

Made It Myself

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"Mini-Buggy" Sprayer

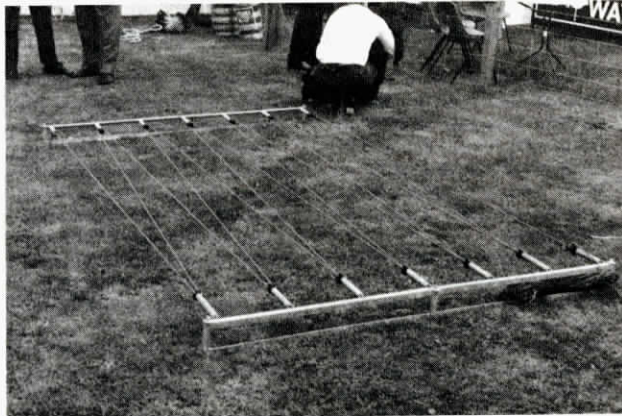
DeJong Welding, Sheridan, Oreg., has come up with a spray rig that doubles as a dry fertilizer applicator. The "Mini-Buggy" features a 151 cu. in., 4-cyl. gas engine with a 4-speed manual transmission. It has a 104-in. long wheelbase and is 60 in. wide, equipped with flotation tires. Its spray tank interchanges with a dry fertilizer hopper.

"It's a lightweight, high-flotation spray buggy with three wheels so you don't double-track your crop," says Michael D. Brown, manager of De Jong Welding. "The steel spray tank holds 200 gal. and has a mechanical agitator. The

sprayer's equipped with a centrifugal pump and electric boom control valves. Booms can be custom-built to any size needed. The machine has a rear axle rated at 7,500 lbs. and weighs 4,300 lbs. empty.

"The heavy-duty components are especially good in rough terrain while the light weight of the machine lets you go through soft spots without leaving deep tracks," says Brown, noting that you can switch from flotation wheels to narrow wheels for in-crop work.

Contact: FARM SHOW Followup, DeJong Welding, Rt. 1, Box 74, Sheridan, Oregon 97378 (ph 503 843-3415).



Electric Drive-Over Gate

"At first cattle may challenge it but once they get zapped they'll give it a wide berth," says Clive Raines, Dene Fencing, manufacturer of a new electric drive-over fence that features electrified ropes stretched across a gate opening in a zig-zag design that can be driven over by tractors, trucks and cars.

The gate uses heavy-duty marine rope laced with 12 strands of stainless steel wire. It can be set up in widths up to 20 ft. wide on springs attached to a galvanized frame and can be powered separately or hooked into any powered electric fence.

"Animals first try to step through it but as their feet get tangled, they reach down to sniff it and get zapped. They almost never try it again," explains Raines, noting that "There are no pits to dig or structures to put up. About the only maintenance the gate requires is an occasional treatment with herbicide for weeds that may grow up beneath it."

The gate sells for about \$110. Contact: FARM SHOW Followup, Dene Fencing, J.M. Dene Ltd., Sigwells, Sherborne, Dorset, England (ph 096 322 439).

Double Boom Sprayer

"I don't know of anything else like it on the market," says Gerard Clavelle of the self-propelled double-boom sprayer he built in his farm shop. "It's two separate systems on the same vehicle, each with its own tank, pump and boom.

"The big advantage is being able to apply two different sprays at the same time that would not be compatible in a tank mix. I often spray herbicides with one system while applying a grasshopper or flea beetle insecticide with the other," explains Clavelle.

He built the sprayer frame from the rear ends of two old school buses, which makes it a 4-wheel drive vehicle. It's powered by a 330 Ford engine. The frame, differentials, and cab are all used equipment. The hydraulics, belts, bearings, cen-

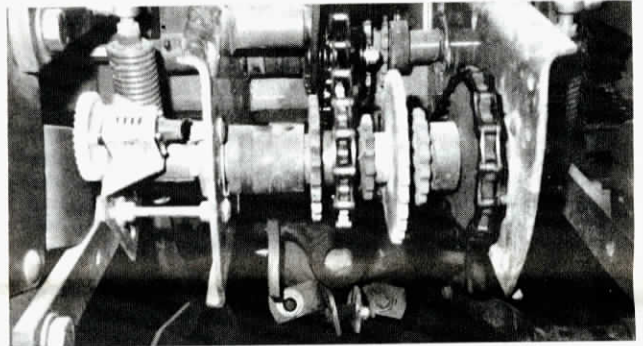
trifugal pumps, 300 gal. tank, and 500 gal. tank are new.

The two booms are mounted together and have a span of 62½ ft. A 10-ft. section on each end of the booms can be raised for spraying slopes, or can be folded back for working in tight places.

Clavelle runs the sprayer at 17 mph in the field, and 25 mph on the road. He sprays 6,000-7,000 acres per year of wheat, rapeseed, and other grains.

"The closest commercial machines like it cost about \$80,000 and don't have as many features," says Clavelle, who figures he has about \$17,000 invested in his home-built rig.

Contact: FARM SHOW Followup, Clavelle Farms Ltd., P.O. Box 310, Viscount, Sask. SOX 4M0 (ph 306 944-4546).



Max-Emerge Acre Counter

"When my father and I decided to look for an acre counter for our 12-row Deere Max-Emerge planter, we discovered that the Deere acre counter cost almost \$1,000 and that other mechanical counters weren't to our liking. We decided to build our own," says Tom Dillman, Grinnell, Iowa.

"Our acre counter is driven by the lower shaft of the planter transmission. We think this is the perfect location because this shaft doesn't turn unless the planter is in the ground and stopped and start the counter each time the planter is raised and lowered.

"We used a simple mechanical rotary counter and two plastic gears bought at a local supply company. I figured out the gear size needed with some relatively simple math. One of the gears was fitted to the small shaft on the counter and the other gear was fitted to a special "spud" we made that fit directly to the planter transmission shaft. The counter is mounted on an adjustable angle bracket with slotted holes that lets you slide the gears into exact mesh.

"Other acre counters clamp to

the planter rockshaft. They engage and disengage when the planter is raised and lowered. In many cases the spring tension on the gears can weaken, allowing the gears to ride over each other and give inaccurate results. Since the shaft we mount on is disengaged by the planter itself, our gears always remain in constant mesh with no sliding or slipping.

"Besides helping measure fields, the counter helps adjust the planter. You can tell in the first round if your seed population and insecticide rates are correct. Without a counter, you have to guess how many acres each bag of seed is covering, or wait till you're done with the field and by then it's too late.

"Our counter fits any Deere 7000 or 7100 planter ever made and also fits Kinze planters. It'll fit any planter from 4 to 24 rows with a change of gears. We've been building and selling the counter locally for about \$65. We're looking for a manufacturer to handle it."

For more information, contact: FARM SHOW Followup, Tom Dillman, Rt. 3, Box 105, Grinnell, Iowa 50112 (ph 515 236-6432).