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UNIVERSITY OF CALIFORNIA
AGRICULTURAL EXTENSION SERVICE
PROGRESS REPORT

County of Fresno Date: December 8, 1952 State Number 3721
County Number 155

Name of Project: Cotton Defoliation Studies

1. Procedure: In order to observe under field conditions, the effect of several current and newly developed cotton defoliants a test was established cooperatively with the USDA represented by Mr. V. T. Walhood, Cotton Experiment Station, Shafter, California.

The study was conducted on a replicated cotton fertilization test site in order that recordings could be made as to the effectiveness of each of the materials on cotton grown under different fertilization rates. The materials, both dusts and sprays, were applied by aircraft on approximately 1/4 acre blocks side by side.

Materials used:
(1) Magnesium chlorate dust
(2) Mono sodium cyanamid dust
(3) Magnesium chlorate spray
(4) Shed-a-leaf spray
(5) Shed-a-leaf plus multifilm C
(6) Shed-a-leaf plus multifilm C plus P Badditive
(7) Endothal plus nonic acid
(8) Endothal plus nonic acid plus diesel plus multifilm L
(9) Ethyl #4
(10) Pennsalt 1098

Readings were made by visual observation on the 7th and 14th day after application.

2. Results: None of the treatments resulted in an economical defoliation 21 days after application.

3. Conclusions: The reason or reasons for the poor defoliation is unaccountable at this writing. The test site was considered as possessing cotton in a defoliable state immediately prior to dust and spray applications by all authorities asked to pass judgement. The results further point out the extreme need for cotton defoliation research.