

# **WHEAT PERFORMANCE IN ILLINOIS TRIALS – 2020**



**Crop Sciences Special Report 2020-01  
Department of Crop Sciences  
University of Illinois  
July 2020**

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The 2019-20 wheat growing season in Illinois mostly favorable until freezing temperatures occurred in early May. The amount of freeze damage varied widely across the state and even within counties. Some fields were heavily affected while others were not. The growth stage at the time of the freeze largely determined how much damage occurred. Wheat spikes that experienced the freeze around heading and anthesis tended to be more heavily affected; however, the freeze could have affected plants even outside of these growth stages. This year, the early heading varieties were more likely to experience severe frost damage compared to varieties that headed later. We experienced severe frost damage at our Belleville trial location which caused high levels of experimental error at this location. The Belleville location was therefore excluded from our analyses this year.

After early May, the season was largely uneventful. The risk of Scab infection was predicted to be low for most parts of the state, except for the southernmost region near the border of Kentucky. In spite of these predictions, plenty of Scab infection could be observed on research plots in Urbana. Scab symptoms could even be observed research plots that were sprayed with fungicide at anthesis. However, as expected, Scab resistant/moderately resistant varieties experienced lower levels disease compared with Scab susceptible varieties. We continue to recommend varieties that are at least moderately resistant to Scab to reduce the risk of producing grain with unacceptable levels of Vomitoxin. Although no variety is immune to Scab, there are now excellent Scab resistant varieties to choose from. Slow but steady improvements in Scab resistance, in combination with high yield, continue to be made.

After anthesis, a period of hot, dry weather accelerated the wheat crop. As a result, some fields were harvested slightly earlier than usual. In some parts of the state, rain and severe weather occurred right around harvest which could have had a negative impact on test weights.

In all our wheat variety trial, 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		Harvest
			date	fertilizer	
Elkville	Trent Funk	Hurst silt loam	Oct. 8	30 Fall 110 Spring	June 19
Belleville	Dane Hunter	Ebbert silt loam	Oct. 8	30 Fall 85 Spring	June 26
St Peter	Russ Schwarm	Hoyleton silt loam	Oct. 18	0 Fall 120 Spring	June 26
Perry/Orr Center	Luke Merritt	Clarksdale silt loam	Oct. 14	30 Fall 80 Spring	June 29
Urbana	Nick Eisenmenger	Flanagan silt loam	Sept. 27	30 Fall 40 Spring	July 6
Hampshire	Dezeri DeRaedt	Elburn silt loam	Sept. 24	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 2020.

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

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

AgriPro  
200 E 4<sup>th</sup> St  
Hoffman, IL 62250  
(618) 495-2617

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

Limagrain Cereal Seeds  
2040 SE Frontage Rd  
Ft. Collins, CO 80525  
(970) 498-2200

Albert Lea Seed  
1414 West Main Street  
Albert Lea, MN 56007  
(800) 352-5247

GO Wheat  
1530 HWY 79 South  
Stuttgart, AR 72160  
(800) 264-4433

Monier Seed & Service  
846 Yankee Lane  
Sparland, IL 61565  
(309) 238-1227

BioTown Seeds  
Box 299  
Reynolds, IN 47980  
(219) 984-6038

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

Pioneer - Corteva  
7100 NW 62<sup>nd</sup> 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

Pro Harvest Seeds  
2737 N 700 E Road  
Ashkum, IL 60911  
(866) 807-7015

Dyna-Gro Seed  
200 W 2<sup>nd</sup> St.  
Flora, IL 44818  
(618) 838-5024

Kratz Farms LLC  
4380 Sherman Road  
Slinger, WI 53086  
(262) 644-9426

UniSouth Genetics, Inc.  
3205C HWY 46 S  
Dickson, TN 37055  
(615) 515-3133

Table 1. Southern Illinois regional wheat variety trial results, 2020

<u><b>Company</b></u>	<u><b>Variety</b></u>	<u><b>ST<sup>1</sup></b></u>	<u><b>Regional Average<sup>2</sup></b></u>				<u><b>Elkville</b></u>		<u><b>St Peter</b></u>	
			<u><b>Yield</b></u> bu/ac	<u><b>Yield Rank</b></u> 1 to 62	<u><b>Test wt.</b></u> lb/bu	<u><b>Height</b></u> in.	<u><b>Yield</b></u> bu/ac	<u><b>Test wt.</b></u> lb/bu	<u><b>Yield</b></u> bu/ac	<u><b>Test wt.</b></u> lb/bu
AgriMAXX	454	C	90.0	29	60.1	35	92.0	62.5	88.0	57.7
AgriMAXX	463	C	92.4	21	58.7	32	100.4	59.7	84.4	57.7
AgriMAXX	473	C	93.3	15	60.9	37	98.5	63.0	88.1	58.8
AgriMAXX	475	C	83.1	48	59.9	33	79.1	61.9	87.1	57.8
AgriMAXX	492	C	79.5	55	61.3	35	86.2	64.3	72.8	58.4
AgriMAXX	495	C	89.9	30	61.4	37	91.4	63.5	88.3	59.3
AgriMAXX	496	C	90.7	27	59.9	33	93.9	62.3	87.5	57.5
AgriMAXX	503	C	87.3	39	59.6	35	88.8	58.6	85.7	60.5
AgriMAXX	505	C	91.2	24	62.5	36	103.7	64.9	78.6	60.1
AgriMAXX	EXP 2003	C	103.4	1	59.2	34	105.9	60.6	100.9	57.8
AgriPro	SY 007	C	77.5	60	58.5	36	85.5	61.3	69.5	55.8
AgriPro	SY 547	C	89.7	31	59.1	35	91.0	60.8	88.3	57.4
AgriPro	SY 576	C	91.6	23	60.1	37	89.5	61.8	93.7	58.3
AgriPro	SY Viper	C	86.9	40	59.5	38	96.0	61.8	77.8	57.1
Albert Lea Seed	Erisman		80.4	53	61.8	37	75.3	64.0	85.5	59.6
Albert Lea Seed	LCS 3334		96.9	7	60.5	37	100.9	61.5	93.0	59.5
Albert Lea Seed	Viking Volla SRW		80.3	54	58.4	34	84.3	62.0	76.2	54.8
Bio Town Seeds	Diener 497W	G	89.3	32	60.0	34	90.7	61.7	87.8	58.3
Bio Town Seeds	XW 1903	C	92.2	22	61.1	36	98.5	63.5	85.9	58.7
Bio Town Seeds	XW 2011	C	98.2	3	60.0	36	96.2	61.2	100.1	58.8
Bio Town Seeds	XW 2012	C	84.8	45	60.9	34	85.5	61.8	84.1	60.0
Bio Town Seeds	XW 2013	C	97.6	5	59.9	35	103.6	61.4	91.6	58.5
Dyna-Gro	9002	G	86.4	41	59.4	37	82.8	61.6	90.1	57.3
Dyna-Gro	9070	G	86.3	42	59.7	36	88.7	61.9	83.8	57.5
Dyna-Gro	9522	G	94.5	11	59.2	36	96.4	61.9	92.6	56.5
Dyna-Gro	9701	G	94.7	10	60.0	38	93.6	60.9	95.7	59.0
Dyna-Gro	9932	G	90.9	26	60.9	36	98.3	62.6	83.5	59.1
Dyna-Gro	9941	G	90.1	28	59.8	34	93.9	61.4	86.3	58.2
Dyna-Gro	WX19713	G	97.9	4	61.8	36	100.7	63.1	95.1	60.5
Dyna-Gro	WX20731	G	95.4	9	60.5	35	100.0	62.1	90.8	58.8
Dyna-Gro	WX20737	G	87.9	36	60.3	33	95.1	62.1	80.6	58.4
FS Wheat	FS 616	C	93.6	14	60.6	36	103.3	62.5	83.8	58.8
FS Wheat	FS 599	C	73.4	61	60.8	33	72.2	62.5	74.5	59.1
FS Wheat	FS 603	C	82.3	49	59.7	33	89.6	61.5	75.0	57.8
FS Wheat	FS 604	C	87.5	38	59.7	34	91.4	61.7	83.6	57.7
FS Wheat	FS 624	C	93.2	16	60.0	38	103.1	62.3	83.4	57.8
FS Wheat	WX20A	C	83.3	47	60.9	35	91.8	62.0	74.9	59.8
FS Wheat	WX20B	C	101.8	2	62.1	36	108.5	63.5	95.1	60.7
Go Wheat	2058	C	84.7	46	58.8	30	91.0	60.4	78.5	57.3
Go Wheat	4059S	C	91.0	25	60.1	34	97.7	61.1	84.2	59.1
Go Wheat	5056	C	78.1	59	59.5	34	83.3	61.8	72.9	57.2
Hoffman Seed	H7W16	C	73.1	62	60.7	33	74.4	62.2	71.9	59.2
Hoffman Seed	H7W19	C	80.8	52	59.0	36	86.9	62.9	74.7	55.1
Hoffman Seed	H7W20	C	93.1	17	61.2	35	95.4	63.0	90.9	59.3
Hoffman Seed	H7W30	C	92.7	18	59.6	37	104.9	62.1	80.4	57.1
Hoffman Seed	H7W40	C	89.1	33	59.6	33	95.0	61.0	83.1	58.2
Kitchen Seed Company	KSC 416	G	88.5	35	59.9	35	104.2	63.3	72.9	56.6
Kitchen Seed Company	KSC 417	G	87.6	37	58.7	37	93.1	61.6	82.0	55.7
Kitchen Seed Company	KSC 418	G	85.0	44	60.2	38	86.8	63.0	83.2	57.4
KWS Cereals	KWS246	C	79.5	56	58.1	34	86.7	62.4	72.2	53.7
KWS Cereals	KWS333	C	81.3	50	60.5	34	84.5	62.7	78.1	58.3
Limagrain	L11809	C	92.5	20	59.5	34	105.8	61.8	79.2	57.2
Limagrain	L11815	C	93.6	13	58.9	35	109.6	60.7	77.6	57.1
Pioneer - Corteva	25R50	C	80.9	51	59.0	33	92.5	60.6	69.2	57.4
Pioneer - Corteva	25R61	C	97.2	6	61.3	37	94.7	63.6	99.6	59.0
Pioneer - Corteva	25R74	C	95.5	8	60.3	33	100.6	62.0	90.3	58.5
Pioneer - Corteva	25R77	C	86.0	43	60.3	33	96.4	62.8	75.6	57.7
Pro Harvest Seeds	7B675	C	88.6	34	58.6	37	92.0	61.6	85.2	55.6
USG	3230	G	78.8	58	58.4	35	93.4	62.6	64.1	54.1
USG	3316	G	92.7	19	60.5	36	95.6	63.3	89.7	57.7
USG	3329	G	93.7	12	60.7	36	99.2	62.9	88.3	58.5
USG	3539	G	78.8	57	60.8	34	75.8	63.4	81.9	58.2
Trial Mean			87.9		60.1	35	92.6	62.2	83.2	58.1
LSD, 10%			7.6		1.3	1.7	9.4	1.7	8.4	2.2
CV, %			12.9		3.4	7.1	7.5	2.0	7.5	4.7

<sup>1</sup>ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide and E= Escalate+Fungicide.<sup>2</sup>The Belleville trial was not included in the Southern region table due to large amounts of variation caused by possible frost damage in April. Yields were low and variable.

Table 2. Northern Illinois regional wheat variety trial results, 2020

Company	Variety	ST <sup>1</sup>	Regional Average			Perry			Urbana			Hampshire		
			Yield bu/ac	Yield Rank 1 to 59	Test wt. lb/bu	Height in.	Yield bu/ac	Test wt. lb/bu	Yield bu/ac	Test wt. lb/bu	2 <sup>2</sup> Ldg. 0 to 9	Yield bu/ac	Test wt. lb/bu	2 <sup>2</sup> Ldg. 0 to 9
AgriMAXX	473	C	97.2	30	55.9	39	96.4	54.7	89.9	57.3	2.7	105.3	55.7	2.3
AgriMAXX	475	C	92.1	47	56.7	36	86.0	54.7	82.4	58.2	3.7	108.0	57.3	5.0
AgriMAXX	485	C	94.1	41	56.9	36	87.2	55.0	90.5	58.8	1.3	104.8	56.8	2.7
AgriMAXX	495	C	102.2	3	57.3	37	101.4	56.1	99.6	59.1	0.3	105.7	56.8	2.3
AgriMAXX	496	C	96.4	36	55.5	34	92.4	54.3	104.6	56.6	1.0	92.2	55.6	5.7
AgriMAXX	498	C	92.3	46	54.5	38	82.7	51.1	90.7	57.0	1.0	103.3	55.3	4.7
AgriMAXX	503	C	97.3	29	57.1	37	96.5	56.3	95.9	58.5	2.7	99.5	56.4	7.0
AgriMAXX	505	C	102.1	4	57.7	37	100.3	56.7	101.3	59.9	1.0	104.8	56.6	1.7
AgriMAXX	EXP 2003	C	99.2	20	55.3	36	102.2	55.5	97.2	56.2	2.0	98.2	54.2	4.7
AgriPro	SY 007	C	87.0	57	55.7	36	91.9	55.7	70.4	56.0	2.0	98.5	55.4	8.3
AgriPro	SY 547	C	98.0	25	55.6	38	82.1	52.5	101.2	57.8	1.0	110.7	56.7	6.7
AgriPro	SY 576	C	101.1	12	55.5	38	100.3	54.0	97.6	57.4	0.0	105.4	55.0	0.7
AgriPro	SY Viper	C	100.7	14	56.2	40	94.1	53.7	94.3	58.6	1.7	113.7	56.2	1.3
Albert Lea Seed	Erisman		90.0	52	57.8	38	87.5	57.4	92.9	59.8	1.3	89.6	56.1	7.0
Albert Lea Seed	LCS 3334		92.0	49	56.8	40	93.6	55.8	95.4	59.6	3.0	87.1	55.1	8.0
Albert Lea Seed	Viking Volla SRW		86.8	58	54.6	37	88.1	51.7	81.7	56.8	3.3	90.6	55.3	7.0
Bio Town Seeds	XW 1903	C	101.8	5	57.3	38	99.2	55.8	102.0	59.1	0.0	104.1	57.0	2.7
Bio Town Seeds	XW 2013	C	95.8	38	56.4	35	101.2	55.4	89.9	56.8	2.0	96.4	57.0	2.0
DeRaedt Seed	DeRaedt 24	C	101.2	11	57.5	35	98.9	56.6	98.8	59.6	1.3	105.8	56.1	3.7
DeRaedt Seed	DeRaedt Exp 47	C	101.6	7	57.2	38	96.5	55.5	99.7	59.0	0.3	108.5	56.9	2.3
Dyna-Gro	9002	G	102.6	1	55.8	38	97.0	54.0	90.1	57.3	4.3	120.7	56.1	1.7
Dyna-Gro	9070	G	97.0	31	55.9	36	92.8	55.1	86.4	57.7	1.7	111.6	54.8	5.3
Dyna-Gro	9932	G	99.4	19	56.8	37	99.8	55.1	94.3	59.0	2.0	104.2	56.3	2.7
Dyna-Gro	9941	G	93.7	42	54.7	36	92.5	54.4	81.4	56.2	4.3	107.3	53.3	8.0
Dyna-Gro	WX19713	G	97.4	28	57.5	36	97.4	57.0	84.4	59.5	4.7	110.4	56.1	6.0
Dyna-Gro	WX20731	G	101.6	6	56.7	35	103.3	55.5	97.9	57.6	0.3	103.7	57.1	3.7
Dyna-Gro	WX20737	G	99.1	21	57.4	36	85.5	56.4	95.3	58.9	0.7	116.4	56.8	2.3
FS Wheat	FS 616	C	100.9	13	57.4	37	97.0	56.2	100.0	59.2	2.3	105.5	56.8	5.3
FS Wheat	FS 599	C	92.3	45	57.3	35	87.7	56.5	86.1	58.9	2.3	103.1	56.6	1.7
FS Wheat	FS 601	C	97.8	26	54.8	37	89.7	54.7	101.7	56.2	0.0	101.9	53.5	5.7
FS Wheat	FS 603	C	93.5	43	56.3	35	89.9	53.7	80.3	58.1	2.7	110.3	57.1	4.0
FS Wheat	FS 604	C	90.5	51	56.0	38	91.0	55.9	88.5	57.6	1.3	92.0	54.6	9.0
FS Wheat	FS 624	C	95.3	40	56.4	37	87.9	55.0	87.7	58.1	0.0	110.3	56.1	3.0
FS Wheat	WX20A	C	96.7	34	57.1	37	94.0	56.3	101.9	58.8	2.0	94.2	56.0	7.0
FS Wheat	WX20B	C	101.2	10	57.4	35	97.7	56.7	95.3	59.4	2.0	110.5	56.2	3.0
Green Valley	65X	C	100.1	15	56.3	37	105.7	54.6	99.0	57.6	2.0	95.7	56.8	0.0
Green Valley	66X	C	96.7	33	54.6	34	91.9	54.9	102.0	55.9	4.3	96.2	53.0	6.0
Green Valley	GV 619	C	99.0	22	57.7	36	92.6	56.6	98.3	59.9	1.3	106.0	56.5	3.0
Green Valley	GV 668	C	98.6	24	57.3	37	91.2	56.2	98.5	58.8	0.0	106.2	56.8	2.0
Green Valley	GV 679	C	92.7	44	56.9	36	80.3	54.7	93.9	58.8	1.0	103.9	57.1	1.0
Kitchen Seed	KSC 416	G	89.0	56	56.3	36	89.1	54.5	94.0	58.9	0.7	83.9	55.4	9.0
Kitchen Seed	KSC 417	G	89.8	53	54.6	38	89.3	52.5	78.3	55.9	5.0	101.9	55.4	4.7
Kitchen Seed	KSC 418	G	96.7	33	56.3	38	86.3	55.0	93.8	57.7	0.3	110.0	56.1	3.7
Kratz Farms	EX KF 809	C	92.0	48	55.6	36	82.2	52.3	94.6	58.4	0.3	99.2	56.2	3.3
Kratz Farms	KF 15241	C	83.0	59	56.6	38	84.0	55.0	79.6	59.0	2.3	85.3	55.9	6.7
Kratz Farms	KF 15334	C	99.9	17	57.2	40	95.9	56.3	98.3	59.4	2.3	105.4	55.9	7.3
Kratz Farms	KF 15639	C	100.1	16	56.7	40	97.6	55.6	89.6	57.8	3.7	113.1	56.8	5.3
Kratz Farms	KF 667	C	89.1	55	56.6	36	89.5	55.5	88.5	59.1	0.7	89.1	55.3	8.3
Kratz Farms	KF 727	C	89.5	54	55.2	36	78.6	52.6	94.6	57.2	0.0	95.2	55.7	1.7
KWS Cereals	KWS283	C	101.3	8	56.3	36	98.7	54.1	96.3	58.4	1.0	108.7	56.5	1.3
KWS Cereals	KWS291	C	101.2	9	56.3	37	98.4	52.9	102.8	59.1	0.0	102.5	56.8	0.3
KWS Cereals	KWS333	C	96.5	35	56.7	37	86.8	56.0	99.4	58.2	0.0	103.2	55.8	4.0
Limagrain	L11713	C	99.7	18	57.5	37	94.3	56.6	94.9	59.3	2.0	110.0	56.8	3.0
Limagrain	L11809	C	95.3	40	55.9	37	85.6	52.4	95.5	58.6	2.0	104.8	56.8	7.0
Monier Seed	MW857	G	91.1	50	55.8	39	89.7	54.1	81.0	57.5	4.0	102.5	55.9	1.0
Pioneer - Corteva	25R25	C	98.9	23	55.7	37	91.6	52.4	99.1	58.7	0.0	106.0	55.9	4.0
Pioneer - Corteva	25R50	C	95.9	37	56.3	34	83.0	55.0	101.8	57.7	0.0	102.8	56.2	4.7
Pioneer - Corteva	25R61	C	102.4	2	55.8	37	95.4	55.5	107.2	57.2	0.0	104.6	54.6	3.7
Pioneer - Corteva	25R74	C	97.8	27	56.0	34	95.8	54.9	95.0	57.1	1.3	102.6	56.1	2.7
Trial Mean			95.8		56.4	37	91.7	55.1	93.7	58.2		102.1	56.0	
LSD, 10%			6.4		0.9	1	6.6	0.9	8.5	0.7		11.4	0.8	
CV, %			12.4		2.8	6	5.3	1.2	6.7	0.9		8.3	1.0	

<sup>1</sup>ST- Seed Treatment: C= Cruiser+Fungicide, F= Fungicide, G= Gaucho+Fungicide.<sup>2</sup>Lodging score: 0= no lodging, 9= most all plants lodged.

**Table 3. Results of the 2020 wheat variety trial at Elkville, in far southcentral Illinois.**

<b>Company</b>	<b>Variety</b>	<b>ST<sup>1</sup></b>	<b>Yield</b>				<b>2-yr avg</b>	<b>3-yr avg</b>
			<b>Yield bu/ac</b>	<b>Rank 1 to 62</b>	<b>Test wt. lb/bu</b>	<b>Height in.</b>		
AgriMAXX	454	C	92.0	37	62.5	35	99.8	102.3
AgriMAXX	463	C	100.4	14	59.7	31	98.8	98.3
AgriMAXX	473	C	98.5	17	63.0	37	97.9	96.5
AgriMAXX	475	C	79.1	58	61.9	32	93.3	96.4
AgriMAXX	492	C	86.2	51	64.3	34		
AgriMAXX	495	C	91.4	40	63.5	36	96.0	
AgriMAXX	496	C	93.9	31	62.3	32		
AgriMAXX	503	C	88.8	46	58.6	36		
AgriMAXX	505	C	103.7	7	64.9	37		
AgriMAXX	EXP 2003	C	105.9	3	60.6	34		
AgriPro	SY 007	C	85.5	52	61.3	33		
AgriPro	SY 547	C	91.0	41	60.8	34	95.8	95.5
AgriPro	SY 576	C	89.5	45	61.8	38	96.6	
AgriPro	SY Viper	C	96.0	24	61.8	38	99.3	
Albert Lea Seed	Erisman		75.3	60	64.0	35		
Albert Lea Seed	LCS 3334		100.9	11	61.5	38		
Albert Lea Seed	Viking Volla SRW		84.3	55	62.0	33		
Bio Town Seeds	Diener 497W	G	90.7	43	61.7	34	91.5	96.5
Bio Town Seeds	XW 1903	C	98.5	18	63.5	36		
Bio Town Seeds	XW 2011	C	96.2	23	61.2	35		
Bio Town Seeds	XW 2012	C	85.5	53	61.8	36		
Bio Town Seeds	XW 2013	C	103.6	8	61.4	35		
Dyna-Gro	9002	G	82.8	57	61.6	36	94.4	
Dyna-Gro	9070	G	88.7	47	61.9	34		
Dyna-Gro	9522	G	96.4	22	61.9	35	101.9	101.1
Dyna-Gro	9701	G	93.6	32	60.9	37	95.9	97.5
Dyna-Gro	9932	G	98.3	19	62.6	36	102.5	
Dyna-Gro	9941	G	93.9	30	61.4	34	94.3	
Dyna-Gro	WX19713	G	100.7	12	63.1	36	100.3	
Dyna-Gro	WX20731	G	100.0	15	62.1	36		
Dyna-Gro	WX20737	G	95.1	27	62.1	32		
FS Wheat	FS 599	C	72.2	62	62.5	32	83.1	
FS Wheat	FS 603	C	89.6	44	61.5	33	100.5	101.7
FS Wheat	FS 604	C	91.4	40	61.7	34	94.8	94.3
FS Wheat	FS 616	C	103.3	9	62.5	35		
FS Wheat	FS 624	C	103.1	10	62.3	38	104.4	105.0
FS Wheat	WX20A	C	91.8	38	62.0	37		
FS Wheat	WX20B	C	108.5	2	63.5	36		
Go Wheat	2058	C	91.0	42	60.4	30	95.7	
Go Wheat	4059S	C	97.7	20	61.1	35		
Go Wheat	5056	C	83.3	56	61.8	34		
Hoffman Seed	H7W16	C	74.4	61	62.2	33	79.4	84.7
Hoffman Seed	H7W19	C	86.9	48	62.9	36	94.8	
Hoffman Seed	H7W20	C	95.4	26	63.0	35		
Hoffman Seed	H7W30	C	104.9	5	62.1	36		
Hoffman Seed	H7W40	C	95.0	28	61.0	32		
Kitchen Seed Company	KSC 416	G	104.2	6	63.3	35	103.4	99.5
Kitchen Seed Company	KSC 417	G	93.1	34	61.6	38	97.8	98.6
Kitchen Seed Company	KSC 418	G	86.8	49	63.0	38	95.1	97.0
KWS Cereals	KWS246	C	86.7	50	62.4	32		
KWS Cereals	KWS333	C	84.5	54	62.7	33		
Limagrain	L11809	C	105.8	4	61.8	33		
Limagrain	L11815	C	109.6	1	60.7	35		
Pioneer - Corteva	25R50	C	92.5	35	60.6	33		
Pioneer - Corteva	25R61	C	94.7	29	63.6	37	103.0	103.1
Pioneer - Corteva	25R74	C	100.6	13	62.0	31	103.1	104.8
Pioneer - Corteva	25R77	C	96.4	21	62.8	32	101.5	100.7
Pro Harvest	7B675		92.0	36	61.6	36		
USG	3230	G	93.4	33	62.6	32		
USG	3316	G	95.6	25	63.3	37		
USG	3329	G	99.2	16	62.9	37	100.5	99.6
USG	3539	G	75.8	59	63.4	33		
	Trial Mean		92.6		62.2	35		
	LSD, 10%		9.4		1.7	2		
	CV, %		7.5		2.0	4		

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

**Pest management** is carried out by the cooperator at this site. In 2020 this included Trivapro fungicide and Warrior insecticide on April 13th, and Prosaro fungicide and Warrior insecticide on May 18th.

**Table 4. Results of the 2019 wheat variety trial at Belleville, in southwestern Illinois.**

Company	Variety	ST <sup>1</sup>	Yield			Height in.	2-yr avg 2018-19 bu/ac	3-yr avg 2017-19 bu/ac
			Yield bu/ac	Rank 1 to 66	Test wt. lb/bu			
AgriMAXX	444	C	78.2	23	54.6	37	83.8	87.3
AgriMAXX	454	C	69.2	56	49.0	36	75.9	77.6
AgriMAXX	463	C	75.6	30	54.1	35	74.2	81.3
AgriMAXX	473	C	73.4	38	55.0	39	76.5	75.9
AgriMAXX	475	C	73.8	36	55.1	36	70.2	75.5
AgriMAXX	485	C	62.7	64	53.6	35	71.9	
AgriMAXX	486	C	82.6	6	51.6	39	80.7	
AgriMAXX	495	C	79.6	15	53.1	36		
AgriMAXX	Exp 1902	C	74.3	35	49.4	36		
AgriMAXX	Exp 1905	C	72.8	44	51.9	39		
AgriMAXX	Exp 1906	C	72.3	48	50.7	37		
AgriMAXX	Exp 1913	C	73.0	42	54.6	37		
AgriPro	SY 100	C	76.0	28	54.7	36	76.8	80.1
AgriPro	SY 547	C	68.1	59	55.3	38	73.6	74.4
AgriPro	SY 576	C	81.3	10	52.5	37		
AgriPro	SY Viper	C	75.6	29	57.8	38		
BioTown Seeds	Diener 491W		76.8	24	54.1	36		
BioTown Seeds	Diener 497W		80.4	12	50.5	36	81.8	
BioTown Seeds	Diener D510W		69.4	54	50.3	36	74.2	75.3
BioTown Seeds	Diener XW1902W		68.6	58	55.9	38		
Croplan	CP8550	G	68.7	57	52.4	39	71.1	74.4
Croplan	CP8800	G	72.6	46	49.0	37		
Croplan	CP9415	G	76.1	27	50.2	36	79.5	74.1
Croplan	CP9606	G	88.1	2	51.1	38	85.3	87.4
Dyna-Gro	9522	G	82.0	8	54.1	37	81.3	81.8
Dyna-Gro	9701	G	78.5	21	54.4	39	76.8	78.0
Dyna-Gro	9750	G	71.8	50	54.7	35	74.3	82.1
Dyna-Gro	9862	G	69.7	53	54.0	36	72.4	76.4
Dyna-Gro	9932	G	78.3	22	55.8	37		
Dyna-Gro	9941	G	84.0	4	51.9	36		
Dyna-Gro	9980	G	76.4	26	55.9	34		
Dyna-Gro	WX18416	G	74.7	32	51.6	37		
Dyna-Gro	WX19713	G	79.6	16	53.3	37		
Dyna-Gro	WX19714	G	65.1	62	51.1	37		
Go Wheat	2058	C	71.1	51	54.4	33		
Go Wheat	EXP18-1	C	72.0	49	52.4	37		
Go Wheat	EXP18-2	C	72.7	45	51.1	35		
GROWMARK	FS 599	C	79.3	17	54.1	35		
GROWMARK	FS 601	C	65.8	61	49.8	35		
GROWMARK	FS 603	C	72.5	47	52.6	36	71.3	
GROWMARK	FS 604	C	74.6	33	54.6	37	69.9	75.7
GROWMARK	FS 615	C	82.7	5	51.0	36	82.6	81.2
GROWMARK	FS 624	C	76.6	25	52.2	38	78.6	80.8
GROWMARK	WX19A	C	85.9	3	54.0	39		
GROWMARK	WX19B	C	73.0	43	52.0	34		
Hoffman Seed	H7W15		73.1	40	54.5	37	75.5	78.1
Hoffman Seed	H7W16		69.3	55	53.9	34	70.9	74.9
Hoffman Seed	H7W19		78.8	18	48.8	37		
Hoffman Seed	H7W28		65.0	63	52.8	36	72.8	
Kitchen Seed Company	KSC 416	G	73.5	37	55.7	37	70.5	74.0
Kitchen Seed Company	KSC 417	G	80.5	11	54.7	40	80.6	81.3
Kitchen Seed Company	KSC 418	G	78.7	19	53.9	39	76.5	
KWS Cereals	KWS19X03	C	66.0	60	54.3	34		
KWS Cereals	KWS19X07	C	92.0	1	53.6	37		
KWS Cereals	KWS19X09	C	73.2	39	50.2	37		
LCS	AMMO		70.3	52	54.4	36	67.8	
Limagrain	L11548	G	78.7	20	53.1	39	80.4	
Limagrain	L11713	G	61.4	65	55.0	37		
Pioneer	25R61	C	82.4	7	53.7	38	83.4	85.4
Pioneer	25R74	C	81.4	9	52.4	35	81.6	83.3
Pioneer	25R77	C	79.9	13	56.6	34	76.4	81.3
ProHarvest	286	G	74.4	34	54.7	37		
ProHarvest	317	G	58.9	66	54.7	36		
USG	3329	G	79.8	14	52.6	36	81.5	
USG	3404	G	75.5	31	51.5	37	78.1	78.8
USG	3536	G	73.0	41	54.0	39		
Trial Mean			74.7		53.3	37		
LSD, 10%			8.2		3.1	2		
CV, %			8.1		4.3	3		

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

**Table 5. Results of the 2020 wheat variety trial at St Peter, in south central Illinois.**

<b>Company</b>	<b>Variety</b>	<b>ST<sup>1</sup></b>	<b>Yield bu/ac</b>	<b>Yield</b>			<b>2-yr avg 2018,20</b>	<b>3-yr avg<sup>3</sup> 2017,18,20</b>
				<b>Rank 1 to 62</b>	<b>Test wt. lb/bu</b>	<b>Height in.</b>		
AgriMAXX	454	C	88.0	20	57.7	35	88.8	95.0
AgriMAXX	463	C	84.4	29	57.7	33	82.5	95.4
AgriMAXX	473	C	88.1	19	58.8	37	85.9	97.9
AgriMAXX	475	C	87.1	23	57.8	34	88.2	94.4
AgriMAXX	492	C	72.8	57	58.4	35		
AgriMAXX	495	C	88.3	18	59.3	38		
AgriMAXX	496	C	87.5	22	57.5	33		
AgriMAXX	503	C	85.7	26	60.5	34		
AgriMAXX	505	C	78.6	44	60.1	35		
AgriMAXX	EXP 2003	C	100.9	1	57.8	34		
AgriPro	SY 007	C	69.5	60	55.8	39		
AgriPro	SY 547	C	88.3	16	57.4	36	83.3	93.9
AgriPro	SY 576	C	93.7	7	58.3	36		
AgriPro	SY Viper	C	77.8	47	57.1	38		
Albert Lea Seed	Erisman		85.5	27	59.6	39		
Albert Lea Seed	LCS 3334		93.0	8	59.5	36		
Albert Lea Seed	Viking Volla SRW		76.2	49	54.8	35		
Bio Town Seeds	Diener 497W	G	87.8	21	58.3	33	87.3	
Bio Town Seeds	XW 1903	C	85.9	25	58.7	36		
Bio Town Seeds	XW 2011	C	100.1	2	58.8	37		
Bio Town Seeds	XW 2012	C	84.1	31	60.0	32		
Bio Town Seeds	XW 2013	C	91.6	10	58.5	34		
Dyna-Gro	9002	G	90.1	14	57.3	38		
Dyna-Gro	9070	G	83.8	33	57.5	38		
Dyna-Gro	9522	G	92.6	9	56.5	37	88.8	98.5
Dyna-Gro	9701	G	95.7	4	59.0	38		
Dyna-Gro	9932	G	83.5	35	59.1	35		
Dyna-Gro	9941	G	86.3	24	58.2	34		
Dyna-Gro	WX19713	G	95.1	6	60.5	35		
Dyna-Gro	WX20731	G	90.8	12	58.8	33		
Dyna-Gro	WX20737	G	80.6	41	58.4	34		
FS Wheat	FS 599	C	74.5	54	59.1	34		
FS Wheat	FS 603	C	75.0	51	57.8	33	79.5	82.8
FS Wheat	FS 604	C	83.6	34	57.7	34		
FS Wheat	FS 616	C	83.8	33	58.8	37		
FS Wheat	FS 624	C	83.4	36	57.8	38	84.4	88.5
FS Wheat	WX20A	C	74.9	52	59.8	33		
FS Wheat	WX20B	C	95.1	5	60.7	36		
Go Wheat	2058	C	78.5	45	57.3	30		
Go Wheat	4059S	C	84.2	30	59.1	33		
Go Wheat	5056	C	72.9	55	57.2	33		
Hoffman Seed	H7W16	C	71.9	59	59.2	33	75.5	86.5
Hoffman Seed	H7W19	C	74.7	53	55.1	35		
Hoffman Seed	H7W20	C	90.9	11	59.3	35		
Hoffman Seed	H7W30	C	80.4	42	57.1	37		
Hoffman Seed	H7W40	C	83.1	38	58.2	34		
Kitchen Seed Company	KSC 416	G	72.9	56	56.6	34	75.6	84.3
Kitchen Seed Company	KSC 417	G	82.0	39	55.7	36		
Kitchen Seed Company	KSC 418	G	83.2	37	57.4	38		
KWS Cereals	KWS246	C	72.2	58	53.7	35		
KWS Cereals	KWS333	C	78.1	46	58.3	35		
Limagrain	L11809	C	79.2	43	57.2	35		
Limagrain	L11815	C	77.6	48	57.1	35		
Pioneer - Corteva	25R50	C	69.2	61	57.4	32		
Pioneer - Corteva	25R61	C	99.6	3	59.0	37	89.7	97.3
Pioneer - Corteva	25R74	C	90.3	13	58.5	34		
Pioneer - Corteva	25R77	C	75.6	50	57.7	34		
Pro Harvest	7B675		85.2	28	55.6	37		
USG	3230	G	64.1	62	54.1	37		
USG	3316	G	89.7	15	57.7	35		
USG	3329	G	88.3	17	58.5	35	86.8	
USG	3539	G	81.9	40	58.2	35		
	Trial Mean		83.2		58.1	35		
	LSD, 10%		8.4		0.7	2		
	CV, %		7.5		0.9	5		

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

<sup>3</sup>Multi-year averages include means from the Neoga location for 2017-18.

**Table 6. Results of the 2020 wheat variety trial at Perry, in western Illinois.**

<b>Company</b>	<b>Variety</b>	<b>ST<sup>1</sup></b>	<b>Yield</b>			<b>Height</b>	<b>2-yr avg</b>	<b>3-yr avg</b>
			<b>bu/ac</b>	<b>Rank</b>	<b>Test wt.</b>			
AgriMAXX	473	C	96.4	20	54.7	39	100.3	90.9
AgriMAXX	475	C	86.0	50	54.7	35	94.2	87.8
AgriMAXX	485	C	87.2	47	55.0	37	90.7	82.3
AgriMAXX	495	C	101.4	4	56.1	38	105.9	
AgriMAXX	496	C	92.4	31	54.3	35		
AgriMAXX	498	C	82.7	55	51.1	39		
AgriMAXX	503	C	96.5	18	56.3	37		
AgriMAXX	505	C	100.3	7	56.7	37		
AgriMAXX	EXP 2003	C	102.2	3	55.5	37		
AgriPro	SY 007	C	91.9	33	55.7	37		
AgriPro	SY 547	C	82.1	57	52.5	38	86.9	80.4
AgriPro	SY 576	C	100.3	6	54.0	38	99.8	
AgriPro	SY Viper	C	94.1	25	53.7	41	98.8	
Albert Lea Seed	Erisman		87.5	46	57.4	37		
Albert Lea Seed	LCS 3334		93.6	27	55.8	40		
Albert Lea Seed	Viking Volla SRW		88.1	43	51.7	37		
Bio Town Seeds	XW 1903	C	99.2	9	55.8	38		
Bio Town Seeds	XW 2013	C	101.2	5	55.4	35		
DeRaedt Seed	DeRaedt 24	C	98.9	10	56.6	36	100.4	
DeRaedt Seed	DeRaedt Exp 47	C	96.5	19	55.5	39		
Dyna-Gro	9002	G	97.0	17	54.0	40		
Dyna-Gro	9070	G	92.8	28	55.1	37		
Dyna-Gro	9932	G	99.8	8	55.1	37	99.4	
Dyna-Gro	9941	G	92.5	30	54.4	38	94.4	
Dyna-Gro	WX19713	G	97.4	15	57.0	37		
Dyna-Gro	WX20731	G	103.3	2	55.5	35		
Dyna-Gro	WX20737	G	85.5	52	56.4	36		
FS Wheat	FS 599	C	87.7	45	56.5	33	91.7	
FS Wheat	FS 601	C	89.7	38	54.7	37	96.0	
FS Wheat	FS 603	C	89.9	37	53.7	36	98.2	87.6
FS Wheat	FS 604	C	91.0	36	55.9	40	90.2	83.5
FS Wheat	FS 616	C	97.0	16	56.2	37		
FS Wheat	FS 624	C	87.9	44	55.0	39	92.1	84.5
FS Wheat	WX20A	C	94.0	26	56.3	36		
FS Wheat	WX20B	C	97.7	13	56.7	37		
Green Valley	65X		105.7	1	54.6	37		
Green Valley	66X		91.9	32	54.9	35		
Green Valley	GV 619		92.6	29	56.6	36	100.4	
Green Valley	GV 668		91.2	35	56.2	36	100.0	86.9
Green Valley	GV 679		80.3	58	54.7	36	89.5	
Kitchen Seed Company	KSC 416	G	89.1	42	54.5	36	92.6	84.6
Kitchen Seed Company	KSC 417	G	89.3	41	52.5	41	94.0	86.1
Kitchen Seed Company	KSC 418	G	86.3	49	55.0	37	92.3	87.4
Kratz Farms	EX KF 809	C	82.2	56	52.3	37		
Kratz Farms	KF 15241	C	84.0	53	55.0	38	90.7	
Kratz Farms	KF 15334	C	95.9	21	56.3	40	92.2	77.5
Kratz Farms	KF 15639	C	97.6	14	55.6	42	99.8	88.1
Kratz Farms	KF 667	C	89.5	40	55.5	37	91.0	
Kratz Farms	KF 727	C	78.6	59	52.6	36	88.0	80.7
KWS Cereals	KWS283	C	98.7	11	54.1	37		
KWS Cereals	KWS291	C	98.4	12	52.9	38		
KWS Cereals	KWS333	C	86.8	48	56.0	38		
Limagrain	L11713	C	94.3	24	56.6	38		
Limagrain	L11809	C	85.6	51	52.4	36		
Monier Seed	MW857	G	89.7	39	54.1	40	94.7	
Pioneer - Corteva	25R25	C	91.6	34	52.4	38	96.8	86.4
Pioneer - Corteva	25R50	C	83.0	54	55.0	35		
Pioneer - Corteva	25R61	C	95.4	23	55.5	38	101.7	92.8
Pioneer - Corteva	25R74	C	95.8	22	54.9	35	97.8	86.5
	Trial Mean		91.7		55.1	37		
	LSD, 10%		6.6		0.9	2		
	CV, %		5.3		1.2	4		

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

**Table 7. Results of the 2020 wheat variety trial at Urbana, in east central Illinois.**

<u>Company</u>	<u>Variety</u>	<u>ST<sup>1</sup></u>	<u>Yield bu/ac</u>	<u>Yield Rank</u>		<u>Test wt. lb/bu</u>	<u>Height in.</u>	<u>Lodging<sup>2</sup></u>	<u>2-yr avg</u>		<u>3-yr avg</u>
				1 to 59	2018,20 bu/ac				2018,20 bu/ac	2017,18,20 bu/ac	
AgriMAXX	473	C	89.9	43	57.3	40	2.7	93.6			
AgriMAXX	475	C	82.4	52	58.2	37	3.7	90.8		90.1	
AgriMAXX	485	C	90.5	41	58.8	37	1.3	93.9			
AgriMAXX	495	C	99.6	13	59.1	37	0.3				
AgriMAXX	496	C	104.6	2	56.6	36	1.0				
AgriMAXX	498	C	90.7	40	57.0	37	1.0				
AgriMAXX	503	C	95.9	25	58.5	37	2.7				
AgriMAXX	505	C	101.3	9	59.9	38	1.0				
AgriMAXX	EXP 2003	C	97.2	23	56.2	38	2.0				
AgriPro	SY 007	C	70.4	59	56.0	36	2.0				
AgriPro	SY 547	C	101.2	10	57.8	40	1.0	102.0		95.0	
AgriPro	SY 576	C	97.6	22	57.4	39	0.0				
AgriPro	SY Viper	C	94.3	34	58.6	40	1.7				
Albert Lea Seed	Erisman		92.9	39	59.8	39	1.3				
Albert Lea Seed	LCS 3334		95.4	27	59.6	41	3.0				
Albert Lea Seed	Viking Volla SRW		81.7	53	56.8	39	3.3				
Bio Town Seeds	XW 1903	C	102.0	4	59.1	40	0.0				
Bio Town Seeds	XW 2013	C	89.9	44	56.8	36	2.0				
DeRaedt Seed	DeRaedt 24	C	98.8	17	59.6	37	1.3				
DeRaedt Seed	DeRaedt Exp 47	C	99.7	12	59.0	39	0.3				
Dyna-Gro	9002	G	90.1	42	57.3	38	4.3				
Dyna-Gro	9070	G	86.4	49	57.7	37	1.7				
Dyna-Gro	9932	G	94.3	35	59.0	38	2.0				
Dyna-Gro	9941	G	81.4	54	56.2	37	4.3				
Dyna-Gro	WX19713	G	84.4	51	59.5	37	4.7				
Dyna-Gro	WX20731	G	97.9	21	57.6	38	0.3				
Dyna-Gro	WX20737	G	95.3	29	58.9	37	0.7				
FS Wheat	FS 599	C	86.1	50	58.9	35	2.3				
FS Wheat	FS 601	C	101.7	8	56.2	38	0.0				
FS Wheat	FS 603	C	80.3	56	58.1	37	2.7	87.4			
FS Wheat	FS 604	C	88.5	47	57.6	38	1.3	96.6		93.5	
FS Wheat	FS 616	C	100.0	11	59.2	39	2.3				
FS Wheat	FS 624	C	87.7	48	58.1	38	0.0	93.7		90.4	
FS Wheat	WX20A	C	101.9	6	58.8	41	2.0				
FS Wheat	WX20B	C	95.3	28	59.4	37	2.0				
Green Valley	65X	C	99.0	16	57.6	39	2.0	100.1			
Green Valley	66X	C	102.0	5	55.9	36	4.3	100.1			
Green Valley	GV 619	C	98.3	20	59.9	38	1.3				
Green Valley	GV 668	C	98.5	18	58.8	39	0.0	100.3			
Green Valley	GV 679	C	93.9	37	58.8	37	1.0				
Kitchen Seed Company	KSC 416	G	94.0	36	58.9	37	0.7	95.1		91.0	
Kitchen Seed Company	KSC 417	G	78.3	58	55.9	37	5.0	89.9		88.1	
Kitchen Seed Company	KSC 418	G	93.8	38	57.7	40	0.3	93.0			
Kratz Farms	EX KF 809	C	94.6	32	58.4	36	0.3				
Kratz Farms	KF 15241	C	79.6	57	59.0	38	2.3				
Kratz Farms	KF 15334	C	98.3	19	59.4	41	2.3	94.8			
Kratz Farms	KF 15639	C	89.6	45	57.8	41	3.7	92.8			
Kratz Farms	KF 667	C	88.5	47	59.1	38	0.7				
Kratz Farms	KF 727	C	94.6	33	57.2	39	0.0	95.1			
KWS Cereals	KWS283	C	96.3	24	58.4	37	1.0				
KWS Cereals	KWS291	C	102.8	3	59.1	38	0.0				
KWS Cereals	KWS333	C	99.4	14	58.2	37	0.0				
Limagrain	L11713	C	94.9	31	59.3	39	2.0				
Limagrain	L11809	C	95.5	26	58.6	38	2.0				
Monier Seed	MW857	G	81.0	55	57.5	39	4.0				
Pioneer - Corteva	25R25	C	99.1	15	58.7	39	0.0	105.5		99.6	
Pioneer - Corteva	25R50	C	101.8	7	57.7	33	0.0				
Pioneer - Corteva	25R61	C	107.2	1	57.2	37	0.0	109.2		103.0	
Pioneer - Corteva	25R74	C	95.0	30	57.1	35	1.3	103.2		98.5	
	Trial Mean		93.7		58.2	38	2				
	LSD, 10%		8.5		0.7	2	2				
	CV, %		6.7		0.9	4	112				

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

<sup>2</sup> Lodging- 0 no plants lodged, 9 all plants lodged.

**Table 8. Results of the 2020 wheat variety trial at Hampshire, in north central Illinois.**

<u>Company</u>	<u>Variety</u>	ST <sup>1</sup>	Yield bu/ac	Yield				Lodging <sup>2</sup> 0 to 9	2-yr avg 2019-20 bu/ac	3-yr avg 2018-20 bu/ac
				Rank 1 to 59	Test wt. lb/bu	Height in.				
AgriMAXX	473	C	105.3	25	55.7	37	2.3	111.5	108.0	
AgriMAXX	475	C	108.0	15	57.3	37	5.0	113.0	112.0	
AgriMAXX	485	C	104.8	28	56.8	35	2.7	109.8	105.2	
AgriMAXX	495	C	105.7	21	56.8	35	2.3	111.3		
AgriMAXX	496	C	92.2	52	55.6	32	5.7			
AgriMAXX	498	C	103.3	34	55.3	38	4.7			
AgriMAXX	503	C	99.5	43	56.4	38	7.0			
AgriMAXX	505	C	104.8	27	56.6	36	1.7			
AgriMAXX	EXP 2003	C	98.2	46	54.2	33	4.7			
AgriPro	SY 007	C	98.5	45	55.4	36	8.3			
AgriPro	SY 547	C	110.7	6	56.7	35	6.7	116.4	111.1	
AgriPro	SY 576	C	105.4	24	55.0	37	0.7	113.6		
AgriPro	SY Viper	C	113.7	3	56.2	39	1.3	117.0		
Albert Lea Seed	Erisman		89.6	55	56.1	37	7.0			
Albert Lea Seed	LCS 3334		87.1	57	55.1	38	8.0			
Albert Lea Seed	Viking Volla SRW		90.6	54	55.3	34	7.0			
Bio Town Seeds	XW 1903	C	104.1	31	57.0	35	2.7			
Bio Town Seeds	XW 2013	C	96.4	47	57.0	33	2.0			
DeRaedt Seed	DeRaedt 24	C	105.8	20	56.1	33	3.7	114.8		
DeRaedt Seed	DeRaedt Exp 47	C	108.5	14	56.9	36	2.3			
Dyna-Gro	9002	G	120.7	1	56.1	37	1.7			
Dyna-Gro	9070	G	111.6	5	54.8	34	5.3			
Dyna-Gro	9932	G	104.2	30	56.3	36	2.7	112.2		
Dyna-Gro	9941	G	107.3	16	53.3	33	8.0	111.7		
Dyna-Gro	WX19713	G	110.4	8	56.1	34	6.0			
Dyna-Gro	WX20731	G	103.7	33	57.1	33	3.7			
Dyna-Gro	WX20737	G	116.4	2	56.8	36	2.3			
FS Wheat	FS 599	C	103.1	36	56.6	37	1.7	109.4		
FS Wheat	FS 601	C	101.9	41	53.5	36	5.7	104.6		
FS Wheat	FS 603	C	110.3	9	57.1	33	4.0	115.9	113.6	
FS Wheat	FS 604	C	92.0	53	54.6	37	9.0	101.7	102.3	
FS Wheat	FS 616	C	105.5	22	56.8	35	5.3			
FS Wheat	FS 624	C	110.3	10	56.1	34	3.0	113.2	109.4	
FS Wheat	WX20A	C	94.2	51	56.0	35	7.0			
FS Wheat	WX20B	C	110.5	7	56.2	32	3.0			
Green Valley	65X	C	95.7	49	56.8	35	0.0			
Green Valley	66X	C	96.2	48	53.0	32	6.0			
Green Valley	GV 619	C	106.0	18	56.5	34	3.0	114.2		
Green Valley	GV 668	C	106.2	17	56.8	35	2.0	111.6	111.9	
Green Valley	GV 679	C	103.9	32	57.1	34	1.0	110.6		
Kitchen Seed Company	KSC 416	G	83.9	59	55.4	35	9.0	100.8	97.4	
Kitchen Seed Company	KSC 417	G	101.9	42	55.4	35	4.7	109.1	102.1	
Kitchen Seed Company	KSC 418	G	110.0	12	56.1	36	3.7	113.9	106.9	
Kratz Farms	EX KF 809	C	99.2	44	56.2	34	3.3			
Kratz Farms	KF 15241	C	85.3	58	55.9	37	6.7	99.1		
Kratz Farms	KF 15334	C	105.4	23	55.9	38	7.3	106.1	94.8	
Kratz Farms	KF 15639	C	113.1	4	56.8	37	5.3	114.8	113.0	
Kratz Farms	KF 667	C	89.1	56	55.3	32	8.3	103.0		
Kratz Farms	KF 727	C	95.2	50	55.7	34	1.7	100.9	101.3	
KWS Cereals	KWS283	C	108.7	13	56.5	35	1.3			
KWS Cereals	KWS291	C	102.5	39	56.8	35	0.3			
KWS Cereals	KWS333	C	103.2	35	55.8	35	4.0			
Limagrain	L11713	C	110.0	11	56.8	34	3.0			
Limagrain	L11809	C	104.8	26	56.8	36	7.0			
Monier Seed	MW857	G	102.5	40	55.9	37	1.0	111.0		
Pioneer - Corteva	25R25	C	106.0	19	55.9	35	4.0	111.297	107.75	
Pioneer - Corteva	25R50	C	102.8	37	56.2	34	4.7			
Pioneer - Corteva	25R61	C	104.6	29	54.6	35	3.7	117.1	111.3	
Pioneer - Corteva	25R74	C	102.6	38	56.1	32	2.7	112.2	108.6	
	Trial Mean		102.1		56.0	35				
	LSD, 10%		11.4		0.8	3				
	CV, %		8.3		1.0	5				

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

<sup>2</sup> Lodging- 0 no plants lodged, 9 all plants lodged.

**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>Standability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Septoria</u>
AgriMAXX	454	V	M	B	E	M	VG	S	I	MR
	463	V	E	S	E	M	E	S	MR	MR
	473	V	E	B	VG	M	E	S	MR	MR
	475	V	M	B	VG	M	E	S	I	I
	485	V	M	S	E	M	E	R	I	MR
	492	V	E	B	VG	M	E	S	R	MR
	495	V	M	B	VG	M	VG	R	MR	MR
	496	V	M	B	VG	M	E	S	MR	MR
	498	V	ME	S	VG	M	VG	S	I	I
	503	V	ME	S	E	MT	VG	S	MR	MR
	505	V	ME	B	VG	M	E	S	I	MR
	EXP 2002	V	E	B	E	M	E	S	MR	MR
	EXP 2003	V	M	B	E	M	E	S	I	MR
AgriPro	SY 007	V	E	B	VG	S	EX	S	MS	MS
	SY 547	V	ME	S	VG	T	G	S	MR	MR
	SY 576	V	ML	B	VG	T	EX	S	R	MR
	SY Viper	V	M	S	G	T	G	S	S	MS
Albert Lea Seed	3334	V	M	E	T	E				
	Erisman	V	E	B	E	T	VG		MR	MR
	Viking Volla SRW	V	M	E	M	E				
Bio Town Seeds	XW 1903	V	M	B	VG	MT	VG		MR	MR
	D497W	V	ME	B	VG	M	E		MR	MR
	XW 2011	V	E	B	E	M	VG		R	I
	XW 2012	V	ME	S	VG	MT	G	S	I	I
	XW 2013	V	M	B	VG	M	E		I	I
DeRaedt Seed	24 Exp 47	V	M	B	E	MT	E	R	E	MR
Dyna-Gro Seed	9002	V	M	B	VG	T	G	R	MR	MR
	9070	V	E	B	VG	M	VG	R	MR	MR
	9522	V	ML	B	VG	M	G	S	R	MR
	9701	V	ME	B	VG	T	VG	R	MR	MR
	9932	V	M	B	VG	M	VG	R	MR	MR
	9941	V	M	B	VG	M	VG	R	MR	MR
	WX19713	V	ME	B	VG	M	VG	S	MR	MR
	WX20731	V	M	B	VG	M	VG	n/a	MR	MR
	WX20737	V	M	B	VG	M	VG	n/a	MR	MR
FS Wheat	599	V	E	B	VG	S	VG	MR	MR	MR
	601	V	E	B	VG	M	E	MR	MR	MR
	603	V	ME	B	E	S	VG	MR	MR	MR
	604	V	E	S	E	M	VG	S	MR	MR
	616	V	M	B	VG	M	VG	MS	MR	MR
	624	V	M	S	E	M	E	MR	MS	MR
	WX20A	V	M	S	VG	M	G	S	MR	MR
	WX20B	V	ME	B	VG	M	E	S	MS	MR
Green Valley	619	V	E	B	VG	M	VG	S		
	668	V	M	B	VG	M	E	I		
	679	V	ML	S	VG	M	VG	I		
	65X	V	ME	B		M	VG			
	66X	V	M	B		M	VG			
Hoffman Seed House	H7W16	V	E	S	VG	MS	E	MR	MR	MR
	H7W19	V	M	B	VG	MT	VG	MR	MR	MR
	H7W20	V	ME	B	VG	M	VG	MR	MR	MR
	H7W30	V	M	S	VG	MT	VG	MR	MR	MR
	H7W40	V	E	S	VG	MS	E	MR	R	R

**Table 9, continued**

<u>Origin</u>	<u>Variety</u>	<u>Type</u>	<u>Maturity</u>	<u>Head type</u>	<u>Winter-hardiness</u>	<u>Plant height</u>	<u>Standability</u>	<u>Hessian fly</u>	<u>Leaf rust</u>	<u>Septoria</u>
Kitchen Seed	KSC 416W	V	ME	S	VG	M	VG	R	R	MR
	KSC 417W	V	M	B	VG	M	VG	R	R	R
	KSC 418W	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 15241	V	ME	S	VG	M	VG	I	MS	I
	KF 15334	V	M	S	E	M	VG	I	R	MR
	KF 15639	V	ML	B	E	T	VG	I	R	R
	EX KF 809	V	M	S	E	M	E	I	MS	R
KWS Cereals	KWS246	V	M	A	G	M	VG		I	MR
	KWS283	V	M	T	E	M	E		MR	MR
	KWS291	V	ML	T	E	M	E		MR	MR
	KWS333	V	ME	A	E	M	E		MR	I
Limagrain Cereal Seeds	L11809	V	ME	T	VG	MS	E	I	S	MR
	L11713	V	E	B	VG	MS	G	I	R	MR
	L11815	V	M	S	VG	M	VG	I	S	I
Monier Seed & Service	MW857	V	ML	B	VG	M	VG	NA	MR	I
Pioneer - Corteva	25R25	V	L	B	E	M	G	S	MS	MR
	25R50	V	M	S	VG	S	E	R	MR	
	25R61	V	M	B	VG	M	G	S	MR	I
	25R74	V	ME	B	VG	S	VG	R	MS	I
	25R77	V	E	B	VG	S	VG	R	I	MS
ProHarvest Seeds	7B675	V	M	B	E	M	VG	I	MR	MR
Go Wheat	2058	V	M	B	G	S	VG	S	I	MR
	4059S	V	M	S	G	M	VG	R	MR	MR
	5056	V	M	B	G	S	VG	S	MR	MR
UniSouth Genetics	3230	V	E	B	VG	MS	VG	S	R	
	3316	V	M	B	VG	M	E	S	I	MR
	3329	V	ME	B	E	M	E	S	I	MR
	3539	V	ME	B	G	M	E	S	MR	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

**2020 University of Illinois**  
**Winter Wheat Variety Trial**  
**Fusarium Head Blight evaluation \***  
**Jessica Rutkoski and Olivia C. Handal**

Varieties with greater resistance have a lower FHB rating.

Company	Entry Name	FHB Rating (1-9)*	Resistance Category**	Years Phenotyped	Company	Entry Name	FHB Rating (0-9)	Resistance Category**	Years Phenotyped
AgriMAXX	AgriMAXX 413	7.1 ± 0.5	MS/S	2019	Go Wheat	2058	5.9 ± 0.5	MS/S	2019
AgriMAXX	AgriMAXX 438	5.6 ± 0.5		2019	Go Wheat	5056	-		
AgriMAXX	AgriMAXX 454	4.9 ± 0.4	MR/MS	2019, 2020	Go Wheat	40595	-		
AgriMAXX	AgriMAXX 463	4.1 ± 0.4	MR/MS	2019, 2020	Go Wheat	EXP18-1	3.7 ± 0.5	MR	2019
AgriMAXX	AgriMAXX 473	4.4 ± 0.4	MR/MS	2019, 2020	Go Wheat	EXP18-2	7.4 ± 0.5	S	2019
AgriMAXX	AgriMAXX 475	4.8 ± 0.4	MR/MS	2019, 2020	Green Valley	GV 619	5.7 ± 0.4	MS/S	2019, 2020
AgriMAXX	AgriMAXX 485	4 ± 0.4	MR	2019, 2020	Green Valley	GV 64X	-		
AgriMAXX	AgriMAXX 486	6.7 ± 0.5	MS/S	2019	Green Valley	GV 658	4 ± 0.5	MR/MS	2019
AgriMAXX	AgriMAXX 492	6.1 ± 0.6	MS/S	2020	Green Valley	GV 65X	4.2 ± 0.6	MR/MS	2020
AgriMAXX	AgriMAXX 495	4.4 ± 0.4	MR/MS	2019, 2020	Green Valley	GV 668	5.1 ± 0.4	MR/MS	2019, 2020
AgriMAXX	AgriMAXX 496	6.9 ± 0.6	MS/S	2020	Green Valley	GV 66X	4.3 ± 0.6	MR/MS	2020
AgriMAXX	AgriMAXX 498	6.2 ± 0.6	MS/S	2020	Green Valley	GV 679	4.7 ± 0.4	MR/MS	2019, 2020
AgriMAXX	AgriMAXX 503	3.7 ± 0.6	MR/MS	2020	Green Valley	GV 67X	4.5 ± 0.5	MR/MS	2019
AgriMAXX	AgriMAXX 505	5.1 ± 0.6		2020	Green Valley	GV 68X	4.4 ± 0.5	MR/MS	2019
AgriMAXX	EXP 1902	6 ± 0.5	MS/S	2019	Hoffman Seed	H7W15	5.4 ± 0.5		2019
AgriMAXX	EXP 1906	8.4 ± 0.5	S	2019	Hoffman Seed	H7W16	7 ± 0.4	S	2019, 2020
AgriMAXX	EXP 1913	6.3 ± 0.5	MS/S	2019	Hoffman Seed	H7W19	7.9 ± 0.4	S	2019, 2020
AgriMAXX	EXP 1995	6.1 ± 0.5	MS/S	2019	Hoffman Seed	H7W20	4.8 ± 0.6	MR/MS	2020
AgriMAXX	EXP 2002	-			Hoffman Seed	H7W28	5.9 ± 0.5	MS/S	2019
AgriMAXX	EXP 2003	4.3 ± 0.6	MR/MS	2020	Hoffman Seed	H7W30	6.6 ± 0.6	MS/S	2020
AgriPro	SR8146	5.9 ± 0.5	MS/S	2019	Hoffman Seed	H7W40	-		
AgriPro	SY 007	7.1 ± 0.6	MS/S	2020	Kitchen Seed Company	KSC 416	6.2 ± 0.4	MS/S	2019, 2020
AgriPro	SY 547	6.6 ± 0.4	MS/S	2019, 2020	Kitchen Seed Company	KSC 417	7.2 ± 0.4	S	2019, 2020
AgriPro	SY 576	6.3 ± 0.6	MS/S	2020	Kitchen Seed Company	KSC 418	6.1 ± 0.4	MS/S	2019, 2020
AgriPro	SY Viper	6.5 ± 0.4	MS/S	2019, 2020	Kratz Farms	EX KF 809	7.2 ± 0.6	MS/S	2020
Albert Lea Seed	Erisman	5.1 ± 0.6		2020	Kratz Farms	KF 15241	4.2 ± 0.4	MR/MS	2019, 2020
Albert Lea Seed	LCS 3334	4 ± 0.6	MR/MS	2020	Kratz Farms	KF 15334	3.7 ± 0.4	MR	2019, 2020
Albert Lea Seed	Viking Volla SRW	6.3 ± 0.6	MS/S	2020	Kratz Farms	KF 15639	5.7 ± 0.4	MS/S	2019, 2020
Bio Town Seeds	D510W	4.2 ± 0.5	MR/MS	2019	Kratz Farms	KF 553	3.3 ± 0.5	MR	2019
Bio Town Seeds	Diener 491W	4.8 ± 0.5	MR/MS	2019	Kratz Farms	KF 667	5.3 ± 0.4	MR/MS	2019, 2020
Bio Town Seeds	Diener 497W	5 ± 0.4	MR/MS	2019, 2020	Kratz Farms	KF 727	7.2 ± 0.4	S	2019, 2020
Bio Town Seeds	Diener XW1902W	5.8 ± 0.5		2019	KWS Cereals	KWS19X03	7.3 ± 0.5	S	2019
Bio Town Seeds	XW 1903	5.4 ± 0.6		2020	KWS Cereals	KWS19X07	6.9 ± 0.5	MS/S	2019
Bio Town Seeds	XW 2011	2.9 ± 0.6	MR	2020	KWS Cereals	KWS19X08	6.3 ± 0.5	MS/S	2019
Bio Town Seeds	XW 2012	3 ± 0.6	MR	2020	KWS Cereals	KWS246	7.1 ± 0.6	MS/S	2020
Bio Town Seeds	XW 2013	3.7 ± 0.6	MR	2020	KWS Cereals	KWS283	6 ± 0.6	MS/S	2020
Croplan	CP8800	6 ± 0.5	MS/S	2019	KWS Cereals	KWS291	6.6 ± 0.6	MS/S	2020
Croplan	SRW 8550	4.8 ± 0.5	MR/MS	2019	KWS Cereals	KWS333	6.6 ± 0.6	MS/S	2020
Croplan	SRW 9415	7.5 ± 0.5	S	2019	LCS	AMMO	5.5 ± 0.5		2019
Croplan	SRW 9606	6.4 ± 0.5	MS/S	2019	Lewis	Lewis828	6.2 ± 0.5	MS/S	2019
DeRaedt Seed	DeRaedt 11	6.3 ± 0.5	MS/S	2019	Lewis	Lewis829	7 ± 0.5	MS/S	2019
DeRaedt Seed	DeRaedt 17	6.3 ± 0.5	MS/S	2019	Lewis	Lewis833	5 ± 0.5	MR/MS	2019
DeRaedt Seed	DeRaedt 24	4.6 ± 0.4	MR/MS	2019, 2020	Lewis	Lewis839	6.5 ± 0.5	MS/S	2019
DeRaedt Seed	DeRaedt Exp 47	5.2 ± 0.6		2020	Lewis	Lewis851	5.1 ± 0.5	MR/MS	2019
Dyna-Gro	Dyna-Gro 9070	4.8 ± 0.6	MR/MS	2020	Limagrain	L11548	8.3 ± 0.5	S	2019
Dyna-Gro	Dyna-Gro 9522	5.3 ± 0.4	MR/MS	2019, 2020	Limagrain	L11713	7 ± 0.4	S	2019, 2020
Dyna-Gro	Dyna-Gro 9701	5.2 ± 0.4	MR/MS	2019, 2020	Limagrain	L11719	6 ± 0.5	MS/S	2019
Dyna-Gro	Dyna-Gro 9750	4 ± 0.5	MR/MS	2019	Limagrain	L11809	7 ± 0.6	MS/S	2020
Dyna-Gro	Dyna-Gro 9862	4 ± 0.5	MR/MS	2019	Limagrain	L11815	6.5 ± 0.6	MS/S	2020
Dyna-Gro	Dyna-Gro 9932	5.4 ± 0.4	MR/MS	2019, 2020	Moiner Seed	MW857	6.5 ± 0.4	MS/S	2019, 2020
Dyna-Gro	Dyna-Gro 9941	5.8 ± 0.4	MS/S	2019, 2020	Pioneer - Corteva	25R25	4.6 ± 0.4	MR/MS	2019, 2020
Dyna-Gro	Dyna-Gro 9980	4.8 ± 0.5	MR/MS	2019	Pioneer - Corteva	25R40	6.3 ± 0.5	MS/S	2019
Dyna-Gro	WX18416	5.9 ± 0.4	MS/S	2019, 2020	Pioneer - Corteva	25R50	5.5 ± 0.6		2020
Dyna-Gro	WX19711	5.3 ± 0.5		2019	Pioneer - Corteva	25R61	3.9 ± 0.4	MR	2019, 2020
Dyna-Gro	WX19713	4.3 ± 0.4	MR/MS	2019, 2020	Pioneer - Corteva	25R74	5.3 ± 0.4	MR/MS	2019, 2020
Dyna-Gro	WX19714	4.8 ± 0.5	MR/MS	2019	Pioneer - Corteva	25R77	5.9 ± 0.4	MS/S	2019, 2020
Dyna-Gro	WX20731	5.2 ± 0.6		2020	Pioneer - Corteva	XW17L	4.8 ± 0.5	MR/MS	2019
Dyna-Gro	WX20737	5.8 ± 0.6		2020	ProHarvest	ProHarvest286	4.2 ± 0.5	MR/MS	2019
FS Wheat	FS 599	4.9 ± 0.4	MR/MS	2019, 2020	ProHarvest	ProHarvest317	4 ± 0.5	MR/MS	2019
FS Wheat	FS 601	6.1 ± 0.4	MS/S	2019, 2020	ProSeed Genetics	PRO410	7.2 ± 0.5	S	2019
FS Wheat	FS 603	4.8 ± 0.4	MR/MS	2019, 2020	USG	3230	9 ± 0.6	S	2020
FS Wheat	FS 604	2.9 ± 0.4	MR	2019, 2020	USG	3316	4.8 ± 0.6	MR/MS	2020
FS Wheat	FS 616	6.2 ± 0.6	MS/S	2020	USG	3329	5.8 ± 0.4	MS/S	2019, 2020
FS Wheat	FS 624	6.5 ± 0.4	MS/S	2019, 2020	USG	3404	4.4 ± 0.5	MR/MS	2019
FS Wheat	WX20A	3.4 ± 0.6	MR	2020	USG	3536	4.5 ± 0.5	MR/MS	2019
FS Wheat	WX20B	4.4 ± 0.6	MR/MS	2020	USG	3539	-		
FS Wheat	FS 615	4.7 ± 0.5	MR/MS	2019	Susceptible Check	Pioneer 25R47	7.1 ± 0.4	S	2019, 2020
FS Wheat	WX19A	6.1 ± 0.5	MS/S	2019	Moderate Res Check	IL07-4415	3.7 ± 0.4	MR	2019, 2020
FS Wheat	WX19B	7.3 ± 0.5	S	2019	Resistant check	IL02-18228	2.3 ± 0.4	MR	2019, 2020
<b>Test Average</b>									
<b>5.5</b>									

\*The test nursery was inoculated and mist irrigated. Three replications were evaluated.

FHB ratings are standardized.

\*Score 1-9 is an FHB resistance score based on the average of incidence, severity, kernel quality index (ISK) and Deoxynivalenol (DON). The mean ± the standard error is given to indicate the level of uncertainty in the score.

For varieties phenotyped in 2019, actual DON observations were used, for all others predicted DON values were used.

\*\*Resistance categories were assigned based on the distribution of the resistance scores. The best 33.3% were considered moderately resistant (MR), the middle 33.3% were considered moderately susceptible (MS), and the worst 33.3% were considered susceptible (S).

Multiple scores given per variety separated by '/' were given to account for uncertainty due to experimental error. For varieties that could not be classified into two or fewer categories with a high level of confidence, the resistance category was left blank.