

# Cotton Variety Trial Mohave Valley, 1988

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## ABSTRACT

*Seven upland cotton varieties and pima S-6 were demonstrated in Mohave Valley in Mohave County in 1988. The elevation there is 500 feet. Of the 7 upland varieties, 2 were new and had not previously been tried in the area; 1 had been tried for the first time last year. Pima S-6 was a new introduction to the Valley.*

*Trial results indicated that the new introduction Tifcot 56 led the trial, yielding 901 lbs. of lint per acre. It was followed by DPL 90 at 886, DPL 50 at 884, DPL 77 at 819, BR 110 at 768, DES 119 at 755, and Delcote 344 at 664. The first attempt at pima S-6 yielded 447 pounds of lint per acre. Its plot in 1988 was basically new ground that had not had a crop on it for the past 5 years.*

## INTRODUCTION

The appearance of several new cotton varieties and interest in pima suggested the need to get local information on their performance in the Mohave Valley area. The 1988 season had a tough beginning for all cotton varieties because they had to be replanted following a cold snap in mid-April. Then temperatures were hot through the summer and fall.

## CROP HISTORY

Location: Ava-Kwa-Ami Farm, Mohave Valley  
Cooperator: Larry Green, Mgr., Fort Mohave Tribe  
Previous Crop: None  
Planting Date: 1st Plant, 6 April; Replant, 5 May  
Planting Info: 4 Rows 15 lbs. Seed/Acre on 40" Rows  
Replication: 4  
Herbicide: Pre-plant Prowl  
Fertilizer: Side dress UN 32, 10-34; Water Ran UN 32; Total N 125 lbs. Irrigation: 1 pre-emergence, 9 irrigations, total (50 inches)  
Insecticide: 2 applications of Ammo  
Defoliation: Sodium Chlorate  
Harvest: 9 December 1988  
Plot Size: 4 row plots, 1,235 foot row length

Table 1. Cotton Yields, Lint Turnouts, Adjusted Lint Yield per Acre, Grades, Acreage per Pound, and Estimated Value per Acre.

Variety	Seed Wt.	Turn Out %	Yield	Lint Adj. Yield Ac.	Grade	Avg. Price Lbs. 12/16/88	Est. Value Acre
Tifcot56	4280	31.58	1352	901	31-35-4.8 31-35-4.8 31-34-4.8	.5895	531.22
DPL 90	4170	31.87	1329	886	31-34-4.9 31-35-5.0 31-35-5.2	.5696	504.72
DPL 50	4670	28.39	1326	884	31-34-4.9 31-35-5.0	.5745	507.85
DPL 77	3880	31.67	1229	819	31-35-4.8 31-35-4.9 31-35-4.7	.5890	482.39
BR110	3730	30.88	1152	768	31-34-4.6 31-35-4.7 31-35-4.8	.5895	452.81
DES119	3760	30.13	1133	755	41-35-4.3 41-35-5.0	.5450	411.47
Delcott344	3410	29.24	977	664	41-35-4.7 31-35-4.6	.5750	381.80
Pima S-6	2160	31.0	670	447	44-05-3.1	1.2125	542.00

## DISCUSSION

Yields in 1988 were much lower than those for similar varieties in 1987. However, that was a consistent trend across Mohave Valley and other areas of Arizona in 1988, due to difficult early-season weather conditions. An encouraging feature of the 1988 test was the performance of TIFCOT 56 in Mohave Valley, which will result in its inclusion in the 1989 variety test for further evaluation.