

SYNOPSIS

- i. The literature dealing with nutrient supply in irrigation water is reviewed and the problems of nutrient and water relationships discussed from the point of view of plant absorption.
- ii. An experiment is described which attempts to elucidate some of the problems involved. Treatments investigated were comparisons of:-
 - a) Application of sulphate of ammonia applied in solution and in dry form.
 - b) Differing intervals of time between applications.
 - c) Overhead irrigation and direct soil watering.
 - d) Presence and absence of fertilizer used as a preplanting dressing.
 - e) Results obtained from two varieties of lettuce.No practical significance in differences were found but it was discovered that the two varieties used reacted very differently to many of the treatments.
- iii. Recommendations are made for future work.
- iv. It was concluded that while there appeared to be no advantage gained from the use of fertilizers in irrigation water it supplied a cheap and convenient means of application where irrigation systems were available.