

New Products and Equipment . . .

Silage Preservative

Sil-Aid, a sodium metabisulfite silage preservative for all types of forage, has been introduced by the Virginia Smelting Co.

Sil-Aid makes it practical to ensile unwilted forage and protect it against spoilage, loss of nutrients, the development of objectionable taste, odors, and high, destructive temperatures.

Varying according to location and market fluctuations, cost of Sil-Aid treatment usually is less than \$1.00 per ton of forage.

In silo tests, timothy and red clover silage treated with Sil-Aid lost less than 10% of the dry organic nutrients in four months. The same type of silage in the same type of silo lost almost 40% when untreated, in the same four-month period. Sil-Aid effectively suppresses bacterial decomposition which destroys these nutrients, causes heat and unpleasant taste and odors.

Tests have shown that Sil-Aid has preserved 86.5% of the carotene in timothy red clover silage, after four months.

More information can be obtained by writing to Dept A&F, Virginia Smelting Co., West Norfolk, Va.

Uramite Formulation For Mixed Fertilizers

A new formulation of "Uramite" fertilizer compound—Uramite M—designed specifically for blending into mixed fertilizers, is being introduced by Du Pont's polychemicals department.

Uramite M has a nitrogen content of 38%, a gradual nitrogen release rate, and greatly improved safety for growing plants, according to the company.

Uramite can be used in either the dry mixing or ammoniation processes. The company lists these advantages:

- It provides plants with a continuous, uniform supply of nitrogen.
- Its high content of gradually released nitrogen offers more concentrated and safer mixtures.
- A free-flowing material, it blends well with other ingredients to form a high quality mixed fertilizer.
- It is manufactured in a particle-size designed for specialty mixes.
- Application costs are reduced with this high nitrogen content ingredient, since fewer applications are required.

For complete information write to Dept. A&F, Du Pont Polychemicals, Fairfax, Wilmington 3, Del.

Trailer Applicator For Liquid Fertilizers

General Metals, Inc., has developed a trailer applicator for liquid fertilizers. Called Model TPD-200, it is for top-dressing with nitrogen solutions or complete liquid fertilizers. It is said to be ideal for fertilizing pastures, small grain, or row crops. Solutions can be accurately applied on 150 to 200 acres a day under good conditions.

Trailer TPD-200 consists of a heavy-duty trailer, large aluminum tank, accurate metering pump, and all-steel boom. The customer is given a choice of model N pump for complete fertilizers or model S pump for nitrogen solutions. A major advantage of the pumps is that the dial can be quickly set to any of 14 positions and a large number of intermediate positions.

The customer also has a choice of 235-gal. pressure or 210-gal. non-pressure tank of aluminum, steel, or stainless steel.

A complete description and pictures of the Trailer, TPD-200, are given in a bulletin available from Dept. A&F, Charles G. Monnett, General Metals, Inc., 858 Goldsboro St., Greensboro, N.C.

Power Sprayers

Two mobile power sprayers with larger-capacity tanks are being introduced by Campbell-Hausfeld Co. The newly designed Paragon sprayers feature low tank-suspension, mechanical agitation, and a hydraulic-type piston pump located on top of the tank for easier cleaning.

The units, in 15- and 30-gal. sizes, can discharge up to 1.5 gal. per min. with pressures up to 150 lb.

Further information is available from Dept. A&F, Campbell-Hausfeld Co., 5155 State St., Harrison, Ohio.

Shanks and Clamps For Liquid Fertilizer

Newly designed liquid fertilizer shanks and clamps are being manufactured by Tiura Mfg. & Sales Co. One of the shanks, the Tiura, gives maximum ground breakage, and the other, the Turk, is for minimum soil disturbance. Chief advantage of the shanks, the manufacturer says, is their hardfaced cutting edges.

The clamps are designed to prevent any touching of tool bar and shank. The clamp can be mounted, dismounted, or shifted on the tool bar without loosening the shank. And a shank can be mounted, dismounted, raised, or lowered without loosening the clamp from the tool bar. The clamps are said to be unconditionally guaranteed against springing or breaking.

Further data are available from Dept. A&F, Tiura Mfg. & Sales Co., Patterson, Calif.

Vacuum Tumble Dryer for Heat-Sensitive Materials

A vacuum tumble dryer-blender, developed by Patterson-Kelley Co., Inc., makes it possible to dry heat-sensitive materials in a fraction of the time required by conventional methods. Fast drying-in-motion is the result of a carefully engineered balance of jacket circulation, vapor line and filter, compact piping, condenser, vacuum line and pump, and effective controls, the company claims.

The P-K vacuum tumble dryer provides an unusual baffling for uniform distribution of the heating medium in the jacket. Rapid generation of vapors within the vessel has a scrubbing action on all surfaces and considerably affects the heat transfer rate, the manufacturer states.

Fourteen standard models are offered, ranging in capacities from 1 to 150 cu. ft.

Further data are available from Dept. A&F, The Patterson-Kelley Co., Inc., East Stroudsburg, Pa.

Fermentation Media

A high-quality, low-cost media component for the fermentation industry is available in commercial quantities from Amber Laboratories, Inc. Called Amber BYF, this material is a dry, free flowing, water soluble fraction of autolyzed brewers' yeast. It contains high quality, water soluble peptones, peptides and amino acids, plus all the B complex vitamins and growth factors abundant in brewers' yeast. Amber BYF contains over 9.0% total nitrogen, a large percentage of which is amino nitrogen. Dry, easily handled and weighed, it dissolves instantly in water. It is priced at about 25¢ per pound.

Samples and detailed information are available from Dept. A&F, Amber Laboratories, Inc., 3456 Buffum St., Milwaukee 12, Wis.