

A Comparison of 30" and 40" Rows

W. D. Fisher, M. D. Cannon, L. L. Patterson

Three varieties of cotton were planted April 2 on both 30" and 40" rows. For comparing the two row spacings, plots were hand harvested every two weeks throughout the season starting on September 2. The 30" rows produced slightly earlier cotton and higher yields for two of the three varieties in the test. The results are given in the following table:

Variety	Yield lint/acre		Yield 30" as % of 40"	Earliness % open on September 2	
	30"	40"		30"	40"
Deltapine 70	1959	1852	105.8%	44.1	41.1
Deltapine 62	2029	2121	95.7%	31.2	26.8
7209-107	2309	2011	114.8%	48.1	46.1

In the 40" plots, rows adjacent to the hand picked rows were picked by spindle machine in a once over harvest on December 7. Yields and harvesting efficiency for the two harvest procedures are shown in the following table:

Variety	Lint/Acre		Harvesting Efficiency
	Hand	Machine	
Deltapine 70	1852	1582	85.4
Deltapine 62	2121	1578	74.4
7209-107	2011	1563	77.7

Summary Report - Chemical Termination Studies

Louis A. Bariola, Research Entomologist  
Western Cotton Research Laboratory, ARS, USDA

Studies were continued to evaluate chemicals for termination of cotton fruiting as a pink bollworm control technique. Tests were conducted in 2- or 4-row plots on the Cotton Research Center, Phoenix, and materials applied in H<sub>2</sub>O with a 3 gal hand sprayer. Dicamba plus chlorflurenol resulted in leaves drying on the plant and "freezing" after defoliation. Thidiazuron (=Nor-Am Dropp®) at 0.01 or 0.02 lb/ac applied when high temperatures were 102-109°F for 5 days after application caused a 15 to 25% leaf drop after 8 days. When applied 7 days later and high temperatures were 96°F or lower for 5 days, there was no leaf drop with thidiazuron at 0.02 and 0.04 lbs/ac. All combinations of thidiazuron, chlorflurenol (0.5 lb/ac), and ethephon (0.5 lb/ac) reduced the flowering rate. The most effective combination in reducing the number of green bolls was ethephon plus chlorflurenol and thidiazuron plus chlorflurenol.