2026 Arkansas Wheat Quick Facts

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2025 Facts:

- 85,000 acres harvested
- 62 bushel/acre state average
- 71.9 bushel/acre WRVP average
- Average dates in 2024-25 WRVP
 - o Planting: October 17
 - o Harvest: June 23
- 60 lbs = 1 bu, 13.5% moisture is dry

Growth and Development:

Description of Vegetative Stages				
Stage	Feekes GS #	Description		
Germination	1	Emergence through the 3-leaf		
and seedling		stage.		
Tillering	2 – 4	Tillering begins. The 4th leaf		
		is on the first tiller.		
	5	Tillering ends, plants start		
		upright growth.		
Jointing	6	First node visible at the base		
		of the stem.		
	7	Second node visible		
	8	Flag leaf visible, still rolled up.		
		Spike is beginning to swell.		
	Description of Re	eproductive Stages		
Stage	Feekes GS #	Description		
Boot	9	Ligule of the flag leaf is just		
	10	visible.		
		Flag leaf sheath is completely		
		out. Spike swollen but not		
		visible (full boot).		
Heading	10.1 - 10.5	First spikes just visible to all		
		spikes out of the sheath (full		
		heading).		
	10.5.1	Beginning of flowering.		
	10.5.4	Flowering over, kernel watery		
		ripe.		
Ripening	11.1 – 11.3	Grain progresses from milk to		
		soft dough to hard dough.		
	11.4	Ripe for cutting, straw dead.		

Seeding:

• Plant seed between 1 to 1.5 inches deep

- Seeding rate should be 26 seed/ft² with a grain drill under ideal conditions. Increase seeding rate if planting no-till, late, or broadcast.
- 26 seeds/ft² = 1.13 million seeds/acre

Pounds of Seed Planted - Seed Rate by Seed Size

	S	Seeds per Square Foot			
	25	30	35	40	
Seeds/lb	1	Pounds of Seed/Acre			
10,000 (large seed)	109	131	152	174	
12,000	91	109	127	145	
14,000 (average size)	78	93	109	124	
16,000	68	82	95	109	
18,000	61	73	85	97	
20,000 (small seed)	54	65	76	87	

Grain Drill Calibration - Seeds per foot of row

Grain Drin Cambration - Seeds per 100t of 10w							
	Seeds per Square Foot						
Grain Drill Row Width	25 30 35 40						
	See	Seeds per Drill Row Foot Needed					
6 inches	13	15	18	20			
7.5 inches	16	19	22	25			
8 inches	17	20	23	27			
10 inches	21	25	29	33			

Recommended Planting Dates for Arkansas

Region	Planting Date	
North Arkansas	October 1 – November 1	
Central Arkansas	October 10 – November 10	
South Arkansas	October 15 – November 20	

Determining Final Plant Stands:

- Count the number of plants in one ft² in at least 10 random locations in the field.
- Desired stand is >20 plants/ft².
- With good tillering and uniform stand, 10 plants/ft² can give optimum yields.

Seed Treatments:

 Systemic seed insecticides for control of Hessian fly and aphids to control Barley Yellow Dwarf Virus are generally not recommended unless planting early. Systemic seed-applied fungicides are recommended to control loose smut and seedling pathogens

Weed Control: Refer to MP44 for the latest Rec's

- Ryegrass resistance confirmed to Group 1
 (Axial, Select Max), Group 2 (Powerflex,
 Osprey), and Group 9 (Glyphosate) Herbicides.
- Resistant ryegrass infestations require a program approach. This includes tillage/herbicide of the first "flush" of ryegrass, followed by a sequential program of Axiom, Axiom + Prowl, or Zidua/Anthem Flex in fall, followed by Axial Bold in spring. Residuals are key! One year of fallow without allowing seed production typically reduces the soil seed bank by 95%.

Timing for Common Wheat Herbicides

Herbicide	Timing	Remarks
Finesse 75 DF	Immediately	Only follow with STS
	after planting	soybeans.
	for ryegrass	
Axiom 68 DF	Spike to 2-leaf	Plant a metribuzin
	wheat.	tolerant variety. Seed
		wheat 1 inch deep or
		more. No aerial
		applications.
Axial Bold 0.69 EC	2-leaf to pre-	60-day PHI. Do not
	boot wheat, 1-	tank mix with 2,4-D.
	leaf to 2-tiller	
	ryegrass.	
Osprey 4.5 WDG	Emergence to	See label for N
	jointing on	restrictions.
	wheat. 4-leaf to	
	2-tiller ryegrass.	
Prowl H ₂ O 3.8 CS	1-leaf to 4 tiller	Plant seed 0.5 to 1.0
	wheat.	inch deep.
PowerFlex HL 13	3-leaf to jointing	See label for N
DG	wheat.	restrictions.
2,4-D amine or LV	In spring	Apply when
esters	between tiller	temperatures are
	completion and	above 60°F and no
	jointing stage.	rain for 12 hours.

Harmony Extra 50	2-leaf to prior to	Wild garlic 6"-12" tall.
SG	flag leaf	
	emergence.	
Zidua 4.17 SC/	Delayed PRE to	Seed wheat >0.5 inch
Anthem Flex 4.0	4 tiller wheat.	deep; must be
SE		germinated.
Quelex 20 DF	2 leaf to flag leaf	60-day PHI. Only 1
	emergence.	application per year.

Disease Management:

- Varieties resistant or moderately resistant to Fusarium head blight (scab), bacterial streak, leaf rust, and stripe rust should be planted.
- Fungicides should be applied when disease is present or when weather conditions favor disease development.
- Effective fungicide application for scab must be made prior to disease development. The timing of the application is critical (beginning of flowering up to 5 days after).
 Refer to http://www.wheatscab.psu.edu/ for the estimated scab pressure at flowering for your area.
- Refer to MP 154 for the latest fungicide recommendations.

Timings and Efficacy for Selected Wheat Fungicides against Stripe Rust (SR) Leaf Rust (LR) and Scab

Fungicide	Pre-harvest	Rating*		
	intervals (PHI)	SR	LR	Scab
Propiconazole	Not after Feekes 10.5	VG	VG	Р
Delaro**	Not after Feekes VG VG 10.5, 35-day PHI.		NL	
Aproach Prima**	45-day PHI	E	VG	NR
Quilt Xcel**	Not after Feekes E 10.5.4.		E	NL
Stratego YLD**	Not after Feekes 10.5, 30-day PHI.	VG	VG	NL
Prosaro Pro	30-day PHI.	E E G		G
Sphaerex	30-day PHI.	Е	Ε	G
Absolute Maxx SC**	35-day PHI.	VG	Е	NL
Tebuconazole	30-day PHI.	E E		F
Priaxor**	Not after Feekes 10.5.	VG	VG	NL
Trivapro**	Not after Feekes 10.5.4.	E	E	NL

Miravis Ace	Not after Feekes	VG	VG	G
	10.5.4.			
Topguard	Not after Feekes	E	E	NL
EQ**	10.5.4.			
	30-day PHI.			

*Efficacy ratings: NL=Not Labeled; NR=Not Recommended; P=Poor; F=Fair; G=Good; VG=Very Good; E=Excellent. * In situations where varieties are very susceptible, fungicides may not provide expected disease control. ** Products containing strobilurin fungicides can increase deoxynivalenol (DON) levels in grain. Application of these products after Feekes 9 is not recommended.

Insect Control:

Treatment Levels

- Armyworm:
 - 6/ft² in fall, head cutting in spring.
- Grasshopper When damage is occurring.
- Cereal Leaf Beetle 1/ stem.
- Aphids Plant height dependent.
- Refer to MP 144 Insecticide Recommendations for Arkansas for the latest insecticide recommendations and thresholds.

Fertility:

Nitrogen (N) Recommendations:

Soil	Previous	Fall-N	Late-winter	Total-N		
Texture	crop	rate	N rate ¹	rate		
			lb N/acre			
Silt and	Fallow	0	90	90		
sandy	Rice	45	120	165		
loams	All other ²	0	120	120		
Clay and	Fallow	0	140	140		
Clay loams	Rice	45	140	185		
	All other ²	0	140	140		

¹Topdress late-winter N in one or two (3-4 weeks after first application) split applications beginning in early to mid-February.

Pre-plant N Considerations:

Fall-seeded wheat generally does not require N fertilizer for establishment. However, fall-applied N should be considered if wheat is:

1. Late-planted. Consider 30 lb N/acre regardless of previous crop if planted after:

- November 1 for northern Arkansas (north of Hwy 64).
- November 10 for central Arkansas.
- November 20 for southern Arkansas (south of Pine Bluff).
- 2. Wheat following flood-irrigated rice. Apply 45 lb N/acre pre-plant or shortly after planting or crop emergence.

Phosphorus (P) and Potassium (K) Recommendations:

Nutrient	Soil Test	Soil	Production System	
	Level	Test	Winter	Wheat and
		Value	Wheat	Double-
				Crop
				Soybean*
		ppm P	lb P ₂ (O₅/acre
	Very Low	<16	120	130
	Low	16-25	90	100
Phosphorus	Medium	26-35	50	70
	Optimum	36-50	0	0
	Above	≥51	0	0
	Optimum			
		ppm K	lb K₂O/acre	
	Very Low	<61	140	180
	Low	61–90	90	120
Potassium	Medium	91 -	60	80
		130		
	Optimum	131-	0	60
		175		
	Above	≥176	0	0
	Optimum			

^{*}Double-crop wheat P and K fertilizer recommendations include the recommendations for soybeans. The cumulative fertilizer rate can be applied in the fall.

Sulfur (S):

If a field has a history of S deficiency, 20 lb S/ac should be applied in the initial late-winter N application.

Additional wheat production information and copies of this fact sheet are available at:

https://uaex.uada.edu/farm-ranch/crops-commercial-horticulture/wheat/

https://uaex.uada.edu/farm-ranch/crops-commercial-horticulture/verification/

http://www.arkansascrops.uada.edu

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² All other crops include corn, cotton, grain sorghum, and soybeans.