



Sprayer's axle came off an old Deere 96 pull-type combine and tires off a Deere front wheel assist tractor. Henry used 4 by 6-in. steel tubing to build sprayer frame.

## 1,000-GAL. TANK AND 90-FT. BOOM CARRIED BY 18.4 BY 26 DUAL TIRES

# High-Capacity Flotation Sprayer

High capacity, low compaction, and ease of operation - that's what Dallas Henry, Seneca, S. Dak., wanted when he built his 90-ft. flotation sprayer equipped with a 1,000-gal. tank and big 18.4 by 26 dual tires.

"I wanted the advantages of a commercial high flotation sprayer without having to spend the money for one," says Henry. "I spent only about \$8,000 to build it. Commercial sprayers of comparable capacity sell for about \$15,000 or more and don't have dual tires."

The sprayer's axle came off an old Deere 96 pull-type combine and the tires off a Deere front wheel assist tractor. He narrowed the axle up by 28 in. so the inside tires run on 76-in. centers, allowing them to fit between his 38-in. corn rows (he uses single tires when working in row crops). He had a machine shop make spacer bands that fit between the wheels to mount duals. He used 4 by 6-in. steel tubing to build the sprayer frame and equipped it with a 90-ft., 5-section Blumhardt boom equipped with 3/4-in. spray nozzles. A home-built slide assembly on back allows the booms to be hydraulically raised or lowered 3 ft., depending on crop height. Each outside boom section can be hydraulically raised on side hills to keep it from digging into the ground. The boom folds manually for transport.

The sprayer is equipped with a 45-gal. clean water tank for rinsing out the main tank, a 14-gal. foam marker tank, and a 3-gal. tank for washing hands. It's powered by a hydraulic-driven centrifugal pump.

"I use it to spray postemergence herbi-

cides on small grain in the spring and to spray Roundup on stubble in the fall, as well as to spray liquid fertilizer and preemergence herbicides on corn," says Henry. "The flotation tires allow me to spray in wet fields without sinking in. I use a 150 to 180 hp tractor, either 2 or 4-WD, to pull it. Using dual wheels on both the tractor and sprayer leaves a light footprint. I can spray 4 to 5-in. high wheat and in three to five days you can hardly tell I was in the field. The dual wheels also provide a wider stance which makes the 90-ft. boom more stable.

"I had been using a small pickup sprayer but I wasn't satisfied with it. It was hard to load and I couldn't cover ground very fast, which made spraying a drag. My home-built sprayer covers up to 100 acres per hour in small grain. The tractor cab has a filter on it so I'm always breathing clean air and I'm up higher so I have a better view. I use a MT3000 monitor in the cab to control sprayer operations. The boom assembly mounts on four bolts which makes it easy to remove, and the hoses hook up to Pioneer hydraulic quick couplers on back of the sprayer frame. By removing the boom, mounting a hitch on back of the sprayer frame, and hooking up the hoses, I can pull a tillage implement behind the tank to deep band liquid fertilizer.

"To remove the outside tires I throw a block under the middle of the boom and lower it until the tires raise off the ground."

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Using duals on both tractor and sprayer leaves a light footprint. Slide assembly on back allows booms to be hydraulically raised or lowered 3 ft., depending on crop height.



Seymour fitted swather with a heavy-duty mast off a junked forklift. He uses the lift to pick rocks by mounting a commercial rock picker bucket on front.

## "TURNS ON A DIME"

# Swather Converted To Forklift, Rock Picker

When Jim Seymour decided he needed something more agile than the tractor loader he used to move bales around his farm, he came up with a forklift that turns on a dime and handles square bales with ease.

"It's got a 9-ft. turning radius so it maneuvers like a charm around the poles," says the Cavan, Ontario, dairy farmer. "It also stacks bales up to 15 ft. high."

He started with an International 201 swather equipped with a 42 hp C-135 engine, stripping it down to the frame and shortening the rear end 3 ft. to give it a 5-ft., 6-in. wheelbase.

The swather's single rear caster wheel was removed and replaced with a caster wheel on each side for better stability when loaded. One of the wheels was the original swather wheel, the other came off a New Holland swather.

Seymour fitted the swather with a heavy-duty mast off a junked forklift. It operates off a 4-in. dia. cylinder on front of the swather. He uses a single 25 gpm hydraulic pump out of an old dump truck to raise and lower the lift.

As a precaution to keep sparks from igniting hay or dust, the engine's exhaust pipe is diverted through a baffle around the fuel tank that's filled with water.

To lift bales up to 15 ft. high, Seymour built a quick-tach bale fork. It's fitted with four 27-in. long prongs made from 1 3/8 in. steel tubing.

"You'd only need three prongs to handle our 38-in. sq., 6-ft. long bales," he says, "but I believe in over-building things rather than



Forklift handles big square bales with ease and stacks them up to 15 ft. high.

under-building them."

Seymour used the forklift to handle 400 bales last year. He says it performed flawlessly, requiring only a few minor modifications for its second season.

He also uses the lift to pick rocks by mounting a commercial rock picker bucket on front.

Out-of-pocket expense was about \$3,000 (Canadian).

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To lift bales Seymour built a quick-tach bale fork fitted with four 27-in. long prongs.