

UNIVERSITY OF CALIFORNIA
AGRICULTURAL EXTENSION SERVICE
PROGRESS REPORT

County of Fresno

Date: 1952

State Number 4037
County Number 167

Name of Project: Nitrogen Source Response in Cereals

Reported by John O. Hoyt

1. Procedure: Type test: Combine harvest
Crop: California Mariout barley
Location: $W\frac{1}{2}$ NW $\frac{1}{4}$, Sec. 13-18-17
Soil type: Oxalis silty clay
Plot size: 700' x 20' or .321 acres
Soil analysis: 8 random samples were obtained from 0-12 inch depth.

Sample No.	1	2	3	4	5	6	7	8
Bingham phosphate	.395	.271	.275	.16	.266	.233	.250	.48
% Na	71.4	49.0	66.3	43.6	37.7	36.9	50.8	66.2
pH	8.95	8.61	8.80	8.48	8.37	8.42	8.53	8.80

Crop and fertilizer
history:

1948 - barley
1949 - cotton, 80 lbs. N/A as NH_3
1950 - vetch
1950 - lettuce, 150 lbs. N/A as NH_3
1951 - barley (test year)

Established: February 29, 1952

Method of

application: Broadcast with Ezze-Flo applicator

Harvested: July 1, 1952

Area harvested: .179 acre

Harvest data: Yield data were obtained by direct combine with a John Deere 12' harvester. Truck scale weights were recorded from each treatment. Approximately 30 feet were discarded from each end of the test site in order to square the plots for accurate yield records. Test weight per bushel data was recorded at the test site.

Treatment:

Plot	Rate/Acre	Material
A	60 N	Ammonium sulfate
B	60 N	Ammonium nitrate
C	60 N	Calcium nitrate
D	60 N	Urea
E	-	Check