

<u>Species</u>	<u>Percent of Total Weeds Estimated</u>
Wright ground cherry	94
Pig (Carelessweed)	4
Other	1

LONG STAPLE HERBICIDE TRIAL

<u>Safford Experiment Station</u>		<u>Fred Turner - Superintendent</u>	
<u>Treatment</u>	<u>Seed Cotton lbs/A</u>	<u>Turnout $\frac{1}{}$ Percent</u>	<u>Lint lbs/A</u>
1	1242	33.84	420
2	1264	33.84	428
3	1412	33.84	478
4	1442	33.84	488
5	1258	33.84	426

$\frac{1}{}$ Percent turnout based upon laboratory gin results.

Application:

Herbicide combinations were mixed in one tank and sprayed either "on the flat" and incorporated by double disking before listing or "over the bed" and mulched in with power mulcher.

Treatments:

1. Treflan 1 1/2 pt/A (Trifluralin 0.75 lb/A) + Karmex 1.5 lb/A (Diuron 1.2 lb/A) on the flat.
2. Treflan 1 1/2 pt/A (Trifluralin 0.75 lb/A) + Caparol 2 lb/A (Prometryne 1.6 lb/A) on the flat.
3. Check.
4. Treflan 1 1/2 pt/A (Trifluralin 0.75 lb/A) + Karmex 1.5 lb/A (Diuron 1.2 lb/A) over the bed.
5. Treflan 1 1/2 pt/A (Trifluralin 0.75 lb/A) + Caparol 2 lb/A (Prometryne 1.6 lb/A) over the bed.

WEED CONTROL

<u>Percent of weed control and percent of cotton injury estimated June 20.*</u>			
<u>Treatment</u>	<u>Broadleaf</u>	<u>Cotton Injury</u>	<u>Plants/A 6/20</u>
1	89	23	25,000
2	90	19	24,000
3	40	5	26,000
4	65	8	27,000
5	77	9	25,000

*Weeds were removed from plots after evaluation by hand chopping and controlled by subsequent cultivations as needed.

CROP HISTORY: AREA HARVESTED: 2 rows on 40" beds, 4 beds per treatment 200 ft. long, 4 reps. PLANTED: May 9. HARVESTED: December 6. PREVIOUS CROP: cotton. IRRIGATION: Irrigated up May 9, 2nd - May 12, 3rd - May 31, 4th - June 26, 5th - July 10, 6th - August 12, 7th - August 17, 8th - August 28, cutoff - September 5. FERTILIZER: none. PESTICIDE: Aerial spray with Parathion and Toxaphene August 25, August 31, Sept. 7, Sept. 13, Sept. 19, Sept. 25, and Oct. 1. DEFOLIATION: October 18; November 13, aerial sprayed twice with 1/2 pt. Paraquat + 2 gal. sodium chlorate, total gallonage 10 gal/A, for each spraying. VARIETY: Pima S-4. WEED SPECIES PRESENT WERE:

<u>Species</u>	<u>Percent of Total Weeds Estimated</u>
Wright Ground cherry	90
Pigweed (Carelessweed)	6
Lambsquarter	2
Other	2