

SMALL GRAIN VARIETY YIELD EVALUATIONS  
AT THE SAFFORD AGRICULTURAL CENTER

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Summary

Replicated yield trials of bread wheat, durum wheat and barley were seeded December 6, 1983 at 75 lbs per acre of barley, 80 lbs per acre of bread wheat and 85 lbs per acre of durum. This planting succeeded cotton. Total nitrogen fertilization was 188 lbs N per acre. During seedbed preparation 300 lbs 16-20-0 was applied. Two supplemental applications of 70 lbs N each were made at each of the first two postemergence irrigations. Yields were not optimal for this level of fertilization but plots were relatively uniform and test weights were generally adequate.

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Table 1. Bread wheat varieties and experimental yield evaluation.

	Test weight lbs/bu	Grain yield lbs/A <sup>1/</sup>
C79-97	62.5	4637 a
IS 8314	62.0	4520 ab
IS 8322	62.5	4497 abc
Westbred 911	61.5	4483 abcd
X-4236	63.0	4431 abcd
7023	60.0	4414 abcd
Probrand 771	61.5	4409 abcd
Yecora Rojo	63.0	4385 bcd
WRP 9-15	61.0	4291 bcde
Genara	63.0	4254 cde
Glennson	62.0	4252 cde
P981-232	61.0	4248 cde
Probred	63.0	4238 de
E105-9	62.5	4131 e
E106-9	64.0	3909 f
E117-23	61.0	3845 f

<sup>1/</sup> Yields followed by the same letter are not significantly different at the 5% level of probability using Duncan's Multiple Range.

Table 2. Durum wheat variety yield evaluation.

	Test weight lbs/bu	Grain yield lbs/A	1/
Bittern "S" 2/	64.5	5029	a
P881-738	60.0	4690	b
E26-3 2/	64.0	4639	bc
Yavaros 79 2/	63.5	4624	bc
P881-660	61.0	4493	cd
D893	65.5	4458	d
Aldura	63.0	4447	d
E28-1 2/	62.5	4346	d
Waha "S"	63.5	4334	d
E5-1 2/	64.0	4333	d
Westbred 881 2/	61.0	3958	e
Mexicali 75 2/	61.5	3632	f

- 1/ Yields followed by the same letter are not significantly different at the 5% level of probability using Duncan's Multiple Range.
- 2/ Yellowing of leaves observed at the boot stage of growth. Cause is unknown, but was attributed to some type of nutritional deficiency. E5-1 was most severely affected. Bittern "S" was only minimally affected. The other entries had only traces of yellowing.

Table 3. Barley variety yield evaluation.

	Test weight lbs/bu	Grain yield lbs/A	1/
Gustoe	51.5	4985	a
Prato	49.0	4928	a
BFP-78-40C	50.0	4916	a
BFP-79-18	52.5	4831	a
Columbia	48.5	4822	a
A76-15-1	51.5	4459	b
Sunbar 409	49.0	4254	b
X-1558	49.0	4241	b
X-76-15-1	51.0	4196	b
BB82-2 NK	48.0	4170	b
Gus	51.0	4154	b
Westbred 501	51.0	3915	c

- 1/ Yields followed by the same letter are not significantly different at the 5% level of probability using Duncan's Multiple Range.