



Variety Selection Trials

knives. Disease free strains of potatoes are maintained through tuber indexing of potatoes in the greenhouse and through tuber unit field plots.

#### Culture and Rotation Tests

Spacing tests with Early Ohio show that maximum yields can be obtained from 1½ ounce seed pieces planted 10 to 11 inches apart in rows 3 feet apart.

Rotation tests have shown that highest yields were obtained on a short term (3-year) rotation, but that after the first rotation cycle the cleanest and brightest seed stock was produced on the longer term rotations.

Rate of maturing and soil improvement tests with sweet clover have demonstrated that moderate amounts of green

manure or stable manure (4 tons per acre) give the most profitable returns for the time and money expended.

#### ROOT CROPS Mangels and Turnips

Extensive variety trials of mangels, rutabagas and turnips have demonstrated that root crops are dependable and well adapted to the soil and climatic conditions prevailing in the Red River Valley. Under ordinary conditions of moisture and soil fertilization mangels produce from twenty to thirty tons of succulent feed per acre, stock turnips yield from five to seven tons per acre and rutabagas will yield from seven to thirteen tons per acre.

