

1950

ANNUAL REPORT

**DICKINSON EXPERIMENT STATION
DICKINSON, NORTH DAKOTA**

SECTION V

New Machinery, Equipment & Improvements

IMPROVEMENTS

New Machinery and equipment and its use:

A new Minneapolis-Moline model U standard tractor purchased this summer is needed to pull the combination 4-bottom plow, press drill and packer for small grains seeding and is also required for pulling the John Deere field forage harvester and towed trailer.

A new Jacuzzi (5-RRE-80) jet type ½ h.p. water pump was installed on the livestock farm in September. It replaces the Duro 1/3 h.p. pump which was too small and otherwise unsatisfactory, and will provide the entire water supply for the livestock farm.

A Massey-Harris 7-foot self propelled combine was purchased for use on experimental plots as well as for increase field work. The old Minneapolis-Moline 12 foot pull type combine was sold.

A high speed ¼ h.p. 220 volt exhaust fan was ordered in the spring but delivery was not made until too late this fall for it to be put to use this season. It will be installed on the nursery thresher to eliminate the dust hazard from this operation.

A much needed ½ h.p. air compressor was purchased this fall for use on the crops farm.

New office equipment purchased during the year includes a new Royal 14" typewriter, Victor adding machine, a Webster-Chicago wire recorder and a small mimeograph machine.

New Books:

New books purchased this year include:

- Feeds and Feeding(21st) by Morrison
- Beef Cattle by Snapp
- Farmers Handbook by John White
- Farm Mechanics by Cook
- Forage Crops by Gilbert and Ahlgren
- Principles of Field Crop Production by Martin and Leonard

Improvements in Physical plant:

Building improvement:

The kitchen in the house on the livestock farm was remodeled, and new Rusco storm windows were installed where they were needed the worst on this same house.

New hangers and track were installed on the barn doors at the livestock farm, and new garage doors have been purchased for the garage on the livestock farm.

New cement floor was poured in the large machine shed at the livestock farm. The old machine shed at the main station was raised, a new sill installed and concrete block foundation layed. This job, estimated at \$800 by a local house raising concern, was completed by Station personnel under the direction of the station field foreman, Henry V. Kostelecky, at a total cost of \$270. The interior of this shed is now being remodeled to include a well equipped machine shop to make possible repair and overhaul jobs on all machinery during the winter months. Nearly all the lumber necessary for this job was salvaged from the interior of the old barn on the main station which has been cleared out and is being used for a machine storage shed.

All buildings except the house on the livestock farm were rewired this fall, using underground cable. The old wiring was a decided fire hazard, did not reach the new scale house and cow sheds and was too light for use with the electric motors needed for various operations.

Two new board fence partitions and four new gates have been installed in the cattle pens to facilitate the subdivision of the herd for cattle feeding trials. A new 16 foot cattle feed rack, a 16 foot calf feed rack and a 16 foot calf feed trough have been built to facilitate feeding the cattle this winter.

Posts and wire for two miles of much needed cross fencing at the livestock farm.

A newly installed water line into the barn at the livestock farm eliminates one large outside watering tank. A new 7' circular redwood stock tank replaces the old dilapidated, leaky tank which was bought with the farm.

A complete survey of the Dickinson Experiment Station for fire hazards and recommendations for installation of added fire extinguishers was made in 1950 and resulted in the purchase of 3-15# CO2 extinguishers, nine 5# CO2 extinguishers and 5-5gallon pump type CaC12 extinguishers at a total cost of nearly \$500.

A new 36" coal burning forced air furnace was installed in the Mess House on the main station.