

UNIVERSITY OF CALIFORNIA
COLLEGE OF AGRICULTURE
AGRICULTURAL EXPERIMENT STATION

DIVISION OF AGRONOMY
DAVIS, CALIFORNIA

December 28, 1951

Mr. J. O. Hoyt
Farm Advisor
U. S. Post Office Building
Fresno 1, California

Dear Mr. Hoyt:

Mr. V. A. Frizzell, San Joaquin Cotton Oil Company, has asked for some information on the 1951 Cotton Fertilization work that he might present to his superiors. He shares our desire to obtain better precision fertilizing equipment than we now have available in commercial lines. It is his belief that support for obtaining such equipment may be available through his company or the California Fertilizer Association.

A copy of the information given him has been enclosed for your information.

Best wishes for the coming New Year.

Very truly yours,



D. S. Mikkelsen
Assistant Agronomist

DSM:lb
Enclosure

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Mr. V. A. Frizzell, Manager
Fertiliser Division
San Joaquin Cotton Oil Company
Chowchilla, California

Dear Mr. Frizzell:

Results of the 1951 Cotton Fertilization Trials are being made available to you for planning purposes, as agreed upon in our telephone conversation of December 21. This data is not treated statistically and represents only the average effects of fertilization in five replicated treatments.

The work completed, including the statistical treatment of the yield data, and other information that we now have will be presented at a planning conference to be held in the near future.

Representatives of the Agricultural Extension Service, who are cooperating in these studies and other parties concerned will be invited to attend. A definite date has not been made, but you will be notified of such developments.

We understand that the data enclosed will be handled in a confidential manner until its accuracy is established and the cooperating parties agree to its distribution.

Kindest personal regards and Best Wishes for the New Year.

Very truly yours,

D. S. Mikkelsen
Assistant Professor of Agronomy

DSK:lb

cc: Messrs. George Ferry
Marvin Hoover
O. D. McCutcheon
J. O. Hoyt ✓

COTTON FERTILIZATION COOPERATORS

Mr. George Ferry, Farm Advisor
P. O. Box 791
Bakersfield, California

Mr. Marvin Hoover
Extension Specialist in Cotton
U. S. Experimental Farm
Route 1, Box 17
Shafter, California

Mr. O. D. McCutcheon, Farm Advisor
P. O. Box 707
Hanford, California

Mr. J. O. Hoyt, Farm Advisor
U. S. Post Office Building
Fresno 1, California

Dr. B. A. Krantz, Senior Soil Scientist
Southwestern Irrigation Field Station
P. O. Box 1339
Brawley, California

COTTON FERTILIZATION 1951

County: Kern
 Cooperator: U. S. Cotton Field Station
 Soil Type: Hesperia Sandy Loam

Location: Shafter

<u>Treatments</u> Pounds/A.	<u>Seed Cotton</u> <u>Ave. Yield</u> Pounds/A.	<u>Increase</u> <u>Over Check</u> Percent
Check	3063	
50N	3341	9.1
100N	3247	6.0
150N	3341	9.1
100N 120 P ₂ O ₅	3375	10.2
100N 120 P ₂ O ₅ 100 K ₂ O	3490	13.9

Superior Mantle

Garlock

COTTON FERTILIZATION 1951

County: Fresno
 Cooperator: W. W. Weeth
 Soil Type: Panhill Fine Sandy Loam

Farm Advisor: J. O. Hoyt
 Location: Coalinga

<u>Treatments</u> Pounds/A.	<u>Seed Cotton</u> <u>Ave. Yield</u> Pounds/A.	<u>Increase</u> <u>Over Check</u> Percent
Check	2143	
50N	2308	9.7
100N	2493	16.3
150N	2540	18.5
100N 120 P ₂ O ₅	2423	13.1
100N 120 P ₂ O ₅ 100 K ₂ O	2486	16.1

K₂O increase seed wt.?

Superior Manifold

COTTON FERTILIZATION 1951

County: Kings
 Cooperator: J. G. Boswell Company
 Soil Type: Tulare Clay Loam*

Farm Advisor: O. D. McCutcheon
 Location: El Rico, Corcoran

<u>Treatment</u> Pounds/A.	<u>Seed Cotton</u> <u>Ave. Yield</u> Pounds/A.	<u>Increase</u> <u>Over Check</u> Percent
Check	2070	
50N	2521	21.8
100N	2650	28.0
150N	2462	18.9
100N 120 P ₂ O ₅	2528	22.1
100N 120 P ₂ O ₅ 100 K ₂ O	2443	18.0

* No soil amendment 1950

<u>Treatment*</u> Pounds/A.	<u>Seed Cotton</u> <u>Ave. Yield</u> Pounds/A.	<u>Increase</u> <u>Over Check</u> Percent
Check	2203	
50N	2430	10.3
100N	2510	13.9
150N	2522	14.5
100N 120 P ₂ O ₅	2602	18.1
100N 120 P ₂ O ₅ 100 K ₂ O	2545	15.5

* 500# H₂SO₄ an acre 1950

COTTON FERTILIZATION 1951

County: Kern Farm Advisor: G. V. Ferry
 Cooperator: Sanders, A. R. and L. R. Location: Lakeview
 Soil Type: San Emigdio Sandy Loam

<u>Treatment</u> Pounds/A.	<u>Seed Cotton</u> <u>Ave. Yield</u> Pounds/A.	<u>Increase</u> <u>Over Check</u> Percent
Check	1510	
50N	2465	63.2
100N	3108	105.8 ✓
150N	3486	130.8
100N 120 P ₂ O ₅	3628	140.3 ✓
100N 120 P ₂ O ₅ 100 K ₂ O	3259	115.8