

A double toolbar carries the staggered tillage and planter row units along with a 300 gal. fertilizer tank and a 55 gal. herbicide tank.

## STAGGERED ROW UNITS

# One-Pass "Till-Planter" For Rocky, Trashy Soil

"It's a state-of-the-art tillage and planting machine that far out-performs every other machine on the market," says James Downing Jr., Trevilians, Virg., about his new one-pass "Till-Planter" that's specially designed to excel in trashy, rocky soil.

Row units on the 7-ton Till-Planter are staggered 33 in. from front to back on a double set of toolbars to make plenty of room for trash to pass through. The trailing machine rides on two big-wheeled walking beams that provide stability on uneven ground.

"The tillage components of this machine are similar to the design of Bush Hog's one-pass Ro-Till system but we found the Ro-Till - and other similar equipment - to be totally inadequate for our conditions. While other machines present a 'wall of steel' as they move through trashy fields, this staggered design lets even the heaviest trash pass through without plugging or dragging, and the spring-loaded subsoil shanks retract from rocks," Downing told FARM SHOW, noting that he's successfully operated the machine in weeds as tall as 6 ft.

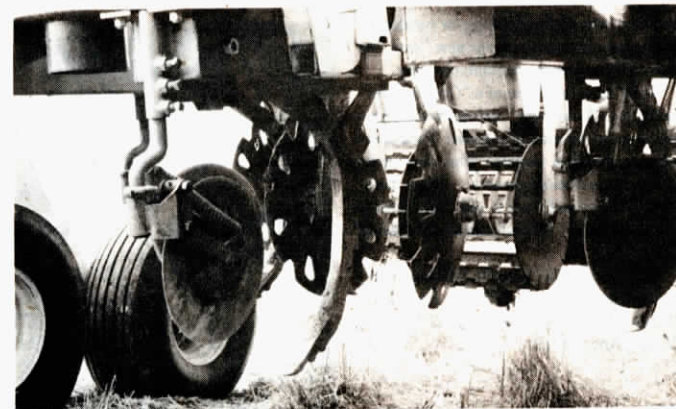
The compact Till-Planter - it measures just 15 ft. from front to back - has an up-front spring-loaded coulters that first cuts a slot through vegetation and soil. It's followed by a chisel plow shank, used as a subsoiler with a tooth running 10 to 12 in. deep. A liquid fertilizer tube runs down the back of the subsoiler shank. Specially-built Ingersoll disc blades run on either side and slightly behind the subsoiler shank to catch dirt that flows around the subsoiler shank. The slightly concave disc blades are

notched around the outer perimeter and have cut-outs in the surface of the blades. The discs mix and up and sift dirt behind the shank, piling it over the subsoil slot. A rolling basket trails behind and performs final seedbed preparation ahead of the conventional Deere Max-Emerge planting units. The chain-driven planter units are controlled by a computer-controlled hydraulic unit made by Hydraulic Control Systems, Monticello, Iowa.

"It's built very compact so that even on turns the planter units always plant directly into soil packed above the 1-ft. deep subsoil slots, making fertilizer easily available to the crop as it grows. Each row unit mounts independent of the others to easily handle rough or rocky ground," says Downing. The machine carries a 300 gal. fertilizer tank and a 55 gal. herbicide tank. Requires 40 to 50 hp. per row to operate. Downing uses a Deere 8630 to pull his 6-row prototype. He notes that a grain drill could be mounted on back in place of planter row units. Downing's 6-row machine, set up for 30-in. rows, is 20 ft. wide in the field. For transport, the two outside row units and carrying wheels fold to a width of 13 ft., 6 in.

The first prototype, built from the ground up by Downing, has been tested successfully on 230 acres. Downing hopes to find a manufacturer or investors to bring the machine to market.

For more information, contact: FARM SHOW Followup, James H. Downing Jr., president, American Agri-Technologies, Inc., Rt. 3, Box 1695, Trevilians, Virg. 23093 (ph 703 967-2379 or 967-0875).



Spring-loaded coulters is followed by a chisel shank, special notched covering discs, and a rolling basket. The planter follows directly behind. Each row assembly is staggered 33 in. to allow trash to pass.

## CLEANS OUT CIRCULAR OR FLAT STORAGE BINS, SHEDS

# "Full Circle" Bin Sweep

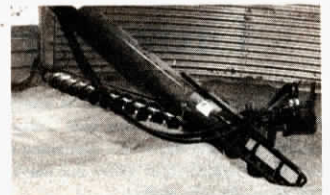
Three key features set the new Clean Sweep apart from anything else on the market, according to inventor Lynos Swanson, of Lawton, N.Dak.

"It stays level with the floor and cleans out grain to the bottom of the bin, makes a complete 360° circle, and operates without your having to be in the bin," explains Swanson.

"Other bin sweeps I've seen don't work level with the ground. Under the pile of grain, they rise up and the sweep passes over grain so there's a lot that has to be shoveled by hand. Ours has a pin to hold the sweep down so most of the grain is pushed into the auger. Coupled with a cleanup shield on the back of the sweep, it empties the bin and leaves very little grain to shovel. The shield keeps the auger full. There's less dust because the 7 in. auger is down in the grain."

A rubber-padded drive wheel propels the sweep "so you don't have to be inside the bin, except to move the auger once, and a little while when the bin is nearly empty," notes Swanson.

Hydraulic power for his the new Clean Sweep can be provided with a tractor, or with an optional hydraulic pump. The standard unit fits 17.5, 18, 19 and 21 ft. dia.



Clean sweep stays level with floor and makes a 360° circle.

bins. Available with 2 and 3 ft. extensions for bigger bins. Works in Quonsets or other flat-storage buildings, as well as in circular bins.

"You don't have to put center cleanouts in your grain bin floors because the Clean Sweep auger serves the same purpose," Swanson point out.

Standard Clean Sweep with auger mount sells for about \$700. Entire package, including sweep, auger mount, hydraulic pump, tank, control box, hoses and belts, sells for right at \$1,000.

For more information, contact: FARM SHOW Followup, Clean sweep Auger, SSR Pump Co., Box 66, Michigan, N. Dak. 58259 (ph 701 259-2331).

## JUMPS AND HOLLERS ON COMMAND

# "Scarry Man" Scares Pest Birds, Animals

Latest new way to chase away pest birds and animals is the "Scarry Man" scarer, manufactured in England and now available in the U.S. and Canada.

"It combines noise, motion and the element of surprise," says Andrew Clayton, North American importer. "Thanks to its great success in England and other European countries, we're now making it available throughout the U.S. and Canada."

At preset intervals — generally about once every 20 or 30 minutes — the device suddenly inflates (via a built-in battery powered compressor) to resemble a 6 ft. tall person dressed in colored fluorescent orange and white clothing. Its arms wave and a siren sounds. After 60 seconds of "jumping and screaming" the Scarry Man suddenly collapses into an inconspicuous heap. "We recommend setting a row of rectangular hay bales around it to keep it hidden and thus add to the element of surprise when it goes off," says Clayton.

He adds that one device for every 10 to 15 acres of cropland is generally sufficient to chase away unwanted birds.

Available in four "all-weather proof" models with solid state electronics: **Day Time Flip-Flop** (retails for \$385): For use during daylight hours and with arms that flop; **Day Standard** (\$380): Without arms; **Multi-Use Flip Flop** (\$390): Comes with a built-in light for chasing away raccoons, foxes and other nocturnal animals, and with arms that flop; **Multi-Use** (\$385): Comes with light but without flopping arms.

The light on day-night, Multi-use models automatically shuts off during daylight hours to save on the battery. Normal battery



Scarry man inflates to resemble a 6 ft. tall person. Siren sounds when figure stands up.

life is about 2 weeks, says Clayton. All models operate on a regular car battery (not included) and come with a 60 second siren that sounds whenever the device suddenly inflates to stand-up position. Siren or light can be turned on or off manually to suit needs.

Contact: FARM SHOW Followup, "Scarry Man" Scarer, Andrew Clayton, Importer, Rt. 10, Box 791 B, Salisbury, N.C. 28144 (ph 704 633-8639).