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State and Regional Performance of Wheat Varieties, Oklahoma, 1979-83

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This report is a summarization of grain yield data obtained from the state wheat variety trials for the past five years, 1979-1983. To assist the farmer in using these data in variety selection, the state has been divided into six reporting regions (see map). During this time period, 23 pure line varieties and 8 hybrids have been tested at 125 locations. Specific testing sites changed, in some cases, but the total sites per region remained relatively stable. Only varieties or hybrids that were grown at all locations in at least two consecutive years were included. The rankings that are provided were determined by a variety's performance relative to all the varieties tested that year. If there was a tie they were given the same rank. The first six varieties, in each table, are listed based on their five year average. The remaining varieties are listed in order of their appearance in the trials.

For further information on specific locations and varieties for each year, see Current Report numbers CR-2056 (1979), CR-2061 (1980), CR-2067 (1981), CR-2070 (1982) and CR-2079 (1983).

Performance and Rank* of Wheat Varieties In Oklahoma from 1979 to 1983.

	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
	----- Bu/A -----							
Vona	58.3 (1)	44.1 (4)	36.1 (8)	49.5 (1)	49.7 (6)	47.4	44.9 (2)	49.6 (1)
TAM W-101	53.9 (4)	44.0 (5)	41.6 (1)	42.8 (8)	45.4 (12)	45.4	43.4 (4)	44.1 (7)
Payne	52.5 (6)	42.9 (6)	36.1 (7)	44.0 (7)	49.2 (8)	44.8	43.1 (5)	46.5 (4)
Newton	54.4 (3)	42.1 (7)	36.5 (6)	42.2 (10)	44.5 (14)	43.7	41.3 (6)	43.3 (9)
Centurk 78	53.5 (5)	40.5 (10)	35.4 (10)	42.6 (9)	45.5 (11)	43.3	41.0 (7)	44.0 (8)
Triumph 64	49.4 (15)	38.3 (13)	34.3 (12)	39.0 (13)	44.8 (13)	41.0	39.1 (8)	41.8 (10)
Scout 66	51.5 (7)	35.1 (16)	35.8 (9)	39.1 (12)	----	40.1**	----	----
Osage	50.1 (11)	37.3 (15)	37.5 (4)	40.0 (11)	----	41.0**	----	----
Sage	47.3 (16)	38.4 (12)	----	----	----	----	----	----
Sturdy	47.6 (15)	38.6 (11)	----	----	----	----	----	----
TAM 105	----	44.8 (3)	41.2 (2)	46.4 (4)	46.5 (10)	----	44.7 (3)	46.4 (5)
Wings	----	45.4 (2)	36.6 (5)	47.8 (2)	49.6 (7)	----	44.9 (1)	48.7 (2)
Rocky	----	42.1 (7)	34.4 (11)	----	----	----	----	----
Texred	----	38.2 (14)	34.1 (13)	----	----	----	----	----
Probrand 835	----	----	----	44.8 (5)	49.8 (5)	----	----	47.3 (3)
Hawk	----	----	----	44.4 (6)	47.7 (9)	----	----	46.0 (6)

Locations:	23	26	25	26	25	125	102	51
Total Varieties Tested:	16	16	14	14	14			

* Ranks are in parentheses
 ** 4 year average (1979-1982)

Performance and Ranks* of Wheat Varieties Grown in North Central Oklahoma, 1979-1983.

Variety	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
	----- Bu/A -----							
Vona	63.0 (1)	44.2 (3)	46.2 (3)	55.4 (1)	54.8 (8)	56.3 (1)	49.6 (2)	55.1 (2)
TAM W-101	59.6 (2)	43.4 (4)	49.1 (1)	45.6 (9)	52.2 (10)	50.5 (2)	47.2 (4)	48.9 (8)
Newton	55.1 (4)	41.9 (7)	46.2 (3)	46.6 (7)	51.5 (13)	48.5 (3)	46.1 (5)	49.1 (7)
Payne	52.4 (5)	42.7 (6)	40.1 (9)	45.1 (10)	57.7 (4)	47.8 (4)	46.1 (5)	51.4 (6)
Centurk 78	52.4 (5)	35.9 (12)	44.0 (5)	42.9 (11)	50.4 (14)	45.2 (5)	42.6 (6)	46.7 (9)
Triumph 64	51.5 (7)	35.6 (13)	37.8 (12)	41.2 (13)	51.8 (12)	43.8 (6)	41.1 (7)	46.5 (10)
Scout 66	49.2 (11)	31.4 (16)	42.1 (8)	40.7 (14)	----	41.1**	----	----
Osage	46.2 (13)	32.8 (14)	43.3 (7)	42.0 (12)	----	41.0**	----	----
Sage	45.9 (14)	32.7 (15)	----	----	----	----	----	----
Sturdy	52.3 (6)	38.4 (9)	----	----	----	----	----	----
TAM 105	----	43.2 (5)	47.4 (2)	50.9 (5)	52.6 (9)	----	48.0 (3)	51.8 (5)
Wings	----	45.3 (1)	43.5 (6)	53.9 (2)	58.5 (2)	----	49.8 (1)	56.2 (1)
Rocky	----	37.4 (10)	40.1 (9)	----	----	----	----	----
Texred	----	36.5 (11)	38.7 (11)	----	----	----	----	----
Probrand 835	----	----	----	45.8 (8)	58.4 (3)	----	----	52.1 (4)
Hawk	----	----	----	52.6 (4)	51.9 (11)	----	----	52.3 (3)

Locations:	8	7	5	5	5	30	22	10
Varieties Tested:	16	16	14	15	14			

* Ranks are in parentheses
 ** 4 year average (1979-1983)

Performance and Ranks* of Wheat Varieties Under Dryland Conditions in Northwest Oklahoma, 1979 to 1983.

Variety	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
----- Bu/A -----								
Newton	53.5 (4)	39.9 (5)	21.5 (9)	41.0 (7)	44.2 (6)	38.4 (1)	37.2 (3)	42.8 (4)
TAM W-101	47.2 (12)	41.0 (4)	27.1 (1)	37.9 (11)	41.6 (11)	38.0 (2)	37.3 (2)	40.0 (8)
Payne	46.3 (13)	34.8 (9)	23.5 (6)	44.9 (1)	43.5 (3)	37.9 (3)	37.2 (3)	44.1 (2)
Centurk 78	51.8 (6)	33.8 (11)	23.8 (4)	41.8 (4)	44.1 (7)	37.6 (4)	36.5 (5)	43.1 (3)
Vona	48.8 (10)	34.4 (10)	19.6 (11)	41.6 (5)	43.2 (9)	36.3 (5)	35.4 (6)	42.5 (5)
Triumph 64	50.2 (7)	32.5 (12)	21.2 (10)	34.1 (14)	38.5 (13)	33.4 (6)	32.1 (7)	36.6 (10)
Scout 66	54.3 (2)	35.9 (7)	25.2 (2)	41.4 (6)	----	36.2**	----	----
Osage	53.5 (4)	35.9 (7)	23.9 (3)	40.4 (8)	----	35.4**	----	----
Sage	51.2 (6)	----	----	----	----	----	----	----
Sturdy	41.0 (14)	32.0 (13)	----	----	----	----	----	----
TAM 105	----	43.2 (2)	23.9 (3)	43.7 (2)	46.9 (1)	----	40.0 (1)	45.5 (1)
Wings	----	39.7 (6)	22.6 (8)	40.3 (9)	42.8 (10)	----	36.8 (4)	41.7 (6)
Rocky	----	41.1 (3)	23.7 (5)	----	----	----	----	----
Texred	----	29.6 (14)	17.9 (13)	----	----	----	----	----
Probrand 835	----	----	----	35.1 (13)	42.8 (10)	----	----	39.5 (9)
Hawk	----	----	----	35.8 (12)	45.2 (4)	----	----	41.2 (7)

Locations: 1 3 3 3 4 14 13 7
 Varieties Tested: 16 16 14 14 14

* Ranks are in parentheses
 ** 4 year average (1979-1982)

Performance and Ranks* of Wheat Varieties Under Irrigation at Goodwell, Oklahoma, 1979 to 1983.

Variety	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
----- Bu/A -----								
TAM W-101	86.1 (13)	68.8 (1)	94.1 (2)	87.9 (8)	90.5 (5)	85.5 (1)	85.3 (2)	89.2 (3)
Vona	98.6 (2)	63.3 (6)	67.7 (6)	91.3 (4)	86.1 (9)	81.4 (2)	77.1 (3)	88.7 (4)
Payne	87.8 (12)	51.6 (10)	71.3 (5)	88.7 (5)	86.2 (8)	77.1 (3)	74.5 (5)	87.5 (5)
Newton	99.9 (1)	56.1 (10)	56.6 (10)	88.1 (7)	80.4 (13)	76.2 (4)	70.3 (7)	84.3 (7)
Centurk 78	92.8 (6)	56.2 (9)	56.6 (10)	88.4 (6)	76.1 (14)	74.0 (5)	69.3 (8)	82.3 (10)
Triumph 64	75.2 (16)	67.5 (3)	53.6 (13)	85.2 (10)	82.0 (12)	72.7 (6)	72.1 (6)	83.6 (8)
Scout 66	94.2 (3)	51.9 (15)	59.4 (8)	79.5 (13)	----	71.3**	----	----
Osage	90.5 (8)	58.5 (8)	78.9 (4)	84.8 (11)	----	78.2**	----	----
Sage	93.3 (5)	61.8 (7)	----	----	----	----	----	----
Sturdy	78.0 (15)	52.5 (14)	----	----	----	----	----	----
TAM 105	----	67.6 (2)	103.3 (1)	92.1 (3)	87.0 (7)	----	87.5 (1)	89.6 (1)
Wings	----	64.3 (4)	54.9 (11)	94.8 (2)	84.2 (10)	----	74.6 (4)	89.5 (2)
Rocky	----	54.4 (12)	54.4 (12)	----	----	----	----	----
Texred	----	55.1 (11)	58.4 (9)	----	----	----	----	----
Probrand 835	----	----	----	87.0 (9)	87.6 (6)	----	----	87.3 (6)
Hawk	----	----	----	82.9 (12)	82.9 (11)	----	----	82.9 (9)

Varieties Tested: 16 16 14 14 14

* Ranks are in parentheses
 ** 4 year average (1979-1983)

Performance and Ranks* of Wheat Varieties Grown in Southwest Oklahoma, 1979 to 1983.

Variety	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
----- Bu/A -----								
Vona	48.2 (1)	42.1 (5)	28.3 (13)	49.6 (1)	44.2 (7)	43.2 (1)	41.8 (3)	47.4 (1)
TAM W-101	46.4 (2)	40.5 (9)	36.9 (1)	42.9 (9)	43.0 (8)	42.1 (2)	41.0 (4)	42.9 (7)
Centurk 78	42.4 (6)	45.9 (1) [†]	28.6 (12)	44.7 (6)	42.0 (10)	41.1 (3)	40.9 (5)	43.6 (5)
Payne	44.3 (4)	41.5 (7)	32.3 (6)	43.0 (8)	41.9 (11)	40.9 (4)	40.0 (6)	42.5 (8)
Newton	43.8 (5)	42.3 (4)	33.3 (3)	41.2 (10)	38.5 (14)	40.1 (5)	39.2 (7)	40.1 (10)
Triumph 64	40.0 (9)	37.6 (13)	31.8 (7)	40.3 (13)	41.2 (12)	38.4 (6)	37.9 (8)	40.7 (9)
Scout 66	39.8 (11)	38.3 (12)	33.2 (4)	40.8 (11)	----	38.3**	----	----
Osage	40.0 (9)	39.2 (11)	33.0 (5)	40.4 (12)	----	38.5**	----	----
Sage	38.8 (14)	41.6 (6) [†]	----	----	----	----	----	----
Sturdy	38.7 (15)	35.3 (15)	----	----	----	----	----	----
TAM 105	----	42.1 (5)	35.8 (2)	47.8 (2)	40.7 (12)	----	42.2 (2)	44.8 (4)
Wings	----	43.2 (3)	31.6 (8)	46.5 (4)	47.5 (3)	----	42.6 (1)	46.9 (2)
Rocky	----	43.3 (2)	29.8 (11)	----	----	----	----	----
Texred	----	37.2 (14)	30.3 (10)	----	----	----	----	----
Probrand 835	----	----	----	43.7 (7)	42.9 (9)	----	----	43.4 (6)
Hawk	----	----	----	45.8 (5)	46.3 (6)	----	----	46.0 (3)

Locations:	6	6	5	7	5	29	23	12
Varieties Tested:	16	16	14	14	14			

* Ranks are in parentheses
 ** 4 year average (1979-1982)
 † Average of 5 locations

Performance and Rank* of Wheat Varieties Grown in Central Oklahoma, 1979 to 1983.

Variety	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
----- Bu/A -----								
Vona	61.5 (1)	49.7 (1)	32.7 (8)	54.3 (1)	54.5 (2)	48.1 (1)	46.5 (1)	54.4 (1)
TAM W-101	51.0 (4)	46.2 (6)	38.6 (1)	43.2 (9)	47.2 (11)	44.3 (2)	43.5 (5)	45.5 (6)
Payne	48.3 (13)	48.4 (3)	31.5 (12)	43.6 (8)	54.4 (3)	44.2 (3)	43.7 (4)	49.8 (4)
Centurk 78	50.8 (5)	42.2 (10)	31.4 (13)	39.2 (12)	48.6 (10)	41.1 (4)	39.9 (7)	44.6 (7)
Newton	50.7 (6)	40.6 (13)	33.5 (7)	41.9 (10)	43.7 (14)	40.7 (5)	39.4 (8)	42.9 (9)
Triumph 64	44.3 (15)	40.5 (14)	33.6 (6)	41.4 (11)	46.9 (12)	40.6 (6)	40.1 (6)	44.5 (8)
Scout 66	48.6 (12)	34.1 (16)	32.5 (9)	35.9 (14)	----	36.0**	----	----
Osage	47.1 (14)	40.7 (12)	33.8 (5)	38.0 (13)	----	38.6**	----	----
Sage	50.0 (8)	38.0 (15)	----	----	----	----	----	----
Sturdy	51.2 (3)	46.0 (7)	----	----	----	----	----	----
TAM 105	----	47.4 (5)	36.0 (2)	50.2 (5)	49.9 (9)	----	45.0 (3)	50.0 (3)
Wings	----	47.9 (4)	34.6 (4)	49.6 (6)	53.4 (4)	----	45.4 (2)	51.8 (2)
Rocky	----	45.6 (9)	31.4 (13)	----	----	----	----	----
Texred	----	45.7 (8)	32.3 (10)	----	----	----	----	----
Probrand 835	----	----	----	51.9 (2)	51.7 (7)	----	----	51.8 (2)
Hawk	----	----	----	47.9 (7)	46.7 (13)	----	----	47.2 (5)

Locations:	2	4	5	3	4	18	16	7
Varieties Tested:	16	16	14	15	14			

* Ranks are in parentheses
 ** 4 year average (1979-1982)

Performance and Ranks* of Wheat Varieties Grown in West Central Oklahoma, 1979-1983.

Variety	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
----- Bu/A -----								
Vona	54.5 (1)	44.0 (5)	33.1 (8)	47.5 (1)	39.4 (11)	43.7 (1)	40.8 (1)	43.5 (1)
TAM W-101	54.4 (2)	47.6 (1)	34.6 (3)	41.5 (6)	36.2 (14)	42.6 (2)	39.5 (5)	38.9 (8)
Payne	51.7 (6)	44.7 (4)	32.8 (10)	42.6 (5)	40.5 (7)	42.3 (3)	39.8 (4)	41.6 (4)
Newton	52.7 (4)	43.7 (6)	34.6 (3)	38.2 (10)	39.7 (10)	41.7 (4)	38.7 (6)	39.0 (7)
Centurk 78	53.9 (3)	39.0 (10)	34.1 (5)	39.8 (8)	40.0 (9)	41.5 (5)	38.2 (7)	39.9 (6)
Triumph 64	51.2 (8)	38.3 (11)	32.0 (12)	32.5 (14)	39.2 (12)	38.6 (6)	35.3 (8)	35.9 (10)
Scout 66	48.1 (12)	34.0 (14)	34.3 (4)	35.3 (13)	----	38.2**	----	----
Osage	49.6 (10)	36.5 (13)	35.7 (2)	39.1 (9)	----	40.5**	----	----
Sage	48.1 (12)	36.5 (13)	----	----	----	----	----	----
Sturdy	43.7 (15)	43.6 (7)	----	----	----	----	----	----
TAM 105	----	47.6 (1)	38.7 (1)	40.4 (7)	36.3 (13)	----	40.3 (3)	38.4 (9)
Wings	----	45.7 (3)	33.4 (7)	43.8 (3)	40.9 (6)	----	40.6 (2)	42.4 (2)
Rocky	----	43.2 (8)	34.0 (6)	----	----	----	----	----
Texred	----	37.2 (12)	32.1 (11)	----	----	----	----	----
Probrand 835	----	----	----	43.4 (4)	40.3 (8)	----	----	41.9 (3)
Hawk	----	----	----	37.9 (11)	43.1 (3)	----	----	40.5 (5)
Locations:	4	3	4	4	4	19	15	
Varieties								
Tested:	16	16	14	14	14			

* Ranks are in parentheses
 ** 4 year average (1979-1982)

Performance and Rank* of Wheat Varieties In Eastern Oklahoma from 1979 to 1983.

Varieties	1979	1980	1981	1982	1983	5 YRS 1979-83	4 YRS 1980-83	2 YRS 1982-83
----- Bu/A -----								
Payne	66.8 (1)	41.8 (7)	55.6 (1)	31.0 (5)	45.8 (7) [†]	44.6 (1)	42.2 (3)	36.9 (4)
Vona	49.4 (14)	44.2 (5)	53.5 (3)	31.5 (4)	46.0 (6)	43.4 (2)	42.8 (2)	38.8 (3)
Centurk 78	58.6 (3)	44.8 (4)	49.8 (8)	30.1 (6)	39.0 (13)	41.4 (3)	39.7 (4)	34.6 (6)
TAM W-101	53.4 (11)	42.4 (6)	52.9 (5)	26.4 (10)	37.7 (15)	39.7 (4)	38.3 (6)	32.1 (10)
Triumph 64	54.4 (9)	39.9 (10)	47.9 (9)	28.1 (8)	40.1 (12)	39.5 (5)	38.0 (7)	34.1 (7)
Newton	55.2 (6)	39.6 (11)	43.7 (12)	26.1 (11)	38.7 (14)	37.8 (6)	36.1 (8)	32.4 (9)
Scout 66	60.0 (2)	33.0 (16)	42.1 (13)	25.2 (12)	----	35.8**	----	----
Osage	58.4 (4)	34.1 (15)	46.2 (11)	24.0 (14)	----	36.4**	----	----
Sage	50.5 (13)	37.5 (14)	----	----	----	----	----	----
Sturdy	48.7 (15)	38.0 (13)	----	----	----	----	----	----
TAM 105	----	40.3 (9)	52.5 (6)	27.0 (9)	40.7 (11)	----	38.9 (5)	33.9 (8)
Wings	----	45.5 (3)	54.8 (2)	36.1 (1)	42.3 (10)	----	43.6 (1)	39.2 (2)
Rocky	----	41.0 (8)	46.4 (10)	----	----	----	----	----
Texred	----	39.0 (12)	53.0 (4)	----	45.5 (8)	----	----	----
Probrand 835	----	----	----	35.9 (2)	54.0 (1)	----	----	45.0 (1)
Hawk	----	----	----	28.5 (7)	42.4 (9)	----	----	35.5 (5)
Locations:	1	2	2	3	3	11	10	6
Varieties								
Tested:	16	16	13	14	15			

* Ranks are in parentheses
 ** 4 year average (1979-1982)
 † Payne was at only 2 locations in 1983.

