

## More Studies on Equipment, Buildings Requested by Advisory Group

Increased research to improve equipment and buildings and to help in using them more efficiently was advised by the U S Department of Agriculture's Farm Equipment and Structures Research Advisory Committee at its annual meeting in Washington, Feb 19-21.

An urgent need in the general area of crops research, according to the committee, is for expanded studies of pesticide application. Work is also needed on planting and fertilizing equipment and practices, and on tillage equipment for soil management. In regard to the pesticide work, committee members indicated that stress should be put on developing or improving methods and equipment for ground or air application of insecticides or fungicides to potatoes, vegetables, sugar beets, sugar cane, tree fruits, tobacco, grains, oilseed crops, and cotton.

In the area of research on crop harvesting, preparation, and storage, the committee advised that further study is needed on the mechanization of vegetable, fruit, and tree-nut production, the handling, drying, and storing of grain, and the physical and biological effects of electric-energy radiation on field seeds, stored grains, and certain plant diseases.

Other research meriting high-priority attention, according to the committee, includes:

**LIVESTOCK PRODUCTION AND MANAGEMENT** Expanded research on time and labor saving on the farm through improvement of buildings, farm layout, equipment adaptation, and better work methods, and further studies of the influence of physical environment on farm animals and poultry.

**FARM STRUCTURES AND RELATED PROBLEMS** Greater effort to learn total water volume and peak water requirements for farm homesteads, and expanded work on the Cooperative Farm Building Plan Exchange to give extension services more assistance in providing plans for efficient farmhouses and service buildings.

**ECONOMICS AND GENERAL PROBLEMS** More economic research to help farmers keep

abreast of technological advances, so that the new machines and equipment they use may prove profitable to them; also, a survey of farm use of water distribution equipment.

Established under the Research and Marketing Act of 1946, the committee is made up of national authorities on farm equipment and structures. Its recommendations for research to be undertaken by USDA will be submitted formally to the Department within the next few weeks. Copies of this report will be available from the committee's executive secretary, Dr Charles P. Barnes, Office of the Administrator, Agricultural Research Service, U. S. Department of Agriculture, Washington 25, D. C.

W. G. Kaiser, committee vice-chairman of Glen Ellyn, Ill., agriculture engineer, presided. F. E. Price, dean of the College of Agriculture, Oregon State College, Corvallis, is chairman.

Committee members who attended are Dale Erlewine, dryland wheat grower, Grant, Neb.; Rice Hobgood, professor of agricultural engineering, Texas A & M College, College Station, Tex.; Charles F. Morrison, Charles F. Morrison & Sons, fruit producers, Zillah, Wash.; J. H. Oiver, engineer, apparatus sales division, General Electric Co., Schenectady, N. Y.; Mrs. Evalyn Bergstrand Owens, farm homemaker, Dousman, Wis.; J. C. Portus Mercantile Co., Lepanto, Ark.; Russell R. Poyner, general supervisor, farm practice research, International Harvester Co. Chicago, Ill.; and A. L. Vandergriff, vice-president, Lummus Cotton Gin Co., Columbus, Ga.

## New Chemical Weed Killer Cleans Up Canada Thistle With One Spraying

Bindweed, Canada thistle, trumpet vine, and many other tough broad-leaved perennials can be eliminated for a year or longer by one spraying with a new chemical weed killer now available. Called "Tryben" 200 weed killer, this is considered to be the first really effective control for certain broad-leaved deep-rooted perennials and woody vines.

Many species which can be easily controlled with "Tryben" under widely varying conditions have responded to other weed killers only at critical stages of growth, if at all, and even then have required successive treatments to finish the job.

THIS NEW material is based on the dimethylamine salt of trichlorobenzoic acid (TBA) and contains two pounds of acid equivalent per gallon. Effective through both contact and residual action, it fits into chemical weed control programs as a long-needed single treatment where both types of herbicidal action are required for complete long-lasting control.

Development of herbicidal uses of compounds based on trichlorobenzoic acid has been undertaken by the Du Pont Company for the past two years in cooperation with state weed control investigators in most states where deep-rooted perennial weeds are a problem. Many successful trials have been made in widely scattered states, including Kansas, Nebraska, Iowa, North and South Dakota, Minnesota, Texas, California, Oregon, Colorado, Montana, Missouri and Wyoming.

"TRYBEN" 200 weed killer is non-selective and is formulated as a liquid to be diluted with water for spray application. Total spray volume needed per acre depends

on the density and height of growth to be treated.

To kill established stands of deep-rooted perennials, dosages of five to 10 gallons of "Tryben" weed killer per acre are recommended. This range of dosage is effective against such species as field bindweed, leafy spurge, Canada thistle, Russian knapweed, bur ragweed, and woody vines, such as trumpet vine, honeysuckle and simlax. Higher dosages (10 to 15 gallons per acre) will provide residual effects to prevent establishment of new seedlings, giving control of most perennial

and annual broadleaf weeds for one year or longer.

RATES AS LOW as two gallons of "Tryben" 200 in 10 gallons of water have been found to be effective against certain species of woody brush, including conifers, wild roses (especially McCartney or Cherokee), sumac, persimmon, sassafras and hackberry. For these species, thorough spraying of foliage and stems, as well as the ground under the plants, is recommended.

Like other non-selective and somewhat volatile herbicidal compounds, materials based on trichlorobenzoic acid present a potential hazard to certain sensitive crops, and label precautions should be followed carefully.

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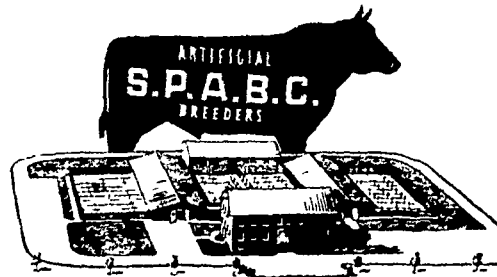
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