

Build Yourself A Low-Cost Liquid Manure Spreader

Ron Bernardin, Laurier, Man., built his own 5,000 gal. liquid manure spreader out of scrap material for \$1,600 — sizeable savings over the \$20,000 he says an equivalent-size commercial rig would cost.

Bernardin first cleaned up the corroded 3/8-in. thick, 21-ft. long, 7-ft. dia. tank and welded patches over the holes. He then mounted it on a 1956 REO truck frame equipped with twin axles, dual wheels and rubber block suspension. A pintle hitch and steering mechanism, added to the frame's front end, ensure that the rig follows right behind the tractor, even on sharp turns.

After welding the tank to the

truck frame, Bernardin cut a 2-ft. square opening in the top and welded on a funnel chute for loading in manure. To the front of the tank he installed a 1,000 rpm orbit hydraulic motor that powers a centrifugal pump. Manure moves from the pump through a 4-in. discharge tube to the back of the spreader where it hits a 16-in. wide flat iron spreader and is distributed in a 20-ft. wide swath. Bernardin says it takes just 10 min. to unload the tank which weighs about 50,000 lbs. full. He pulls the rig with a 110 hp. tractor.

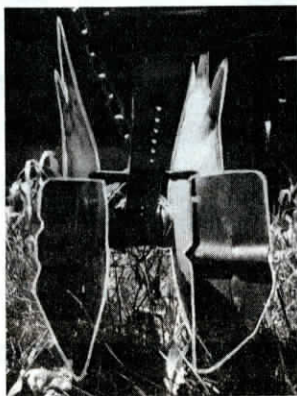
Contact: FARM SHOW Followup, Ron Bernardin, Box 23, Laurier, Man. ROJ 1A0 (ph 204 447-2487).

Cultivator "Mini" Shields

"The rolling shields on my 8-row rear-mount cultivator used to roll over the leaves and cover them with dirt during the second cultivation of corn. These mini shields, mounted inside and just ahead of the rolling shields, solved the problem," says Richard Zwaschka, Comfrey, Minn.

Zwaschka explains that during first cultivations, when corn plants are small, he has no problem. But during his second cultivation, particularly when it's windy, the rolling shields often do damage to crops. "Everyone just seemed to accept the problem as the price you pay for using rolling shields," he says.

To eliminate the problem, he took a couple of older square-shaped shields, cut pieces out of them, and mounted them on a piece of flat iron just ahead of and inside the leading edge of the rolling shields. The flared mini shields guide the leaves in



between the rolling shields, preventing damage.

"I use them for all cultivating on corn and beans. They don't interfere with the rolling shields and work great," says Zwaschka.

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Gravity Box Seed Saver

A 55-gal. drum attached to the side of a gravity box keeps soybean seed from falling onto the ground when Iowa farmer Wayne Fehr, of Whittemore, goes to fill his planter boxes.

Fehr cut the barrel in half lengthwise, attached metal straps to it and bolted the straps to the wagon door framework.

He simply opens the gravity box door, empties seed into the barrel and scoops it out with a 5-gal. pail.



Home-Built Conveyor Loads Pigs Into Pickup

A bad back made loading 55-lb. hogs into the back of his pickup a painful experience for Gerald Vandenberg, Jordan, Ont. — until he built a conveyor that loads pigs right into the truck.

Vandenberg built it from scrap material, except for two belt rollers which he bought new. The rest of the rig is built from an old corn elevator, scrap metal, plywood and rubber belting. It's powered by a 1/2-hp. electric motor.

The conveyor rides on a frame and wheels salvaged from an old corn elevator. Nineteen feet of 14-in. wide conveyor belt, fitted around the rollers, elevate pigs up the chute.

"I found that it works best to run the belt at about 240 ft. per minute to keep hogs from running down the conveyor. V-shaped lugs on the belting help provide traction," notes Vandenberg, who put 16-in. high plywood sides on the conveyor.

By moving two pins, he can change the height of the 12-ft. long conveyor to load into different sized trucks. He notes that the conveyor is well-balanced and easy to wheel by hand from building to building.

Vandenberg's discovered that hogs load better if you load them into the conveyor hind-end first. He installed two stress-easing curtains which hang from the chute and rub over the hogs' back to calm them down and make them load easier. The curtains made of a stiff fabric, extend to within 3-in. of the conveyor belt. One is hung 3 ft. up the chute and the other about 8 ft. up.

Vandenberg figures he invested about \$600 in the conveyor including \$160 on a new rubber belt.

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