

Wheat Variety Test

Don Howell, Robert A. Holman, Extension Agents, Yuma County; David K. Parsons, Assistant Agricultural Agent-Field Testing and Robert E. Dennis, Extension Agronomist

Tom Howell Elevation 280 feet

| Entry | Ave. Yield (lbs/plot) | Harvest ^{1/} Moisture % | Bu. Wt. ^{1/} (lbs) | Yield ^{2/} (lbs/acre) |
|----------------|--------------------------|-------------------------------------|--------------------------------|-----------------------------------|
| Mexicali C75 | 1541 | 6.5 | 64 | 7425 a |
| WPB 1000D | 1504 | 8.3 | 60 | 7250 ab |
| NK Probred | 1472 | 6.1 | 64 | 7095 abc |
| Zaragoza S75 | 1439 | 13.9 | 59 | 6935 bcd |
| Cajeme 71 | 1426 | 6.5 | 63 | 6870 cd |
| Yecora Rojo | 1400 | 6.6 | 64 | 6745 cde |
| WPB 903R | 1394 | 7.0 | 64 | 6715 cde |
| Crane 56M | 1386 | 6.3 | 63 | 6680 de |
| WPB 901 R | 1341 | 11.1 | 61 | 6460 e |
| NK Produra | 1258 | 6.5 | 65 | 6060 f |
| Germaines W444 | 1217 | 6.6 | 63 | 5865 f |

^{1/}Figure shown is the average of measurement from three replications.

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

Crop History: Planted: January 17, 1978. Seeding Rate: 90 lbs/acre. Fertilizer: 180 lbs of N per acre was applied prior to planting. An additional 25 lbs N per acre as ammonia was added in irrigation water. Irrigation: A total of 30" was estimated to have been applied. Plot Size: 16 x 565 feet. Weed Control: MCPA and Banvel were applied between the first and second irrigations. Harvested: July 2, 1978.

Agri-File Field Crops 254.96

Wheat Variety Test

Don Howell, Lewis Davis, Yuma County Agricultural Agents; David K. Parsons, Assistant Agricultural Agent-Field Testing and Robert E. Dennis, Extension Agronomist

Bruce Church Poston Elevation 450 feet

| Entry | Ave Yield (lbs/plot) | Harvest ^{1/} Moisture % | Ht ^{1/} (in) | Lodging ^{1/} (%) | Bu Wt ^{1/} (lbs) | Yield ^{2/} lbs/acre |
|--------------|-------------------------|-------------------------------------|--------------------------|------------------------------|------------------------------|---------------------------------|
| Zaragoza S75 | 1916 | 6 | 36 | 0 | 63 | 7560 a |
| WPB 1000 D | 1879 | 7 | 40 | 1 | 61 | 7415 ab |
| NK Probred | 1833 | 6 | 28 | 2 | 63 | 7230 bc |
| WPB 903 | 1811 | 7 | 38 | 2 | 65 | 7150 c |
| Yecora Rojo | 1798 | 6 | 28 | 2 | 64 | 7090 c |
| Cajeme 71 | 1734 | 6 | 30 | 2 | 63 | 6840 d |
| Mexicali C75 | 1686 | 6 | 36 | 70 | 64 | 6650 d |

^{1/}Figure shown is the average of measurement from three replications.

^{2/}All yields adjusted to 10% moisture. Means followed by the same letter are not significantly different at the .05 level by the Student-Newman-Keuls' test.

Crop History: Previous Crop: Lettuce. Planted: January 1, 1978. Seeding Rate: 100 lbs/acre.
 Herbicide: Buctril. Insecticide: Thimet. Irrigation: Six of about 5 inches each:
 Fertilizer:

| Source | Lbs/acre | Time of application | Lbs N/acre |
|-----------------|----------|---------------------|------------|
| NH ₃ | 100 | Prior to planting | 83.0 |
| NH ₃ | 60 | In germination | 50.0 |
| | | Irrigation | |
| NH ₃ | 60 | First irrigation | 50.0 |
| | | Total | 183.0 |

Plot Size: 20 x 550 feet.
 Harvested June 9, 1978.

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Wheat Variety Test

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 Assistant Agricultural Agent-Field Testing and Robert E. Dennis, Extension Agronomist

Bruce Church, Poston Elevation: 450 feet

| Variety | Average Yield (lbs/plot) | Bu. Wt. (lbs.) | Height (inches) | Moisture (%) | Lodging (%) | Yield ^{1/} (lbs/acre) |
|-----------------------------------|-----------------------------|-------------------|--------------------|-----------------|----------------|-----------------------------------|
| Zaragoza S75 | 1543 | 63 | 34 | 6.7 | 1 | 7501 a |
| Mexicali C75 | 1540 | 62 | 37 | 7.2 | 40 | 7487 a |
| NK D103 | 1528 | 63 | 30 | 6.8 | 0 | 7429 a |
| Cocorit 71 | 1508 | 62 | 29 | 6.8 | 35 | 7331 a |
| NK Probred | 1488 | 64 | 28 | 7.1 | 2 | 7234 a |
| Yecora Rojo | 1464 | 63 | 28 | 7.0 | 4 | 7122 a |
| Cajeme 71 (treated) ^{2/} | 1403 | 64 | 28 | 7.0 | 2 | 6821 ab |
| Cajeme 71 | 1390 | 64 | 28 | 7.2 | 7 | 6758 ab |
| Germaines W444 | 1388 | 64 | 34 | 6.8 | 2 | 6748 ab |
| Tanori 71 | 1376 | 63 | 37 | 7.2 | 3 | 6690 ab |
| WS 6 | 1259 | 60 | 36 | 6.6 | 7 | 6121 b |

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

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

Crop History: Previous Crop: Lettuce. Soil Analysis: Sampled on December 17, 1976; pH = 7.8; EC = 2.06; N = 32.5 ppm; P = 12.1 ppm; (University of Arizona Lab). Planted: December 17, 1976 at 88 lbs./acre. Fertilizer: A total of 220 lbs. of nitrogen per acre was applied. Irrigation: A total of seven irrigations were applied. Weed Control: 2,4-D. Insecticide: None. Plot Size: 560 x 16 ft. Harvested: June 14, 1977.

Agri-File Field Crops 254.80