USDA Lists **Ag Research Highlights**

The U. S. Department of Agriulture's Agricultural Research Service reported numerous advances in farm science during the past year. Cooperating in many of these research achievements were State agricultural ex- fected sawfly larvae was used. periment stations in all parts of ers in a number of industrial and other private concerns.

Here are a few of the high-Cghts:

CROPS - A notable "first" was achieved when USDA and to 10 times the cost of fumiga-Michigan State scientists synthe tion. One friendly nematode was sized natural rubber in the labpratory for the first time. This disease highly destructive to test-tube rubber was produced, several injurious insects. in research on rubber-producing plants, by combining enzymes of natural rubber with acetic acid.

Two experimental weed-killers, (2,4-DB) and 4(MCPB), proved highly effective in test trials against broad-leaved weeds in fields planted to crops easily injured by weed-kallers commonly used.

Development of productive single-germ sugar-beet hybrids promises to eliminate costly hand thinning of beets. multiple germ seed of ordinary sugar beets produces clumps of seedlings, making hand thinning necessary.

was developed. Rabbits injected good quality leather was devewith wirus from diseased plants loped, An experimental leather Clemson Agricultural College, R. P. Conway, develop antibodies that are used tanned with extract of canalgre 'Clemson, S. C., was dedicated. to detect certain diseases of cereal grains.

Several research - developed. crop and forage varieties characterized by disease resistance and high yields were released for planting. They include Bronco wheat, Wiley sorgo, Traili barley, goldtop sweetclover, Grant soybeans, and Dixie Bright 244

An intriguing plant-growth regulator called gibberellic acid showed a marked effect on the growth and flowering of certain plants. In some cases, applying minute amounts of the chemical to the stems caused plants to grow much taller than normal.

LIVESTOCK - Researchers are optimistic about chances of improving the meat-tenderness quality of animals through breeding, as a result of tests showing that this quality is inherited.

A new, long-term breeding and selection program for swine has heen started similar to that used for developing improved hybrid

A new, low-cost dairy recordkeeping program, called the "Weigh-a-Day-a-Month" plan, went into effect to help farmers improve dairy production efficiency.

Crossbreeding of Hampshire, Shropshire, and Southdown sheep resulted in hybrid lambs with superior meat and wool.

Two turkeys hatched from infertile eggs made headhnes when they flived 18 and 22 days - the first pathenogenetic poults to live more than a few hours. Knowledge gained from studying them may help researchers improve fertility and hatchability of turkey eggs.

An unknown growth factor in feather meal was discovered through experimental use of the meal in poultry feeds.

INSECT CONTROL-Research on insecticides and attractants for use against the Mediterranean Fruit fly made possible a largescale program to eradicate this serious pest of citrus and other crops discovered in Florida in April, 1956. By the end of the year, Medfly numbers had been drastically reduced and prospects' were good that the country would be free of this insect before the end of 1957.

Radioactive tracers revealed

tance to insecticides. Scientistsroot — a sweetpotato-like tuber also learned how to trace with that grows in the Southwest -Geiger' counters the paths of gave good results in tests of "tagged" insects — even those soles of military shoes. beneath the soil or bark of trees.

was found highly effective against mosquitoes, stable flies, is one new development. fleas, ticks, and chiggers

A virus-disease spray to control the Virginia pine sawfly proved successful in localized tests. Virus from naturally in-

A new systemic insecticide, the country and research work- Dow ET-57, given by mouth to cattle, showed promise for cattle-grub control.

> When freed of crop-destroying nematodes by new fumigants, soils produced crops valued 4 found that transmits a bacterial

UTILIZATION - Work was begun to determine the effects Long Island, N. Y., was dedicatof high-energy radiation on cot-ed. It provides facilities for reton, to learn whether irradiated search on foot-and-mouth disease have in. cotton can be used for useful and other animal diseases of fornew textile products or will have increased value in various present uses.

plant that grows wild on millions of acres in the Southwest, was termed the most promising native plant source of chemicals for making the anti-arthritic developing better crops. Funds drug cortisone.

hides with an enzyme prepara-A unique rabbit-blood bank tion to obtain high yields of

Wider use of tung oil for An outstanding insect repel- paints and other surface coatings lent, N,N-diethyl-m - toluamide, is promised. Tung oil with builtin resistance to molds and fungi

> A continuous process was developed for producing powdered apple, grape, and cherry juices of good quality storable without refrigeration for two years

Potato flakes, a new researchdeveloped dehydrated product for making mashed potatoes, sold well in market tests.

NEW FACILITIES - A tract near Ames, Iowa, was chosen as the site of a new Federal livestock and poultry disease laboratory. Funds totaling \$16,250,000 for constructing and equipping the laboratory were authorized.

The new \$10 million research building of USDA's Plum Island Animal Disease Laboratory off eign origin.

Colorado A & M College at Fort Collins, Colo., was selected Agave lecheguilla, a poisonous as the site of a new National Seed Storage Laboratory - 2 Federal facility to store valuable them. germ plasm for future use in amounting to \$450,000 were au-A fast method of unhairing thorized for its construction.

Cotton Ginning Laboratory at

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Eleven 4-H'ers To Show Heifers

Eleven 4-H Dairy Club members from this area have been named to exhibit their heifers at the Farm Show in Harrisburg Jan. 14-18.

Showing Ayrshire heifers will be: Joan and Ned Paes, Strasburg R1; Marilyn Harnish, Quarryville R2 and Donald Pryer, Strasburg R1.

Exhibiting Guernsey are Ross and William Ferguson, Kirkwood. Showing Holstein are: Paul and Donald Welk, Strasburg R1; Paul and Donald Trimble, Quarryville R1; and James Hess, Strasburg.

The entries are highly rated on the basis of comparative scores taken from District Roundups held in various parts of the state.

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