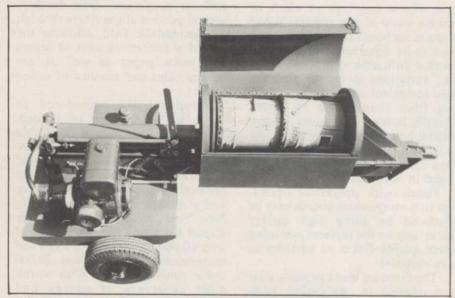
Industry Product Review



CAN COMPACTOR: Piqua Engineering introduces a 12-ton hydraulic pressure unit capable of compacting two 5 gallon cans to 10 percent normal size in 20 seconds. Compacting area is fully enclosed. Drip pans catch any remaining fluid left in cans. Powered by an 8 H.P. Kohler industrial engine or with a 5 H.P., 3 phase, 60 cycle, 220/440 volt AC motor. Circle 701 on free information card.



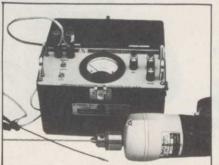
METRO-LIFT: A personnel lift when mounted on the 3-point hitch of a tractor and connected to the hydraulic system is capable of raising 600 pounds to a height of 20 feet. It can be operated by a remote valve on the personnel basket or from the tractor cylinder valve. Removing the basket and lift arm converts it to an adjustable crane with the lift capacity of 6,000 pounds when closed and 2,000 pounds when fully extended.

This unit is manufactured by Metro hydraulics.

Circle 702 on free information card.

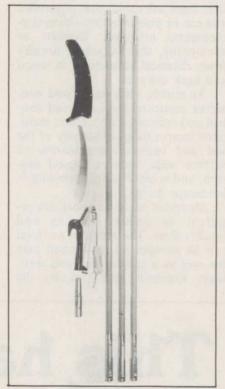
SHIGOMETER: Ben Meadows' battery-operated instrument pinpoints discoloration and decay in their early stages before they are evident externally. The manufacturer claims the meter is an extremely sensitive instrument that accurately measures any amount of ionization to provide detection of both incipient and advanced decay and discoloration. Shigometer indicates the degree of tissue deterioration and the extent of tissue damage. Ideal for utility pole, park and recreation area management, forestry research and inspection. It weighs only 3 lbs., 6 oz. and is carried by a neck strap.

Circle 103 on free information card



TREE PRUNING KIT: The "Safe Stick" fiberglass pruner poles are designed for professional type use, for line clearance and maintenance of trees. Manufactured by the Jameson Corporation, the poles come in various lengths and combinations for use with this kit.

Circle 704 on free information card.





Lawn-A-Mat bags it! NITROFORM organic nitrogen



The odorless organic nitrogen. Has predictable performance, toc. Try it.

Turf and Horticultural Products, Synthetics Dept. Wilmington, Delaware 19899 · Registered trademark of Hercules Incorporated. STH74-23AR

Circle 115 on free information card

WOOD WASTES (from page 32)

aeration and increase water absorption and nutrient retention. Early literature on the subject reported toxic effects from wood residues in the soil. However, the yellowing associated with incorporating fresh wood is the result of nitrogen depletion from microbial decomposition and can be prevented by adding supplemental nitrogen. Reports of allelopathy, that is, actual toxicity from chemical extractives in wood and bark are rare.

As mulch, bark and wood conserves moisture through weed control and reduced evaporation, maintains temperature uniformity of the soil and improves granulation of surface soils, reduces topsoil erosion, and is esthetically appealing in landscape design.

Shredded wood and bark are excellent as animal bedding and poultry litter. The resultant material can be composted or worked into the soil as a conditioner and fertilizer. Research also indicates the value of shredded wood and sawdust as roughage in the diet of feedlot cattle fed high-energy grain.

Structural board can be made from almost any type of whole or residue wood of any species. Wood chipped for board materials may not need to be debarked if certain production difficulties can be tolerated, e.g., variations in quality that are hard to control. In general, bark has less fiber than wood so board strength is somewhat lower. Nonetheless, boards containing up to 30% or 40% bark and still meeting standard specifications have been produced in Scandinavia.

Panels with properties equivalent to homogeneous boards may be produced by using high quality flakes only on the surfaces and using lower quality flakes or particles as core material.

The German Bison process, a recent change in mat-laying technology produces a graded density board with longer, stronger splinterlike shavings at the core and fines at the surface. Structural boards can be made with large flakes, strands or fibers. Orientation of all or part of the particles can impart high binding and stiffness properties. One developmental process aligns fibers through an electrostatic field, allowing the use of a limited amount of leaves and waste paper as well as unbarked chips and sawdust of mixed species.

Traditionally considered as waste to be dumped or burned, wood residues are a valuable resource. Thousands of tons are available throughout the United States as a by-product of the lumber industry, public utility line clearance and private tree services. In Buffalo, New York, alone, The Davey Tree Expert Company has a stockpile of over 60,000 cubic yards of chips and accumulates an additional 20,000 cubic yards annually. With worldwide shortages of energy and materials, wood wastes offer a myriad of revenue sources that should not be allowed to go up in smoke.

This harvester works anywhere

Unlike other harvesters, the Nunes Mechanical Sod Harvester is guaranteed to work wherever cultivated sod is grown.

Hydraulic controls permit quick and easy adjustment to different field. terrain, soil and sod conditions **while in operation**. With the Nunes Harvester, you can cut, lift, roll (or slab) and

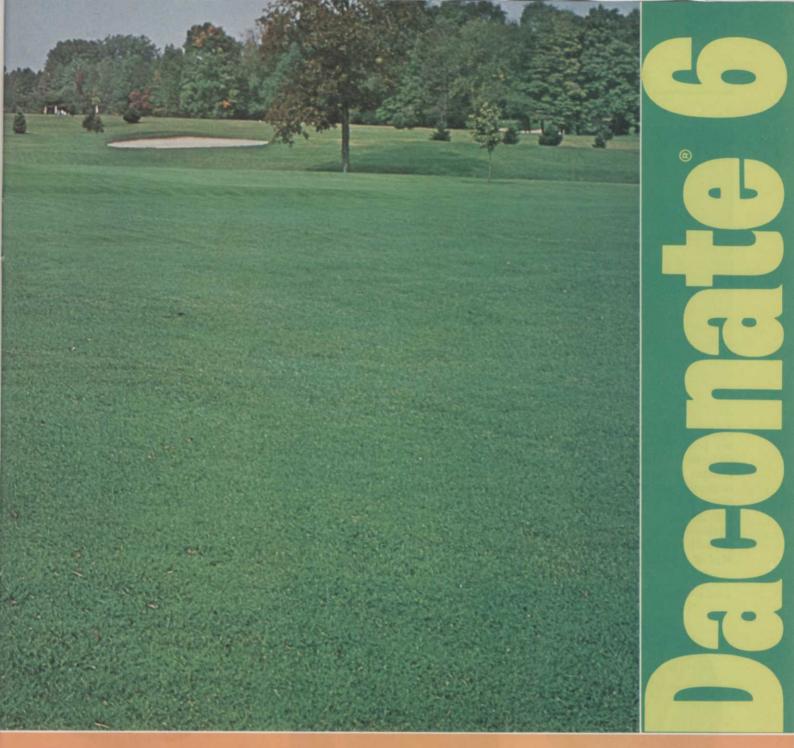
palletize more than 1000 sq. yards of sod per hour. Roll or slab units are interchangeable and the machinery

handles rolls or slabs 12 to 20 inches wide (24-inch width machines on special order.)

Also available are turf vacuum sweepers designed especially for sod; 8 feet wide, 13 cu. yd. capacity. Writed for detailed brochures and additional information.

Nunes Manufacturing Company 2006 Loquot Ave., Patterson, Calif. 95363 Phone (209) 892-8773





The concentrated solution to grassy weed problems.

Daconate 6 has proven to be a popular and effective herbicide on golf courses, parks and other grass areas. It gives you concentrated power to knock out tough, grassy weeds after they are up and growing. It does away with problems such as bahiagrass, barnyardgrass, chickweed, crabgrass, dallisgrass, nutsedge, sandbur and wood sorrel ... with little or no injury

to established, actively growing turf. Daconate 6 comes in convenient liquid form . . . dissolves easily in water in the spray tank. And Daconate 6 is concentrated. Contains 6 lbs. per gallon of active ingredient. It's also premixed with the proper amount of surfactant for optimum coverage and control.

Go Daconate this year . . . the concentrated approach to better turf.



AGRICULTURAL CHEMICALS DIVISION

Diamond Shamrock

Industry Product Review-



ELECTRIC LINE LIFT: High capacity 12 volt batteries power this Asplundh lift. The batteries are recharged by either the truck's 12 volt alternator or an AC charger in the truck body. Controls in the basket automatically activate the system and give the operator complete command of all movements. This electric system reduces fuel consumption and engine maintenance while eliminating noxious exhaust fumes. Operation is quiet, permitting normal conversation between bucket operator and ground personnel.

Circle 705 on free information card.



WHISPER CHIPPER: Over the past 25 years Asplundh has improved and redesigned their basic chipper, based on the direct reports of actual operators within their organization. Asplundh features four chipper models ranging from a 12-inch, 4 cylinder standard chipper to a heavy duty 16-inch, V-8 engine. The company claims the model 12-inch, 4 cylinder JEY has a reading of approximately 73 to 77 decibels at 50 feet. Other models vary, and noise level while chipping depends on material being chipped.

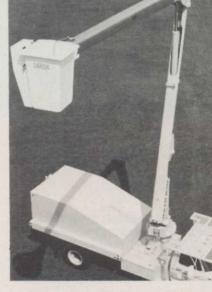


Kerr-McGee bags it!

organic nitrogen



The economical nitrogen that feeds for months because it has different release rates . . . like time-release cold capsules.



AERIAL TOWER: The B-Series of Baker Equipment Engineering Co. aerial towers features a fiberglass upper boom with 16 feet of bare fiberglass between the elbow and operators platform, providing high

Circle 706 on free information card.

dielectric properties. The unit is available in a variety of options and basket mounting configurations. Circle 707 on free information card.

rcle 707 on free information card.



CORDLESS DRILL: New cordless drill from Skil permits work anywhere, with no dependence on electrical source. The drill has a geared chuck, with built-in storage for the chuck key. The tool handles the full range of ³/₈-inch drill accessories. It comes equipped with a recharger which works on normal 115volt AC current. The drill weighs 2.2 pounds.

Circle 708 on the free information card.



ROTERRA: The Lely-Roterra has an egg beater like action created by a row of rotor-tines. Rotors next to each other revolve in opposite directions. And each set of tines is always at right angles to those next to it. The circumscribed pattern they make overlaps slightly so that all soil gets worked. Variable tine speed can be adjusted to soil conditions. Tough cloddy soils require faster tine speeds. Manufacturer claims the Roterra does not reverse the soil. Top soil stays on top while moisture is kept below. Circle 709 on free information card.



SKID STEER PAY LOADER: New from International Harvester is this 37 HP model. Unit is highly maneuverable with lift capacity of 1,950 pounds; has two-lever skid steering that permits 360 degree turns; hydrostatic drive with infinitely variable forward and reverse speeds from 0 to 8 mph; four-wheel drive; oscillating axles for better traction; changeable tread widths with reversible wheels; fast cycling loader; roll-over protective structure; and a variety of quick-change attachments.

Circle 710 on free information card.

HERCULIFT: All-weather, allterrain lift truck from TCI Power Products, Inc. Power steering is standard, equipped with separate pump, orbital control and cylinders. Pump, live drive vane type, delivers 14 gpm at 2400 rpm; control valve is spool type, full feathering. Fourwheel service brakes have hydraulic internal expanding double shoe with bonded lining.

Circle 711 on free information card.



PRO ULV SPRAYER: Root-Lowell designed this electric motor unit for application of synergized pyrethrins concentrates and related formulations. The sprayer is said to produce a discharge in the aerosol particle size range with average particle size in controlled testing at 8.5 microns. Further product features include high speed airblast and long discharge carry; up to 100 feet in still air.

Circle 712 on free information card.





A burst of brilliance... Fylking for the World's Fair!

Fylking Kentucky bluegrass is a superior, elite bluegrass that burst like a star on the scene in the sixties!

Since then Fylking has established records making it the perfect choice for the official grass at the environmental World's Fair, Expo '74.

Fylking has proven to have superior resistance to disease and drought; withstands traffic. Its thickly woven rhizome root system develops dense sod so quickly Fylking can be lifted in 90 days. Fylking can be mowed at 3/4 inch (even 1/2 inch) and thrive. It absorbs carbon dioxide pollutants, gives off oxygen, cools air by releasing water vapor.

A superior mixer, Fylking greens up earlier in spring, stays greener in summer heat, remains green longer into fall.

Choose Fylking and your customers are getting a grass good enough for a World's Fair!



FYLKING KENTUCKY BLUEGRASS U. S. Plant Patent 2887

Another fine product of Jacklin Seed Company

Fylking's rhizome root system develops so thickly, under ideal conditions sod can be lifted in 90 DAYS.



Low growth, short leaf sheaths and abundant tillering of Fylking (right) compared with another elite bluegrass plant.



Cross section displays thick, luxuriant turf, fine leaf texture and brilliant green color of Fylking.



SPRAYER: Broyhill's basic unit is a skid mounted sprayer in 200, 300 and 400 gallon sizes for all size coverage requirements. Poly-ethylene and stainless steel tank materials overcome the problems of rust and corrosion while full circumference heavy gauge skids provide four side protection with maximum stability. Three standard pump options include four piston 10 gpm Seeger-Wanner; four piston gpm Hypro and a high volume Ace dual stage centrifical.

Circle 715 on the free information card.



PTO REEL MOWER: Brouwer Turf Equipment Limited, designer and builder of the Brouwer Sod Harvester, have added a new piece of equipment to their product line. This PTO reel type mower is light in weight. The free floating unit follows the ground contour for uniform cutting. The five mower units cut a width of 140 inches and pulled by a 25 HP tractor, will cut 5 acres per hour at normal speeds. The unit can be towed behind a car or truck since all mower units lift and lock up into position.



HYDRO MULCH FIBERS: Designed by Conwed to improve the hydraulic mulching process in areas of severe wind or water erosion. A soil stabilizer has been premixed with Hydro Mulch fibers; a uniform, weedfree fiber that helps foster good germination by retaining water and protecting seed from temperature extremes.

Circle 714 on free information card.



MS-400

LS-500

SM-500

MINI-SPLITTER—8 H.P. Air Cooled Engine, Heavy Duty Ram Cylinder, Splitting Cycle—12 Seconds, Rugged Tubular Steel Frame, 7 Gallon Hydraulic Oil Reservoir, Splitting Length—up to 20".

LITTLE SPLITTER—16 H.P. Air Cooled Engine with Electric Start, 2-speed Hydraulic System, 5" Dia. Ram Cylinder, Splitting Cycle—9 Second, Splitting Length up to 24", Ram Exerts 15 tons of Hydraulic Push, 15 Gallon Oil Reservoir.

SAW-MATIC—25 H.P. Air Cooled 2 Cylinder Onan Engine with Electric Start, 10 Gallon Gas Reservoir, Splits Into Halves or Quarters, Heavy Duty Hydraulic Cylinders designed by Hy-Draulic Products, Ram Exerts 15 Tons of Hydraulic Push, Rugged Square Tubular Frame.

1319 Town Street, Prentice, Wisconsin 54556 Telephone: 715-428-2881



When answering ads where box number only is given, please address as follows: Box number, c/o Weeds Trees and Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

Rates: All classifications 50c per word. Box number, \$1. All classified ads must be received by Publisher the 10th of the month preceding publication date and be accompanied by cash or money order covering full payment.

FOR SALE

ARPS stump cutter teeth, top quality and best price in U.S.A., D. J. Andrews, Inc., 17 Silver St., Rochester, New York 14611. Call 716 235-1230.

IRRIGATION SALES & SERVICE COMPANY, \$400,000. Largest on Florida gulf coast. Owner might consider full time working partner. Reply P.O. Box 2061, Clearwater, Florida 33517.

USED EQUIPMENT

1972 FLECO 26" tree shear, \$4500.00. Jim Green, Ohio Chipper & Equipment Company, Div. of Osborne Brothers Tree Service, Mentor, Ohio 216 951-4355.

FOR SALE: Used Ryan 18" auto-cutoff sod cutter with sulky. May be seen at Oak Harbor, Ohio. Phone 419 893-2311 or 308 697-4686.

Reed &

FOR SALE — 1 Ryan sod cutter and sulky roller model 544682, serial 33915, cost \$2300.00 new, 1973 model used only 9 months, will sell for \$800.00 or best offer. Sac Valley Sod Farm, R1, box 56, Morrisville, Mo. 65710. Phone 417 756-2970.

FOR SALE: 2 used aerial baskets — 50 ft. working height, 2 Asplundh brush chippers. Bean sprayer, 35 G.P.M. Vermeer stump cutter 1560. Parkway Tree Service, Milwaukee, Wisconsin. Phone 414 257-1555.

HYDROSEEDER, Hydroturf 600 gallon, one year old, excellent condition. Cost new \$4000, sacrifice at \$3000. Lawn Medic, 212 Cobblestone, East Peoria, Ill. 61611. Phone 309 699-0780.

FOR SALE: 1973 model beam 60 GPM sprayer, trailer mounted on 20 x 20 flotation tires, less than 40 hours use. \$5500. Route 1, Box 68, Union Star, Missouri 64494.

1973 SKYWORKER, Big Chipbox, Wisconsin pony engine. 1973 F600 Ford, long wheel base, 2-speed axle, hydraulic pruner included. \$15,000.00 firm. Call 914 895-3495.

2 — **24-INCH RYAN SOD Cutters**, 1 — Daymon sod roller, 1 sod conveyor. Del Gaudio Sod Farm, Phone Howell, Michigan 517 546-3569.

HYDRO-AX FOR SALE, excellent condition, \$35,000.00. Call Robert Hooper, Monroe Tree & Landscape, Inc., Rochester, N.Y. 716 436-2900.

VERMEER TS-30A tree spade, Bowie Victor 500 hydro-mulcher. Phone 817 469-8943.

SEEDS

SOD QUALITY Seeds Merion, Fylking, Delta, Park, Newport, Nugget, Adelphi, Cheri, Glade and Baron bluegrasses also fine fescues. Manhattan rye grass. Custom mixing available. Michigan State Seed Co., Grand Ledge, Michigan 48837. Phone 517 627-2164.

HELP WANTED

DISTRIBUTORS for D. J. Andrews, Inc. stump cutter teeth, pockets and bolts. Best wholesale and retail price in U.S.A. Add to this exclusive area, local advertising at our expense, etc., and you have our story. D. J. Andrews, Inc., 17 Silver St., Rochester, N.Y. 14611. Call 716 235-1230, or 716 436-1515.

WANTED MANUFACTURERS' REPRE-SENTATIVE Long established manufacturer of quality irrigation controls desires representation in Southern California area, including Arizona and Clark County, Nevada. Sales thru established distributors and O.E.M. accounts. Warehouse desirable to handle Consigned Stock. Write Mike Bizzoco, Tork Time Controls, 1 Grove St., Mt. Vernon, New York 10550.

AGGRESSIVE DISTRIBUTOR looking for qualified turf grass man to call on golf courses and other institutional accounts selling fertilizers, chemicals, etc. Please send resume to H. J. Stoll & Sons, Inc. 2320 S.E. Grand Ave., Portland, Oregon 97214.

MISCELLANEOUS

EQUIPMENT SERVICE AND PARTS — New England and New York State. Authorized servicing of aerial lifts and chippers by factory trained personnel. Specializing in Asplundh and Skyworker. Two convenient locations plus complete road service. Service contracts available. Call C.U.E.S., Inc., 603 889-4071 or 203 634-3146.



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SCHOOLS & COLLEGES

HOME STUDY PROGRAM IN ARBORI-CULTURE. A series of 16 lessons in the care of trees. Developed by professional commercial arborists as a means of upgrading the knowledge of their employees. This program is available to all students of the tree care profession. For further information contact The National Arborist Association, 3537 Stratford Road, Wantagh, New York 11793.

WANTED TO BUY

WANTED: Company in landscaping, utility right of way maintenance, or tree trimming business. Would also consider purchase of part interest. Box 133, Weeds, Trees and Turf, 9800 Detroit Avenue, Cleveland, Ohio 44102.

WTT's August Equipment Rally Features mowers, tractors, engines, batteries, implements & accessories

<image>

Circle 113 on free information card

-Trimmings-

New copies of American Sod Producers Guidelines Specifications to Sodding have been printed and are available in quantity from the ASPA office in Hasting, Neb. Single copies are available on request, with additional copies available for 25¢ each plus mailing. These specifications should be provided to landscape contractors, architects, and others interested in providing quality sod at an ASPA standard. For more information contact: ASPA, Association Building, 9th and Minnesota, Hastings, Nebraska 68901.

"Hang in There" was the theme of the First International Hang Gliding Championships, held at Escape Country, California. Located in Orange County near El Toro, Escape Country was host to hang glider pilots from all over the U.S. and eight foreign countries. More than 4,500 spectators viewed the event live while millions watched the championships on CBS - TV's Sports Spectacular. Cal-Turf, Camarillo-based turfgrass grower, furnished the landing area and target for the glider pilots, which consisted of 10,000 square feet of Tifway Sod.

Live Oak, Texas residents claimed rats and snakes infested weedchoked creek banks and demanded city officials take immediate action. Mayor John Harper gathered city crews together and armed with 2,4-D attacked the infested embankments. Before all the handshaking and back-patting had ceased, residents near the sprayed area began complaining the herbicide caused numerous instances of dead or dying trees, wilted pot plants and roses and garden vegetables twisted into grotesque shapes. One Live Oak resident, complaining his family suffered headaches, nausea and diarrhea after the defoliant was sprayed, said he was told by the city poison control center it was toxic. Mayor Harper admitted there was some damage but added "It was just an act of God." He was referring to a storm that passed over town the same day the chemical was applied.

Harper said the wind picked up the chemical and blew it into nearby yards. City insurance carriers are investigating to see if any of the claims will be paid.

Five professional chain saws, replacement chain and bars were donated by Pioneer to help clear debris from tornados that struck Omaha, Neb., May 6. The saws were given to public works department workers shortly after twisters killed three persons and devastated 800 square blocks in this city's southwest and northwest sections. Damage exceeded \$500 million and hospitals treated 140 injured persons. "The destruction was awesome," Ed Molaskey, Pioneer field sales manager, said. "Homes were ripped apart, trees and power lines uprooted and large trucks twisted around telephone poles." Pioneer offered the saws to Mayor Edward Zorinsky with assistance from Mayor Sam Schwartzkopf of nearby Lincoln, Neb., the U.S. marketing headquarters for Pioneer.



... and every arborist in the reasons will have a viable alter-United States knows what you are native if this method is labeled for use as a result of the outstanding test results that have been gathered. With a sealed system such as

For the past five years Chuck Cissel, Vice President of Guardian Tree Experts, has been working closely with Dave Shaw, Shade Tree Commissioner of Monmouth County, New Jersey, and Dr. Lou Vasvary of Rutgers University testing Mauget Tree Injectors charged with Meta-Systox R and Bidrin in the control of gypsy moth. This New Jersey area relives "January in June" each year as a result of the voracious feeding of the larva of this pest stripping the leaves from trees.

While it will not be practical to treat large tracts of land this way, individuals who do not want to spray due to any number of valid

reasons will have a viable alternative if this method is labeled for use as a result of the outstanding test results that have been gathered. With a sealed system such as Mauget Injectors, there is no drift, runoff, or wind and weather factors to consider. Killing effectiveness averages 30-60 days, and one minor miracle yet unexplained is the fact that it is very noticeable the following year that the moths seem to "bypass" trees injected the previous year.

Test data accumulated over the past five years indicate that an average of 90% control can be safely expected. While it is not the answer to everybody's problems, the professional arborist will be able to add another item to his medicine chest to fight the ills that plague his clients' shade trees.



(From left) Dr. Lou Vasvary, Chuck Cissel, Dave Shaw and Lew Kolb. Note: Injectors on tree in front of Vasvary.

Bug off mosquitos, Dow Mosquito Fogging Concentrate is here.

If mosquito control is the problem, chances are Dow Mosquito Fogging Concentrate is the solution. Check the advantages: Recommended for use in thermal or cold fog ground application units. Effective at very low rates thus eliminating excessive refills. Controls many species of mosquitos, including those tolerant to malathion. Also, it doesn't corrode equipment or damage paint when used as directed. All of

which make Dow Mosquito Fogging Concentrate the choice of mosquito abatement districts and professional park and ground maintenance men everywhere. Dow Mosquito Fogging Concentrate. Bad news for mosquitos. Good news for you. Just remember to read and follow all precautions on the label. Ag-Organics Department, Midland, Michigan 48640.



STAY BACK ET

It's the professional's professional from Dow.