

1919

PROJECTS: Agricultural Engineering

LEADER: Chas. E. Seitz

ASSISTANTS:

I. Problems in Agricultural Engineering being attacked this year.

1. Land Drainage.
2. Terracing.
3. Land Clearing.
4. Farm Buildings.
5. Farm Machinery.
6. Power Farming.
7. Domestic engineering, including lighting, water works and farm sanitation.
8. Miscellaneous activities along engineering lines.

II. Methods of Procedure in Connection with Each Problem.

1. Land Drainage.

Surveys of farm lands needing drainage, maps and reports prepared showing location of tile, size, cost of drainage etc. Tile systems staked out and supervision given on the laying of the tile.

Field demonstrations held when tile is being laid. Organise farmers for cooperative purchase of tile traction ditching machines, talks at farmers' meetings, articles etc.

- Advice given on the organizing of large community drainage districts.
- Organizing tile factories in different parts of the state.
- Working out of a State drainage law.

2. Terracing.

Laying out terraces in sections needing terracing. Holding field demonstrations when terraces are being built to show the making of a terrace. Talks on



the problems connected with terracing and literature distributed.

3. Land Clearing:

Field demonstrations given in cooperation with explosive and stump pulling companies.

4. Farm Buildings:

Standard plans for farm buildings prepared under department direction and distributed to farmers on request.

Advice and, in limited cases, supervision given on the erection of improved farm buildings.

5. Farm Machinery:

Demonstrations on the use of labor saving machinery and improved implements in cooperation with farm implement companies.

6. Power Farming:

Holding of competitive tractor demonstrations in different sections. Tractor schools.

7. Domestic Engineering:

Cooperating with the Home Economics department in putting on campaigns for water supply in farm homes.

Sending out literature on water supply, farm lighting and sanitation.

8. Miscellaneous Activities:

Demonstrations on the efficient arrangement of homesteads by making maps of farms and locating buildings, fields, roads etc.

Answering letters of inquiry in regard to all phases of engineering problems.