UNIVERSITY OF CALIFORNIA
COLLEGE OF AGRICULTURE
AGRICULTURAL EXPERIMENT STATION

DIVISION OF AGRONOMY
DAVIS, CALIFORNIA

RECEIVED JAN 14 1952

March 12, 1952

Mr. John O. Hoyt, Farm Advisor
Room 20, Post Office Building
Fresno, California

Dear John:

Appreciate word that arrangements have been made with the Waldo Weeth Ranch and Calflax Ranch for conducting our 1952 cotton fertilization studies. I understand that you are agreeable to continuing our N-P-K rate studies, called Plan 1, according to the design used in 1951. I personally, believe that this is about as efficient a set-up for obtaining the information as we can devise.

The fertilizer source test, which was described as Plan 2, represents my opinion of the best method of proceding. It allows with least effort the comparison of the major nitrogen sources at a common rate of application and an opportunity to evaluate the effect of phosphorus, potash, "fish" or anything else that might be of interest in your County. Four row treatments of each fertilizer source, replicated not less than five times represent my idea of the minimum requirements of the test. The number of rows in each treatment could be increased to 12 as you desire, and I understand that this would facilitate harvesting. The only criticism would be that larger plots could potentially increase the experimental error because of greater differences in soil conditions, soil moisture, and sampling techniques.

I would personally prefer the 4 row treatments over larger ones unless the area being used is extremely uniform as to soil conditions and that yield data becomes more difficult to obtain unless handled otherwise.

Regarding the formulation of the 10-12-10 complete fertilizer, I believe it will be difficult to dictate how the formulation shall be made up. In fact, I doubt that we have reason for demanding a specific formula, except for the desire of uniformity. I would be agreeable to use whatever mix is available as long as it does not contain an organic filler.

Hope to visit with you in the near future, but will send the exact details later.

Very truly yours,

Duane

D. S. Mikkelsen
Professor in Agronomy

DSM/ph