

Water Under Pressure

BY C. F. BRUMFIELD AGRICULTURAL ENGINEER T. V. A.

The coming of electricity opens up a whole new world to a farm family. Probably the finest single thing that electricity can bring to a farm is water under pressure. This may not seem important to the city resident who has only to turn on a faucet for an ample supply of water. Here are a few of the things that water under pressure makes possible for the farm family: a bathroom, modern laundry, hot water, running water for livestock, irrigation in dry seasons, and fire protection. Water under pressure handsomely rewards the farmer in more comfortable and healthier living and in increased production on the farm.

Add to these things the riddance of the worst of all farm chores—pumping and carrying water—and you get an idea of what an electric water system can do for a family. "The average farm family spends the equivalent of 30 eight-hour days each year carrying 20 to 30 tons of water for kitchen use only," according to the Agricultural Extension Ser-

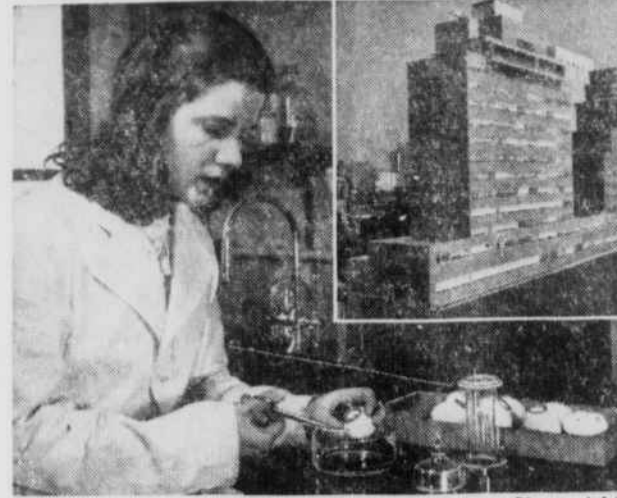
vice and the University of Georgia. "Add to this 20 large buckets on washday, and the requirements for livestock, and one can comprehend the magnitude of this task," the Extension Service continued.

This labor devoted to carrying water seems even more staggering when we find how cheaply it can be done electrically. The only operating cost of the water system is the electricity used. This costs from one cent to one and one-half cents a day on the average farm. Compared to this, the farm family which must pump and carry water receives little pay in regard for its work.

If there were no other uses of electricity on the farm—there are more than 300 uses—this one thing would justify stringing electric lines to rural homes. This is one of the reasons why power distributors are making every effort possible to electrify the farms in their areas.

Like much other farm equipment, water systems were in short

NEW RESEARCH CENTER USES EGGS IN FIGHT ON CANCER



Technician opening egg to check growth of cancer tissue. Upper right: Sloan-Kettering Institute for Cancer Research.

NEW YORK—Technicians in the Sloan-Kettering Institute for Cancer Research grow cancers on chick embryos in the eggs. This is part of the systematic procedure used in the search for a chemical compound which will poison abnormal cells without harming normal cells.

The 14-story laboratory has just been dedicated. Its completion gives this country an advance post in the war against the dread disease, making possible the intensive development of certain promising avenues of cancer research. The Sloan-Kettering Institute, a division of Memorial Hospital, the pioneer in cancer treatment, is part of a cancer

center of national importance which includes the Strang Prevention Clinic and the James Ewing Hospital now being built by New York City.

The Institute was built with funds from a \$4,562,500 grant by Alfred P. Sloan, Jr., the industrial leader, which also provides half the operating expenses for ten years. Contributions from all parts of the country, from the American Cancer Society and from the Public Health Service have made possible many research programs. Associated with Mr. Sloan in enlarging the research attack on cancer is Charles F. Kettering, inventor and re-

search wizard.

supply during the post-war period. Electric motors were hard to get at first; more recently, the shortage was in pipe. Some dealers are now able to furnish all components of the water system.

Your power distributor can give you valuable advice on the selection and installation of a water system that will best fit your needs. Each farm presents a different problem, but a few general principles apply to all water systems.

The water supply should be adequate to meet all needs and should be tested for purity. A mistake made by many persons is to base the capacity of the system on the amount of water used when water had to be pumped and carried. Studies have shown that on a farm without running water, each person uses from four to six gallons of water daily. But with an electric water system and modern plumbing, usage steps up to 35 gallons daily for each person in the family. A dairy cow soaks up water like a sponge—sometimes as much as 40 gallons on a real hot day and about 30 gallons on the average. She pays off well, though. Tests show that dairy cows which have access to a good water supply give almost 20 per cent more milk. Beef cattle put on a lot of extra weight with a good water supply.

Hogs consume 550 pounds of water for every 100 pounds of weight they gain, and a good water supply means an extra 35 to 40 pounds of weight each year. Egg production goes up from 10 to 20 per cent with a good water supply.

Your power distributor can furnish you with an accurate estimate of the amount of water you will need.

A shallow well system can be installed if the lift from the water level to the pump is 22 feet or less. From 22 to 80 feet, a jet pump is satisfactory. A deep-well pump is necessary for greater depths.

A pressure tank should be used with all water systems, otherwise,

the electric motor which powers the system switches on and off with each turn of the faucet. This shortens its life and uses more electricity than is necessary. A 42-gallon pressure tank is adequate for all but the largest farm water systems.

Buy your water system from a reputable dealer and follow the maintenance instructions. Based on past experience, you'll get many years service out of it without major repairs.

Girl Scouts Complete Books

By Barbara Jean Swaim

Girl Scout troop No. 4 met Monday, at the recreation room with Mrs. Fred Swaim and Sister Virginia Hetherington.

The girls finished booklets they had been working on, and played ball and shuffle board.

Those present were: Rose Axley, Elizabeth Frankum, Josephine Garrett, Edna Ann Palmer, Sue Beth Rowland, and Barbara Swaim.

The meeting was closed by singing taps and making the friendship circle.



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Will Farm Tractor Replace Old Dobbin?

Can the farm tractor completely replace Old Dobbin?

Maybe not, but modern power machinery can be put to much wider use than at present on North Carolina farms, says the agricultural engineering department at State College. And to prove its point, the department last week took to the fields in nine counties to show farmers the latest mechanical equipment used in cotton and corn production.

Using a five-acre demonstration field in each of the counties selected, the department will utilize tractors and other machinery in planting and cultivating row crops. The planting demonstrations began in Richmond County April 19. Each field will be visited two weeks after planting for the first demonstration in mechanized cultivation.

In announcing the demonstrations, J. C. Ferguson, Extension specialist in agricultural engineering, said North Carolina farmers are now operating approximately 50,000 farm tractors, but of this number probably not more than 20 per cent are being used for planting and cultivating row crops.

"Less than one tractor in every 10 is being utilized in all of its capacities, as evidenced by the fact that workstock is still maintained on the majority of farms now using tractor power," Mr. Ferguson said.

The demonstration in corn production is being conducted in Nash County, while the eight demonstrations in cotton production are being held in Richmond, Scotland, Hoke, Cumberland, Harnett, Wake, Edgecombe, and Halifax counties. The demonstrations will continue with the necessary cultivations, on schedule, until the crops are laid by in mid-summer.

North Carolina's 1948 cabbage crop has been retarded somewhat by wet soils and cold weather in the important producing areas of Pamlico and Carteret counties. In the Elizabeth City-Weeksville section and in Currituck County the crop is in good condition.

Democrats

There will be a meeting of the Democrats in each precinct on Saturday, May 8, to elect precinct officers.

There will be a meeting at 10 o'clock a. m. at the courthouse, Saturday, May 15, to elect county officers and transact other business of the committee.

Every Democrat is urged to attend both meetings.

H. A. Mattox,
Chairman

Cherokee County Democratic Executive Committee

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