

## A Seed Metering Device for Planting Experimental Plots

C. E. CORMANY AND WAYNE BAKER<sup>1</sup>

The Holly metering device for planting short row test plots, developed in 1945, offers excellent seed distribution in the rows and reduces labor costs more than one-half.

This device is held to the frame of many types of commercial beet drills by bolts. It does not affect the handling of the beet drill in any way. It can be adapted for 1, 2, 3, 4 or 6-row width of plots.

Briefly, it consists of a fluted roller built into a small seed hopper, the roller being turned by hand through the seed as the drill moves forward in the field. The seed is conveyed by tubes to the openings of the drill shoes, or discs, and is covered by the beet drill.

**Figure 1. A unit for planting plots 4 rows wide. For more details address the authors.**



The operator stands upon a platform held in place by angle irons fastened to the rear of the beet drill frame.

The exact amount of seed required for each plot is placed in envelopes. These are placed in consecutive order in a compartment attached to the seedhopper. Seed of the individual plot is poured from the envelope into the hopper. The operator turns the feed roller by hand as the drill moves forward. Very little practice before starting the actual plot planting is necessary to establish proper speed of turn. Seed remaining in the hopper at the end of the plot is turned out. The fluted roller is brushed with a wire brush after each plot is planted to insure against seed mixtures.

<sup>1</sup> Chief Agronomist and Research Assistant respectively, Experiment Station, Holly Sugar Corporation, Sheridan, Wyoming.