

Small Grain Variety Yield Comparisons
The University of Arizona Mesa Experiment Farm
R. K. Thompson and B. J. Emery

Table 1. Durum wheat variety yield test data summary from The University of Arizona Mesa Experiment Station in 1981. This replicated test was seeded November 28, 1980 at the rate of 80 lbs per acre and received 220 lbs N per acre in three applications.

Variety	Lodging (%)	Heading date	Plant Height in	Hard Vitreous %	Seed Weight gms/m	Test Weight lbs/bu	Grain ^{1/} Yield lbs/acre
G 5003 (Germaines)	0	3-8	32.3	75.5	58.4	64.0	7550 a
Mexi "S" x Fg "S" (10)	0	3-11	35.0	91.6	56.0	63.0	7489 a
Mexicali 75	0	2-28	33.9	99.0	54.6	63.0	7310 ab
1000 D (WPB)	0	3-23	35.4	100.0	40.4	60.0	7215 ab
Aldura (NK)	Slight	3-10	29.1	99.0	51.0	64.0	7211 ab
Yavaros C79	0	3-12	33.3	88.9	60.7	67.0	7170 abc
WDE-8-17-9 (WPB)	0	3-10	37.4	96.6	43.6	61.0	6956 bcd
Produra (NK)	0	3-3	31.9	99.4	51.9	65.0	6952 bcd
UC 320	0	3-22	37.0	--	--	63.0	6847 bcd
WDE-8-8-13 (WPB)	0	3-24	38.2	98.2	46.5	59.5	6843 bcd
WDE-8-103 (WPB)	Slight	3-13	34.6	99.2	49.0	62.5	6687 cd
Jori 69	0	3-12	33.9	100.0	58.8	65.0	6648 de
WDE-8-4-6 (WPB)	0	3-13	37.0	98.9	45.5	60.5	6135 ef
Cando	0	3-26	37.0	97.2	35.8	60.0	5944 f
UC 304	0	3-26	35.8	96.4	33.5	61.5	5821
Waid	0	3-26	39.8	99.1	34.6	60.0	5570

^{1/}Yields followed by the same letter are not significantly different at the 5% level of probability using Duncan's Multiple Range Test.

Table 2. Bread wheat variety yield test data summary from The University of Arizona Mesa Experiment Station in 1981. This replicated test was seeded November 28, 1980 at the rate of 70 lbs per acre and received 220 lbs N in three applications.

Variety	Lodging (%)	Heading date	Plant Height (in)	Yellow Berry %	Seed Weight gms/m	Test Weight (lbs/bu)	Yield (lbs/acre)
C 78-235	0	3-20	37.8	31.6	39.7	63.0	7675 a
Probred (NK)	0	3-10	29.1	.9	49.4	63.0	7588 a
Westbred 911 (WPB)	0	3-19	29.1	0.0	35.0	62.0	7221 b
SG Y012 (Pioneer)	0	3-11	29.9	.5	48.7	64.0	7169 b
Yecora Rojo	0	3-6	28.7	0.0	44.2	64.0	7136 b
C 61-2	0	3-18	32.7	.2	37.3	61.5	7057 b
SG Y022 (Pioneer)	0	3-10	29.9	.8	45.2	64.0	7057 b
Anza	0	3-17	33.4	5.5	36.3	64.5	7017 bc
C 78-4	0	3-19	29.9	1.6	38.6	61.0	6943 bcd
195-2	0	3-20	29.9	.4	37.7	61.0	6844 bcd
Cajeme 71	0	3-12	32.3	0.0	50.4	63.0	6838 bcd
Probrand 771 (NK)	0	3-16	30.7	0.0	40.5	61.0	6623 cd
Oslo (NAPB)	0	3-14	35.4	0.0	38.9	63.0	6279 d
SG 0100 (Pioneer)	0	3-8	31.9	0.0	39.2	63.5	6105 e
SG 069B (Pioneer)	0	2-28	32.3	0.0	36.4	65.0	6321 ^{2/}
906 R	0	3-1	36.2	0.0	42.3	62.5	6216 ^{2/}

^{1/}Yields followed by the same letter are not significantly different at the 5% level of probability using Duncan's Multiple Range Test.

^{2/}Early varieties with some bird damage and not included in analysis of variance.

Table 3. Barley variety yield test data summary from The University of Arizona Mesa Experiment Station in 1981. This replicated test was seeded November 28, 1980 at the rate of 70 lbs per acre and received 195 lbs N in three applications.

Variety	Lodging (%)	Heading date	Plant Height (in)	Test Weight (lbs/bu)	Grain ^{1/} Yield (lbs/acre)
Prato	2	3-17	37.0	51.0	7377 a
76-15-1	0	3-20	29.9	53.0	7250 a
78-40 (WPB)	0	3-24	35.0	48.0	6921 ab
78-77 (WPB)	0	3-23	33.1	47.0	6870 abc
X-1275 (NK)	0	3-21	35.0	49.0	6805 abcd
Arivat	5	3-13	40.9	49.5	6778 abcd
Gus (WPB)	0	3-22	32.3	50.0	6732 abcd
Sunbar 409 (NK)	0	3-22	33.4	49.0	6673 bcd
X-1248 (NK)	0	3-26	33.3	48.5	6628 bcd
78-78 (WPB)	1	3-19	29.1	48.0	6378 bcde
78-20 (WPB)	0	3-19	28.7	52.0	6304 cde
78-58 (WPB)	0	3-23	33.1	50.0	6277 de
78-29 (WPB)	0	3-21	28.7	50.5	6249 de
E-5	19	3-10	29.1	50.0	5951 ^{2/} e
Signal	80	3-11	33.1	52.0	5941
CM-72	90	3-10	27.9	50.0	5649

^{1/}Yields followed by the same letter are not significantly different at the 5% level of probability using Duncan's Multiple Range Test.

^{2/}Extremely dry at harvest, some head shatter.

Table 4. Hard white wheat variety yield test data summary from The University of Arizona Mesa Experiment Farm in 1981. This replicated test was seeded November 28, 1980 at the rate of 70 lbs per acre and received 220 lbs N in three applications.

Variety	Lodging (%)	Heading date	Plant Height (in)	Test Weight (lbs/bu)	Grain ^{1/} Yield (lbs/acre)
Yecorato 77	0	3-10	28.3	64.0	7221 a
Maya-77-30	0	3-17	34.6	62.5	6999 a
Siete Cerros	0	3-21	37.0	63.0	6980 a
Cel-80-70-30 HR	0	3-20	38.2	63.5	6913 a
Maya 77-50 SW	0	3-8	30.7	63.5	6911 a
Abu Graib #3	0	3-15	35.0	63.5	6879 a
Nacozari 76	0	3-18	34.6	63.0	6865 a
NK 1817	0	3-8	27.5	63.0	6810 a
AKD HR	0	3-7	35.4	64.0	6729 a
Flicker "S"	0	3-25	39.0	62.5	6726 a
Pavon 76	0	3-19	36.2	64.0	6572 a
AZ 521	0	3-17	30.7	62.0	6561 a
Pavon "S"	0	3-18	37.4	64.0	6517 a
Torim 73	0	3-6	28.7	63.5	6498 a
Cel-80-70-71 HR	0	3-18	33.3	62.0	6460 a
Pima 77 SW	0	3-18	35.4	62.5	6366 a

^{1/}Yields followed by the same letter are not significantly different at the 5% level of probability using Duncan's Multiple Range Test.