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## EQUIPPED WITH GAUGE WHEELS

# Heavy-Duty 46-Ft. Wide Hydraulic-Fold Sprayer

"I use it for everything from banding and broadcasting herbicides to applying liquid fertilizer. Because it's built strong and is fitted with gauge wheels, it applies chemicals as uniformly and as fast as a Terragator," says Russ Day, Grimes, Iowa, who built a heavy-duty 46-ft. wide, 3-pt. mounted sprayer equipped with gauge wheels that folds hydraulically from the tractor seat.

Day built the spray boom from 3/16-in. wall 7 by 7 in. sq. stainless steel tubing. Each side of the boom is double-hinged and equipped with 3 by 18-in. hydraulic cylinders that fold the 8-ft. long boom sections 120° into a "double triangle" for transport. The boom, which weighs 1,000 lbs., is supported by a pair of 8.25 by 15 gauge wheels. Day pulls the sprayer, as well as a 1,100 gal. drawbar-mounted stainless steel tank, behind a Deere 5020 tractor repowered with a 318-hp Detroit V-8 naturally aspirated truck engine.

"It has features you won't find on any commercial sprayer," says Day. "The boom folds hydraulically so I don't have to get out of the tractor to fold it for transport. The time saved is important because we farm 80 small fields and apply postemergent soybean herbicides which have a narrow window for application. The boom is built from one solid, heavy bar. Booms on commercial sprayers are trussed, making them subject to fatigue, and are built so light that they dance and shake and flop around causing uneven herbicide application. On my sprayer

all of the sprayer components are protected on the back side of the boom where they won't get torn off if the boom hits a tree or fence post. On commercial sprayers the nozzles are often in front of the boom."

The boom can be operated from 18 in. to 4 ft. off the ground by raising the 3-pt. "As far as I know, this is the first 3-pt. mounted spray boom equipped with gauge wheels," says Day. "It offers the ultimate in boom height control because I can raise or lower the boom from the 3-pt. hitch and use the gauge wheels to let the boom flex on uneven ground. Some pull-type commercial sprayers are equipped with gauge wheels, but you can't adjust boom height on-the-go because they're not 3-pt. mounted."

Spray nozzles mount on a 1 1/4-in. dia. stainless steel pipe that's fed by a high volume 2-in. dia. inlet line that allows Day to spray up to 100 gal. per acre at high speeds. "Going 10 mph I can spray as many acres per hour as a Terragator," says Day. When the 46-ft. wide sprayer is completely unfolded, it'll cover 18 30-in. rows. When he folds up the 8-ft. long wings on each side he can spray 12 rows. Sprayer nozzles are spaced 20 in. apart. "I can spray on 20, 40, or 60-in. spacings, or use 30-in. drop nozzles, or band over the row on 30-in. spacings," notes Day, who says he spent about \$2,000 to build the sprayer.

Contact: FARM SHOW Followup, Russ Day, Rt. 2, Grimes, Iowa 50111 (ph 515 270-8188).



The 3,400-gal. fiberglass tank mounts on the bed of any tandem axle truck or it'll slide inside a truck box. A linear actuator activated by a toggle switch in the cab raises a rear discharge gate that unloads manure across the full width of the tank.

## HAULS AND SPREADS TWICE AS FAST AS A CONVENTIONAL "HONEY WAGON"

# Truck-Mount Fiberglass Manure Spreader Tank

"My truck-mounted spreader unloads more than twice as fast as a conventional round 'honey wagon' spreader and can be hauled at road speeds of 40 to 50 mph. And yet it costs only about half as much," says Jim Orr, inventor of the new Orr "Quik Spred."

The spreader is a 3,400-gal. fiberglass tank measuring 16 ft. 3 in. long, 7 ft. 6 in. wide, and 6 ft. high. It mounts on the bed of any tandem axle truck or it'll slide right inside a truck box. Nylon binder straps secure the tank to the truck bed. The top of the tank is equipped with a large 4 by 4-ft. fill hopper. A linear actuator activated by a toggle switch in the cab raises a rear discharge gate that unloads manure across the full width of the tank.

Orr, who farms near Apple Creek, Ohio, built the tank because he needed a faster way to spread liquid manure on his 250-cow dairy farm. "Traveling at 10 to 15 mph in the field you can unload the entire tank in 1 min. Going 6.2 miles round trip, I've hauled loads round trip every 10 min. I had been using tractor-pulled spreaders, but they were so slow that I ended up hauling manure late into the fall when weather and field conditions were less than ideal. Last fall we used a pair of Quik-Spreds to haul more than 1,000 loads, applying manure at a rate of 10,000 gal. per acre. We spread 3,800,000 gal. of manure in just two weeks. Faster hauling and faster spreading means you can haul when the fields are ready so there's less chance of runoff. And hauling manure at road speed makes travel to distant fields more economical. When we used a tractor and spreader we didn't want to take the time to go to distant fields so some of the fields closer to home got too much manure."

Orr says most farm trucks are well-designed for hauling large loads of manure. "Brake systems on trucks are heavier than on most tractors. Using a truck for road use also gives you the advantages of having the proper lighting for legal road use. And in the off-season you can remove the tank and use the truck for other hauling jobs. You can switch from hauling silage to hauling manure in 15 min. because of the unique nylon strap mounting system," says Orr.



This 2,250-gal. overhead tank quick-fills the spreader in just 55 sec.

Steel tubing reinforces the tank's sides and bottom. The tank contains two inside baffles which are corrugated for better strength and load control. All bolts and hinges inside the tank are stainless steel. Everything else exposed to manure is fiberglass so the tank's not affected by the corrosive effects of manure.

Orr built his own 2,250-gal. overhead fill tank which is designed to fill his spreader from a 20-in. wide valve. "It takes only 55 sec. to fill the spreader. I simply reach out the truck cab window and pull a lever on a hydraulic pump to open the valve," notes Orr. He mounts the tank on the truck with an overhead chain hoist and a skid steer loader. "Two front-end loaders could also be used to lift the tank onto the truck," he notes.

Sells for \$5,000.

For more information, contact: FARM SHOW Followup, Jim Orr, 9354 Lautenschlager Rd., Apple Creek, Ohio 44606 (ph 216 698-1802) or Monarch Plastic Inc., 516 Jefferson Ave., Orrville, Ohio 44667 (ph 216 683-0822).

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