



Vac-U-Loader's maximum capacity is up to 550 bu. per hr.

## NEW EVAC-U-LOADER FROM FRONTIER

# Vacuum Sweeper for Grain Bins

If you store a lot of grain, you'll be especially interested in the E-Vac-U-Loader from Frontier. The vacuum grain mover is designed to clean grain bin bottoms. Maximum capacity is up to 550 bu. per hour, depending on type of grain, height and distance the grain is being moved by the unit's suction hose.

The E-Vac-U-Loader, available in 3

pt. hitch or 2 wheel trailer models, is powered by a 40 hp. or larger tractor. The unloading auger accommodates all conventional farm trucks. Comes with standard 36 ft. long suction hose. Sells for \$2,185.

For more details, contact: FARM SHOW Followup, Frontier, Inc., Box 795 West Fargo, N.D. 58078 (ph. 701-282-2970).



Trailer's unique hookup allows it to be dumped at any angle up to 45°, using the tractor's 3 pt. hitch.

# Trailer Dumps At Sharp 45° Angle

Here's a dump trailer without any hydraulic cylinders, hoses or valves. It's attached to the tractor with a unique 3 pt. hitch that allows it to dump at a 45° angle, just by backing up.

The flatbed trailer comes in three sizes — 38 in. by 60 in., 50 by 78, and 60 by 96, with 1,200, 1,500 and 2,000 lbs. capacity, respectively. Accessories available include side boards, end boards, swinging tailgate and drawbar coupler. The larger models also have two positions for mounting

the wheel for better weight distribution when towing with a solid drawbar.

The smallest of three models has a suggested retail price of \$450. The medium size is priced at \$595, and the biggest model at \$895. Side boards range from \$70 to \$100 per pair.

For more details, contact: FARM SHOW Followup, Bruin Corporation, P.O. Box 1191, Woodland, Ca. 95695 (ph. 916 662-7983).



Nalco lubricant improved scouring and reduced draft up to 35% in NTML tests at Auburn, Ala. Test facility shown is much more elaborate than simplified kit developed by Nalco.

## "GREASY" WAY TO PLOW

# New Lubrication Kit for Moldboard Plows

That experimental grease injector for plowing gumbo and other problem soils which was featured in FARM SHOW a year ago is now on the market.

"We think it has exciting possibilities for more than making it easier to plow gumbo or other sticky soils," reports Jeff Girard, of the Nalco Chemical Co., Oakbrook, Ill., developer of the new tillage lubricant called "Nalcotrol".

"Early in the spring, for example, a plow equipped with our new Nalcotrol injector kit may be able to work fields too wet for conventional, unlubricated plows. Being able to plow fields a week or two early could make a big difference in crop yields. Or, even under good plowing conditions, the lubricant may be able to reduce friction enough to allow an underpowered tractor to handle a given size plow."

Nalcotrol is a slippery, water-based lubricant which is piped to individual bottoms to keep the surface of the moldboard "greased". In extensive tests conducted by Nalco in cooperation with engineers from International Harvester and the National Tillage Machinery Laboratory (NTML Lab) at Auburn, Ala., the lubricant improved scouring, and reduced draft up to 35%. A key feature of the tillage lubricant is that it is water soluble and biodegradable, which means it breaks down and leaves no residue in the soil.

Nalco has developed an applica-

tion kit made up of parts readily available from most crop spraying equipment supply firms. A key component is a Trabon distributor block which feeds the lubricant to each moldboard at the rate of two "squirts" per second.

Cost varies, depending on the style of plow and the number of bottoms. A five bottom "flipover" plow, for example, would cost about \$400 to equip. Cost of the lubricant ranges from \$1.00 to \$1.50 per acre. One gallon of Nalcotrol treats about 10 acres. The injector can be turned off when not needed, then turned on when you hit a gumbo or wet spot.

"We believe that polymer lubrication of plows, and perhaps other tillage tools, is a reality for farm use," concludes agricultural engineers from the National Tillage Machinery Laboratory who tested the idea. "The polymer is biodegradable, inert and harmless as we used it in the soil. It is easy to mix with water and easy to handle. All of the components except the distributor blocks are the same components farmers use to meter and distribute sprays and other materials. The distributor blocks are fairly simple and easy to assemble."

For more details on both the tillage lubricant Nalcotrol and the applicator kits, contact: FARM SHOW Followup, Nalco Chemical Company, Ag Products Department, 2901 Butterfield Road, Oakbrook, Ill. 60521.