

SMALL GRAIN VARIETY YIELD COMPARISONS

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Crop Data

Elevation: 1500 feet
 Previous Crop: Cotton
 Plot Size: 518 X 20 feet
 Seeding Rates: 175 lbs/acre (wheats) 165 lbs/acre (barleys)
 Planting Dates: December 21, 1983 (wheats) December 22, 1983 (barleys)
 Herbicide: None
 Insecticide: Penncap M - 2 pints/Acre, flown on 3/21/84; 3 gal. mix
 Omni Applicators - Aphids.
 Irrigations: 7 for 29.52 acre inches.
 Rainfall: Rainfall contributed an additional 3.81 inches.
 Fertilizer: 4 applications of Trian fertilizer - 216.5 lbs N per acre

Table 1 Durum Wheats

| Entry | Yield (lbs/plot) ¹ | | | | Ave Yield (lbs) | Bu Wt (lbs) | Moist- ture (%) | Yield ² (lbs/A) |
|------------------------------------------|-------------------------------|-------|-------|-------|-----------------------|----------------|-----------------------|-------------------------------|
| | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | |
| Western Plant Breeders WestBred 1000D | 1381 | 1382 | 1372 | 1436 | 1393 | 62 | 8.4 | 5803.2 a |
| Northrup King Aldura | 1358 | 1408 | 1353 | 1441 | 1390 | 64 | 8.4 | 5791.9 ab |
| CIMMYT-INIA Yavaros C79 | 1226 | 1378 | 1390 | 1363 | 1339 | 66 | 8.8 | 5580.1 abc |
| CIMMYT-INIA Mexicali C75 | 1244 | 1344 | 1236 | 1368 | 1298 | 65 | 8.2 | 5408.0 cd |
| H & H Seed Co. Gem | 1278 | 1317 | 1233 | 1324 | 1288 | 65 | 8.7 | 5366.6 cd |
| Western Plant Breeders WestBred 881 | 1151 | 1164 | 1101 | 1114 | 1133 | 63 | 8.9 | 4718.6 e |

^{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 Duncan's Multiple Range test.

Table 2 Hard Red Spring Wheats 3

| Entry | Yield (lbs/plot) ¹ | | | | Ave Yield (lbs) | Bu Wt (lbs) | Moist- ture (%) | Yield ² (lbs/A) |
|------------------------------------------|-------------------------------|-------|-------|-------|-----------------------|----------------|-----------------------|-------------------------------|
| | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | |
| CIMMYT-INIA Yecora Rojo | 1445 | 1479 | 1370 | 1349 | 1411 | 64 | 8.4 | 5878.6 a |
| H & H Seed Co. Oslo | 1393 | 1422 | 1376 | 1278 | 1367 | 64 | 8.5 | 5696.2 ab |
| Northrup King ProBrand 771 | 1395 | 1382 | 1289 | 1211 | 1319 | 61 | 8.0 | 5497.0 bc |
| CIMMYT-INIA Genaro | 1359 | 1328 | 1295 | 1281 | 1316 | 63 | 8.8 | 5481.4 bcd |
| CIMMYT-INIA Hermosillo | 1325 | 1287 | 1341 | 1197 | 1288 | 64 | 8.2 | 5363.4 cde |
| Western Plant Breeders WestBred 911 3 | | | | | | | | |
| Western Plant Breeders WestBred 906R | 1182 | 1136 | 1089 | 1101 | 1127 | 62 | 7.9 | 4695.7 f |

- 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 the Duncan's Multiple Range test.
- 3/ WestBred 911, originally in test, was removed because it required different management practices to achieve representative yields.

Table 3 Barleys

| Entry | Yield (lbs/plot) ¹ | | | | Ave Yield (lbs) | Bu Wt (lbs) | Moist- ture (%) | Yield ² (lbs/A) |
|-------------------------------------------|-------------------------------|-------|-------|-------|-----------------------|----------------|-----------------------|-------------------------------|
| | Rep 1 | Rep 2 | Rep 3 | Rep 4 | | | | |
| Western Plant Breeders WestBred Gustoe | 1265 | 1319 | 1330 | 1314 | 1307 | 52 | 9.3 | 5445.3 a |
| Northrup King Sunbar 409 | 1162 | 1231 | 1265 | 1252 | 1228 | 48 | 9.2 | 5114.1 ab |
| Western Plant Breeders Gus | 1165 | 1057 | 1228 | 1345 | 1199 | 52 | 9.3 | 4995.6 ab |
| Wilbur-Ellis Poco 3 | | | | | | | | |

- 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 Duncan's Multiple Range test.
- 3/ Wilbur-Ellis Poco, originally in test, was removed because it required different management practices to achieve representative yields.