

## Horizontal Silo Unloader Is Developed By U.S.D.A.

An experimental unloader, S. Department of Agriculture reported today Unoad-research, may point the waying devices that handle silage to automatic handling and from horizontal silos are feeding of silage to livestock available, but they are not from horizontal silos, the U fully automatic.

### Dried Honey

## New Process Retains Flavor

Dried honey, a new product resulting from a drying process devised by U S Department of Agriculture research engineers, gives bakers and candy makers an opportunity to use this wholesome sweetener to a greater extent than ever before.

When reconstituted with water, dried honey has substantially the flavor of fresh liquid honey, and its free flowing granular form provides new convenience and economy in handling

This product is expected to increase the use of honey, especially in baking. The stickiness of liquid honey and its tendency to crystallize have so far limited its use by bakers

Dried honey may also be used in packaged baking mixes, for extra sales appeal and to give homemakers a convenient means of using honey in baking. Honey adds to the flavor, color, texture, aroma, and keeping quality of baked goods

The process used to dry honey is essentially the same as that for preparing full flavor juice powders, developed a few years ago by the Eastern Utilization Research and Development Division of USDA's Agricultural Research Service, at Philadelphia, Pa.

It consists of vacuum-dehydrating liquid honey rapidly, in a mechanically agitated thin-film evaporator, to yield a molten mass nearly free of water. This molten material is then fed between two chilled metal rollers which squeeze it into a thin sheet while cooling it to room temperature

The sheet is taken from the chilling rolls in the form of brittle flakes, which are

The experimental machine, which has not yet been made completely automatic, was developed during tests of various methods and devices for mechanical handling of silage in horizontal or trench type silos.

In initial tests in which a blower and pipe were used for conveying, the machine unloaded oat-pea silage at the rate of 40 pounds a minute, and corn silage at the rate of 125 pounds a minute when the blower-pipe conveyor was replaced by endless chain and cross bar-type conveyor.

Basically, the unloader comprises a 12-foot hydraulic lift and auger assembly mounted on a rubber-tired undercarriage. The auger is 9 inches in diameter and is driven by a motor fitted with a speed reducing unit. The hydraulic-lift system operates flavor and color for a year at normal room temperature. Mower knives are attached

to the faces of the auger and serve to cut and loosen the silage and pull it into the auger as it revolves. These operations remove silage by making a vertical cut 16 inches thick, 10 feet wide and 12 feet deep from top to bottom in a horizontal silo. As a cut is made the silage is carried to the conveyor by the auger as the auger-conveyor assembly descends. The conveyor carries the silage either to a truck—or it could be used with a second conveying system which, under completely automatic operation, would take the silage directly to feeding troughs. In test operations the machine required 50 minutes to remove 6,400 lbs. of silage—enough to feed 80 head of cattle 80 pounds

each. Complete automation now being undertaken by engineers in the development of the silage unloader.

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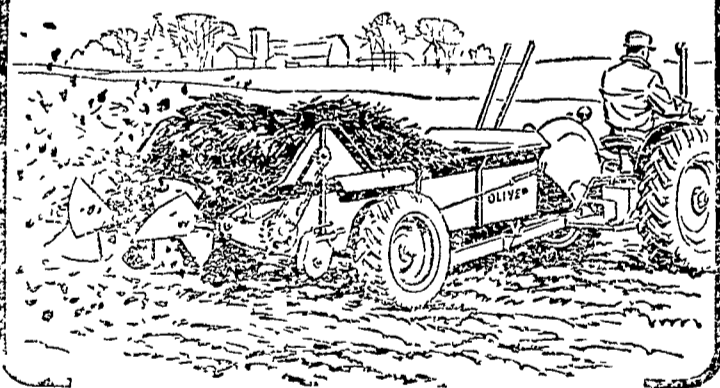
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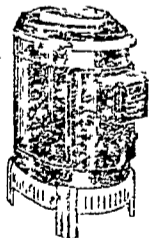
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