

**FIELD OBSERVATIONS ON WHEAT AND BARLEY**

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Plant material not previously grown in Arizona is compared against normally grown varieties at two levels of nitrogen.

Location: Safford Agricultural Center

Elevation: 2900 ft.

Crop History:

Previous Crop: Cotton

Planted: February 12, 1985

Harvested: June 27, 1985

Seeding Rate: 200 lbs./Ac.

Fertilizer: 220 lbs. Urea, pre-plant incorporated;  
300 lbs. 16-20-0, drilled with the seed; 110 lbs. of Urea was top-dressed to one side of all plots.

Irrigation: Irrigated up - February 13, 1985; approximately 30 acre inches of water was applied in 6 irrigations.

**WHEAT**

150 lbs./Ac. Nitrogen

	Yield (lbs.)	Bu.Wt. (lbs.)	% Moist.	CYield* (lbs.)
Glennson	4637	62.5	7.9	4745
Klassic	4586	65	7.5	4713
8322	4218	61.5	8.6	4284
NK 4236	3891	60	8.3	3964
NK 751	3865	60.5	8.6	3925
Yecora Rojo	3800	62	7.9	3889

200 lbs./Ac. Nitrogen

NK 4236	4223	60.5	8.1	4312
Klassic	4192	63	8.2	4276
Glennson	4141	61.5	7.8	4242
8322	3819	62	7.8	3912
Yecora Rojo	3819	63	8.3	3891
NK 751	3814	60.5	8.2	3890
8314	3323	58.5	8.0	3397

**BARLEY**

150 lbs./Ac. Nitrogen

	Yield (lbs.)	Bu.Wt. (lbs.)	% Moist.	CYield* (lbs.)
Gustoe	4765	47	8.4	4850
Gus	4770	49	8.9	4828
Sunbar 409	3640	46.5	7.8	3729
Lindy	3323	47	8.0	3397
Piston	3029	50.5	8.8	3069
Menuet	3027	52	9.2	3054
Poco	2117	50.5	8.8	2145

200 lbs./Ac. Nitrogen

Gus	4719	48	8.4	4803
Gustoe	4693	47.5	8.5	4771
Poco	3220	49.5	8.7	3266
Lindy	3190	46.5	8.4	3247
Menuet	2991	51	9.0	3024
Piston	2858	51.5	8.7	2899

\* These yields are corrected to 10% moisture.

Notes: The lateness of the planting was detrimental to all yields. All of the wheat varieties being evaluated except for 8314 look promising and will be evaluated further.

Increasing the Nitrogen level from 150 to 200 lbs. was detrimental in more cases than was beneficial.

Barleys Piston, Lindy, and Menuet didn't adapt well to this area at this planting date; an earlier planting date will be tried.

Poco responded dramatically to the additional N.