

Table 1. Southern Illinois regional wheat variety trial results, 2024

Company	Variety	ST ¹	Regional Average				Belleville		Elkville		St. Peter				Fusarium Head Blight ⁴	
			Yield	Yield	Test	Height	Yield	Test	Yield	Test	Yield	Test	Maturity	Jointing	Score	Category
				Rank	wt.			wt.		wt.		wt.				
			bu/ac	1 to 63	lb/bu	in.	bu/ac	lb/bu	bu/ac	lb/bu	bu/ac	lb/bu	days after earliest variety	category: E, M or L	1 to 9	MR, M, MS, or S
AgriMAXX	503	G	**	**	**	34.5	**	54.2	**	**	114.3	56.7	4	M	3.1	MR
AgriMAXX	505	G	103.3	39	57.7	34.4	89.4	55.9	114.5	58.8	106.0	58.1	5	M	4.6	M
AgriMAXX	513	G	110.4	13	56.8	33.7	93.8	54.8	127.7	58.3	110.6	57.5	4	L	4.9	M
AgriMAXX	514	G	104.1	38	55.4	35.1	93.1	54.3	117.3	56.4	102.1	55.1	7	M	3.7	M
AgriMAXX	516	G	106.9	25	56.8	34.4	89.9	55.4	114.6	56.9	115.3	58.0	6	M	3.9	M
AgriMAXX	525	G	108.4	19	56.2	33.2	86.3	54.6	121.9	56.9	116.9	57.0	6	M	5.6	MS
AgriMAXX	545	G	112.3	9	55.4	34.1	86.4	53.4	126.2	56.2	123.8	56.9	6	M	5.7	MS
AgriMAXX	EXP 2312	G	102.0	45	56.5	31.7	82.3	54.0	117.2	58.3	106.7	57.3	7	M	4.2	M
AgriMAXX	EXP 2314	G	106.0	30	55.8	33.7	83.5	53.7	119.3	56.9	115.0	56.7	6	M	5.0	MS
AgriMAXX	EXP 2405	G	108.0	20	55.6	33.7	89.6	54.4	122.9	56.6	111.7	55.5	8	M	4.2	M
AgriPro	GP 305	C	92.9	61	53.3	31.7	73.4	50.9	115.0	55.1	91.8	53.9	2	M	7.6	S
AgriPro	GP 381	C	106.3	29	56.7	30.9	87.3	55.8	115.4	56.4	115.4	57.7	3	M	6.0	MS
AgriPro	GP 463	C	102.4	41	55.9	32.2	92.6	54.8	110.6	55.6	109.6	57.2	4	M	4.6	M
AgriPro	GP 543	C	100.8	52	55.0	33.0	81.7	53.1	115.1	55.9	106.0	56.2	5	M	5.4	MS
AgriPro	GP 747	C	100.1	54	53.0	35.6	80.3	50.7	116.4	55.5	104.0	52.7	8	M	6.8	MS
American Organic	Erisman AM	none	94.1	60	57.9	33.7	78.2	56.5	100.2	57.8	102.7	59.4	0	M	3.0	MR
Baird Seed	BW-322		104.4	36	58.6	37.9	80.1	57.4	120.8	58.3	111.2	59.9	4	M	3.7	M
Bio-Town Seeds	D423W	C	111.2	11	55.3	34.5	91.1	53.2	123.7	55.9	118.7	57.0	3	M	3.7	M
Bio-Town Seeds	D506W	C	100.8	51	53.7	33.8	76.0	50.9	115.3	55.5	111.0	55.1	7	M	4.2	M
Bio-Town Seeds	DXW2320	C	105.4	32	55.9	34.7	83.8	54.0	117.9	56.6	114.2	57.1	7	M	4.2	M
Bio-Town Seeds	DXW2324	C	106.8	26	55.1	32.3	78.4	52.7	119.9	56.9	121.3	55.8	8	L	5.8	MS
Bio-Town Seeds	DXW2325	C	109.9	14	55.6	34.0	89.4	53.9	121.7	56.6	118.2	56.2	6	M	4.0	M
Dyna-Gro	9120	G	102.1	44	58.0	34.1	88.9	56.5	112.9	58.7	104.5	58.5	7	M	5.1	MS
Dyna-Gro	9151	G	106.4	27	57.6	34.8	90.2	55.9	120.0	58.4	109.4	58.4	5	M	4.1	M
Dyna-Gro	9172	G	107.3	24	57.0	34.4	88.6	55.5	119.9	57.3	113.2	58.0	7	M	4.1	M
Dyna-Gro	9231	G	113.3	4	57.1	36.9	92.0	55.0	124.9	58.2	122.6	58.1	5	M	4.7	M
Dyna-Gro	9290	G	101.2	49	57.0	34.6	84.9	55.7	113.1	57.0	105.3	58.1	0	E	5.8	MS
Dyna-Gro	9422	G	112.5	7	55.5	35.6	93.9	53.7	122.9	56.1	120.2	56.8	4	M	5.5	MS
Dyna-Gro	9533	G	115.8	1	54.8	30.4	87.5	53.2	129.1	55.4	127.7	55.7	6	M	4.0	M
Dyna-Gro	9542	G	109.0	15	55.9	33.5	88.8	54.4	124.6	56.9	113.9	56.1	7	L	3.8	M
Dyna-Gro	9551	G	107.7	22	54.6	32.6	93.8	52.7	117.5	55.1	111.5	56.1	3	M	6.3	MS
Dyna-Gro	9553	G	108.5	18	55.2	33.6	83.3	53.3	126.2	56.2	116.3	56.0	7	M	5.8	MS
Dyna-Gro	9570	G	112.5	6	55.5	34.7	92.4	53.8	127.8	56.1	117.6	56.6	3	L	6.0	MS
Dyna-Gro	9593	G	106.3	28	56.0	34.6	80.1	54.2	125.5	56.8	114.2	57.3	8	M	4.3	M
FS InSPIRE	FS 597	G	103.2	40	57.2	34.5	91.7	55.6	112.5	57.7	105.3	58.2	1	E	4.6	M
FS InSPIRE	FS 600	G	108.7	16	57.6	34.9	91.4	56.0	120.6	58.5	114.0	58.4	5	M	5.4	MS
FS InSPIRE	FS 606	G	102.2	43	58.8	34.1	70.6	56.8	115.3	59.8	117.0	59.9	5	M	2.3	MR
FS InSPIRE	FS 617	G	105.4	31	56.7	35.2	78.0	54.5	125.2	57.9	113.6	57.8	6	L	5.7	MS
FS InSPIRE	FS 624	G	101.5	47	56.8	36.4	80.9	55.2	123.1	57.7	102.0	57.3	4	M	7.7	S
FS InSPIRE	FS 743	G	111.2	10	57.5	37.0	92.2	55.5	122.2	58.7	118.8	58.2	2	M	##	##
FS InSPIRE	FS 745	G	113.2	5	57.2	34.1	98.9	55.7	123.6	57.9	116.9	58.0	7	M	4.2	M
FS InSPIRE	FS WX24A	G	102.3	42	56.3	32.6	85.9	53.6	116.7	58.3	104.6	57.0	5	M	##	##
FS InSPIRE	FS WX24B	G	100.7	53	54.2	33.8	82.6	52.3	104.6	54.4	113.5	56.2	6	M	4.6	M
FS InSPIRE	FS WX24C	G	112.4	8	56.6	32.4	90.9	55.0	126.8	56.9	119.6	58.0	8	M	4.5	M
Hoffman Seed House	H7W21	C	107.7	21	54.6	32.5	88.1	53.0	120.2	54.6	114.8	56.0	4	E	9.1	S
Hoffman Seed House	H7W24	C	87.6	62	58.9	31.9	75.0	58.1	97.5	58.6	92.0	59.9	2	E	3.3	MR
Hoffman Seed House	H7W30	C	97.6	55	54.4	34.0	78.0	52.1	116.2	55.9	99.3	55.1	8	E	3.3	MR
Kitchen Seed	KSC 420W	G	94.2	59	53.9	32.9	78.4	52.2	114.5	55.5	92.5	54.1	7	E	4.2	M
Kitchen Seed	KSC 423	G	104.9	34	59.2	34.3	75.5	57.2	116.3	60.2	119.1	60.2	4	L	1.6	MR
KWS Cereals USA	KWS397	C	110.6	12	55.6	34.1	86.8	54.6	123.5	55.5	121.2	56.4	3	E	4.8	M
KWS Cereals USA	KWS490	C	114.5	2	56.7	32.1	96.2	55.2	131.2	57.3	116.5	57.6	7	M	4.1	M
KWS Cereals USA	KWS500	C	101.3	48	56.1	32.2	79.9	54.2	110.9	57.0	112.2	57.1	6	E	5.5	MS
KWS Cereals USA	KWS501	C	101.7	46	55.3	33.3	78.3	53.4	115.8	56.9	110.9	55.6	8	M	4.7	M
KWS Cereals USA	KWS525	C	95.5	58	54.2	33.4	81.5	52.4	114.6	55.6	91.5	54.6	9	M	5.7	MS
KWS Cereals USA	KWS527	C	107.4	23	56.1	34.5	87.9	54.3	120.8	57.2	113.5	56.9	8	M	4.8	M
KWS Cereals USA	KWS529	C	97.4	56	52.9	32.7	70.9	51.0	112.3	53.3	106.8	54.5	5	E	5.0	MS
KWS Cereals USA	KWS542	C	108.6	17	57.8	35.1	91.4	55.6	116.8	59.4	116.6	58.5	6	M	2.7	MR
KWS Cereals USA	KWS543	C	104.2	37	56.1	34.2	81.4	54.4	119.5	57.2	111.7	56.7	7	M	3.7	M
Pioneer	25R65	C	113.3	3	54.4	34.7	86.3	52.1	130.0	55.4	123.5	56.1	5	M	4.1	M
Pioneer	25R74	C	104.6	35	55.3	32.3	89.8	53.4	115.0	56.0	108.6	56.4	6	M	5.4	MS
Pioneer	25R76	C	100.8	50	55.7	33.5	80.3	53.6	113.1	56.5	108.9	57.2	5	M	4.8	M
Virginia Tech	16VDH-SRW03-023		105.0	33	55.3	33.9	85.6	52.7	117.1	56.8	112.3	56.6	3	M	6.8	MS
Virginia Tech	VA19FHB-36		95.8	57	57.1	35.6	77.0	55.4	116.0	57.7	95.6	58.3	5	E	5.3	MS
	Trial Mean		105.0		56.0	33.9	85.2	54.2	118.5	56.9	111.4	57.0	5		4.8	
	LSD		3.8		0.4	0.9	6.3	0.7	6.2	0.8	5.8	0.7	2.4		2.5	
	CV		12.9		2.2	6.1	5.4	0.9	4.2	1.0	4.1	1.1	1		36.0	

*,- Varieties missing due to deer feeding

Variety missing in trial. This occurred in the Fusarium Head Blight nursery due to late arrival of seed.

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

²Varieties were evaluated for the date when they reached maturity. The maturity date relative to the earliest variety, Erisman, is reported. Higher values mean later maturity and lower values mean earlier maturity. A value of zero indicates that the variety matured at the same time as Erisman.

³Varieties were evaluated for the timing of jointing and classified into categories: E= early, M=medium, L=Late. Jointing begins at Feekes growth stage 6 and marks the beginning of more rapid growth and increased vulnerability to freeze damage. Varieties that are classified as E, jointed at a time when hard freezes are probable. Varieties that are classified as M, jointed at a time when hard freezes are possible, but unlikely. Varieties classified as L, jointed at a time when hard freezes are highly unlikely.

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 30 minutes. Ratings for each variety are based on expected vomitoxin levels under FHB epidemic conditions. Ratings are expressed on a 1 to 9 scale with 1 being the best (lowest vomitoxin) and 9 being the worst (highest vomitoxin). Varieties with ratings 3.4 or lower are considered at least moderately resistant to FHB. MR= Moderately Resistant, which is the highest level of resistance available, M= Intermediate level or resistance, MS= Moderately susceptible, S= Susceptible. Higher levels of resistance provide greater control of the disease. The best control is obtained when moderate resistance is combined with a fungicide at flowering.

Location	Elkville	St Peter	Belleville
County	Jackson	Fayette	St. Clair
Site Location	Click to see map	Click to see map	Click to see map
Host	John and Trent Funk	Russ Schwarm	SIU Belleville REC
Soil type	Hurst silt loam	Hoyleton silt loam	Winfield silt loam
Planting date	October 9, 2023	October 11, 2023	October 12, 2023
Harvest date	June 15, 2024	June 14, 2024	June 12, 2024

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

Latitude	37.8757121	38.8975556	38.5156111
Longitude	-89.1493338	-88.8575833	-89.8435833