### Citrus Orchard Cost Study And Analysis Made In Orange County Over 21-Year Period Is Reported

Harold E. Wahlberg

Over one hundred citrus growers in Orange County have cooperated with the Agricultural Extension Service for the past 21 years in a cost study and analysis of orchard management costs.

The growers furnished detailed cost records on tree care and general operations. The reports were summarized and classified into two groups—the higher return orchards and the lower return orchards. This data was used for the entire study. A wide range of costs was reported in most cases.

### Control Measures In Trichomoniasis Abortion By Cows

H. S. Cameron

Abortion and sterility constitute major sources of loss to the dairy cattle producer.

Infection is probably responsible for the greater portion of these losses, and brucellosis is, by far, the leading offender in the classification. Brucellosis in trichomoniasis should be considered as next in importance. Such losses are caused by abortion and sterility. Abortion losses can result if the infection gets into a herd and is allowed to persist.

Unlike an abortion storm from brucellosis the onset is very gradual, the first thing noticed being an unusual number of cows, assumed with milk, returning to heat.

The disease is transmitted only by contact, milk, or direct contact. Many of these abortions are carried into the soil; recovers mare milk than is usual number of cows, assumed with milk, returning to heat.

### Bulk Handling Of Milk By The Ranch To Factory System

E. L. Jack and R. E. Perry

Hauling-tank operations on dairy farms, in conjunction with milk trucks, are bringing about savings to the dairyman and to the milk buyer through the elimination of the ten-gallon milk can.

Traditionally, milk on the farm is run over a cooler to bring the temperature down below 50°F. It goes from the cooler directly into a ten-gallon can where it is held in a cold room until hauled to the milk plant.

In this new method the milk goes into a large storage tank on the farm instead of into the cans. It is pumped from the storage tank into a tank truck and hauled to the milk plant.

This bulk-handling method saves a considerable amount in hauling; does away with handling the cans on the farm; the time in the tank when the truck arrives.

### Water Infiltration Rates Into Yolo Loam Studied To Determine Irrigation Efficiency Factors

Arthur F. Pillsbury

Water infiltration rates into Yolo loam during irrigation were measured in 96 basins in a series of experiments conducted in Los Angeles County over a period of five years.

Several different treatments were carried on, permitting the isolating of a number of factors which influence the rate of water entry into the soil.

Organic Matter

Organic matter is known to improve soil structure and infiltration rates, but the belief often prevails that to do it must be incorporated in the soil.

Applications of straw or other crop residue as a mulch were found to be as least as valuable on the surface as when incorporated in the soil—provided they were kept relatively moist for at least seven months. Furthermore, there was insufficient oxygen through the summer to cause appreciable mineralization rate increases. After a mulch had been in place during the growing season, increases in the rates of water infiltration and energy required for each increment of water was brought to the surface during each irrigation had been at least 15% above the rates in those plots without mulch.
Pre-emergence Spray For Weed Control In Sugar Beets Seeded In Undisturbed Soil Successful

There was no disturbance of the seedbed subsequent to seeding except that the soil was tamped down while dragging in the seeds. It is known that with most weed species the germination rate is increased which are in the upper couple of inches of soil. If, as is the usual practice, the field is not tamped down, surface drying and subsequent surface crusting which may be prevented by the surface and soon another crop of weeds appears.

Pre-emergence Sprays

Prior to emergence of the sugar beet seedlings the plots were sprayed with several different general contact and systemic herbicides. The weed control was followed for about six days before their emergence.

Average Results of Pre-emergence Sprays

(All depths of planting)

Spray Treatment | Herbicide  | Seeding Date, May 1 | Days Interested in Beets
--- | --- | --- | ---
| | | 15 | 20 | 25 | 30 | 45 | 75 | Total

1. Dowd 12-6-9-11 | 76.5 | 59.4 | 25.9 | 25.9 | 27.2 | 27.2 | 27.2 | 27.2
2. Dimetane 
(Ammonium Salt of Dinitro
Sulfonic Acid) | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9
3. Garlon 10A | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9 | 58.9
4. Malathion 10A | 47.0 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7
5. Malathion 10A | 46.9 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7
6. Garlon 10A | 46.9 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7

The Agricultural Situation And The Outlook In Mid-'47

(Continued from page 1)

The current year in California has been one of the best in the history of the State, and the prospects for the coming season are very promising. The yield of the major crops is expected to be well above the average, and there is every indication that the State will again be a major supplier of agricultural products to the nation.

There are several reasons for this optimistic outlook. First, the weather during the growing season was generally favorable, with ample rainfall and temperatures that were generally within the normal range. This has resulted in excellent crop yields, particularly for the major crops such as barley, corn, and cotton.

Second, the prices of agricultural products have been very strong, which has encouraged farmers to expand their production. This has contributed to the high yields, as farmers have been able to profitably produce more of their crops.

Third, the demand for agricultural products has been strong, both domestically and internationally. This has led to higher prices and has encouraged farmers to produce more.

Finally, the state of the economy has been generally strong, with low interest rates and a high level of consumer spending. This has contributed to the strong demand for agricultural products, which has further supported prices.

These factors, combined with the favorable weather conditions, have resulted in a very strong agricultural outlook for the current year in California. The high yields and strong prices are expected to continue into the future, which will benefit both farmers and the State as a whole.

Bulking Handling Of Milk In California

Bulking handling of milk has developed rapidly in California. Milk producers deliver milk in the field into a stainless steel tank on truck. The tank is then transported to the processing plant, where it is bulked for further handling.

The advantage of this method is that it allows for the efficient operation of a tank truck route, with low operating costs. Bulking handling eliminates the need for multiple delivery systems and reduces the overall cost of handling milk.

The California Milk Market

California is the largest milk producer and consumer in the United States. The milk market is highly competitive, with numerous milk producers and processors. The demand for milk is driven by household consumption, as well as by the dairy industry, manufacturing, and other industries.

The market for milk is affected by a variety of factors, including weather conditions, crop yields, and economic conditions. Changes in these factors can lead to shifts in the supply and demand for milk, which can impact prices and production.

The outlook for the California milk market is generally positive. The strong demand for milk is expected to continue, which will support prices and encourage expansion in the dairy industry. However, there are also some challenges, such as the need for continued innovation in milk production and processing, as well as the need for effective marketing strategies.

In conclusion, the California milk market is a dynamic and competitive sector of the state's economy. The outlook for the future is generally positive, with strong demand and opportunities for growth. However, there are also some challenges that need to be addressed to ensure continued success in this industry.