

WHEAT VARIETY DEMONSTRATION

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CROP HISTORY:

Planted: December 19, 1984
Harvested: May 23, 1985
Seeding Rate: 100 lbs./A
Previous Crop: Fallow
Soil Type: Silt loam

Herbicide: Carbyne 2 applications at 1.5 pints, 1 pint Brominal
Insecticide: None
Irrigation: 20 inches Colorado River Water applied in 4 irrigations
Plot size: 255' X 10'
Fertilizer: 150 lbs. N applied in 3 irrigations

DURUM WHEAT

| VARIETY | HEADING DATE | MATURITY DATE | Ht. (%) | Lodging (%) | Protein (%) | Yellow-berry (%) | YIELD (lbs/plot) | | | | Lbs./A ¹ | |
|-----------|--------------|---------------|---------|-------------|-------------|------------------|------------------|--------|--------|--------|---------------------|--------------------|
| | | | | | | | Rep. 1 | Rep. 2 | Rep. 3 | Rep. 4 | | Avg. |
| Aldura | 3-28 | 5-13 | 30 | 0 | 12.66 | 5 | - | 265 | 400 | 475 | 380 | 6333a ² |
| Mexicali | 3-26 | 5-12 | 34 | 0 | 12.08 | 12 | - | 320 | 400 | 380 | 367 | 6111a |
| Yavaros | 3-27 | 5-10 | 33 | 0 | 11.83 | 12 | 275 | 280 | 395 | 455 | 351 | 5854a |
| WAHA | 3-27 | 5-10 | 32 | 0 | 13.35 | 4 | 300 | 280 | 395 | 400 | 344 | 5729a |
| WPB 881 | 3-27 | 5-10 | 32 | 0 | 13.70 | 0 | 300 | 245 | 405 | 390 | 335 | 5583a |
| Gem | 3-28 | 5-10 | 32 | 0 | 12.39 | 11 | 295 | 255 | 375 | 385 | 328 | 5458a |
| Mexi"s" | 3-28 | 5-10 | 30 | 0 | 11.26 | 7 | - | 305 | 300 | 375 | 327 | 5444a |
| NK 893 | 3-28 | 5-09 | 29 | 0 | 12.72 | 6 | 290 | 260 | 345 | 375 | 318 | 5292a |
| WPB 1000D | 4-03 | 5-14 | 30 | 0 | 13.53 | 9 | 240 | 270 | 255 | 400 | 291 | 4854a |

RED WHEAT

| | | | | | | | | | | | | |
|----------|------|------|----|---|-------|----|-----|-----|-----|-----|-----|--------|
| Glennson | 4-06 | 5-15 | 36 | 0 | 12.33 | 2 | 435 | 400 | 435 | 405 | 419 | 6983a |
| Genaro | 4-04 | 5-14 | 35 | 0 | 12.52 | 0 | - | 435 | 385 | 380 | 400 | 6667ab |
| 8314 | 4-02 | 5-15 | 36 | 0 | 12.82 | 5 | 380 | 365 | - | 435 | 393 | 6550ab |
| 8322 | 4-02 | 5-15 | 34 | 0 | 14.09 | 2 | 385 | 340 | 385 | 430 | 385 | 6417ab |
| WPB 911 | 4-09 | 5-16 | 27 | 0 | 12.25 | 8 | 340 | 400 | 390 | 380 | 378 | 6291ab |
| Yecora | 3-28 | 5-10 | 30 | 0 | 14.89 | 0 | 365 | 400 | 355 | 330 | 363 | 6042ab |
| NK 4236 | 3-28 | 5-14 | 28 | 0 | 12.61 | 22 | 380 | - | 360 | 310 | 350 | 5833b |
| ProBred | 4-02 | 5-10 | 30 | 0 | 13.32 | 0 | 345 | 345 | 340 | 345 | 344 | 5733b |
| Os1o | 3-29 | 5-14 | 35 | 0 | 13.85 | 0 | 365 | 345 | 340 | 325 | 344 | 5733b |

¹ All yields corrected to 10% moisture.

² Yields followed by the same letter are not significantly different at the 5% level by the Student - Newman - Keuls test.

1985 WESTERN PLANT BREEDERS ADVANCED WHEAT YIELD TRIALS

Kim Shantz, Wheat Breeder, WPB
 Jack Hennis, Cooperator, Casa Grande

Elevation: 1500 feet

Crop History:

Planted: Jan. 3, 1985
 Harvested: June 7, 1985
 Seeding Rate: 100 lbs/acre
 Previous Crop: Cotton
 Fertilizer: 200 lbs/acre N
 Plot Size: 80" x 144"

Table 1. Bread Wheats

| Entry | Yield (lbs/plot) | | | | Ave Yield (lbs) | Ht (in) | Lodg- ing% | Yield (lbs/A) |
|------------------------------|------------------|-------|-------|-------|--------------------|------------|---------------|------------------|
| | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | |
| WestBred Turbo ^{1/} | 10.5 | 10.3 | 10.6 | 9.6 | 10.3 | 36 | 0 | 5638 |
| Yolo | 10.8 | 9.1 | 8.9 | 8.8 | 9.4 | 35 | 0 | 5170 |
| P983-103 | 9.5 | 8.8 | 8.6 | 8.8 | 8.9 | 39 | 0 | 4909 |
| Oslo | 9.0 | 8.7 | 8.4 | 9.6 | 8.9 | 40 | 0 | 4909 |
| Yecora Rojo | 8.1 | 9.3 | 9.0 | 8.0 | 8.6 | 27 | 0 | 4730 |
| WestBred 911 | 9.2 | 8.0 | 8.4 | 8.6 | 8.6 | 27 | 0 | 4703 |
| Probrand 771 | 9.3 | 7.3 | 8.2 | 7.3 | 8.0 | 30 | 0 | 4414 |

^{1/}Durum variety.

Table 2. Durum Wheats

| Entry | Yield (lbs/plot) | | | | Ave Yield (lbs) | Ht (in) | Lodg- ing% | Yield (lbs/A) |
|----------------|------------------|-------|-------|-------|--------------------|------------|---------------|------------------|
| | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | |
| WestBred Turbo | 10.1 | 11.0 | 11.7 | 12.0 | 11.2 | 35 | 0 | 6160 |
| Aldura | 10.3 | 10.3 | 11.2 | 11.0 | 10.7 | 28 | 0 | 5885 |
| Yavaros | 10.8 | 10.4 | 10.1 | 10.2 | 10.4 | 33 | 0 | 5706 |
| WestBred 1000D | 9.7 | 10.0 | 11.1 | 10.6 | 10.4 | 32 | 0 | 5693 |
| Mexicali | 10.2 | 10.3 | 10.0 | 10.6 | 10.3 | 36 | 0 | 5651 |
| Lloyd | 9.5 | 9.9 | 10.9 | 8.7 | 9.8 | 32 | 0 | 5363 |
| WestBred 881 | 8.5 | 9.3 | 9.2 | 8.9 | 9.0 | 32 | 0 | 4936 |