

NEW PUBLICATIONS



—now ready for distribution—

Single copies of these publications—except Manuals and books—or a catalog of Agricultural Publications may be obtained without charge from the local office of the Farm Advisor or by addressing a request to: Agricultural Publications, 207 University Hall, University of California, Berkeley 4, California. Make checks payable to The Regents of the University of California.

PRUNING OLIVES IN CALIFORNIA,
by H. T. Hartmann, Karl Opitz, and R. M. Hoffman, *Bul.* 771.

VINEYARD FERTILIZERS AND COVER CROPS, by James A. Cook, *Leaf.* 128.

Uniform acid and flavor in CULTURED BUTTERMILK

Work is in progress to assist manufacturers of buttermilk in solving two major production problems—the slow

production of acid in the manufacturing process and the lack of uniformity in flavor from day to day.

Several aspects of the relationship between the bacteria responsible for the lactic acid and the viruses active against them have been investigated. Sufficient information has been accumulated to suggest solutions for speeding up the acid production, but recommendations must await results of the investigations now in progress regarding the related

problem, flavor uniformity. These investigations include selection of strains of bacteria for flavor production, determination of virus sensitivities, studies of domination among strains of bacteria growing together, detection and elimination of strains that produce antibiotic-like substances, and determination of best methods of using selected strains in manufacturing buttermilk.—*Edwin B. Collins, Dept. of Food Science and Technology, Davis.*

DONATIONS FOR AGRICULTURAL RESEARCH

Contributions to the University of California, Division of Agricultural Sciences

BERKELEY

National Science Foundation \$24,833.33
For research on productivity and nutrient cycles in the soil-vegetation-animal system of arctic tundra

DAVIS

Castle & Cooke, Limited \$1,500.00
To assist in studies on quality factors of macadamia nuts

County of San Joaquin
City of Stockton
Delta Growers and Land Owners Association \$500.00
For delta inter-row planting experiment

Dow Chemical Company \$5,000.00
For research on the use of plastic materials in the processing, handling, and packaging of food products

U. S. Public Health Service \$25,687.00
For research on *Brucella ovis*: epidemiology and significance

C. M. Volkman & Co. \$300.00
DeKalb Agricultural Association \$300.00
For research on hybrid sorghum varieties and plant populations.
(Correcting acknowledgment published in March: C. M. Volkman and Company \$600.00)

Women's Auxiliary Sacramento Valley Veterinary Medical Association \$50.00
For veterinary medicine library

RIVERSIDE

Eli Lilly and Company \$1,000.00
For research on gibberellic acid

Food Machinery and Chemical Corporation, Niagara Chemical Division
Niagara microapplicator
For research in entomology

Rayonier, Inc. \$3,000.00
For research on iron chlorosis

Stauffer Chemical Company 15 gals. Vapam
For avocado root rot research

Western Phosphates, Inc. Two tons treble superphosphate
For research with vegetable crops in southern California

Willits & Newcomb Nursery 9 boxes of apples
For research on *Phytophthora* root rot of citrus

American Cyanamid Company \$1,500.00
For research with malathion, Thimet phorate, and dimethoate

American Petroleum Institute \$20,000.00
For research on the effects of polluted atmosphere on vegetables

Food Machinery and Chemical Corp. \$4,500.00
For studies with Thiodan

Monsanto Chemical Company \$3,000.00
For research on insecticides

U. S. Department of Agriculture \$6,100.00
For irrigation and soil salinity investigations at the Rubidoux Laboratory

World Health Organization \$18,000.00
For research on insecticides against resistant insect vectors

STATEWIDE

American Conservation Assoc., Inc. \$12,500.00
For field studies in specified wilderness areas

Northrup King & Co. 120 lbs. hulled Bermuda grass seed

Stauffer Chemical Co. 1,650 lbs. Anchor carbon bisulfide

Waterman Industries, Inc. 3, 12" Universal C. T. hydrant 3/8" Pierce outlet
5 joints 6" x 0.051 x 19' x 38" row x 2 1/2" gate row-king pipe
1, 8" x 6" x 6" row-king reducing tee with control valve
2, 6" row-king end caps
31, 38" canvas and burlap sleeves with clamps

For the West Side Field Station, Five Points, California

Shell Chemical Co. 320 lbs. diammonium phosphate
To be tested as a fire retardant in grass vegetation

Stauffer Chemical Co. 2,000 lbs. Eptam 5% granular
To study the control of weedy annual grasses in dryland pasture

U. S. Outdoor Recreation Resources Review Commission \$49,995.00
For study of the place of wildlands in outdoor recreation

Penalty for private use to avoid payment of postage, \$300

University of California College of Agriculture, Agricultural Experiment Station, Berkeley 4, California

Paul J. Sharp.
Director

Free—Annual Report or Bulletin or Report of Progress
Permit No. 1127