

flavor changes in ground pork. The proposed 30,000 rep dosage is therefore quite feasible from the flavor viewpoint, the authors believe, and while it does not kill trichina outright, it does destroy their ability to propagate, which is all that is necessary to break the cycle. There is a desirable secondary effect too; 30,000 rep increases the refrigerated shelf life of pork by nearly 30%.

The design depreciation period was taken as 5 years, but since cesium-137 has a half-life of 33 years, the authors believe depreciation might well be spread over a 10-year period. This would cut the predicted quarter of a cent a pound processing cost nearly in half.

Salt Can Substitute for Part of Potash Used on Some Miss. Soils

Sodium can be substituted for part of the potassium on much of the low-potash soil in Mississippi, according to C. Dale Hoover, head of the agronomy department at the state's agricultural experiment station. His experiments with cotton yields show that about 25% of the potassium fertilizer requirement can be supplied with sodium, as sodium chloride, which may be cheaper.

About 65 to 95% of Mississippi soils that are low in potash content could be fertilized with sodium to meet part of the potassium requirement, says Dr. Hoover. Approximately 40% of Mississippi soils outside the Delta region are potash deficient for cotton production as are many of the soils of the southeastern cotton-producing states, according to Dr. Hoover.

Analyses of 1200 soil samples indicate that low potassium-level soils containing less than 50 pounds of exchangeable sodium per acre can be expected to respond to sodium applications under cotton. He reports that no consistent effects on fiber quality due to sodium were found.

Sodium can be applied as sodium chloride and mixed with prepared fertilizers for broadcast application or the salt can be applied separately provided it offers a cheaper way of meeting one quarter of the potassium needs of the soil.

11 Research Grants from NVF For Nutrition, Vitamin Studies

The National Vitamin Foundation has announced the awarding of 11 grants totaling \$55,085 for research in the fields of vitamins and nutrition. The new grants become effective on June 30. Grants were awarded to:

William F. Alexander, St. Louis University, for studies on the relation of vitamin B₁₂ to nerve cell metabolism.

William B. Bean, and Robert E. Hodges, State University of Iowa, for studies on human pantothenic acid deficiency.

Walter J. Bo, University of North Dakota, for studies of the processes involved in metaplasia in the rat uterus following vitamin A deficiency and of the relationship between estrogen and vitamin A deficiency in producing metaplasia in the rat uterus.

Bacon F. Chow, The Johns Hopkins University, for biochemical studies on the process of aging.

Louis D. Greenburg and J. F. Rinehart, University of California, for studies on the fundamental biochemical and morphological pathology of vitamin B deficiencies in the Rhesus monkey.

B. Connor Johnson, University of Illinois, for studies on carnitine (vitamin B₇) levels in the blood, urine, and skeletal muscle of healthy individuals and in patients suffering with nutritional disease.

R. W. Luecke, Michigan State College, for studies of the quantitative requirements of the baby pig for certain B vitamins.

Marjorie M. Nelson, University of California, for studies on multiple congenital abnormalities produced by maternal vitamin deficiencies.

E. W. McHenry, University of Toronto, for studies on vitamin B₆ and intermediary metabolism.

Elaine P. Ralli, New York University, for studies on the influence of nutritional and hormonal factors in patients with diabetes mellitus.

People

Martin Succeeds Rost as Head Of Minnesota Soils Department

Clayton O. Rost, head of the University of Minnesota soils department, retired July 1 after 41 years in the department. His successor is William P. Martin, professor of agronomy and bacteriology at Ohio State.

E. D. Crittenden, director of research for the Nitrogen Division of Allied Chemical & Dye, has been awarded the Distinguished Service Award by the Virginia Section of the AMERICAN CHEMICAL SOCIETY. He has been in nitrogen research since taking his Ph.D. at Columbia in 1922, working first for the Fixed Nitrogen Research Laboratory and later for Atmosphere Nitrogen Corp., predecessor of the Nitrogen Division.

Robert M. Hagan has been named chairman of the department of irrigation at the University of California's Davis campus, succeeding Frank J. Veihmeyer, who retired July 1. Dr. Hagan has been associate professor of irrigation.

R. W. Gunder has been promoted to western sales manager of Stauffer Chemical Co. His headquarters will be in San Francisco.

Henry B. Smith has been promoted to technical director for engineering and commercial development at General Foods' central laboratories in Hoboken, N. J., and Robert C. Reeves to technical director for product and process development. Both were formerly laboratory directors in their respective fields.

Hiram B. Young has been elected vice president in charge of eastern production for Hooker Electrochemical and Thomas E. Moffitt, vice president in charge of western operations.

Paul R. Elliker, chairman of the department of bacteriology at Oregon State College, won the 1954 Borden Award for outstanding research in the field of dairy bacteriology. The award recognized his research on the prevention of spoilage in dairy products, viruses damaging dairy starter cultures, and dairy sanitation.

Charles N. Frey, MIT lecturer and industrial consultant, has been awarded the 1954 Nicholas Appert Medal for his work on yeast, bread production, vitamin D in milk, soluble coffee, and other food research.

Donald B. Benedict has been appointed works manager of Carbide & Carbon Chemicals Co., a division of Union Carbide & Carbon Corp.

Denman Penniston has been promoted to assistant to the president of the Solvay Process Division of Allied Chemical & Dye. Succeeding him as director of sales is John H. Elleman. New assistant directors of sales are: Arthur Phillips, Jr., Harry R. Stoothoff, and Neal M. Draper.

J. A. Field, assistant manager of the fine chemicals department of Carbide & Carbon, is on leave to serve as consultant to the chemical division of the Business and Defense Services Administration, U. S. Department of Commerce. He is slated to become assistant administrator of the chemical division of BDSA.

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