

# Marana Pima Test, 1997

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## ***Abstract***

*Nine pima cotton varieties were grown at Marana Agricultural Center as part of the national cotton variety testing program. Lint yield, boll size, lint percent, and plant population are presented in this report.*

## **Introduction**

A pima cotton variety test was conducted as part of the national cotton variety testing program. Varieties from the USDA and private seed companies were included. S-7, the national standard, was the only variety used in this test.

## **Materials and Methods**

This test was located in a level basin field with 600 foot runs and was arranged in a randomized complete block design replicated four times. Plots were four rows wide, 38 feet long with 40 inch spacing. The field was preirrigated on 3 April and seed planted in moist soil on 16 April. Additional irrigations were on 30 May, 20 June, 3 July, 17 July, 31 July, 15 August, 26 August and 10 September. The cotton received 104 lbs/acre of nitrogen during the season. The planting was defoliated on 23 October and 7 November and the center two rows of each plot were machine harvested on 20 November. Heat units (threshold 86/55 degrees F) for the growing season were 4101 and rainfall during the period (16 April to 23 October) was 2.02 inches. Fifty hand picked samples taken out of two reps were used to determine lint percent and boll size.

## **Results and Discussion**

Results of the test are shown in Table 1. Yields ranged from 874 to 1079 lbs lint/acre. Although this test was thinned, final plant populations were high for all entries.

**Table 2. Lint yield, boll size, lint percent and plant population of 9 varieties in the Marana Pima Test, 1997.**

Variety	Lint Yield (lbs/acre)	Boll Size (grams)	Lint Percent	Plant Population (#/acre)
OA 337	1079a*	2.88b	38.24bc	50320a
OA 325	1046a	3.65a	40.55a	51300a
OA 328	1043a	3.36ab	39.69b	53587a
95-127	1041a	2.96ab	37.49bc	45745a
OA 322	983a	2.86b	38.75b	54894a
OA 361	981a	2.95ab	38.20bc	45745a
S-7	880a	3.27ab	38.58b	47379a
UA 4	875a	3.66a	37.97bc	42804a
UA 5	874a	3.17ab	37.04c	45745a

\*Means followed by the same letter are not significantly different at the 0.05 probability level.