

clovers, and pasture, planted on the same type of soil have been found to require almost twice as much as the grains, or 2.5 acre feet per acre. The latter class of crops, however, do not require any more during the same length of season than the grains. The extra amount is required because of their longer growing season. The average annual precipitation of the localities investigated was about 12 inches, of which one-third occurred during the six growing months.

FINANCIAL ASSISTANCE USUALLY NECESSARY.

The second problem outlined at the beginning, that of securing sufficient finances with which to tide the irrigator over the lean period that almost invariably exists between the time when the farm is first settled upon and the time it is producing profitable returns, is most certainly one of the most serious problems that confront the irrigators of the northwestern part of the United States. The majority of the settlers on the new projects have started out with little or no experience, and with too little money. The land was always raw, necessitating a considerable expenditure at the outset for the clearing and levelling. An initial payment of about \$3.00 per acre had to be met. A house of some kind also had to be built, and the interest and the deferred payments had to be met each year. Then, too, because of insufficient finances and need for immediate money, a great incentive almost invariably existed for hasty and careless preparation of the land. Alfalfa in many instances was not planted for the first year or two, as it seemed imperative that some grain crop be planted that would unquestionably find a ready market before the end of the first year. The yields, because of the hasty preparation of the land, have in a large number of cases been disappointing. The prices that have been received for the crops have also been low, due to the local oversupply that is usually caused when so much new products are thrown on a partially developed market. The facilities for handling the rapid increase of the products of a new locality are sometimes far from adequate.

Due to the large initial expense which must be borne by the irrigator, to the many payments that must be met and to the glutting of undeveloped markets, there has usually arisen