

SPACING TRIALS
SPINDLE PICK vs STRIPPER PICK

Spacing	Stripper Pick			Spindle Pick		
	Seed Cotton	Lint	Turnout ^{1/}	Seed Cotton	Lint	Turnout
	lbs/A	lb/A	Percent	lbs/A	lb/A	Percent
Double Row 6"	3534	707	20.00	1861	571	30.68
Double Row 12"	3475	883	25.40			
Flat Planting	3196	789	24.69			
Single Row				1302	379	29.09

^{1/} Percent turnout based on laboratory gin results.

CROP HISTORY: PREVIOUS CROP: Double crop barley 73. FERTILIZER: 150 lbs/A NH₃ side dressed, and 350 lbs/A of 16-20-0 side dressed. PLOT SIZE: 4 rows x 1241 ft. 40" beds, 4 reps. IRRIGATION: Irrigated up 6/15 and seven additional applications with cutoff September 1. PLANTED: June 7 at 23 lbs/A seed rate. VARIETY: DPL-16. DEFOLIATION: Sodium chlorate 2 gal/A followed by Bollseye 1 qt/A. HERBICIDE: 1 1/2 pt/A treflan + 1 lb/A caparol sprayed over the bed and incorporated with power mulcher. HARVEST DATE: December 8, stripper. INSECTICIDES: none.

FRUITING PATTERN, BOLL SET AND YIELD
OF THREE PLANTING PATTERNS

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Cotton was planted in single rows, two rows per bed, 12 inches or 6 inches apart. Blooms were tagged each day from July 2 through August 18, 1973. In the fall after the bolls opened they were hand picked, separated according to date on tag, counted and weighed. Values in the table represent the number of blooms produced each week and the percent of blooms that set and developed into bolls. The table also includes pounds of lint per acre derived from blooms tagged within the time period indicated.

The data suggest that cotton plants set a greater percent of the flowers that bloom early in the fruiting season. The data also suggest that cotton planted two rows per bed, 12 inches or 6 inches apart, compared to the single row planting developed more fruiting points throughout the growing season. As a result more lint per acre was produced from cotton planted in narrow than single rows. This response is characteristic of cotton plants grown in soils with high salt concentration (4500 ppm) and irrigated with water that contains a high level of soluble salts (41,000 ppm).