

## Early Corn Variety Trial, Greenlee County - 1985

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### INTRODUCTION

A full season corn variety trial was grown in 1984 because more growers were interested in corn as a major crop. Additional testing is necessary to corroborate the results of the past, in addition to viewing new genetic material.

### MATERIALS AND METHODS

Cooperator: Irl and Nelson Lunt, Duncan, AZ

Elevation: 3,800 feet.

Crop History: Planted: 13 May 1985

Harvested: 21 October 1985

Seeding rate: 26,000 seeds per acre

Previous Crop: Fallow

Herbicide: None

Insecticide: None

Fertilizer:

Source:	Lbs/Ac	Lbs	N/Ac	Lbs
P <sub>2</sub> O <sub>5</sub> /Ac	Urea	325	150	
NH <sub>3</sub>		188	150	
		Total	300	

Irrigation: Eight times

## RESULTS

<i>Brand</i>	<i>Hybrid</i>	<i>% Moist.</i>	<i>Pl/Ac</i>	<i>Bu Wt</i>	<i>Yield(lbs/ac)*</i>
Northrup King	PX 74	18.0	19256	55.6	9278 a **
Pioneer	3183	22.0	20357	53.4	9149 a
Funks	G4673A	19.6	19394	54.0	8991 ab
O's Gold	2570	18.7	18156	55.4	8971 ab
DeKalb	656	19.1	19256	54.9	8896 ab
Northrup King	X5914	20.4	23107	56.3	8640 abc
DeKalb	727	20.8	20219	51.8	8498 abc
Pioneer	3377	18.8	18018	54.1	8390 abc
Valley Seed	4359	24.6	18431	52.3	7370 bc
Paymaster	8990	22.7	15405	55.0	7193 c
Valley Seed	8720	26.5	17881	53.1	6147 d

\* Yields are adjusted to 15.5% moisture.

\*\* Values followed by the same letter are not significantly different at the .05 level using the Student-Newman-Keul's Test.

## DISCUSSION

The top three varieties from this trial all fell within the top five yielders of the previous year, which verifies the consistency of the trial. Pioneer 3377, which was No. 1 last year but No. 8 this year, had the highest statistical deviation from its mean of all the varieties this year. This was caused by one rep being 24% lower than the mean of the other three reps. Eliminating this rep would raise it to No. 5 in this year's trial. O's Gold No. 2570, DeKalb 656 and 727, Northrup King X5914, Valley Seed 4359 and Paymaster 8990 were all new material evaluated this year.

Both Valley Seed varieties lodged severely and were not popular with the cooperators; these will not be evaluated further.