

UNLOADS WITHOUT RAISING BOX

Dump Truck Equipped With Hydraulic Push-Off

Here is a dump truck that's really not even a dump truck. It's a transport that unloads without being elevated by pushing off the load with a hydraulic discharge system.

Called Ram-E-Jec, it could find some uses on farms and ranches. It can unload inside buildings and tight places with low hanging obstructions, and it can meter materials for accurate discharge. The horizontal hydraulic ram gives positive unloading without the problems of bridging or sticking common to gravity flow or conveyor delivery.

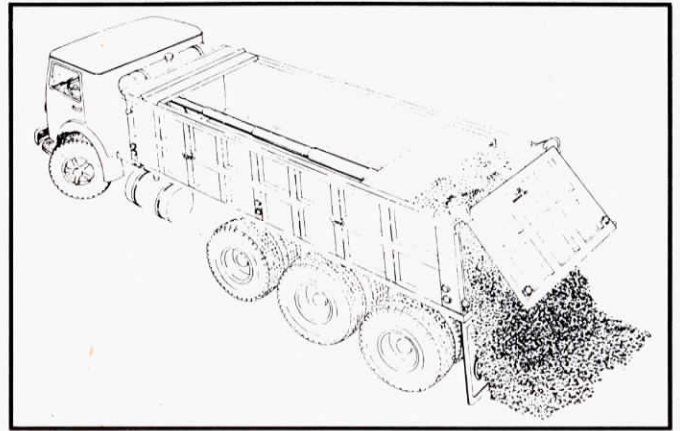
"Ram-E-Jec could be used for moving and feeding silage or grain. It

works positively for problem materials, such as extremely wet grain or silage," the manufacturer points out.

Built with a low center of gravity, Ram-E-Jec performs efficiently on steep grades or uneven ground. The manufacturer makes it in both straight truck and trailer models.

Straight truck boxes are 20 ft. long with 44-in. or 60-in. sides, with capacity of 18.3 or 20 cubic yards. Trailers range in length from 21 to 28 ft. and capacities of 19 to 30 cu. yards.

Truck units cost about \$12,000 and trailer prices range from \$20,000 to \$28,000. All trailers are equipped with FMVSS-121 brakes. Optional



Bridging or sticking is never a problem with Ram-E-Ject hydraulic unload.

equipment available includes automatic tailgate, barn door tailgate, third axle, alternate suspension, and insulated sides.

For more details, contact: FARM

SHOW Followup, Ram-E-Jec, Convento Manufacturing, P.O. Box 287, Cambridge City, Ind. 47327 (ph. 317 478-3205).

CANADIANS TEST "MELFORT" HAY TOWER

Look What They're Doing With Hay

Canadian researchers are testing a promising new method of handling hay. Called a Melfort Hay Tower, the technique has been under test for 8 years at the Agricultural Research Station in Melfort, Sask.

Basically, the Hay Tower is a tight cylinder of chopped hay with a hole up the center. The stack is formed as hay is added to it during harvest. Hay is fed out by an unloader that loosens the hay and drops it down the center hole onto a conveyor belt.

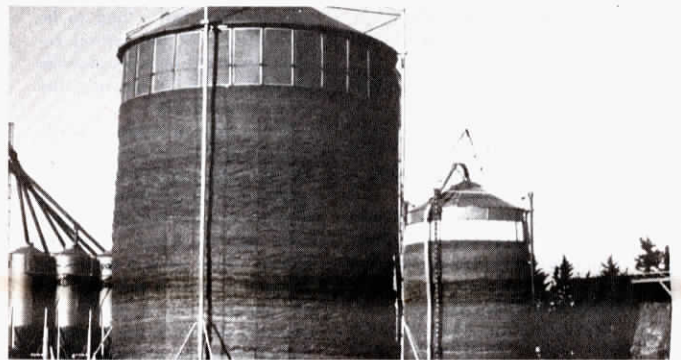
The advantage is that hay can be harvested at 50% moisture and dried with unheated air in the stack. Partially dried hay retains its leaves and has a high nutritional value. Hand-

ling it in chopped form makes for an automated harvesting and feeding system.

The Hay Tower has a 25-ft. dia. concrete base and a 5-ft. dia. air duct up the middle for drying. Four steel beams along the outside of the tower support the roof. As the stack is built, a steel "bung" forms the 5-ft. dia. hole up the middle and later diverts air blown into the stack outward horizontally to dry the hay. The roof is raised as the stack is built.

When finished, an unloader is suspended from the supports to loosen the hay and drop it down the center hole.

"Quality of hay stored in the Hay



The Hay Tower is a North American version of a German unit called the Schwarting Hay Tower.

Tower is excellent," says S. E. Beacom, director of the research station. "When we've fed it to steers, they've gained 4 lbs. daily.

"We think the Hay Tower will be useful where farmers have a problem drying hay," Beacom points out. "Right now, the economics of this method are not good, but with beef

prices going up, the Hay Tower could become an economically feasible structure."

For more details, contact: FARM SHOW Followup, S. E. Beacom, Director; Canada Agriculture Research Station; Box 1240; Melfort, Sask., Canada SOE 1A0 (ph. 306 752-2776).

"HALF THE COST OF STEEL TANKS"

New Manure Tank Made From Concrete

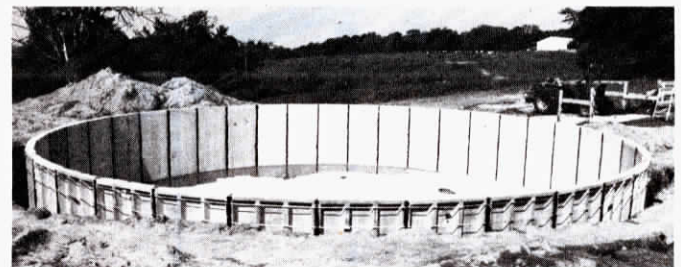
If you've been eyeing those new steel tank manure slurry systems, you may want to take a look at something different — a concrete tank that reportedly has all the convenience of a steel system for less than half the price.

"We'll build them however the farmer needs them," says Bill Setterlund, of Wieser Concrete Products, Maiden Rock, Wis. "Concrete tanks can be in or out of the ground, and they can be filled by scraping, with piston pumps or by chopper pumps from collection pits."

In-ground tanks are agitated and pumped out with open pit pumps. Above-ground tanks use a high capacity side-wall pump.

Wieser's tank consists of precast curved concrete panels that measure 10 by 5 ft., or 8 by 12 ft. The ribbed panels are 8 in. thick at the ribs and 2 in. in between. The tanks are waterproofed with tar rope sandwiched between panel sections.

The company's first concrete tank was installed on a farm near Plum City, Wis. It's 60 ft. across, has 10-ft. sides, holds 202,000 gal. of slurry,



Weiser's first tank was built in the ground, with a loading ramp up to the side. The owner fills his liquid manure wagon with a regular chopper agitator pump.

and cost about \$12,000, installed.

"We put up the walls and pour a floor. There's no fixed, expensive agitator in the center," explains Setterlund. "If built partially or totally underground, you don't need to reinforce the sides. Above ground, cables are wrapped around the structure for strength."

Concrete tanks are available as small as 45 ft. in dia., and as large as 90 ft., with sizes in between. Larger tanks are built from 8 by 12 ft. panels. A 90 ft. dia. model sells for \$16,000.

For more information, contact: FARM SHOW Followup, Wieser Concrete Products, Inc., Rt. 2, Maiden Rock, Wis. 54750 (ph 715 647-2311).