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## Skid Steer-Mounted Chain Trencher

"I call it a poor man's trencher, but it does the work of much more expensive machines," says Chuck Hardenburger, Haddam, Kansas, who converted an old 3-pt. trencher to a skid loader-mounted model.

The 10-ft. long trencher was originally designed for a Ford 8N tractor. Hardenburger bought it at a farm sale for \$50. He bought a quick-tach plate for \$100 and then built a steel frame to mount the trencher on it. He also bought a used hydraulic motor and attached it to the trencher's chain drive system. The motor is coupled to a shaft that goes through a reducer gearbox to drive the chain.

The trencher was equipped with an attachment that was designed to pull loose dirt away from the trench. Hardenburger removed it and mounted a pair of 2-ft. long, 1-ft. dia. augers that remove dirt from both sides of the trench. "I found the augers in a junk pile and built a sprocket that chain-drives the trencher and rotates the augers."

"I've used it for several years on my New Holland C190 skid loader with no problems. It makes a trench about 8 in. wide," says Hardenburger. "I use it to do foundation work around buildings and to dig electric and water lines. I can trench going forward and have



He bought a used hydraulic motor and attached it to the trencher's chain-drive system.

the entire operation in front, making it easy to operate.

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Upheld sign acts as a sail to turn scarecrow wind chimes that dangle from lower arm.

## Wind-Powered Scarecrow Keeps Garden Critter-Free

By Linda Greer

To keep crows, squirrels and rabbits from raiding his wife's vegetable garden, Darren Holliday knew there had to be a simple "no kill" solution. There are lots of fancy garden gadgets on the market but he finally decided to go with an idea that's centuries old. A homemade scarecrow.

Holliday, whose hand-pump for deep wells was featured in FARM SHOW last year (Vol. 37, No. 5), wanted a scarecrow that would be life-like, with motion and noise. He came up with a man-sized mannequin that turns around with the wind and is fitted with wind chimes.

Holliday used scrap pvc pipe, woven wire, plywood, and metal pipe. The plywood warning sign attached to the scarecrow's up-raised arm works as a sail, pointing the scare-

crow in the direction of the wind. There's a comical warning to critters on the front of the sign and a pair of owl's eyes painted on the back.

A set of wind chimes, made from pieces of electrical conduit, dangles from the scarecrow's lower arm, jingling in the breeze.

Holliday's wife made the head out of pantyhose, used pillow stuffing, buttons and yarn.

He says it's a fun addition to the garden and is easy to move around to keep pest animals guessing.

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Leo Goll built this front-end loader for his 1940 International Harvester A offset tractor. "IH never built a loader for this tractor so I decided to do it myself," he says.

## He Built A Loader For His "Offset" IH

"It was a fun project to do, but also a real challenge," says Leo Goll, Bismarck, N. Dak., who built a front-end loader for his 1940 International Harvester A offset tractor.

Goll bought the tractor 5 years ago in rough shape and totally rebuilt it. "IH never built a loader for this tractor so I decided to do it myself. Because the tractor is offset it was a bit difficult, but it turned out fine. The tractor was like new when I got done," he says.

The loader is built from 3 by 4-in. tubing and has a lift height of 10 ft. Its bucket measures 5 ft. wide and is made from 1/4-in. thick steel plate.

"I put it together day by day as I found time," says Goll. "The biggest challenge was compensating for the engine and hood, which

are mounted on one side of the tractor." He used sq. tubing to build a big mounting frame that supports the loader arm on the open side of the tractor. The loader arms are fastened to the tractor using available bolt holes and are reinforced by braces that run to the rear axle.

He also added live hydraulics to the tractor. A crankshaft-driven hydraulic pump supplies oil to four 2-in. dia. cylinders, which raise and lower the loader and tilt the bucket. The loader cylinders are off an old Ford loader and were rebuilt to fit.

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Nick and Jackie Creveling turned an old wagon gear into this rolling self-service produce stand. It's covered by a corrugated metal roof.

## Rolling Self-Service Produce Stand

Nick and Jackie Creveling, Cedar Springs, Mich., turned an old wagon gear into a rolling self-service produce stand that can be put away safely at night.

They built the bed of the wagon with 2 by 4's covered by a 4 by 8-ft. sheet of plywood. They put a sloped roof over it with 2 by 4 uprights and corrugated metal roofing material that extends out over the sides to protect customers while selecting produce. A removable hitch keeps anyone from easily

hooking up to the wagon and towing it away.

The produce stand is fitted with an 18-in. long, 3-in. dia. pipe with a slot in top for inserting payment. There's also a plastic bag dispenser which is just a short piece of pipe mounted vertically. Wire shelves hold jam, honey and other smaller items.

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