Field Trials with Fertilizers in South Dakota 1945.
Successful agriculture is dependent upon the maintenance of soil fertility. The problem of maintaining the fertility of our soils is not new. Since the early settlers first tilled the soil, more fertility or plant food has been taken out of the soil through soil building practices. The high productivity of virgin soils has been attributed to their higher content of plant food and organic matter. Continuous cropping has depleted our soils of a considerable portion of their original plant food. This is especially true for the plant food elements nitrogen and phosphorus. Maintaining the productive capacity of the soil requires the restoration of plant food through soil improvement practices which include returning manure, crop residues, plowing under legume crops, and the application of fertilizer. Of the ten primary elements essential for the growth of crops, only three may be deficient in soils, nitrogen, phosphorus and potash. These elements or plant food materials occur naturally in the soil in varying amounts, depending upon the type of soil and past soil management practices. When the fertility of the soil is not high enough for maximum crop production, plant food may be added by the application of fertilizers. In order to determine the kind and quantity of plant food to apply to the soil it is necessary to conduct field trials. Therefore, experiments are being conducted on different soil types and with different crops to determine the fertilizer need of South Dakota soils.

**Number of Pages**

5

**Format**

application/pdf

**Publisher**

Agricultural Experiment Station, South Dakota State College

**Recommended Citation**

South Dakota Agricultural Experiment Station, "Field Trials with Fertilizers in South Dakota 1945" (1945). Agricultural Experiment Station Agronomy Pamphlets: https://openprairie.sdstate.edu/agexperimentsta_agronomy/6
Walt Whitman and the trimbles: NeW Zealand, the First ConCordanCe of Leaves of Grass, and the Dunedin Public Library, frustration chooses an abstract "wow-wow" effect.