



“Drip Nozzle” Tractor Sprayer

Robert Waltimyer, Turbotville, Penn., built a tractor-mounted “drip nozzle” sprayer that lets him apply liquid nitrogen directly to rows of growing corn at ground level.

“We used pieces of bicycle tire tubes on the nozzles to drop to the ground. Regular rubber hose is so stiff it’ll break the nozzles when you go over a bump,” says Waltimyer.

“The sprayer applies liquid nitrogen to ten rows of corn through 11 nozzles with bicycle inner tubes attached to the nozzles. Nitrogen is applied in a narrow band about as thick as a pencil, eliminating burn even in corn as tall as 30 in. except when turning at the end of the rows,” says Waltimyer.

Waltimyer, with the help of an uncle, converted an old Century sprayer fitted with ¾-in. pipe booms. Although the booms were drilled with noz-

zles, he didn’t use them because of rust and corrosion problems that can occur with nitrogen. Instead he stripped the sprayer down to the tank, frame and bare booms and fitted it with all plastic supply lines and T-jet nozzles spaced on 32-in. centers. All strainers have stainless steel screens rather than brass.

The final step was installing the drip pipes. The pieces of inner tube are simply clamped to the nozzles with a hose clamp and can be easily removed for conventional spraying.

“It does as good a job as anything on the market and we spent only around \$200 compared to \$2,000 for a similar commercial unit. We can apply nitrogen to about 10 acres per hour,” says Waltimyer.

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Homemade Manure Lagoon “Stirrer”

“It works great,” says Nebraska hog producer Dale Harlan, of Hickman, who built his own manure lagoon stirrer-agitator.

The main frame, 24 ft. long, is made from a 4 by 8-in. I-beam. The 1½-in. dia. drive shaft rides on three oak pillow blocks and rotates at about 1300 rpm’s. It’s

pto-drive was salvaged from a silage blower. Plate steel (¾ in. thick) was used to make the 30-in. dia., 4-blade propeller. The 3-pt. mounted hitch’s top linkage can be adjusted, via a chain, to hydraulically raise or lower the propeller end about 4 ft.



Some of the best new products we hear about are “made it myself” innovations born in farmers’ workshops. If you’ve got a new invention or favorite gadget you’re proud of, we’d like to hear about it. Send along a photo or two, and a description of what it is and how it works. Is it being manufactured commercially? If so, where can interested farmers buy it? Are you looking for manufacturers, dealers or distributors? (Send to: FARM SHOW, Box 1029, Lakeville, MN 55044).

Harold M. Johnson, Editorial Director



“Super M” Fitted With Car Engine

The desire for an older tractor that could move faster for spraying, and when going from field to field, prompted Keith Peterson, Moorland, Iowa, to install a 302 engine and C-4 transmission from a 1974 Ford Maverick into an International “Super M” tractor. Peterson says his modified tractor, used primarily for crop spraying, has a top speed of 50 mph.

In addition to the new engine and transmission, he modified the tractor by lengthening the frame two feet and moved the hood and seat ahead. He re-

placed the tractor’s narrow front end with a wide front he fashioned from the back axle of a Case 1660 combine. He also equipped the machine with a tilting and telescoping steering wheel.

Peterson says the one modification he still needs to make is to the brakes. He says the original brakes weren’t designed to stop a fast-moving machine so he has to use the engine to slow down the tractor.

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