



Twin cylinders up front control the fold-up scarifier. Dual rear wheels caster to follow any contour.

## FEATURES SEPARATELY CONTROLLED REAR WHEELS AND PIVOTING BLADE

# Scarifier-Scraper Does Work Of Bulldozer

"This tractor-mounted scarifier scraper can do many of the jobs normally done with a bulldozer," says Iowa inventor-mechanic Jim Furman, of Marengo.

Further, he claims, the rear-mounted machine solves many of the problems often experienced with other types of front- or rear-mounted land-forming equipment. "It boils down to one word," says Furman "Control! Separately controlled rear wheels and a pivoting blade are the key features. It does a very accurate job of leveling" says Furman.

He is looking for an interested manufacturer, but says he has limited capacity himself to make the machines. Retail cost is right at \$8,500.

The unit can be used to level ground, make terraces, and perform

other earth-moving tasks, and requires a 150-hp tractor with 3-pt hitch. It weighs 4,600 lbs. and needs triple hydraulics.

The blade is controlled by the rear wheels as well as by moving the 3-pt hitch. Also, blade ends can be elevated independently, and the scarifier knives in the front can be raised or lowered independently. The hydraulic hoses are enclosed in pipe so they can't be damaged.

Between 1.5 and 2.5 cu. yd. of dirt can be moved in one pass, and the scarifier knives can be operated 10 in. deep. The scarifier knives and bottom of the blade are replaceable.

For more information, contact: FARM SHOW Followup, Furman Body Shop, Highway 6 East, Marengo, Iowa 52301 (ph 319 227-7700, or 642-5500).

## DROPS TIRE INSTANTLY

# "Easy Off" Carrier For Pickup Spares

Anyone who's ever fought with a muddy pickup spare will be amazed by the simplicity of a new spare tire handler invented by Jerry Maxwell, Thompson, Mo.

The new "Tire Caddy" consists of a strong steel cable and a lockbox winch that mount beneath the bumper and bed of any pickup or van on the market.

"You just turn the key on the lockbox and the tire, which is tied to the cable, drops instantly to the ground. Then, you simply reach under the pickup and slide it out," Maxwell told FARM SHOW.

To replace the tire, you slip the hook device at the end of the Tire Caddy cable into the rim center as the tire lays on the ground and crank it back up with a tire wrench. Turning

the key to the locked position secures the tire in place.

The Tire Caddy mounts by drilling just four holes — two in the bumper to hold the lockbox and winch, and two on the truck frame for the tire cable housing. Some pickups, including all Dodge pickups, require a slight adapter kit that consists of a bar on which to hang the cable.

A special model is available for vans, RV's and other vehicles up to 1-ton size. Maxwell is working on a heavier model for all trucks, including semi's.

For more information, contact: FARM SHOW Followup, Jerry Maxwell, Maxwell Custom Trailers, Rt. 1, Thompson, Mo. 65285 (ph 314 581-7010).



Six calf pens inside the former greenhouse measure 12 by 15 ft. and hold 4 or 5 calves each.

## COST ONLY \$2,400 TO CONVERT AND HOUSES 30 CALVES

# Old Greenhouse Makes Low-Cost Calf Barn

A low-low cost calf barn, formerly a greenhouse, has served New York dairyman David Bush, of Homer, very well. It's raised 85 calves in three years, with no more than the normal number of calf deaths.

"To boot, it's not a permanent building so I haven't had to pay any taxes on it," David adds.

He bought the greenhouse, then covered it himself with a double-wall of 6-mil plastic. The amount of air space between, for insulation, varies from 3 to 8 in.

Cost of the plastic was about \$300 three years ago, but now needs replacing. The greenhouse arches (4 ft. apart) are aluminum and cost him \$800 total. Center height is about 10 ft.

Total money spent to convert the 22 by 96 ft. structure into a calf barn was \$2,400. "It will house 30 calves, plus store feed. You can't build calf hutches for that," exclaims David, who milks 70 cows.

Sunlight shining through the plastic warms the structure, along with an assist from the manure pack in the

process of composting. David speculates that a space heater could be installed in such a structure, if needed during winter months.

Three fans circulate air, and straw bedding is used on the gravel floors. "I don't see why a greenhouse like this wouldn't work pretty well for hogs or poultry, too," David told FARM SHOW.

Moisture condensation is a slight problem, but the New Yorker speculates that he simply needs more ventilation. To clean out manure, he drives a tractor loader inside twice a year. Electrical wiring and lights are affixed to the arches, and a 20-in. air tube full length distributes air.

David lets the greenhouse stand empty in July and August but says it could be used by covering the greenhouse top with nylon mesh to help keep it cooler.

Six calf pens measure 12 by 15 ft., and house 4 to 5 calves.

For more information, contact: FARM SHOW Followup, David Bush, Rt. 1, Homer, N.Y. 13077 (ph 607 749-3283).



Tire wrench powers cable to pull tire in place under truck.