

## Comparisons of Small Grain Varieties

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These tests were planted December 14, 1978, and harvested June 4, 1979.

Fertilizer: 50 pounds of N as urea applied during seed bed preparation and 75 pounds of N as liquid ammonium nitrate in the irrigation water February 27, 1979.

Weed control: One application of 2, 4-D February 2, 1979 and mechanical cultivation.

Irrigation: Preirrigation November 6, 1978 with approximately 9 inches of water, and subsequent irrigations Feb. 1, Feb. 28, March 21, April 10, April 25, and May 9. These subsequent irrigations consisted of approximately 3 inches of water each.

Plot size: The two wheat tests and the barley test had plots 26 feet long. Each plot consisted of 6 rows spaced 12 inches apart. The triticale plots were also six rows spaced 12 inches but were only 8 feet long.

Experimental design: Randomized complete blocks with four replicates of the wheats and barley and three replicated of the triticale.

### Triticale

Entry	Yield in % of Siete Cerros	Bu.Wt. (pounds)	Height (inches)	Yield <sup>1/</sup> (lb./plot)
22. Bittern "S" (Durum)	119	60.3	28	4.67 A <sup>2/</sup>
25. Siete Cerros	100	57.0	28	3.92 AB
24. Anza (Bread wheat)	99	59.3	26	3.90 AB
17. M2A2	98	46.2	32	3.84 AB
21. IA-IRA x BUI	97	47.2	42	3.79 BC
7. M1A	96	48.7	36	3.77 BC
10. Drira 518	92	49.8	32	3.61 BCD
8. Lince	90	46.0	36	3.52 BCD
19. M2A-BGL	90	48.5	36	3.52 BCD
4. Bacum	89	48.5	36	3.50 BCD
5. Beagle	88	49.0	42	3.46 BCD
20. KLA-MC2A	87	45.3	32	3.42 BCD
15. IRA2-MC2A2	87	52.0	36	3.40 BCD
2. Navajoa	86	48.2	32	3.38 BCD
23. Pavon 76 (wheat)	85	59.7	28	3.34 BCD
18. M2A-IA	85	48.0	34	3.33 BCD
12. Welsh	85	47.0	30	3.33 BCD
6. Mapache	83	47.8	38	3.27 BCD
14. Maya-Arm "S" 105	80	50.2	34	3.15 BCD
1. Yoreme	79	46.7	34	3.10 BCD
13. M2A-IRA	76	49.0	32	2.96 BCD
11. Setter	74	48.8	32	2.92 BCD
3. Rahum	74	46.3	36	2.92 BCD
9. Cinnamon	73	45.5	36	2.87 CD
16. IRA-CML "S"	71	49.5	32	2.79 D

1. Acre factor: 1361.25. Expanded on this basis, siete cerros yield would be 5,336 pounds per acre.
2. Yields followed by the same letter are not significantly different at the .05 level.

Durum Wheats

Variety	Bu.Wt. (lb.)	Yield <sup>1/</sup> (lb./plot)
WPB 1000 D	58.0	14.22 A <sup>2/</sup>
Produra	61.0	13.66 AB
RAJ 911	62.0	13.51 AB
Bittern "S" (4y)	61.5	13.46 AB
UC 304	61.0	13.35 AB
UC 313	59.5	13.02 ABC
Germain 5002	61.0	12.94 ABC
Gedis "S"	62.0	12.54 ABCD
Jori 69	62.0	12.37 ABCD
UC 320	60.0	12.02 ABCD
Germain 5003	59.5	11.99 ABCD
Mexicali 75	59.5	11.59 BCDE
NK 1107	60.5	10.85 CDE
Cocorit 71	60.0	10.81 CDE
Modoc	62.0	10.27 DE
Edmor	59.0	8.93 E

1. Acre factor 418.8. Expanded on this basis, WPB 1000 D yield would be 5,955 pounds per acre.

2. Plot yields followed by the same letter are not significantly different at the 105 level of probability.

Barleys

Entry	Yield <sup>1/</sup> (lb./plot)
Y-7767	13.16 A <sup>2/</sup>
Gus	12.80 A
Kombyne	12.76 A
Y-7764	11.88 AB
Signal	11.80 AB
Bold	11.33 ABC
NK 4161	11.33 ABC
Y-7765	11.31 ABC
CM-72	10.52 BCD
NK 2505	10.11 BCD
NK 4259	9.67 CD
Kombar	9.46 CD
Arivat	9.38 CD
Y-7746	8.92 D

1. Acre factor: 418.8. Expanded on this basis, Y-7767 yield would be 5,511 pounds per acre.

2. Plot yields followed by the same letter are not significantly different at the .05 level of probability.

Bread Wheats

Entry	Yield (% of Siete Cerros)	Bu.Wt. (lb)	Yield <sup>1/</sup> (lb./plot)
Probred	105	61.0	15.41 A <sup>2/</sup>
Zaragoza 75	104	59.0	15.28 A
Nacozari 76	102	61.0	14.94 AB
Anza	100	62.0	14.75 AB
WPB 25-45	100	60.0	14.74 AB
Siete Cerros	100	60.5	14.71 ABC
Cajeme	97	59.5	14.32 ABCD
WPB 27-45	97	60.0	14.25 ABCD
DK 335	96	61.0	14.06 ABCD
WPB 15-61	91	61.0	13.40 BCDE
Germanians 3027	91	60.0	13.37 BCDE
Cocoraque 75	90	62.0	13.29 BCDE
WPB Mt-7	90	60.5	13.19 BCDE
Germanians W444	88	61.0	12.97 CDEF
Aim	87	61.0	12.80 DEF
Yecori Rojo	86	59.0	12.64 DEF
Pavon 76	84	61.5	12.29 EF
NK 77-51817	82	61.0	12.06 EF
Germanians 3008	78	59.0	11.49 F
NK 77-5611	77	56.0	11.39 F

1. Acre factor 418.8. Expanded on this basis, Siete Cerros yield would be 6,160 pounds per acre.

2. Plot yields followed by the same letter are not significantly different at the .05 level of probability.