

Wheat Variety Test

Donald R. Howell, Agricultural Extension Agent, Yuma County; David K. Parsons
Assistant Agricultural Agent - Field Testing and Robert E. Dennis, Extension Agronomist

William Wootton - Tacna Elevation: 280 feet

Variety	Seed Color	Yield ^{3/} (lbs./acre)
Mexicali C75 ^{1/}	Amber	7718 a
Yecora Rojo	Red	7498 b
Cajeme 71	Red	7352 b
Modoc ^{2/}	Amber	6941 c

^{1/}Heavy lodging noted. This created a problem with bird droppings in the threshed grain.

^{2/}All seed planted at 1" depth and irrigated up. The stands of Modoc wheat were poor (estimated to be 50%), due to weak coleoptiles. Seedling emergence of Modoc would have been improved with a planting depth of 1/2 inch.

^{3/}All yield data reported at 7% moisture content. Yields followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keuls' Test.

Crop History: Previous Crop: Lettuce. Soil Texture: Silty loam. Planted: December 29, 1976 at 98 lbs./acre. Fertilizer: Preplant 229 lbs. urea/acre. Water run 27 lbs. NH₃/acre per each of 4 irrigations. Total of 192 lbs. N/acre. Irrigation: Twenty-two acre inches were applied in five irrigations and rainfall accounted for an additional 0.8 inch. Weed Control: Buctril 2 pt./acre applied 2/8/77. Insect Control: None. Harvest: June 18, 1977.

Agri-File Field Crops 254.81

Wheat Variety Test

Charles R. Farr, Maricopa County Agricultural Agent; David K. Parsons,
Assistant Agricultural Agent-Field Testing; Robert E. Dennis, Extension Agronomist

Bogle Farm Elevation: 1200 feet

Entry	Ave. Yield (lbs/plot)	Harvest Moisture %	Height (inch)	Bu. Wt. (lbs.)	Lodging (%)	Yield ^{1/} (lbs/acre)
Mexicali C75	31.4	9.0	36	61.0	10	6839 a
NK Produra	29.9	6.0	34	62.6	7	6512 a
Modoc	28.5	6.4	36	63.8	5	6207 ab
WPB 1000D	25.0	6.4	35	58.1	0	5445 bc
Cajeme 71	24.5	7.4	32	61.9	0	5336 bcd
NK Probred	24.1	7.0	29	61.0	0	5249 bcd
WPB 901-R	23.6	7.7	36	62.0	5	5227 bcd
WPB 903-R	23.1	6.4	40	62.4	5	5031 bcd
WPB 904-R	20.6	6.6	37	58.3	5	4487 cd
Germaines W444	20.1	6.4	35	61.5	5	4378 cd
INIA 66-R	19.5	6.6	37	58.5	1	4247 cd
Zaragoza S75	18.6	6.0	33	58.1	5	4051 d

^{1/}All yields adjusted to 10% moisture. Means followed by the same letter are not significantly different at .05 level by Student-Newman-Keuls' Test.

Crop History: Planted: January 9, 1978. Seeding Rate: 120 lbs/acre. Previous Crop: Cotton.
 Herbicide: None. Insecticide: None. Fertilization: 15T manure. Additional fertilizer:

Source	Nitrogen	Sulfur
Ammonia (100 lbs/A)	83	
Nitrosol (5 gal/A)	9.6	22
Total	92.6	22

Irrigation: Three irrigations of about 6 inches each and about four inches of rain were applied to the crop. Plot Size: 60 x 3.33 feet. Harvested: June 8, 1978.

Agri-File Field Crops 254.99

Wheat Variety Test

Charles R. Farr, Maricopa County Agricultural Agent; David K. Parsons
 Assistant Agricultural Agent-Field Testing and Robert E. Dennis, Extension Agronomist

Henry Brubaker, Agronomist
 Farmers Investment Company, Aguila Elevation: 2000 feet

Variety	Average Yield (lbs./plot)	Moisture (%)	Bu. Wt. (lbs.)	Yellow Berry (%)	Height (inches)	Yield ^{1/} (lbs./acre)
Mexicale C75 ^{2/}	2089	8.4	64	45	36	5512 a
DPL #1	1967	7.8	64	41	36	5190 ab
Cocorit 71 ^{2/}	1944	7.8	63	56	35	5129 ab
Briggs ^{3/}	1887	8.2	47	--	35	4944 abc
Cajeme 71	1840	7.4	64	17	30	4855 abc
NK Kombar ^{3/}	1771	8.0	46	--	33	4673 abc
NK Produra ^{2/}	1747	8.2	64	35	34	4609 bc
Tanori 71	1730	7.2	63	28	36	4586 bc
NK Probred	1720	8.0	64	11	28	4538 bc
WS 3 ^{4/}	1716	7.4	62	56	35	4527 bc
Jupateco 73	1693	7.8	64	36	36	4467 bc
INIA 66R	1678	7.6	65	16	33	4163 bc
Germaines 444	1668	7.8	64	41	35	4401 bc
NK Kombyne ^{3/}	1595	8.6	47	--	26	4208 bc
WS 25	1556	7.4	63	35	38	4105 c
Jori 69 ^{2/}	1540	9.0	63	11	33	4063 c

^{1/}All yield data adjusted to a 10% moisture content. Yields followed by the same letter are not significantly different at the .05 level by Student-Newman-Keuls' Test.

^{2/}Durum type wheat

^{3/}Barley variety

^{4/}High lysine feed wheat

Crop History: Previous Crop: Cotton. Soil Texture: Loam. Soil Analysis: Sampled February 2, 1977; pH = 8.0; EC = .09; N = 6.75 ppm; P = 1.0 ppm; (University of Arizona Lab). Planted: February 2, 1977 at 175 lbs./acre for the wheat and 140 lbs./acre for the barley. Fertilizer:

Source	Time of application	N/acre
NH3	Prior to planting	114
NH3	March 11	74
Total		188

Irrigation: Eight irrigations of six acre inches per acre were applied to the furrows for a total of 48 acre inches per acre. Herbicides: None. Insecticides: None. Plot Size: 12.7 x 1300 feet. Harvested: June 25, 1977.

Agri-File Crops 254.77

Wheat Variety Test

Ron Cluff, Graham County Agricultural Agent; David K. Parsons, Assistant
Agricultural Agent-Field Testing and Robert E. Dennis, Extension Agronomist.

Dennis Layton Elevation: 2900 ft.

	Average ^{1/} Yield (lbs/plot)	Height (inch)	Bu. Wt. (lbs.)	Yield ^{2/} (lbs/acre)
Zaragoza	800	30	62	7740 a
WPB 901R	769	30	64	7450 a
NK Probred	758	30	63	7340 a
Cajeme 71	728	30	63	7050 ab
Super X 66	726	36	64	7030 ab
WPB 903R	725	42	64	7010 ab
Yecora Rojo	709	28	64	6860 ab
WS-6	659	36	62	6380 b
Germaines W444	654	37	64	6330 b

^{1/}All yields adjusted to a 10% moisture content. Harvest moisture for all plots averaged 7.5%.

^{2/}Yields followed by the same letter are not significantly different at .05 level by Student-Newman-Keuls' Test.

Crop History: Planted: January 7, 1978. Seeding Rate: 150 lbs/acre. Previous Crop: Cotton.
Soil Type: Clay Loam. Irrigation: Six irrigations were applied. Insecticides: Thimet. Fertilization:

Source	Lbs/acre	Time of application	Lbs N/acre	Lbs P ₂ O ₅ /acre
16-20-0	300	At planting	48	60
Urea	125	March 15	56	
		Total	104	60

Plot Size: 12 x 375 ft. Harvested: June 27, 1978.

Agri-File Field Crops 254.100

Wheat Variety Test

Ron Cluff, County Director, Graham County; David K. Parsons,
Assistant Agricultural Extension Agent - Field Testing; and Robert E. Dennis, Extension Agronomist

Robert and Paul Haas, Bonita Elevation: 4400 feet

Variety	Average Yield ^{1/} (lbs./plot)	Height (inches)	Bu. Wt. (lbs.)	Lodging (%)	% Harvest Moisture	Yield ^{2/} (lbs./acre)
Super X 66 ^{3/}	1176	29	60	1	9.6	6187 a
TAM W-103	1061	24	59	1	10.0	5582 ab
Centurk	1060	27	60	5	10.0	5577 ab
Nugaines	1046	30	57	0	9.0	5503 abc
Era ^{3/}	1044	29	59	2	9.9	5492 abc
TAM W-101	974	29	59	0	9.6	5124 bc
Caprock	952	32	59	0	9.4	5008 bc
Funks 332	950	30	58	10	9.3	4998 bc
Sturdy	900	32	59	0	9.6	4698 c

^{1/}All yields have been adjusted to a 10% moisture content.

^{2/}Yields followed by the same letter are not significantly different at the .05 level by Student-Newman-Keuls' Test.

^{3/}Super X 66 and Era are spring wheats. All other entries are winter varieties. At this elevation, cold damage to December planted spring wheats is usually severe.

Crop History: Previous Crop: Sorghum. Soil Type: Sandy loam. Soil Analysis: Sampled on February 10, 1977; pH = 6.5; EC = .90; N = 20.0 ppm; P = 0.9 ppm; (University of Arizona Lab). Planted: December 8, 1976 at 140 lbs./acre. Fertilizer:

<u>Source</u>	<u>Lbs./acre</u>	<u>Time of application</u>	<u>Lbs.N/acre</u>	<u>P₂O₅/acre</u>
11-48-0	200	preplant	22.0	96
Urea	250	preplant	112.5	
NH ₃	40	3rd irrigation	32.8	
NH ₃	40	4th irrigation	32.8	
NH ₃	40	5th irrigation	32.8	
<u>Total</u>			232.9	96

Irrigation: Twenty-two acre inches/acre of pumped water were applied to the furrows in eight irrigations. An additional 5 inches fell as rain. Herbicide: None. Insecticide: None. Plot Size: 690 x 12 feet. Harvested: July 19, 1977

Agri-File Field Crops 254.78

Wheat Variety Test

Ron Cluff, Graham County Agricultural Agent; David K. Parsons,
Assistant Agricultural Agent - Field Testing and Robert E. Dennis, Extension Agronomist

Dennis Layton - Solomon Elevation:2900 feet

Variety	Average Yield (lbs./plot)	Bu. Wt. (lbs.)	Height (inches)	Harvest Moisture %	Yield ^{1/} (lbs./acre)
Mexicali C75	720	61	31	8.7	6878 a
Cajeme 71 treated ^{2/}	708	61	23	8.5	6763 a
Super X 66	688	61	31	8.1	6572 a
Tanori 71	685	60	30	8.5	6544 a
Profit 75	674	60	34	8.8	6438 a
Cajeme 71	662	61	23	8.4	6324 a
INIA 66	657	61	28	8.9	6276 a
Zaragoza S75	658	60	23	8.0	6286 a
Germaines W-444	654	61	30	8.7	6247 a
NK Probred	649	61	24	8.6	6190 a
Nk Produra	649	62	30	8.7	6085 a
Yecora Rojo	624	62	23	8.7	5960 a

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

^{2/}Planting seed treated with the fungicide Vitavax at the rate of 3 oz. per 100 lbs. seed.

Crop History: Previous Crop: Cotton. Soil Type: Sandy loam. Planted: December 30, 1976 at 140 lbs./acre. Fertilization:

Source	Lbs./acre	Time of application	Lbs.N/acre	P205/acre
16-20-0	300	At planting,	48	60
Urea	125	half just before first irrigation and half on March 1.	56	
Total			104	60

Irrigation: A total of 4 acre feet/acre. Insecticides: None. Herbicides: None. Plot Size: 380x12 feet. Harvested: July 9, 1977.

Agri-File Field Crops 254.79