



# Current Report

Cooperative Extension Service • Division of Agriculture • Oklahoma State University

## Performance of Wheat Varieties, Oklahoma - 1982

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Collection

The wheat production season of 1981-82 was one of the wettest in this century. As evidenced by the planting dates of the variety trials, there were two major planting periods in the fall of 1981; early and late. General rains throughout most of October prevented sowing at that time. The only moisture stress of consequence was experienced in April during the stem elongation phase of growth. However, rains received in early May effectively eliminated any severe drought effects except for counties in the western Panhandle and southwestern corner of the state. Regular, general rains continued through both May and June causing a very delayed and difficult harvest.

This report contains the results of 14 farmer-cooperative yield trials and 3 station trials. In no way is this report an endorsement or recommendation of all or any of the varieties tested. The purpose of this farmer-cooperative program is to provide Oklahoma farmers with current and reliable performance data on the varieties which are presently grown or available for use in Oklahoma. When evaluating this data for variety selection it is recommended that specific emphasis be given to the data representing that part of the state in which the variety(s) is to be grown and that multiple year averages be consulted when possible. It would also be wise to keep in mind that such things as planting and harvest date, soil fertility, soil type, tillage methods,

weed and insect control, and amount and timing of rainfall vary location and can strongly influence the results. Some of this information is given in the tables. Varietal description will also be helpful in interpreting these results and are available at all county extension offices in OSU Extension Facts No. 2064.

The off-station trials were sown at approximately 60 lbs per acre, in ten inch rows with a furrow-type drill. Seeding depth was approximately one to two inches. Each plot consisted of 11 rows, sixty feet long.

These data are the results of a cooperative effort between several individual wheat growers, the Oklahoma Agricultural Experiment Station, the Cooperative Extension Service, the Oklahoma Wheat Research Foundation and the Oklahoma Crop Improvement Association.

### STATE AVERAGE YIELD PERFORMANCE FOR FOURTEEN WHEAT VARIETIES GROWN AT SEVENTEEN LOCATION - 1982

Rank	Variety	Yield	Rank	Variety	Yield
1	Vona	51.3	8	Newton	42.6
2	Wings	49.2	9	Centurk 78	42.6
3	DeKalb 573A	48.5	10	TAM W101	42.5
4	TAM 105	46.6	11	Osage	40.4
5	NK 835	46.1	12	Triumph 64	39.4
6	Hawk	45.3	13	Sandy	37.8
7	Payne	44.9	14	Scout 66	36.7

WEST CENTRAL OKLAHOMA

Grain Yield And Test Weight For Wheat Varieties Grown  
In West Central Oklahoma, 1982

Varieties	Elk City		Custer City		Seiling		Regional Average
	Yield (Bu/A)	T.W. (lbs/Bu)	Yield (Bu/A)	T.W. (lbs/Bu)	Yield (Bu/A)	T.W. (lbs/Bu)	
Vona	57.3	56.2	70.3	56.4	37.0	56.0	54.9
DeKalb 573A	64.5	57.0	61.7	56.2	30.1	56.6	52.1
Wings	60.7	57.3	61.2	58.5	28.2	56.4	50.0
NK 835	56.9	57.4	61.1	58.0	30.7	58.0	49.6
Payne	56.4	55.6	57.8	56.0	31.2	55.6	48.5
TAM W101	55.9	56.0	54.8		27.9	55.1	46.2
TAM 105	52.8	56.0	49.3	56.7	36.0	56.2	46.0
Centurk 78	50.7	56.3	48.7	54.9	36.8	57.1	45.4
Osage	53.0	56.2	46.0	53.8	36.1	57.7	45.0
Newton	49.2	54.8	47.2	56.2	30.4	57.4	42.3
Hawk	49.1	56.2	47.0		27.8	56.3	41.3
Sandy	43.7	57.1	39.4	55.9	37.1	57.9	40.1
Scout 66	49.5	56.4	37.6	59.0	30.2	55.9	39.1
Triumph 64	48.4	56.7	44.5	57.4	19.8	56.0	37.6
PL 145			53.3	55.5			
TAM 106			47.4	55.3			
Concho			38.4	53.5			
Average	53.4	56.4	50.9	56.2	31.4	56.6	
L.S.D. (0.05)	3.7		6.2		5.4		
C.V.	4.9		8.6		12.0		
Planted	10/21/81		10/27/81		9/15/81		
Harvested	6/25/82		6/29/82		7/01/82		

SOUTHWEST OKLAHOMA

Grain Yield and Test Weight For Wheat Varieties Grown In  
Southwest Oklahoma, 1982

Varieties	Gould		Frederick		Roosevelt		Altus	Regional Average
	Yield (Bu/A)	T.W. (lbs/Bu)	Yield (Bu/A)	T.W. (lbs/Bu)	Yield (Bu/A)	T.W. (lbs/Bu)	Yield (Bu/A)	
Vona	28.7	59.4	32.5	56.9	58.4	58.8	89.0	52.2
TAM 105	32.2	59.4	31.0	56.5	54.5	58.2	81.9	49.8
Wings	31.4	59.9	27.3	57.2	55.0	59.4	78.9	48.2
DeKalb 573A	26.3	59.4	28.6	57.7	49.0	58.7	86.7	47.7
Payne	21.2	59.1	33.0	57.1	50.2	59.0	85.8	47.6
NK 835	21.6	60.2	28.5	58.5	55.0	60.2	82.8	47.0
Hawk	27.6	58.8	31.7	55.5	49.2	58.6	79.6	47.0
Centurk 78	27.3	60.0	29.4	57.8	59.3	59.2	67.9	45.7
Newton	26.7	60.6	26.6	57.7	48.4	59.2	73.7	43.9
TAM W101	23.6	59.5	31.0	58.8	49.2	60.0	67.6	42.9
Osage	26.0	60.1	25.4	58.6	56.2	60.0	61.3	42.3
Sandy	31.0	60.7	25.8	59.7	48.7	60.2	61.2	41.7
Triumph 64	26.0	60.0	22.4	57.9	49.0	59.6	67.6	41.3
Scout 66	24.2	60.1	26.4	58.6	50.0	59.5	60.3	40.2
PL 145	24.3	59.2	27.6	55.9	49.5	58.3		
NK 812	18.2	57.1	30.1	57.2	48.0	57.7		
TAM 106	27.5	59.3	32.1	57.6				
Concho	31.3	60.5	24.2	58.7				
Average	26.4	59.6	28.5	57.7	51.9	59.2	75.6	
L.S.D. (0.05)	6.5		5.0		7.3		11.4	
C.V.	17.2		12.3		9.9		10.6	
Planted	10/28/81		11/6/81		10/23/81			
Harvested	6/16/82		6/17/82		6/17/82			

EASTERN OKLAHOMAGrain Yield and Test Weight For Wheat Varieties Grown In  
Eastern Oklahoma, 1982

Varieties	Talala		Ada		Regional Average
	Yield (Bu/A)	T.W. (lbs/Bu)	Yield (Bu/A)	T.W. (lbs/Bu)	
Wings	43.1	57.8	42.1	59.3	42.6
NK 835	42.1	60.1	38.5	59.3	40.3
DeKalb 573A	39.9	57.5	35.6	56.0	37.8
Vona	38.3	57.1	34.8	61.4	36.6
Payne	35.0	57.7	35.2	57.0	35.1
Centurk 78	38.1	57.5	28.4	57.7	33.3
Hawk	39.7	56.3	24.6	54.8	32.2
TAM 105	38.3	57.0	25.1	52.9	31.7
Triumph	34.4	58.1	29.4	59.3	31.9
Newton	36.1	58.2	24.1	54.7	30.1
Sandy	38.3	59.1	20.2	57.8	29.3
Scout 66	35.4	59.2	22.4	57.0	28.9
Osage	32.4	58.7	21.8	56.3	27.1
TAM W101	28.6	61.2	24.3	54.5	26.5
NK 812			36.5	59.2	
TAM 106			34.0	55.0	
Coker 6815			32.7	57.3	
PL 145			29.4	54.4	
Average	37.1	58.3	30.0	56.9	
L.S.D. (0.05)		5.2		4.4	
C.V.		10.3		10.4	
Planted	10/1/81		11/17/81		
Harvested	6/21/82		6/18/82		

NORTHWEST OKLAHOMAGrain Yield And Test Weight For Wheat Varieties  
Grown In Northwestern Oklahoma, 1982

Varieties	Woodward	Buffalo		Regional Average
	Yield (Bu/A)	Yield (Bu/A)	T.W. (lbs/Bu)	
TAM 105	54.9	46.7	58.7	50.8
Hawk	56.1	41.8	58.3	49.0
Payne	46.4	51.0	59.0	48.7
TAM W101	54.7	42.6	56.3	48.7
Vona	52.0	45.2	57.8	48.6
Newton	51.5	44.2	59.6	47.9
DeKalb 573A	55.5	40.3	58.7	47.9
Wings	52.6	41.8	58.5	47.2
Sandy	42.9	47.9	58.2	45.4
Centurk 78	41.7	47.9	59.0	44.8
NK 835	41.2	39.1	58.4	40.2
Triumph 64	45.5	39.3	59.2	42.4
Scout 66	41.4	43.2	58.9	42.3
Osage	38.7	42.6	58.9	40.7
HW 1001	52.7		58.1	
Average	48.5	43.8	58.5	
L.S.D. (0.05)	10.7	5.9		
C.V.	15.4	9.5		
Planted	9/14/81	9/04/81		
Harvested	7/01/82	6/30/82		

