

which now include plants near Bartow, Fla., Wales, Tenn. and Tupelo, Miss. Heretofore the operation of these plants has been a part of the corporation's phosphate division.

Under the new production and sales program International will have two phosphate divisions. The phosphate minerals division, headed by George W. Moyers, vice president who has been in charge of the phosphate division, will be responsible for the mining and refining of phosphate ores in Florida and Tennessee. The new phosphate chemicals division, to be headed by Howard F. Roderick, recently elected a vice president of International, will produce phosphate and sell chemicals.

Mr. Roderick went to International from Wyandotte Chemicals, where he had been director of sales for its Michigan Alkali Division since 1950.

International's new phosphate minerals and chemical operation is typical of the vertical integration program being conducted by the company, according to Mr. Ware, and is in line with the planned growth and diversification program International has followed for a number of years.

The establishment of the phosphate chemicals division as separate from the corporation's other phosphate activities was timed with the completion of International's plant near Bartow. This plant, which represents an investment of approximately \$15 million, produces defluorinated phosphate for use as an animal feed supplement as its primary product. It also produces multiple superphosphate for plant food. As a by-product it extracts uranium compounds from the phosphate ore, for the Atomic Energy Commission.

### New Albany Plant of Davison Begins Operation

Fertilizer production has started at Davison Chemical's new \$1 million plant near New Albany, Ind. Facilities of the plant include a modern office building, welfare and shop facilities, in addition to processing and storage equipment.

The plant was built to replace older facilities at New Albany, which were located between the Ohio River and a new flood wall. The new plant has larger and more modern facilities than the old. Davison will make its granulated, homogeneous fertilizer product in the new plant.

The plant is all on one level, with flexible, mobile equipment permitting unloading of materials, manufacturing, and shipping to go on simultaneously without interference. Truck-loading facilities are protected from the weather.

J. L. Gayle, plant manager, said the plant would employ between 60 and 80 men, according to the season.

### Vitamin Feed Concentrate Unit Opens at Hiram Walker Plant

Hiram Walker put a new stillage refermentation unit into operation early this month at its Peoria, Ill., plant. The unit will increase the company's capacity for producing riboflavin concentrates for livestock feed by some 300%. Spent mash from the stills is refined to produce the riboflavin concentrate, using a process developed by the company.

In addition to the vitamin concentrates, spent mash is also a large source of protein for livestock. Hiram Walker estimates that protein feed from distilleries are produced at the rate of about \$20 million worth annually, not counting the vitamin feeds.

### Box Plant at Kansas City By Hinde & Dauch

Hinde & Dauch Paper Co. has announced plans for building a factory to produce corrugated and solid fiber shipping boxes in Kansas City. The company has acquired a 17-acre site there. No date for beginning construction has been set as yet, said the company.

### Fairfax Biological Buys Edgar A. Murray Co.

Fairfax Biological Laboratory of Clinton Corners, N. Y., has announced purchase of the Edgar A. Murray Co. of Detroit, Mich. The Murray company manufactures Doom packaged household insecticides. The purchased firm will be operated as a division of Fairfax. Financial details of the purchase were not disclosed.

#### On The Cover

#### Tools for Crop Protection

THE UNGAINLY MACHINE on the cover, resembling a device of war, is an example of the developments in equipment design which are leading to an increasing mechanization of farming practice. This mist sprayer is designed to apply sprays of pesticide mists to entire rows of trees, as it is towed through orchards.

Devices of this type have accelerated the practical application of research developments in agricultural chemistry.

Photo Courtesy University of California Citrus Experiment Station, Riverside, Calif.

### People

#### W. H. Garman to Join APFC as Agronomist

Willard H. Garman has resigned as experiment station administrator,



USDA, Office of Experiment Stations, to become agronomist for the American Plant Food Council. He succeeds John R. Taylor, Jr. Prior to his USDA work, Dr. Garman was head of the department of agronomy at the University of Arkansas experiment station.

L. Douglas Weiford has been named assistant to the executive vice president in charge of government relations by Stauffer Chemical Co.

Calvin L. Dickinson has joined American Potash & Chemical as advisory engineer at the Trona, Calif., plant. He was formerly with Diamond Alkali as plant manager for the organic chemicals division at Houston, Tex. Frank A. Jessup, formerly with Pacific Indemnity Co., has joined American Potash as safety engineer for the Trona plant.

J. Russell Wilson has become vice president and general manager of the Monsanto's new research and engineering division. N. N. T. Samaras is assistant general manager of the division. George N. Hoffer, midwest manager of the American Potash Institute, has received the Holbert Medal Award for significant contributions in the field of plant sciences.

Jesse M. Huffington, Continental Can Co. crops consultant, has been awarded a plaque in appreciation "for his numerous contributions to the welfare and advancement of the canning industry in the Keystone State" from the Pennsylvania Cannery Association.

Otto T. Aepli has been promoted from assistant chief chemist to chief chemist of Pennsylvania Salt's Wyandotte, Mich., plant. He succeeds Earl Sweetland, who recently retired.

Henry P. Rusk, dean emeritus of the University of Illinois College of agriculture, died Jan. 9 in Urbana, Ill., at the age of 69. Recognized for his contributions to agricultural education and knowledge of livestock, he served as a member of the agricultural task force of the Hoover Commission in 1948. He was awarded the American Farm Bureau's gold medal in 1947 for distinguished service to agriculture.

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