6	57.6	125.6	57.8
Grow Pro Genetics	GP 463	C	104.3	53	58.5	37	95.1	59.0	113.5	58.0
Grow Pro Genetics	GP 709	C	90.9	71	59.5	39	77.1	61.1	104.7	57.9
Grow Pro Genetics	GP 747	C	114.9	7	56.5	39	94.7	56.4	135.1	56.7
Grow Pro Genetics	SY 100	C	104.1	55	57.3	39	89.2	56.3	119.0	58.3
Grow Pro Genetics	SY 547	C	102.6	59	59.1	40	92.6	59.3	112.6	59.0
Grow Pro Genetics	SY Viper	C	106.1	48	59.7	41	90.0	59.3	122.3	60.1
Kitchen Seed Company	KSC 418		103.4	57	59.2	39	93.0	59.1	113.9	59.3
Kitchen Seed Company	KSC 420		106.7	45	59.0	43	94.9	59.2	118.5	58.8
Kratz Farms LLC	EX KF 813	F	105.0	51	58.2	35	94.5	57.2	115.4	59.3
Kratz Farms LLC	KF 15241	F	97.8	66	59.3	40	83.7	58.9	111.9	59.6
Kratz Farms LLC	KF 15639	F	108.1	37	59.8	40	94.3	59.7	121.9	59.9
Kratz Farms LLC	KF 667	F	106.2	47	59.4	37	87.3	59.5	125.0	59.3
Kratz Farms LLC	KF 727	F	107.8	39	58.8	39	90.3	58.8	125.3	58.8
Kratz Farms LLC	KF 809	F	109.6	30	59.5	38	86.0	58.7	133.2	60.2
Kratz Farms LLC	KF 839	F	109.9	29	60.5	40	90.2	60.1	129.7	60.9
Kratz Farms LLC	KF 841	F	100.3	64	58.7	38	99.9	59.6	100.8	57.8
Kratz Farms LLC	KF 920	F	106.5	46	59.3	39	91.9	60.0	121.1	58.6
KWS Cereals	KWS394	C	114.9	8	57.8	36	96.2	57.6	133.5	58.0
KWS Cereals	KWS398	C	102.7	58	59.2	39	86.7	58.4	118.7	60.1
KWS Cereals	KWS414	C	112.6	19	56.9	37	83.4	57.0	141.7	56.8
KWS Cereals	KWS415	C	104.3	53	56.3	39	94.9	56.4	113.7	56.3
KWS Cereals	KWS419	C	107.1	44	58.6	41	96.4	58.8	117.8	58.4
Monier Seed	MW757	G	104.6	52	59.2	42	89.2	59.6	120.0	58.8
Monier Seed	MW857	G	101.8	61	59.0	42	88.2	58.9	115.5	59.1
Pioneer	25R61	C	107.4	43	58.8	39	95.0	58.9	119.7	58.7
Pioneer	25R64	C	110.3	27	56.7	38	102.8	57.3	117.7	56.1
Pioneer	25R74	C	112.4	20	58.2	38	101.8	59.0	123.1	57.4
Pioneer	25R76	C	120.5	1	59.1	39	105.1	59.5	135.9	58.6
VCIA	VA17W-75	C	95.8	69	60.1	37	85.9	60.3	105.8	59.9
Viking	801		113.9	13	59.4	39	95.9	59.4	131.9	59.3
Williamsfield Seed Co	WSC 2720	F	100.8	62	55.7	38	78.5	54.8	123.1	56.6
Williamsfield Seed Co	WSC 3252	C	96.6	67	58.3	39	70.7	57.8	122.4	58.8
Williamsfield Seed Co	WSC 3331	C	100.8	63	58.7	39	81.4	59.4	120.2	58.0
Williamsfield Seed Co	WSC 3400		102.5	60	58.5	39	80.4	57.0	124.5	59.9
Williamsfield Seed Co	WSC 3506	F	99.1	65	57.6	37	79.9	56.3	118.4	58.8
	Trial Mean		106.8		58.9	39	90.0	59.0	123.5	58.8
	LSD, 10%		12.7		1.3	2	5.7	0.9	9.9	0.8
	CV, %		12.4		2.3	5	4.7	1.1	5.9	1.0

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

²The Urbana location was not included due to poor data quality, possibly due to herbicide damage.

³On 7/5 strong winds and heavy rain caused many plots to lodge, since this happened so close to harvest I was able to pick up all the wheat and yield was not affected by lodging.

Table 3. Results of the 2022 wheat variety trial at Elkhart, in far southcentral Illinois.

Company	Variety	ST ¹	Yield bu/ac	Yield	Test wt. lb/bu	Height in.	2-yr avg	3-yr avg
				Rank 1 to 57			2021-22 bu/ac	2020-22 bu/ac
AgriMAXX	505	G	119.5	6	62.9	37	109.0	107.2
AgriMAXX	511	G	111.5	24	60.1	37		
AgriMAXX	513	G	115.0	15	62.2	37	111.0	
AgriMAXX	514	G	122.8	2	59.7	37	114.9	
AgriMAXX	516	G	101.0	39	61.2	36	97.9	
AgriMAXX	525	G	114.4	17	61.3	35		
AgriMAXX	EXP 2105	G	107.5	29	61.1	37		
AgriMAXX	EXP 2222	G	109.6	26	61.8	36		
Bio Town Seeds	D477W	G	113.2	20	60.2	37	104.6	
Bio Town Seeds	D491W	G	119.9	5	60.9	36		
Bio Town Seeds	D499W	G	105.9	34	62.0	37	101.3	100.3
Bio Town Seeds	D504W	G	102.9	37	60.8	37	106.2	105.3
Bio Town Seeds	XW2022	C	128.3	1	59.4	36		
Dyna-Gro	9002	G	108.1	28	60.6	36	103.2	96.4
Dyna-Gro	9120	G	113.0	22	62.6	35	108.4	104.0
Dyna-Gro	9151	G	112.8	23	62.5	36	108.7	106.0
Dyna-Gro	9172	G	106.0	33	60.9	36	104.9	103.2
Dyna-Gro	9352	G	81.7	56	59.1	34		
Dyna-Gro	WX 20738	G	107.4	30	60.8	36	107.6	
Dyna-Gro	WX 21741	G	116.5	12	61.5	37	119.4	
Dyna-Gro	WX 22741	G	119.4	7	60.0	37		
Dyna-Gro	WX 22793	G	115.7	14	61.5	37		
FS InSPIRE	FS 597	G	111.4	25	61.1	36		
FS InSPIRE	FS 600	C	116.9	9	62.4	36	108.0	
FS InSPIRE	FS 603	G	100.8	40	60.6	35	100.6	96.9
FS InSPIRE	FS 616	G	107.2	31	61.8	39	101.9	102.4
FS InSPIRE	FS 624	G	113.0	21	61.1	39	106.0	105.0
FS InSPIRE	FS 745	G	97.7	42	60.8	36		
FS InSPIRE	FS WX22A	G	103.5	35	60.3	37		
FS InSPIRE	FS WX22B	G	117.9	8	61.6	39		
Grow Pro Genetics	GP 348	C	90.0	52	62.8	33		
Grow Pro Genetics	GP 381	C	92.5	48	60.1	32		
Grow Pro Genetics	GP 463	C	85.2	54	58.8	34		
Grow Pro Genetics	GP 709	C	94.3	46	59.2	35		
Grow Pro Genetics	GP 747	C	113.4	19	58.6	37		
Grow Pro Genetics	SY 547	C	92.6	47	60.5	37	98.7	96.2
Hoffman Seed	H7W21	C	116.6	11	60.0	34	118.2	
Hoffman Seed	H7W30	C	92.4	49	60.7	35	97.4	99.9
Hoffman Seed	H7W31	C	81.4	57	60.3	36	85.8	
Hoffman Seed	H7W40	C	91.3	51	59.6	34	87.0	89.7
Kitchen Seed Company	KSC 418		96.4	43	60.6	36	93.8	91.4
Kitchen Seed Company	KSC 420		101.6	38	61.1	38	97.3	
KWS Cereals	KWS394	C	122.1	3	59.8	34		
KWS Cereals	KWS398	C	86.9	53	60.3	36		
KWS Cereals	KWS403	C	114.9	16	60.2	34		
KWS Cereals	KWS405	C	91.8	50	61.6	35		
KWS Cereals	KWS411	C	109.0	27	62.3	35		
Pioneer	25R61	C	113.8	18	61.5	38	105.7	102.1
Pioneer	25R64	C	116.0	13	60.2	36		
Pioneer	25R74	C	103.4	36	61.4	35	99.7	100.0
Pioneer	25R76	C	121.5	4	62.2	36		
VCIA	VA17W-75	C	81.8	55	60.2	35	81.6	
Viking	801		116.7	10	61.5	35		
Williamsfield Seed Co	WSC 3252	C	106.2	32	59.2	38		
Williamsfield Seed Co	WSC 3331	C	95.6	45	57.7	36	98.9	
Williamsfield Seed Co	WSC 3400		96.3	44	61.0	39	100.8	
Williamsfield Seed Co	WSC 3506	F	100.8	41	59.3	35	102.9	
	Trial Mean		104.0		60.7	36		
	LSD, 10%		6.6		0.5	2		
	CV, %		4.7		0.6	4		

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

Pest management is carried out by the cooperator at this site. In 2022 this included Trivapro fungicide and Warrior insecticide on April 10th, and Prosaro fungicide and Warrior insecticide on May 12th.

Table 3. Results of the 2021 wheat variety trial at Belleville, in far southwestern Illinois.

Company	Variety	ST ¹	Yield				Lodging	2-yr avg	3-yr avg
			Yield bu/ac	Rank 1 to 53	Test wt. lb/bu	Height in.		2019,21 bu/ac	2018,19-21 bu/ac
AgriMAXX	454	C	83.6	34	57.4	39	2	76.4	78.5
AgriMAXX	473	C	84.4	32	57.8	41	2	78.9	79.1
AgriMAXX	503	C	79.1	50	57.5	37	3		
AgriMAXX	505	C	85.9	25	60.2	38	2		
AgriMAXX	513	C	84.8	29	59.9	38	2		
AgriMAXX	514	C	94.8	6	58.1	40	2		
AgriMAXX	516	C	89.1	16	58.5	38	2		
AgriMAXX	EXP 2002	C	88.6	19	59.9	36	2		
AgriPro	SREXP0117	C	90.2	9	58.1	35	1		
AgriPro	SREXP9105	C	82.9	35	55.1	39	2		
AgriPro	SY 100	C	81.5	41	55.0	35	1		
AgriPro	SY 547	C	84.8	31	58.4	39	2	76.4	77.3
AgriPro	SY 576	C	79.1	49	57.6	38	2	80.2	
AgriPro	SY Viper	C	80.2	44	58.6	41	2	77.9	
Albert Lea Seed	Erisman	F	78.8	51	59.7	37	2		
Albert Lea Seed	LCS 3334		84.8	31	59.1	39	1		
Bio Town Seeds	D480W	C	80.2	46	57.5	37	2		
Bio Town Seeds	D499W	C	74.7	52	59.7	40	3		
Bio Town Seeds	D504W	C	87.6	21	58.8	37	2		
Dyna-Gro	9002	G	93.2	8	57.7	38	2	83.9	
Dyna-Gro	9120	G	90.0	12	60.4	39	2		
Dyna-Gro	9151	G	79.7	48	60.1	37	2	79.6	
Dyna-Gro	9172	G	87.6	22	58.6	39	3		
Dyna-Gro	9701	G	82.1	38	57.8	40	2	80.3	78.5
Dyna-Gro	WX20734	G	86.7	23	57.8	37	1		
Dyna-Gro	WX20738	G	88.9	18	59.1	39	2		
Dyna-Gro	WX21741	G	88.1	20	59.4	40	2		
FS Wheat	600	C	90.1	10	60.6	38	1		
FS Wheat	601	C	82.3	37	56.9	38	3	74.1	
FS Wheat	603	C	80.1	47	58.2	35	3	76.3	74.2
FS Wheat	616	C	72.8	53	59.2	38	3		
FS Wheat	623	C	85.5	27	58.1	38	1		
FS Wheat	624	C	101.4	1	58.8	40	2	89.0	86.2
FS Wheat	WX21B	C	82.0	39	58.7	37	2		
Hoffman Seed	H7W20	C	89.7	13	57.9	39	2		
Hoffman Seed	H7W30	C	100.5	2	56.8	38	1		
Hoffman Seed	H7W31	C	85.5	27	58.3	35	1		
Hoffman Seed	H7W40	C	85.2	28	58.1	36	0		
Kitchen Seed Company	KSC 418	G	89.4	14	58.4	39	1	84.1	80.8
Kitchen Seed Company	KSC 420	G	98.3	3	57.5	39	2		
KWS Cereals	KWS291	C	81.7	40	56.2	38	3		
KWS Cereals	KWS338	C	80.2	45	59.2	35	1		
KWS Cereals	KWS340	C	93.3	7	58.8	38	2		
KWS Cereals	KWS375	C	80.9	42	58.9	38	1		
Pioneer	25R61	C	95.5	5	58.0	41	2	88.9	87.4
Pioneer	25R74	C	82.6	36	57.7	37	2	82.0	81.9
VCIA	VA17W-75	C	90.0	11	60.6	39	1		
Williamsfield Seed Co	WSC 1148	G	97.1	4	59.3	37	0		
Williamsfield Seed Co	WSC 1639	G	86.6	24	60.0	37	1		
Williamsfield Seed Co	WSC 2720	C	89.3	15	54.7	35	1		
Williamsfield Seed Co	WSC 3400	C	83.9	33	57.5	40	1		
Williamsfield Seed Co	WSC 3506	C	89.1	17	56.4	37	0		
Williamsfield Seed Co	WSC 4015	G	80.8	43	59.5	40	0		
	Trial Mean		86.3		58.4	38			
	LSD, 10%		6.5		0.6	2			
	CV, %		5.6		0.7	3			

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

² Lodging score: 0= none, 9= all. Lodging was caused by freezing temperatures in spring during the tillering stage.

* Variety data dropped due to severe lodging and low yields in some early-greening varieties following low temperatures in March and early Apr

Table 5. Results of the 2022 wheat variety trial at St Peter, in south central Illinois.

<u>Company</u>	<u>Variety</u>	<u>ST</u> ¹	<u>Yield</u>			<u>Height</u>	<u>2-yr avg</u>	<u>3-yr avg</u>
			<u>Yield</u> bu/ac	<u>Rank</u> 1 to 63	<u>Test wt.</u> lb/bu		<u>2021-22</u> bu/ac	<u>2020-22</u> bu/ac
AgriMAXX	503	G	106.9	47	61.6	37	113.8	104.4
AgriMAXX	505	G	106.5	48	63.5	37	113.6	101.9
AgriMAXX	511	G	105.8	50	59.6	36		
AgriMAXX	513	G	107.0	46	62.6	37	113.9	
AgriMAXX	514	G	116.4	13	60.2	36	118.5	
AgriMAXX	516	G	113.0	22	60.8	36	120.6	
AgriMAXX	525	G	121.4	3	61.0	35		
AgriMAXX	EXP 2105	G	116.3	14	61.3	37		
AgriMAXX	EXP 2222	G	111.2	28	62.2	35		
Bio Town Seeds	D477W	G	112.1	26	59.9	37	115.6	
Bio Town Seeds	D491W	G	118.8	11	61.5	36		
Bio Town Seeds	D499W	G	104.2	52	61.7	36	109.9	101.9
Bio Town Seeds	D504W	G	110.4	35	61.0	35	117.3	108.7
Bio Town Seeds	XW2022	C	117.8	12	59.9	33		
Dyna-Gro	9002	G	111.3	27	60.7	35	117.0	108.0
Dyna-Gro	9120	G	113.2	21	61.8	36	113.5	102.5
Dyna-Gro	9151	G	119.5	7	63.7	38	117.3	109.9
Dyna-Gro	9172	G	119.3	9	60.9	36	121.5	111.3
Dyna-Gro	9352	G	112.4	25	60.4	36		
Dyna-Gro	WX 20738	G	115.4	17	61.9	35	115.7	
Dyna-Gro	WX 21741	G	120.3	4	62.0	40	116.0	
Dyna-Gro	WX 22741	G	113.4	20	60.0	36		
Dyna-Gro	WX 22793	G	125.6	1	61.3	36		
FS InSPIRE	FS 597	G	109.8	37	61.5	37		
FS InSPIRE	FS 600	C	110.2	36	63.6	37	116.3	
FS InSPIRE	FS 603	G	112.6	24	61.2	35	108.6	97.4
FS InSPIRE	FS 616	G	110.6	32	61.8	37	118.6	107.0
FS InSPIRE	FS 623	G	110.5	34	61.5	38	109.9	
FS InSPIRE	FS 624	G	120.3	5	60.6	38	122.9	109.7
FS InSPIRE	FS 745	G	111.0	30	60.7	37		
FS InSPIRE	FS WX22A	G	111.1	29	60.3	35		
FS InSPIRE	FS WX22B	G	118.8	10	62.0	38		
Grow Pro Genetics	GP 348	C	96.1	61	64.6	34		
Grow Pro Genetics	GP 381	C	100.8	57	60.9	33		
Grow Pro Genetics	GP 463	C	110.5	33	62.3	37		
Grow Pro Genetics	GP 709	C	93.7	62	61.8	36		
Grow Pro Genetics	GP 747	C	112.9	23	58.7	37		
Grow Pro Genetics	SY 100	C	113.8	18	59.9	34	116.0	
Grow Pro Genetics	SY 547	C	102.2	56	61.8	36	112.9	104.7
Grow Pro Genetics	SY Viper	C	105.4	51	62.6	39	119.6	105.6
Hoffman Seed	H7W21	C	122.6	2	59.0	34	121.7	
Hoffman Seed	H7W30	C	104.2	52	61.7	38	112.1	101.6
Hoffman Seed	H7W31	C	103.8	54	62.5	34	109.0	
Hoffman Seed	H7W40	C	91.9	63	61.5	35	103.8	96.9
Kitchen Seed Company	KSC 418		107.4	45	62.1	38	114.0	103.7
Kitchen Seed Company	KSC 420		96.8	60	61.8	39	113.3	
KWS Cereals	KWS394	C	109.5	38	59.8	34		
KWS Cereals	KWS398	C	108.3	43	60.1	34		
KWS Cereals	KWS403	C	106.2	49	60.1	35		
KWS Cereals	KWS405	C	102.5	55	62.8	36		
KWS Cereals	KWS411	C	107.5	44	63.0	34		
Pioneer	25R61	C	113.7	19	61.7	38	120.0	113.2
Pioneer	25R64	C	119.5	6	59.5	35		
Pioneer	25R74	C	108.8	41	61.4	34	114.0	106.1
Pioneer	25R76	C	110.7	31	61.2	35		
VCIA	VA17W-75	C	98.7	59	62.6	36	111.7	
Viking	801		115.5	16	61.8	38		
Williamsfield Seed Co	WSC 1537	C	99.9	58	63.1	39		
Williamsfield Seed Co	WSC 2720	F	119.5	8	59.0	35	119.9	
Williamsfield Seed Co	WSC 3252	C	108.9	40	59.8	37		
Williamsfield Seed Co	WSC 3331	C	108.4	42	59.9	39	117.3	
Williamsfield Seed Co	WSC 3400		109.4	39	61.1	36	121.7	
Williamsfield Seed Co	WSC 3506	F	115.6	15	58.9	33	119.0	
	Trial Mean		109.9		61.3	36		
	LSD, 10%		8.7		0.4	1		
	CV, %		5.9		0.5	3		

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

Table 6. Results of the 2022 wheat variety trial at Perry, in western Illinois.

Company	Variety	ST ¹	Yield			Height	2-yr avg	3-yr avg
			Yield bu/ac	Rank 1 to 71	Test wt. lb/bu		2021-22 bu/ac	2020-22 bu/ac
AgriMAXX	503	G	89.2	50	58.6	38	91.6	93.3
AgriMAXX	505	G	94.2	31	60.5	37	95.8	97.3
AgriMAXX	511	G	82.9	60	57.9	37		
AgriMAXX	513	G	99.5	6	60.5	39	99.4	
AgriMAXX	516	G	80.8	64	59.3	38	90.9	
AgriMAXX	525	G	90.7	40	58.4	36		
AgriMAXX	EXP 2105	G	95.0	22	59.0	37		
AgriMAXX	EXP 2222	G	93.6	32	60.5	38		
American Organic	Erisman AM		77.4	69	60.2	38	80.1	
Bio Town Seeds	D491W	G	96.6	15	59.1	37		
Bio Town Seeds	D504W	G	81.9	61	58.5	37	92.8	95.6
DeRaedt Seed	DeRaedt 47	C	92.9	36	60.3	37	95.3	95.7
Dyna-Gro	9120	G	90.1	44	60.0	37	92.8	90.3
Dyna-Gro	9151	G	90.5	41	60.2	38	99.2	98.6
Dyna-Gro	9172	G	80.6	65	59.7	38	88.4	93.3
Dyna-Gro	9352	G	96.2	17	58.4	36		
Dyna-Gro	WX 20738	G	97.3	11	60.1	39	101.1	
Dyna-Gro	WX 21741	G	97.0	13	59.9	40	96.6	
Dyna-Gro	WX 22741	G	97.1	12	56.1	39		
Dyna-Gro	WX 22793	G	102.5	3	58.4	37		
FS InSPIRE	FS 597	G	89.4	46	59.8	39		
FS InSPIRE	FS 600	C	98.0	8	60.3	39	96.7	
FS InSPIRE	FS 603	G	88.8	52	59.5	36	91.9	91.2
FS InSPIRE	FS 616	G	95.3	20	60.0	38	92.4	93.9
FS InSPIRE	FS 623	G	93.2	33	58.7	37	94.4	
FS InSPIRE	FS 624	G	88.9	51	59.1	37	89.2	88.7
FS InSPIRE	FS 745	G	81.0	63	59.0	37		
FS InSPIRE	FS WX22A	G	89.4	47	58.6	38		
FS InSPIRE	FS WX22B	G	97.7	9	59.7	38		
Green Valley Seed	63X	C	96.8	14	58.7	35		
Green Valley Seed	64X	C	98.9	7	59.3	37		
Green Valley Seed	GV 619	C	94.4	29	60.0	38	95.5	94.6
Green Valley Seed	GV 631	C	94.4	28	59.1	37	96.8	
Green Valley Seed	GV 652	C	93.0	34	60.4	35		
Grow Pro Genetics	GP 348	C	92.1	38	61.0	35		
Grow Pro Genetics	GP 381	C	97.6	10	57.6	35		
Grow Pro Genetics	GP 463	C	95.1	21	59.0	36		
Grow Pro Genetics	GP 709	C	77.1	70	61.1	38		
Grow Pro Genetics	GP 747	C	94.7	26	56.4	39		
Grow Pro Genetics	SY 100	C	89.2	49	56.3	37	93.4	
Grow Pro Genetics	SY 547	C	92.6	37	59.3	38	90.8	87.9
Grow Pro Genetics	SY Viper	C	90.0	45	59.3	39	89.6	91.1
Kitchen Seed Company	KSC 418		93.0	35	59.1	37	91.1	89.5
Kitchen Seed Company	KSC 420		94.9	24	59.2	42	93.1	
Kratz Farms LLC	EX KF 813	F	94.5	27	57.2	34		
Kratz Farms LLC	KF 15241	F	83.7	58	58.9	38	94.7	91.1
Kratz Farms LLC	KF 15639	F	94.3	30	59.7	41	94.3	95.4
Kratz Farms LLC	KF 667	F	87.3	54	59.5	35	91.5	90.9
Kratz Farms LLC	KF 727	F	90.3	42	58.8	37	85.9	83.5
Kratz Farms LLC	KF 809	F	86.0	56	58.7	36	91.3	88.2
Kratz Farms LLC	KF 839	F	90.2	43	60.1	38		
Kratz Farms LLC	KF 841	F	99.9	5	59.6	37		
Kratz Farms LLC	KF 920	F	91.9	39	60.0	38	90.6	
KWS Cereals	KWS394	C	96.2	17	57.6	34		
KWS Cereals	KWS398	C	86.7	55	58.4	37		
KWS Cereals	KWS414	C	83.4	59	57.0	37		
KWS Cereals	KWS415	C	94.9	24	56.4	38		
KWS Cereals	KWS419	C	96.4	16	58.8	39		
Monier Seed	MW757	G	89.2	48	59.6	40	90.0	
Monier Seed	MW857	G	88.2	53	58.9	40	89.2	89.3
Pioneer	25R61	C	95.0	23	58.9	38	96.7	96.3
Pioneer	25R64	C	102.8	2	57.3	38		
Pioneer	25R74	C	101.8	4	59.0	37	99.9	98.5
Pioneer	25R76	C	105.1	1	59.5	40		
VCIA	VA17W-75	C	85.9	57	60.3	35	87.8	
Viking	801		95.9	19	59.4	38		
Williamsfield Seed Co	WSC 2720	F	78.5	68	54.8	36	80.7	
Williamsfield Seed Co	WSC 3252	C	70.7	71	57.8	38		
Williamsfield Seed Co	WSC 3331	C	81.4	62	59.4	37		
Williamsfield Seed Co	WSC 3400		80.4	66	57.0	38	80.8	
Williamsfield Seed Co	WSC 3506	F	79.9	67	56.3	35	81.2	
	Trial Mean		90.0		59.0	37		
	LSD, 10%		5.7		0.9	2		
	CV, %		4.7		1.1	4		

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

Table 7. Results of the 2021 wheat variety trial at Urbana, in east central Illinois.

Company	Variety	ST ¹	Yield				2-yr avg	3-yr avg
			Yield bu/ac	Rank 1 to 60	Test wt. lb/bu	Height in.	2020,21 bu/ac	2018,20-21 bu/ac
AgriMAXX	485	C	94.6	42	54.2	37	92.5	94.2
AgriMAXX	498	C	93.7	44	52.6	39	92.2	
AgriMAXX	503	C	99.8	23	55.2	40	97.8	
AgriMAXX	505	C	95.5	38	54.9	39	98.4	
AgriMAXX	513	C	98.7	26	52.5	39		
AgriMAXX	516	C	106.2	10	53.4	39		
AgriMAXX	EXP 2009	C	102.8	15	53.5	40		
AgriMAXX	EXP 2026	C	93.7	45	55.9	43		
AgriPro	SREXP0117	C	110.6	5	53.7	37		
AgriPro	SREXP9105	C	99.0	25	47.9	40		
AgriPro	SY 100	C	104.0	13	51.0	40		
AgriPro	SY 547	C	100.8	20	53.9	44	101.0	101.6
AgriPro	SY 576	C	97.4	31	53.4	40	97.5	
AgriPro	SY Viper	C	95.8	36	54.6	44	95.0	
Albert Lea Seed	Erisman	F	92.2	50	56.6	41	92.6	
Albert Lea Seed	LCS 3334		98.3	29	55.8	45	96.9	
American Organic	Erisman		94.9	41	56.7	41		
Bio Town Seeds	D480W	C	106.5	8	55.0	42		
Bio Town Seeds	D499W	C	106.3	9	53.6	40	104.2	
Bio Town Seeds	D504W	C	100.7	21	53.4	39	95.3	
DeRaedt Seed	DeRaedt 47	C	91.8	51	54.1	42	95.7	
Dyna-Gro	9002	G	93.0	46	51.9	40	91.5	
Dyna-Gro	9120	G	112.8	2	55.3	41	104.0	
Dyna-Gro	9151	G	107.2	6	54.9	40	95.8	
Dyna-Gro	9172	G	101.2	17	53.2	40	99.6	
Dyna-Gro	WX20734	G	95.3	39	53.0	38		
Dyna-Gro	WX20738	G	110.9	4	53.7	41		
Dyna-Gro	WX21741	G	99.2	24	53.3	37		
FS Wheat	600	C	100.9	19	54.5	40		
FS Wheat	601	C	102.9	14	51.6	38	102.3	
FS Wheat	603	C	89.2	54	53.2	38	84.7	88.0
FS Wheat	616	C	101.9	16	53.7	41	100.9	
FS Wheat	623	C	98.6	27	55.0	41		
FS Wheat	624	C	87.9	56	53.2	41	87.8	91.8
FS Wheat	WX21B	C	106.2	11	53.6	39		
Green Valley Seed	61X	C	105.0	12	51.3	37		
Green Valley Seed	62X	C	92.6	48	53.9	37		
Green Valley Seed	GV619	C	89.6	53	54.0	39	93.9	
Green Valley Seed	GV668	C	97.4	30	53.4	42	97.9	99.3
Green Valley Seed	GV631	C	95.3	40	54.2	39		
Kitchen Seed Company	KSC 418	G	92.2	49	54.3	43	93.0	92.7
Kitchen Seed Company	KSC 420	G	98.4	28	53.6	38		
Kratz Farms LLC	KF 15241	C	93.8	43	54.9	40	86.7	
Kratz Farms LLC	KF 15639	C	97.1	34	53.0	42	93.3	94.2
Kratz Farms LLC	KF 667	C	97.1	34	54.4	40	92.8	
Kratz Farms LLC	KF 727	C	97.4	32	53.9	40	96.0	95.8
Kratz Farms LLC	KF 809	C	113.2	1	53.2	39	103.9	
Kratz Farms LLC	KF 920	C	111.1	3	54.4	40		
KWS Cereals	KWS291	C	82.3	57	52.6	38	92.6	
KWS Cereals	KWS340	C	97.2	33	55.8	38		
KWS Cereals	KWS361	C	91.4	52	54.9	42		
KWS Cereals	KWS375	C	80.9	59	52.3	37		
Monier Seed	MW757	G	92.6	47	53.9	43		
Monier Seed	MW857	G	95.5	37	53.8	41	88.2	
Pioneer	25R61	C	100.6	22	53.9	39	103.9	106.3
Pioneer	25R74	C	101.1	18	52.3	38	98.0	102.5
VCIA	VA17W-75	C	107.0	7	56.2	39		
Williamsfield Seed Co	WSC 2720	C	88.6	55	48.6	39		
Williamsfield Seed Co	WSC 3400	C	82.1	58	53.2	41		
Williamsfield Seed Co	WSC 3506	C	59.7	60	46.7	39		
	Trial Mean		97.2		53.7	40		
	LSD, 10%		7.1		0.8	3		
	CV, %		5.4		1.1	5		

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

Table 8. Results of the 2022 wheat variety trial at Hampshire, in north central Illinois.

Company	Variety	ST ¹	Yield			Height in.	2-yr avg	3-yr avg
			Yield bu/ac	Rank 1 to 71	Test wt. lb/bu		2021-22 bu/ac	2020-22 bu/ac
AgriMAXX	503	G	121.5	46	58.3	39	123.4	115.4
AgriMAXX	505	G	131.8	21	60.4	40	129.6	121.3
AgriMAXX	511	G	108.6	68	58.3	38		
AgriMAXX	513	G	117.9	56	58.3	39	115.5	
AgriMAXX	516	G	131.3	23	58.1	39	129.3	
AgriMAXX	525	G	137.4	4	59.0	39		
AgriMAXX	EXP 2105	G	133.8	12	58.2	39		
AgriMAXX	EXP 2222	G	126.4	31	60.0	38		
American Organic	Erisman AM		114.5	61	59.8	40	113.9	
Bio Town Seeds	D491W	G	133.7	13	57.2	38		
Bio Town Seeds	D504W	G	139.8	3	58.3	40	114.8	108.5
DeRaedt Seed	DeRaedt 47	C	134.3	11	60.3	38	130.5	123.2
Dyna-Gro	9120	G	142.6	1	59.8	40	133.6	127.9
Dyna-Gro	9151	G	125.6	33	59.7	40	122.3	118.4
Dyna-Gro	9172	G	134.7	10	58.8	39	126.4	118.8
Dyna-Gro	9352	G	118.6	53	58.9	37		
Dyna-Gro	WX 20738	G	132.1	19	59.5	41	124.2	
Dyna-Gro	WX 21741	G	133.2	17	59.3	39	129.2	
Dyna-Gro	WX 22741	G	123.5	39	56.2	42		
Dyna-Gro	WX 22793	G	124.2	38	58.7	41		
FS InSPIRE	FS 597	G	132.8	18	59.1	42		
FS InSPIRE	FS 600	C	134.9	9	60.1	38	130.1	
FS InSPIRE	FS 603	G	129.8	25	58.4	39	124.9	120.0
FS InSPIRE	FS 616	G	112.1	66	58.3	40	115.7	112.3
FS InSPIRE	FS 623	G	124.6	36	58.7	39	125.3	
FS InSPIRE	FS 624	G	129.1	27	60.0	41	121.6	117.8
FS InSPIRE	FS 745	G	135.4	6	58.7	38		
FS InSPIRE	FS WX22A	G	127.0	30	59.3	39		
FS InSPIRE	FS WX22B	G	130.2	24	58.9	39		
Green Valley Seed	63X	C	127.0	29	57.3	37		
Green Valley Seed	64X	C	135.0	8	57.5	39		
Green Valley Seed	GV 619	C	128.3	28	60.0	40	122.9	117.3
Green Valley Seed	GV 631	C	131.3	22	58.7	40	118.1	
Green Valley Seed	GV 652	C	133.2	16	59.8	39		
Grow Pro Genetics	GP 348	C	123.5	40	60.8	37		
Grow Pro Genetics	GP 381	C	125.6	32	57.8	38		
Grow Pro Genetics	GP 463	C	113.5	64	58.0	38		
Grow Pro Genetics	GP 709	C	104.7	70	57.9	40		
Grow Pro Genetics	GP 747	C	135.1	7	56.7	38		
Grow Pro Genetics	SY 100	C	119.0	51	58.3	40	117.3	
Grow Pro Genetics	SY 547	C	112.6	65	59.0	42	115.4	113.8
Grow Pro Genetics	SY Viper	C	122.3	44	60.1	42	113.6	113.7
Kitchen Seed Company	KSC 418		113.9	62	59.3	40	119.5	116.3
Kitchen Seed Company	KSC 420		118.5	54	58.8	43	116.7	
Kratz Farms LLC	EX KF 813	F	115.4	60	59.3	36		
Kratz Farms LLC	KF 15241	F	111.9	67	59.6	41	108.3	100.6
Kratz Farms LLC	KF 15639	F	121.9	45	59.9	39	120.7	118.2
Kratz Farms LLC	KF 667	F	125.0	35	59.3	38	125.4	113.3
Kratz Farms LLC	KF 727	F	125.3	34	58.8	41	127.4	116.6
Kratz Farms LLC	KF 809	F	133.2	15	60.2	39	129.5	119.4
Kratz Farms LLC	KF 839	F	129.7	26	60.9	41		
Kratz Farms LLC	KF 841	F	100.8	71	57.8	39		
Kratz Farms LLC	KF 920	F	121.1	47	58.6	39	113.3	
KWS Cereals	KWS394	C	133.5	14	58.0	37		
KWS Cereals	KWS398	C	118.7	52	60.1	41		
KWS Cereals	KWS414	C	141.7	2	56.8	36		
KWS Cereals	KWS415	C	113.7	63	56.3	40		
KWS Cereals	KWS419	C	117.8	57	58.4	42		
Monier Seed	MW757	G	120.0	49	58.8	43	120.8	
Monier Seed	MW857	G	115.5	59	59.1	43	117.3	112.4
Pioneer	25R61	C	119.7	50	58.7	39	124.0	117.5
Pioneer	25R64	C	117.7	58	56.1	37		
Pioneer	25R74	C	123.1	41	57.4	38	117.0	112.2
Pioneer	25R76	C	135.9	5	58.6	38		
VCIA	VA17W-75	C	105.8	69	59.9	39	107.1	
Viking	801		131.9	20	59.3	40		
Williamsfield Seed Co	WSC 2720	F	123.1	42	56.6	39	126.9	
Williamsfield Seed Co	WSC 3252	C	122.4	43	58.8	40		
Williamsfield Seed Co	WSC 3331	C	120.2	48	58.0	41		
Williamsfield Seed Co	WSC 3400		124.5	37	59.9	39	113.4	
Williamsfield Seed Co	WSC 3506	F	118.4	55	58.8	38	123.0	
	Trial Mean		123.5		58.8	39		
	LSD, 10%		9.9		0.8	2		
	CV, %		5.9		1.0	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	503	V	ME	S	E	MT	G	S	MR	MR
	505	V	ME	B	VG	M	E	S	I	I
	511	V	E	B	E	M	E	S	MR	MR
	513	V	ME	B	E	M	VG	R	MR	MR
	514	V	M	B	VG	M	VG	S	R	MR
	516	V	ML	B	E	M	VG	S	MR	MR
	525	V	M	A	E	MT	G	S	MR	MR
	EXP 2110	V	M	A	E	M	VG	S	I	I
	EXP 2222	V	M	A	G	M	VG	S	MR	MR
Viking	801	V	M	T	G	M	VG		MR	
American Organic	Erisman	V	E	B	E	T	VG		MR	MR
Bio Town Seeds	D477W	V	E	T	F	M	F		MS	MR
	D491W	V	ME	T	E	M	E		MS	MR
	D499W	V	ME	T	VG	MT	VG		I	MR
	D504W	V	ML	T	VG	M	VG		I	MT
	XW2022	V	ML	T	VG	M	VG		I	MT
DeRaedt Seed	47	V	ME	B	E	MT	E	S	I	MR
Dyna-Gro Seed	9002	V	M	A	E	M	G	R	I	
	9120	V	E	A	E	M	G	S	I	
	9151	V	ME	A	E	M	G	S	I	
	9172	V	M	A	E	M	G	S	I	
FS Wheat	FS 597	V	E	B	G	MT	VG	S	MS	MS
	FS 600	V	ME	B	VG	M	E	S	I	MS
	FS 603	V	ME	B	VG	MS	E	MR	MS	MS
	FS 616	V	M	B	VG	M	VG	S	MS	MS
	FS 623	V	M	S	VG	MT	G	S	I	I
	FS 624	V	M	S	VG	M	E	MR	MS	I
	FS 745	V	M	B	VG	M	VG	MS	I	I
	FS WX22A	V	M	B	G	M	VG	S	I	I
	FS WX22B	V	ME	B	E	MT	G	MS	I	MS
Green Valley	63X	V	ME	B	VG	M	VG	I	I	I
	64X	V	M	B	VG	M	VG	I	I	I
	GV 619	V	ME	B	E	M	VG	I	I	I
	GV 631	V	M	B	VG	M	E	I	I	I
	GV 652	V	ML	B	E	MT	VG	I	I	I
Gro Pro Genetics	GP 348	V								
	GP 381	V	ME	S	G	S	VG	MR	I	I
	GP 463	V	ME	S	G	S	VG		S	S
	GP 709	V	E	B	G	S	VG		S	S
	GP 747	V	ML	B	G	T	VG		S	S
	SY 100	V	ML	S	EX	S	G	S	S	S
	SY 547	V	ME	S	VG	T	G	S	I	I
	SY Viper	V	ME	S	G	T	G	S	S	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
	H7W30	V	M	S	E	MT	G	I	I	MS
	H7W31	V	E	S	E	M	E	I	MR	I
	H7W40	V	E	S	E	M	VG	I	I	MR
Kitchen Seed	KSC 418 W	V	M	S	VG	M	VG	R	R	R
	KSC 420 W	V	M	S	VG	M	VG	R	R	R
Kratz Farms	KF 667	V	ME	T	VG	M	E	I	R	R
	KF 727	V	M	S	VG	T	VG	I	MR	MR
	KF 809	V	ME	T	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 920	V	M	S	VG	M	VG	I	S	MR
	KF 15241	V	M	S	VG	M	VG	I	MS	I
	KF 15639	V	ML	B	VG	T	VG	I	R	R
	EX KF 813	V	M	S	VG	M	VG	I	R	R
Monier Seed & Service	MW757	V	ME	T	VG	M	VG	NA	I	R
	MW857	V	ML	B	VG	M	VG	NA	MR	I
Pioneer - Corteva	25R61	V	M	B	G	M	G	S	R	
	25R64	V	M	B	G	M	VG	S	MS	
	25R74	V	E	B	G	S	G	R	I	
	25R76	V	ME	B	G	M	G	R	MS	
VCIA	VA17W-75	V	M	TA		M	E	R	R	R
Williamsfield Seed Co	WSC 1148	V	ME	S	vg	M	VG	I	I	R
	WSC 2010	V	E	S	VG	S	VG	I	MS	I
	WSC 2720	V	E	T	VG	S	E	S	S	R
	WSC 3252	V	M	S	E	M	E	I	MS	I
	WSC 3400	V	ML	T	E	M	E	S	S	R
	WSC 3506	V	M	T	VG	S	E	S	S	R

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, 2022

Company	Variety	ST ¹	Regional Yield		Fusarium Head Blight ²		SBMV ³	
			North bu/ac	South bu/ac	Score 0 to 9	SE	Score 0-9	Category R/S
AgriMAXX	503	G	105.3	.*	1.9	0.6	6	S
AgriMAXX	505	G	113.0	113.0	3.5	0.6	4	R
AgriMAXX	511	G	95.8	108.7	1.1	1.3	2	R
AgriMAXX	513	G	108.7	111.0	2.8	0.8	4	R
AgriMAXX	514	G	##	119.6	3.4	0.8	4	R
AgriMAXX	516	G	106.1	107.0	3.1	0.8	3	R
AgriMAXX	525	G	114.1	117.9	5.0	1.3	5	R
AgriMAXX	EXP 2105	G	114.4	111.9	3.1	1.3	3	R
AgriMAXX	EXP 2222	G	110.0	110.4	4.0	1.3	3	R
American Organic	Erisman AM		96.0	##	2.3	0.8	5	R
Bio Town Seeds	D477W	G	##	112.6	1.5	1.3	3	R
Bio Town Seeds	D491W	G	115.2	119.4	3.7	1.3	4	R
Bio Town Seeds	D499W	G	##	105.1	3.4	0.8	3	R
Bio Town Seeds	D504W	G	110.8	106.7	3.0	1.3	3	R
Bio Town Seeds	XW2022	G	##	123.0	4.7	1.3	4	R
DeRaedt Seed	DeRaedt 47	C	113.6	##	4.2	0.8	5	R
Dyna-Gro	9002	G	##	109.7	3.6	0.8	5	R
Dyna-Gro	9120	G	116.4	113.1	2.8	0.8	2	R
Dyna-Gro	9151	G	108.0	116.1	4.8	0.8	4	R
Dyna-Gro	9172	G	107.7	112.7	2.5	0.8	5	R
Dyna-Gro	9352	G	107.4	97.1	3.4	1.3	3	R
Dyna-Gro	WX 20738	G	114.7	111.4	4.0	0.8	3	R
Dyna-Gro	WX 21741	G	115.1	118.4	3.6	0.8	4	R
Dyna-Gro	WX 22741	G	110.3	116.4	3.6	1.3	4	R
Dyna-Gro	WX 22793	G	113.3	120.6	3.9	1.3	4	R
FS InSPIRE	FS 597	G	111.1	110.6	2.9	1.3	4	R
FS InSPIRE	FS 600	C	116.5	113.6	4.1	1.3	4	R
FS InSPIRE	FS 603	G	109.3	106.7	3.2	0.6	4	R
FS InSPIRE	FS 616	G	103.7	108.9	3.5	0.6	2	R
FS InSPIRE	FS 623	G	108.9	.*	3.6	1.3	6	S
FS InSPIRE	FS 624	G	109.0	116.7	5.4	0.6	4	R
FS InSPIRE	FS 745	G	108.2	104.3	2.1	1.3	3	R
FS InSPIRE	FS WX22A	G	108.2	107.3	3.0	1.3	5	R
FS InSPIRE	FS WX22B	G	114.0	118.3	3.6	1.3	4	R
Green Valley Seed	63X	C	111.9	##	4.9	1.3	4	R
Green Valley Seed	64X	C	117.0	##	3.4	1.3	5	R
Green Valley Seed	GV 619	C	111.3	##	3.0	0.6	4	R
Green Valley Seed	GV 631	C	112.9	##	3.3	1.3	3	R
Green Valley Seed	GV 652	C	113.1	##	4.6	1.3	2	R
Grow Pro Genetics	GP 348	C	107.8	93.0	4.1	1.3	5	R
Grow Pro Genetics	GP 381	C	111.6	96.6	5.3	1.3	6	S
Grow Pro Genetics	GP 463	C	104.3	97.8	0.1	1.3	6	S
Grow Pro Genetics	GP 709	C	90.9	94.0	2.2	1.3	6	S
Grow Pro Genetics	GP 747	C	114.9	113.2	6.8	1.3	4	R
Grow Pro Genetics	SY 100	C	104.1	.*	4.7	0.6	6	S
Grow Pro Genetics	SY 547	C	102.6	97.4	4.9	0.6	6	S
Grow Pro Genetics	SY Viper	C	106.1	.*	5.2	0.6	6	S
Hoffman Seed	H7W21	C	##	119.6	5.5	0.8	5	R
Hoffman Seed	H7W30	C	##	98.3	4.4	0.6	8	S
Hoffman Seed	H7W31	C	##	92.6	3.6	0.8	5	R
Hoffman Seed	H7W40	C	##	91.6	1.4	0.8	4	R
Kitchen Seed Company	KSC 418	C	103.4	101.9	4.0	0.6	7	S
Kitchen Seed Company	KSC 420	C	106.7	99.2	3.8	0.8	6	S
Kratz Farms LLC	EX KF 813	F	105.0	##	3.6	1.3	6	S
Kratz Farms LLC	KF 15241	F	97.8	##	1.7	0.6	6	S
Kratz Farms LLC	KF 15639	F	108.1	##	4.5	0.6	7	S
Kratz Farms LLC	KF 667	F	106.2	##	4.3	0.6	6	S
Kratz Farms LLC	KF 727	F	107.8	##	5.3	0.6	6	S
Kratz Farms LLC	KF 809	F	109.6	##	5.4	0.8	5	R
Kratz Farms LLC	KF 839	F	109.9	##	4.9	1.3	6	S
Kratz Farms LLC	KF 841	F	100.3	##	1.6	1.3	7	S
Kratz Farms LLC	KF 920	F	106.5	##	3.1	0.8	6	S
KWS Cereals	KWS394	C	114.9	115.8	3.2	1.3	7	S
KWS Cereals	KWS398	C	102.7	97.6	2.1	1.3	5	R
KWS Cereals	KWS403	C	##	110.5	3.3	1.3	7	S
KWS Cereals	KWS405	C	##	97.1	4.2	1.3	6	S
KWS Cereals	KWS411	C	##	108.3	3.2	1.3	5	R
KWS Cereals	KWS414	C	112.6	##	5.2	1.3	4	R
KWS Cereals	KWS415	C	104.3	##	3.4	1.3	4	R
KWS Cereals	KWS419	C	107.1	##	2.6	1.3	4	R
Monier Seed	MW757	G	104.6	##	4.4	0.8	5	R
Monier Seed	MW857	G	101.8	##	5.2	0.6	6	S
Pioneer	25R61	C	107.4	113.7	2.2	0.6	3	R
Pioneer	25R64	C	110.3	117.8	3.7	1.3	5	R
Pioneer	25R74	C	112.4	106.1	4.2	0.6	4	R
Pioneer	25R76	C	120.5	116.1	2.6	1.3	2	R
VCIA	VA17W-75	C	95.8	90.3	3.3	0.9		
Viking	801		113.9	116.1	4.1	1.3	4	R
Williamsfield Seed Co	WSC 1537	F	##	.*	2.5	1.3	7	S
Williamsfield Seed Co	WSC 2720	F	100.8	.*	6.1	0.8	7	S
Williamsfield Seed Co	WSC 3252	C	96.6	107.6	4.0	1.3	5	R
Williamsfield Seed Co	WSC 3331	C	100.8	102.0	5.1	1.3	7	S
Williamsfield Seed Co	WSC 3400	F	102.5	102.9	4.1	0.8	5	R
Williamsfield Seed Co	WSC 3506	F	99.1	108.2	9.0	0.8	4	R
	IL02-18228 (FHB check)				0.6	0.6		
	Pio25R47 (FHB check)				8.1	0.6		
	Trial Mean		106.8	107.0				
	LSD, 10%		12.7	11.5				
	CV, %		12.4	11.1				

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

.*- plots lost to deer feeding.

##- Varieties not entered in the region.

²Varieties 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.

³Varieties 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 expected 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 are considered at least moderately resistant to FHB.