

### Experimental Program

The present experimental program includes variety testing of oats, wheat, barley, potatoes, corn and sorghums for forage; a uniform wheat breeding nursery, a nursery of sawfly resistant wheat varieties, and fertility trials with small grains. A tillage experiment involving various methods of summerfallow management is being initiated this year. On each of the different fallow treatments several different spring tillage and seeding methods will be imposed. A cooperative study with the Soil Conservation Service is also being started this year. It involves various methods of weed control in new windbreaks. A seed increase program of new and current small grain varieties recommended for this area is also being conducted at the station. One of the objectives in planning and developing the new and larger branch station was to provide a limited seed source for the area.

### CONTROLLING SMUT IN SEED WHEAT

This station's Department of Plant Pathology has shown that loose smut of wheat, heretofore controlled only by the hot water treatment, can be killed by soaking the seed for 48 hours in a cold solution of Spergon-SL, using one part of the chemical to 750 parts of water by weight. Almost as good control resulted from soaking the seed in cold water (70 degrees fahrenheit) for 48 hours, using no chemical. This treatment reduced smut to less than one per cent.

