Entry	Yield (lbs/plot)[1/] Rep 1	Rep 2	Rep 3	Rep 4	Ave. Yield (lbs)	Ht (in)	Bu Wt (lbs)	Crude[2/] Protein (%)	Harvest Moisture (%)	Yield[3/] (lbs/A)
NK Probred	2150	2190	2080	1970	2100	26	64	15.85	7.8	6580a
NK X3940	2090	2050	2040	2110	2070	31	63	15.90	8.7	6480ab
Oslo	2100	2240	1850	2090	2070	31	64	15.33	8.5	6480ab
Cajeme F-71	2010	2010	-	2110	2040	25	64	15.95	7.8	6390abc
Yecora Rojo	2000	2150	2010	1980	2030	22	64	16.53	7.8	6360abc
Nacozari M-76	2150	2050	1810	2060	2020	29	62	15.06	10.9	6320abc
Westbred 911	1700	1990	1890	1900	1870	27	62	14.46	11.4	5850abc
NK771	1840	1820	1750	1980	1850	25	63	15.88	8.3	5790 bc
Super X-66	1890	1850	1660	1850	1810	32	62	14.66	12.7	5680 c
Wesbred 906	1720	1700	1910	1870	1800	26	63	16.72	8.6	5640 c

1/All yields adjusted to 10% moisture.
2/Analyses by Charles W. Weber, Department of Nutrition and Food Science. On an "as is" moisture basis.
3/Means followed by the same letter are not significantly different at the .05 level by the Student-Newman Keuls' Test.

Bread Wheat Demonstration

Robin Grumbles, Extension Agricultural Agent, Mohave County;
David K. Parsons, Assistant Extension Specialist--Field Testing

Spirit Mountain Farms Mohave Valley, AZ

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Elevation: 475 feet

Crop History:

Planted: January 7, 1981
Harvested: June 23, 1981
Seeding Rate: 120 lbs/acre
Previous Crop: Cotton
Insecticide: None

Fertilizer:

Source	Lbs/A	Time of Application	Lbs N/A	Lbs P_2O_5/A
16-20-0	400	Prior to planting	64	80
UN32	110	First irrigation	35	
UN32	110	Second irrigation	35	
UN32	55	Third irrigation	18	
		Total	152	80

Irrigation: 36 acre inches per acre of Colorado River water were estimated to have been applied.

Soil type: Sandy loam

Plot Size: 600 X 12 feet

Soil Analysis:

pH = 7.8 (paste with distilled H_2O);
$EC_e \times 10^3$ = 2.12 (to convert $EC_e \times 10^3$ to soluble salts, multiply $EC_e \times 10^3 \times 700$); Soluble salts = 1484 ppm
N = 13.60 ppm (From CO_2 extraction. Nitrate reported as N. To convert N to NO_3, multiply N x 4.4);
P = 13.40 ppm (CO_2 extraction. Phosphate reported as P. To convert P to PO_4, multiply P by 3.1).
Date of Sample: January 5, 1981 (University of Arizona Laboratory)

Entry	Yield (lbs/plot)[1/] Rep 1	Rep 2	Rep 3	Ave. Yield (lbs)	Ht (in)	Bu Wt (lbs)	Yield (lbs/A)[2/]
Shasta	825	1145	950	973	34	62	5890 a
Germain's 444	835	1020	1010	955	31	64	5780 a
Yecora Rojo	800	1080	955	945	24	64	5720 a
Anza	700	980	1100	926	30	60	5600 a
Westbred 911	940	910	890	913	24	63	5520 a
Oslo	760	1000	940	900	30	62	5440 a
NK's Probred	875	1100	720	898	24	62	5430 a
Cajeme 71	820	1140	710	890	26	61	5380 a
NK's Probrand 771	800	1140	700	880	25	58	5320 a
INIA 66R	800	850	640	763	29	64	4620 a

1/All yields reported at a 10% moisture content.
2/Yields followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keuls' Test.

Small Grain Variety Yield Comparisons
The University of Arizona Mesa Experiment Farm, 1982.

R. K. Thompson and J. L. Bobula

Summary

Replicated yield trials of commercially grown varieties and advanced experimental cultivars were successfully completed in 1982. These trials were seeded in mid-November, 1981 at 75 lbs per acre of barley and bread wheat, and 85 lbs per acre of durum. Total nitrogen fertilization was 210 lbs N per acre in three applications. Normal yields were obtained for this level of fertilization. Bird damage was minimal. Performance of presently grown varieties was verified and prospective new varieties are revealed in the data presented, Tables 1 through 6.

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Table 1. Hard Red bread wheat variety yield test data summary from the Mesa Experiment Farm in 1982.

	Lodging %	Heading date	Plant height in	Yellow berry %	Seed weight gms/m	Test weight lbs/bu	Grain Yield[1/] lbs/A
Westbred 911	2	3-22	33.1	9.0	47.4	63.5	7497 a
Probrand 771	20	3-11	31.9	4.9	43.6	63.0	6959 ab
Probred	13	3-10	31.5	4.4	51.8	64.0	6894 abc
Yolo	2	3-12	35.5	15.3	36.5	65.5	6891 abc
Yecora Rojo	9	3-7	29.9	4.5	45.1	64.0	6802 bc
Anza	18	3-13	33.9	21.5	38.9	65.0	6688 bc
Veery #4	50	3-20	33.9	1.3	37.0	64.5	6626 bc
Oslo	2	3-12	39.4	9.6	40.6	64.5	6565 bcd
Cajeme 71	36	3-11	32.7	2.5	51.3	64.0	6423 bcd
Hermosillo 77	13	3-8	36.2	8.5	43.7	64.0	6348 bcde
WRP-9-4	4	3-7	32.7	6.2	44.9	63.0	6259 cdef
Tanori 71	1	3-6	37.0	3.2	42.3	64.0	5881 def
906 R	2	3-5	36.6	0	43.3	62.5	5696 ef
SGW-069B	1	3-11	35.9	15.4	41.3	65.0	5612 f
SGW-045	0	3-7	32.7	.8	31.0	62.0	5355
ER8/79-77	29	4-6	41.0	6.9	34.5	61.5	3397

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