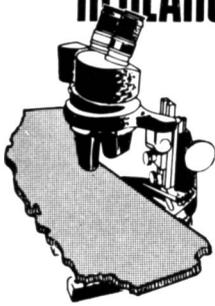


RESEARCH PREVIEWS



A continuing program of research in many aspects of agriculture is carried on at University campuses, field stations, leased areas, and many temporary plots loaned by cooperating landowners throughout the state. Listed below are some of the projects currently under way, but on which no formal progress reports can yet be made.

COMPUTER AIDS PEACH STUDY

A "fast-thinking" computer is being used to analyze data obtained by University pomologists on peach culture—data that would have taken years to sort out under previous methods. Under study are the interactions of nitrogen level, irrigation practices and crop load, with quality, fruitfulness, yield, size, fruit maturity characteristics, and location of fruiting area.

COTTON TILLAGE

A three-year trial is being conducted at the West Side Field Station to compare three different tillage systems on cotton under furrow and sprinkler irrigation. Tillage operations include: a minimum preplant system involving a stalk and root disposal machine with bedding equipment attached; precision tillage minimum preplant system consisting of stalk and root disposal and precision tillage; and "normal" tillage.

ENVIRONMENTAL TOXICOLOGY

University of California, Davis



This new building at Davis (with a laboratory view to right) houses the Department of Environmental Toxicology. It is also the headquarters for the Food Protection and Toxicology Center which coordinates an interdisciplinary program of research in the environmental sciences for the University. Emphasis is on the use of chemicals in the production of raw and processed foods, on the naturally occurring toxicants, and on infective agents associated with food, as well as other aspects of environmental pollution. Among its major achievements have been development of techniques now widely used for detecting minute quantities of chemical residues.



NEW PUBLICATIONS

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SUMMER PASTURE AND GREENCHOP FROM SUDANGRASS, HYBRID SUDANGRASS, AND SORGHUM X SUDANGRASS CROSSES. Cir. 547. A number of sudangrass cultivars are grown in many localities throughout California—localities that differ widely in soil types, available moisture, and temperature ranges. This circular discusses the many factors involved in producing a successful stand of sudangrass. Then, of necessity, it leaves some decisions to the grower who must interpret the information in the circular to his individual conditions and desires.

RISK AND DIVERSIFICATION FOR CALIFORNIA CROPS. Cir. 503, revised. Certain unpredictable factors, such as weather, cause important variations in crop yields, prices, and income. In the past the farmer has had to rely primarily upon his own experience in estimating the risks. This circular supplements the grower's experience by presenting indexes of California crop variabilities in yields, prices, and incomes. The information presented here will enable the California grower to better estimate the relative variations to be expected from year to year in yields, prices, and incomes of individual crops.

WEED CONTROL IN LETTUCE. Leaflet 202. This leaflet names herbicides used in weed control in lettuce. It discusses differences in herbicide usage in various areas of the state and describes techniques of herbicide application.

CALIFORNIA AGRICULTURE

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