

AGRICULTURAL ENGINEERING, - 1926

Sub-Project - I -

Farm Water Supply and Sanitation.

OBJECT:

- (1) To demonstrate the most practical methods of securing running water and other conveniences in the farm home.
- (2) To improve the sanitary conditions around the home and thereby help the health of the whole family.

As the ultimate object of the extension work is to improve the farm home, life, this project should be the most important in Extension work.

IMPORTANCE:

According to the best figures available, only approximately 12,000 of the 193,723 farms in the state have running water in the home. The lack of water and other conveniences entails great hardships on the farm women. By installing inexpensive water and sewage disposal systems, the women can be relieved of a lot of drudgery and the health and happiness of the whole family improved. Good health is fundamental to progress in all activities.

PROCEDURE:

Promote the project in the county by means of meetings, demonstrations, bulletins, newspaper articles and other publicity means. As this project deals directly with the farm home, it should be handled by the Home Demonstration Agent, where one is available.

The Agricultural Engineering Department will:

- (1) Furnish the agent with instructions on methods of handling this project, supply bulletins, plans, etc. for distribution on water supply, sanitation and home conveniences; furnish educational publicity material for use in county papers.
- (2) Send an engineer to the county to visit the farm homes and advise on the most practical water system, sewage disposal system or other home conveniences; give an estimate of the cost of installing such conveniences, and advise where equipment can be secured, etc.

The County Home Demonstration Agent Will:

- (1) Promote the project in the county by distributing the publicity material, etc. furnished by the department.
- (2) Select a number of farmers or farmers' wives who are interested in getting home conveniences; arrange for the engineer to visit these homes. (Several visits can be made in one day)
- (3) Obtain a record of the results gotten in the county due to the work on the project.

RESULTS:

Results will be measured by number of water systems, sewage disposal plants, conveniences, etc. installed in the county.

- (i) Get stamp for Agents' letters in county, stickers for letters. Big canvas for back of car.
 - (j) Send card questionnaire to all school principals, to give one to each family representative. Cover County. Purpose to advertise campaign.
 - (k) Get up mimeograph card for Agents to keep requests on
2. Visit all farm homes, from which an inquiry has been received, for the purpose of making complete survey of proposed water system.
 3. Write each farmer having survey made giving data taken and approximate estimate of cost of installation.

V. Results: Campaign results will be measured by:

1. Number of water systems installed during 12 months following date of survey.
2. Number of water systems improved during 12 months following date of survey.

AGRICULTURAL ENGINEERING EXTENSION

Farm Water Supply and Sanitation

see old project sheet

Object: 1. To

I. ~~Project:~~ Farm Water Supply. Promote the project in the county by

- II. ~~Object:~~ Procedure:
1. ~~To put on~~ a county wide campaign which will give every farm owner an opportunity to know how, and at what cost, running water can be put in his home.
 2. ~~To teach~~ farmers the fundamentals of different types of water systems.
 3. ~~To teach~~ and enlist the enthusiastic support of local leaders.
 4. ~~To instruct~~ local plumbers as to class of work generally put in in such campaigns and to ask them to cooperate with the farmers.
 5. ~~To~~ make this a definite and thorough piece of work so that it will continue under its own momentum.

III. Locality: This project should be carried to practically every Virginia County. There is immediate need for it in about 90% of the farm homes. It is hoped that ten (10) counties can be handled each year.

IV. Plan of Work:

- A. County and Home Demonstration Agents' Duties.
1. To make a survey of the county to determine the number of farms having running water in the farm home.
 2. To list hardware dealers, plumbers, well drillers, and other local agencies through which pumping equipment is handled.
 3. To list all county preachers, school principals, bankers, county stores, newspapers, and any other agencies through which the farmers may become informed concerning the campaign.
 4. To give purpose and date of campaign in all talks and interviews.
 5. To list requests for assistance on water problems received as result of publicity.
 6. To conduct the follow up work and get the record of results.
- B. Specialist's Duties:
1. Supply all educational and publicity material to agencies willing to give cooperation.
 - (a) Write weekly articles for newspapers.
 - (b) Make placards for stores, banks.
 - (c) Write agent's letters to farmers on their revised list.
 - (d) Write notices to all preachers, plumbers, dealers, school principals.
 - (e) Write District Extension Agent and School Superintendent, County Supervisors, Advisory Council.
 - (f) Get notices in all county postoffices.
 - (g) Get up school composition idea. "The Farm Water System" - Have teachers grade papers, sending only highest one in to specialist. \$25.00 in prize money from hardware men, plumbers and banks. \$10.00 1st, \$7.50 2nd, \$5.00 3rd, \$2.50 4th.
 - (h) Write Va. State Chamber of Commerce (Mr. Nelson, Dir. of Publicity), Plumbers Association, National Association of Farm Equipment Manufacturers, Water Supply Department.

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Sub-Project V.

RURAL ELECTRIFICATION.

and forms in securing electric service

OBJECT:

To demonstrate the best methods of securing electricity on the farm, and to the use of electricity in improving living conditions on the farm, and for performing various farm operations.

IMPORTANCE:

Electric energy on the farm offers a means of reducing some of the farmer's labor and power costs. Electricity in the farm home will be a Godsend to the farm housewife and will be an important factor in improving living conditions on the farm.

PROCEDURE:

Promote the project in the county by means of meetings, demonstrations, bulletins, newspaper articles, and other publicity means. The men and women agents should co-operate on this project.

The Agricultural Engineering Department will:

(1) Furnish the agent with instructions on methods of handling this project; supply bulletins or data for distribution; furnish educational publicity material for use in the county papers

(2) Send an engineer to the county to make a survey of the community and advise on best methods of securing electrical service; give an estimate of the cost; and advise on method of securing and maintaining the service; secure the co-operation of the electric power companies, if necessary.

(3.)

The County Agent Will:

(1) Promote the project in the county by distributing the publicity material, etc. furnished by the department.

(2) Select a group of farmers in a community who are interested in securing electricity on their farms, and arrange for the engineer to visit their farms. Arrange for meetings of the interested farmers.

(3) Obtain a record of the results gathered in the county due to the work on the project. Keep records over a series of years.

RESULTS:

Results will be measured by the number of farms securing electric service; labor saving equipment and other conveniences installed; reduction of labor and power costs by the use of electricity, etc. Companies organizing rural departments, etc.

- 3. Carry on investigation, demonstration in cooperation with Electric Companies.
- 4. Secure cooperation of electric companies and induce them to maintain rural service departments with qualified agricultural engineers in charge.

demonstrate

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Sub-Project VI.

Gas Engine and Tractor Schools.

- OBJECT:** To give instruction in the principles of gas engine and tractors, their operation, care and repair.
- IMPORTANCE:** There are approximately 35,000 gas engines and 7,000 tractors on the farms of the state. The number of both engines and tractors is increasing each year. This represents millions invested in this equipment. The farmers of the state can save thousands of dollars by the upkeep of equipment of this nature if they understand the fundamental principles of care and operation. This knowledge can best be gained at the short course.
- PROCEDURE:** Short courses (one to four days) will be given as scheduled, and will consist of illustrated lectures, moving pictures and practical work on gas engines and tractors.

The Agricultural Engineering Department Will:

- (1) Provide an Extension engineer to handle the instruction work.
- (2) Assist in advertising the schools by furnishing suggestive material, such as letters, etc.
- (3) Provide a complete set of teaching equipment, such as charts, sectional models, tools, films, and necessary supplies.

The County Agent Will:

- (1) Advertise the school and sign up at least ten farmers.
- (2) Provide a room or building that may be heated (A warm place to work is very essential) The co-operation of the agricultural high school instructor should be secured.
- (3) Provide material, such as gas engines and tractors to be used in the course.

- RESULTS:** Results will be measured by number of farmers attending courses and number applying what they have learned, etc.