

The incorporation of super okra gene into all breeding population of Pima cotton is proceeding on schedule as we are developing Pima cotton that will be suitable for high population cotton production systems.

LONG STAPLE VARIETY TRIAL

Bob Calvin - Thatcher Agent in Charge - J.L. Sears

Variety	lbs./A Seed Cotton	% Turnout ^{1/}	lbs/A lint
Pima S-4	2048	33.9	694
Pima S-2	1657	35.1	582

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

CROP HISTORY: PLOT SIZE: 4 rows x 1,040 ft. 38" beds 2 reps. PLANTED: 4/4/71, at 16 #/A seeding rate. HERBICIDES: 1 pt. treflan/A preplant disc incorporated, and 2 lb. caporal/A after planting harrowed in. INSECTICIDE: 1 application of tox-parathion, 2 applications of gluthion. FERTILIZER: 100 #NH₃ in water 6/15/71. IRRIGATION: 10 irrigations, last 8/25/71. DEFOLIATION: none. HARVEST: single pick 11/22/71. PREVIOUS CROP: cotton 1970.

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LONG STAPLE VARIETY TRIAL

Lee Hunt - Thatcher Agent in Charge - J.L. Sears

Variety	lbs. Seed Cotton/A	% Turnout ^{1/}	lbs. lint/A
Pima S-2	1880	35.2	662
Pima S-4	2321	35.1	815

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

CROP HISTORY: 2 years in alfalfa. PLOT SIZE: 4 rows x 627 yards 40" beds. PLANTED: 4/23/71, seeding rate of 25 lb/A. HERBICIDE: none. FERTILIZER: none. INSECTICIDE: none. IRRIGATION: 1 preplant, 1st irrigation 6/4/71, 4 additional irrigations, last irrigation 8/12/71. DEFOLIATION: DEF 10/14/71. HARVEST: 11/18/71.

LONG STAPLE VARIETY TRIAL

Mathews - Salome

Agricultural Agent - Jim Hazlitt

Variety	% Turnout ^{1/}	lbs. lint/A	Ave. Staple
P-21	27.92	879	44
S-4	28.96	848	44

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

CROP HISTORY: PLANTED: 4/1/71 17 lbs. seed/A. FERTILIZER: 200 lbs/A
 16-20-0 preplant 200 lbs. urea plus 200 lbs. NH₄/A in water during season.
 INSECTICIDE: 6 applications of parathion 6-3.