

COTTON HERBICIDE TEST

Holt Ranch - Parker Valley

Agricultural Agent - Jim Hazlitt

In 1970 Morningglories were so thick at cotton harvest that they had to be cut by hand prior to picking. One area was so bad harvest was not possible.

On February 20, 1971 a preplant herbicide test using combinations of 1 1/2 pints/A Treflan plus 1 1/2 lbs/A Caparol, 1 1/2 lbs/A Cotoran 1 1/2 lbs/A Lorox and 1 1/2 lbs/A Karmex in 25 gal. of water was applied to medium textured soil. The materials were disced in four inches deep and furrowed out.

4-6-71 Inspection: Beds listed out 12 inches from furrow to peak of bed then mulched down to about 6 1/2 inches. Control was good along seed row, poor along the shoulders and in the furrow. Cotton in Cotyledon stage grew through six inches of treated soil. Treflan and Lorox--some crop injury about 10% mortality--(complete mortality in first treated pass due to improper agitation prior to treatment). Morning glory control 99%.

Treflan + Caparol - no injury - 99% Control  
Treflan + Karmex - no injury - 75% Control  
Treflan + Cotoran - no injury - 90% Control  
Treflan alone - no injury - 65-70% Control

4-16-71 Top of beds clean. 95-99% control of weeds. First four rows of each combination treatment killed by herbicides due to lack of agitation at beginning of treatments causing higher herbicide concentrations on these areas.

Ave. No. of plants in 12 ft. of row

<u>Treatment</u>	<u>Cotton</u>	<u>Morning glory</u>	<u>Water grass</u>
Caparol + Treflan	27	3	0
Cotoran + Treflan	29	2	0
Lorox + Treflan	29	3	1
Karmex + Treflan	30	3	0
Check Treflan	29	13	2

5-12-71 Two lb/A Cotoran plus 4 3/4 lb/A DSMA applied over top of beds.

6-29-71 Layby treatments of 1.6 lb/A Karmex, 1 lb/A Lorox and .8 lb/A Caparol with .5% surfactant were applied to each of the preplant treatments.

Complete morning glory control was not obtained, with any combination of herbicides. The field was machine harvested with no problems. Observation indicated Caparol treatment probably gave best control and resulted least damage (except Cotoran) to cotton.