

You Cannot Replace Lost Time!

We know your time is valuable. Grasshopper is designed to save mowing time. Depend on it day after day on every job.

CLOSE-QUARTER MOWING-

Our out-front rotary for full view mowing and unsurpassed trimming capabilities, coupled with hydrostatic power offers true zero-turning maneuverability around obstacles and especially in tight spots.

EASY OPERATION—Two steel levers do it all . . . controlling speed, direction and braking. It is natural and easy to learn. There are no gears or clutch to slow you down and dual transmissions send power independently to each drive wheel for traction when you need it.

MUSCLE FOR THE ROUGH CUT— Grasshopper muscle means decks that are constructed of 10 gauge steel and reinforced with an additional steel plate around the spindle housings. A 1" blade spindle shaft is another example of how Grasshopper keeps cutting in tough mowing.



YOUR NEXT MOWER

THE GRASSHOPPER COMPANY BOX 637WT • MOUNDRIDGE, KS 67107 (316) 345-8621

Invest a few minutes to save a lot of hours... Call or Write for Free Color Literature



"QUIK-D-TATCH"® VACUUM-

Vacuum the turf for a fine manicured cut. High capacity vacuum picks up wet grass clippings; even debris from dethatching. Write and ask us about our variety of attachments.

DEALER SUPPORTED—Get a quote from your local Grasshopper dealer. The low initial investment, inexpensive maintenance, and parts back-up make the Grasshopper an even more attractive addition to your mowing fleet.

The New Grasshopper Model 1822 Diesel



continued

Pressure Gauges

Best Way Inc
Broyhill Co
Encap Products Co
FMC Corp
Friend Mfg Corp
James Hardie Irrigation
Irrometer Co
Kuker Industries Inc
Lesco Inc
Northeast Industries Inc
Pex Inc

Power Spray Technology Inc Pro-Turf Mfg Inc Southern Mill Creek Products Co Spraying Devices Inc Strong Ent Inc Thorco/Master Sprayers Tuflex Mfg Co Westheffer Co

Pruners, Hedge

Allegheny International Hardware Group

American Standard Co Ames Lawn & Garden Tool Co Arizona Power Equipment Co Asplundh Safety Equipment Co Bartlett Mfg Co Chisholm-Ryder Co Corona Clipper Co Deere & Co Echo Inc Emblidge Corp Fairmont Railway Motors Gilmour Mfg Co Green Machine Div HMC International Reforestation Suppliers Inc Karl Kuemmerling Inc Rain Bird Sprinkler Mfg Corp O M Scott & Sons Co Seymour Smith & Son Inc. Stanley Hydraulic Tools Union Fork & Hoe Co

Pruners, Tree

Allegheny International Hardware Group Ames Lawn & Garden Tool Co Arizona Power Equipment Co Bartlett Mfg Co Chisholm-Ryder Co Citrus Systems Inc Corona Clipper Co Deere & Co Echo Inc Emblidge Corp Fairmont Railway Motors Fanno Saw Works Friend Mfg Corp Gilmour Mfg Co Green Machine Div HMC International Reforestation Suppliers Inc. Jameson Corp Karl Kuemmerling Inc H K Porter Inc Rain Bird Sprinkler Mfg Corp L J Rench & Co O M Scott & Sons Co Seymour Smith & Son Inc Stanley Hydraulic Tools Union Fork & Hoe Co

Pumps

Ag-Rain Inc AquaTurf Arizona Power Equipment Co Best Way Inc Bowie Industries Inc Broyhill Co Clinton Engines Corp Earth Energy Systems Inc Encap Products Co Ferguson Equipment & Supply FMC Corp Franklin Electric Hanson-General Prod Corp Homelite Div Textron Inc Hydroflo Corp Hypro Div Lear Siegler Inc International Reforestation Suppliers Inc. Jaeco Pump Co Kembro Inc Kubota Tractor Corp Kuker Industries Inc Little Giant Pump Co Sub Tecumseh Prods Co



7 27



Water passes easily through highly permeable Duon Weed Control Mat.



Just blow through Duon to see how easily air passes through it.

The proof is stronger, longer lasting plants with DUON Weed Control Mat.

Both water and air pass easily through Duon Weed Control Mat, made of Phillips Fibers nonwoven polypropylene. As a landscaper, you know how important that is to a plant's root system and to the future well-being of your big landscape jobs especially those you use as references.

When water and air can't get through, plants die. Black plastic won't work for the long-term. And woven polypropylenes are nowhere near as permeable as nonwovens. For example, the air permeability for nonwoven Duon is about 14 times greater than for woven polypropylenes and the water permeability for Duon is about 10 times greater.

Put our words to the test. Hold Duon under running water, then take another piece and breathe through it. Then try the same test with a competitive weed control mat.

When covered from sunlight, Duon is virtually permanent. It allows plants to thrive and impedes about 95% of weed growth (in most areas). It also keeps mulch from going down into the soil.

For your quality landscape jobs, order Duon. For further information, call Phillips Fibers (803) 242-6600.

MARKETED THROUGH:

8923 South Octavia Bridgeview, IL 60455 (312) 430-2025



PHILLIPS FIBERS CORPORATION

A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

TEXTILE NONWOVEN FABRICS MARKETING P. O. BOX 66, GREENVILLE, SC 29602 (803) 242-6600

*Trademark Phillips Petroleum Company

Equipment Companies

continued

McCulloch Corp Minnesota Wanner Co F E Myers Co PBI-Gordon Corp Pex Inc Power Spray Technology Inc Pro-Turf Mfg Inc Shindaiwa Inc Smithco Inc Smithco Solo Inc Son Shine Nursery Sorensen Sprayers Inc. Spraying Devices Inc Strong Ent Inc Tanaka USA Tecumseh Products Co Thorco/Master Sprayers Tuflex Mfg Co Westheffer Co Winkler Hydraulics

Rakes, Landscape

Agrotec Inc
Allegheny International Hardware Group
Ames Lawn & Garden Tool Co
Arthur Enterprises Inc
Bartlett Mfg Co
Bingham Equipment Co
E-Z Rake Inc
Ford Tractor Operations
Glenmac Inc

Kenyon Mfg Inc Karl Kuemmerling Inc Lesco Inc Roseman Mower Corp Rugg Mfg Co Sensation Div Gilson Standard Golf Co Union Fork & Hoe Co York Modern Corp

Rain Sensors

Dayni Controls Mfg Co Telsco Industries (Weather-Matic)

Rock Pickers

Bingham Equipment Co Howard S Crane Inc Glenmac Inc KEM Enterprises Son Shine Nursery Vermeer Mfg Co

Rollers, Lawn

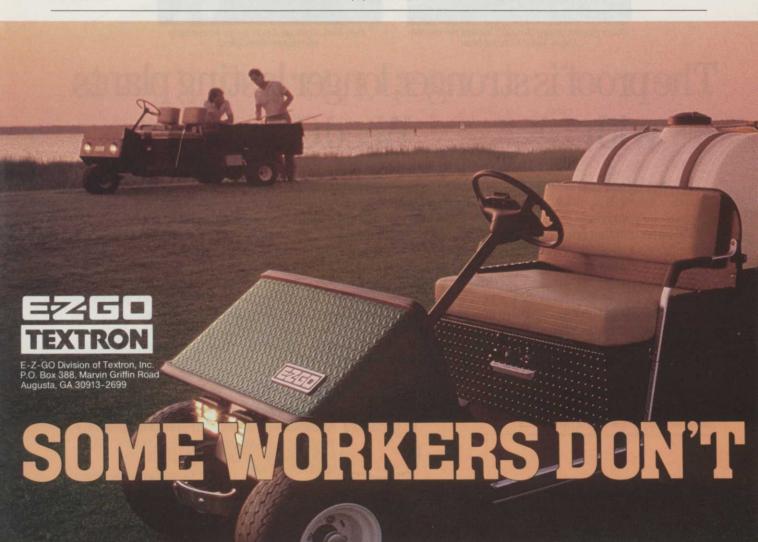
Aer-Way Allegheny International Hardware Group Arizona Power Equipment Co Brouwer Turf Equipment Ltd Gandy Co Northeast Industries Inc Robush Engineering Co Ryan Turf/OMC Lincoln White Outdoor Products Co

Rope

Asplundh Safety Equipment Co Bartlett Mfg Co Karl Kuemmerling Inc Lambeth Corp Lesco Inc Power Lawnmower Parts Inc Samson Cordage Works Standard Golf Co

Safety Wear & Equipment

Asplundh Safety Equipment Co
Bartlett Mfg Co
Custom Products of Litchfield Inc
Deere & Co
Echo Inc
Edmont Div Becton Dickinson & Co
Ferguson Equipment & Supply
International Reforestation Suppliers Inc
Karl Kuemmerling Inc
Lesco Inc
McCulloch Corp
Moyer & Son Inc
Racal Airstream Inc



Equipment

continued

Tecfor Inc Westheffer Co

Saws

AEG Power Tool Corp
Allegheny International Hardware Group
Arizona Power Equipment Co
Asplundh Safety Equipment Co
Bartlett Mfg Co
Deere & Co
Fairmont Railway Motors
Fanno Saw Works
Gilmour Mfg Co
Jameson Corp
Karl Kuemmerling Inc
Milwaukee Electric Tool Corp
Skil Corp

Scrapers

Allegheny International Hardware Group Bingham Equipment Co Deere & Co Industrial Leasing Corp International Harvester Co Massey-Ferguson York Modern Corp

Screeners

Laval Corp Claude

Lindig Mfg Corp Royer Foundry & Machine Co

Seeders

Allegheny International Hardware Group Ames Lawn & Garden Tool Co Arizona Power Equipment Co Bowie Industries Inc Brillion Iron Works Inc Brouwer Turf Equipment Ltd Bush Hog Cushman-Ryan/OMC Lincoln Deere & Co Gandy Co Herd Seeder Co Industrial Leasing Corp Olathe Mfg Inc Salsco Inc Vandermolen Corp Vicon Farm Machinery Inc Weldco (WA) Inc Worksaver Inc.

Seeders, Hydraulic

Bowie Industries Inc Brillion Iron Works Inc Cushman-Ryan/OMC Lincoln Finn Corp Industrial Leasing Corp Thermoguard Co Weldco (WA) Inc

Sharpeners

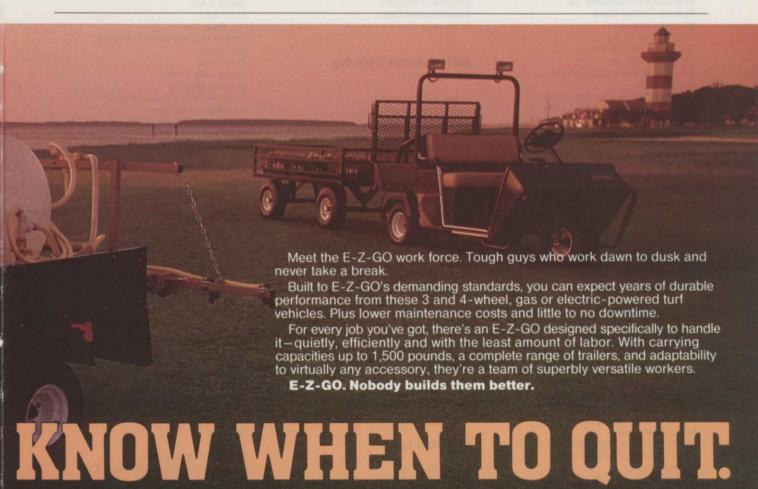
Earl J Crane Inc Foley-United Co International Reforestation Suppliers Inc

Shears

AEG Power Tool Corp
Allegheny International Hardware Group
American Standard Co
Ames Lawn & Garden Tool Co
Arthur Enterprises Inc
Bartlett Mfg Co
Corona Clipper Co
International Reforestation Suppliers Inc
Milwaukee Electric Tool Corp
Rain Bird Sprinkler Mfg Corp
Seymour Smith & Son Inc
Seymour Smith & Son Inc

Shelters

Columbia Cascade Lumber Co Miracle Recreation Equipment Co Playworld Systems W H Porter Inc Poligon/Cover-All Div Western Wood Structures Inc



Circle No. 253 on Reader Inquiry Card

continued

Shovels

Ames Lawn & Garden Tool Co International Reforestation Suppliers Inc Kenyon Mfg Inc Lesco Inc Rugg Mfg Co Son Shine Nursery Union Fork & Hoe Co

Snow Blowers

American Honda Motor Ariens Co Beaird-Poulan/Weed Fater Roscoe Brown Corp **Bunton Co** J I Case Howard S Crane Inc Cushman-Ryan/OMC Lincoln Deere & Co Ford Tractor Operations Grasshopper Co Gravely International Inc Green Machine Div HMC Haban Mfg Co Hanson-General Prod Corp Henderson Mfa Hoffco Inc/Comet Industries Homelite Div Textron Inc Ingersoll Equipment Co International Harvester Co Kubota Tractor Corp Massey-Ferguson MTD Products Inc Sensation Div Gilson Simplicity Mfg Inc Snapper Products Equipment Steiner Corp Toro Co Commercial Prods Div United Farm Tools Inc White Outdoor Products Co.

Snow Plows

Ariens Co
Bomford & Evershed Ltd
J I Case
Earl J Crane Inc
Deere & Co
Gravely International Inc
Guest Industries Inc
Haban Mfg Co
Ingersoll Equipment Co
International Harvester Co
Swenson Spreader Co
United Farm Tools Inc
Western Products
White Outdoor Products Co

Sod Cutters

Allegheny International Hardware Group Ames Lawn & Garden Tool Co Brouwer Turf Equipment Ltd Earl J Crane Inc Cushman-Ryan/OMC Lincoln Ryan Turf/OMC Lincoln Turfco Mfg Inc Union Fork & Hoe Co Young Industries

Sod Equipment

Brouwer Turf Equipment Ltd Deere & Co Jerry Clipper New Holland

Sod Harvester

Brouwer Turf Equipment Ltd Princeton Mfg Co

Sod Planters

Soil Compactors

Soil Fumigation

Hendrix & Dail Inc.

Soil Mixers

Bouldin & Lawson Inc Roscoe Brown Corp Lindig Mfg Corp Royer Foundry & Machine Co Son Shine Nursery Vandermolen Corp Worksaver Inc

Soil Moisture Sensing Equipment

Howard S Crane Inc
Dayni Controls Mfg Co
James Hardie Irrigation
International Reforestation Suppliers Inc
Irrometer Co
Rain Bird Sprinkler Mfg Corp
Soilmoisture Equipment Corp
Sudbury Lawn & Garden Products

Soil Sampler

Clements Associates Inc
International Reforestation Suppliers Inc
LaMotte Chemical Products Co
Lesco Inc
P E Skaling Soilmoisture Equipment Corp
Soilmoisture Equipment Corp
Turfgrass Products Corp
Westheffer Co

Soil Shredders

Lindig Mfg Corp Royer Foundry & Machine Co

Soil Test Labs

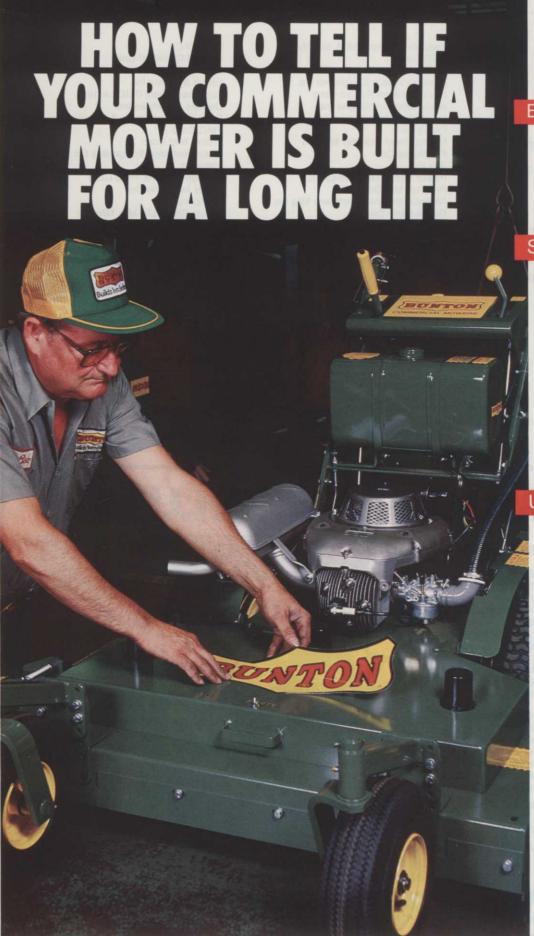
Hach Co Orbeco Analytical Systems Inc Sudbury Lawn & Garden Products

Soil Test Meters

Kel Instruments Co
Karl Kuemmerling Inc
LaMotte Chemical Products Co
Lesco Inc
P E Skaling Soilmoisture Equipment Corp
Sudbury Lawn & Garden Products
Terracare Products Co

Sprayers

Agrotec Inc Applied Biochemists Inc Arborchem Products Co Arizona Power Equipment Co Bartlett Mfg Co Best Way Inc B & G Equipment Co Bingham Equipment Co John Blue Co Broyhill Co Buffalo Turbine Agricultural Equip Co Bush Hog Carmel Chemical Corp Chemilene Co Citrus Systems Inc Country Mfg Inc Earl J Crane Inc Cushman-Ryan/OMC Lincoln Deere & Co Echo Inc E-Z Rake Inc Ferguson Equipment & Supply Finn Corp FMC Corp Friend Mfg Corp Gilmour Mfg Co Great Northern Equipment Co Jonathan Green Inc. Green Machine Div HMC Hahn Inc. Hanson-General Prod Corp H D Hudson Mfg Co Industrial Leasing Corp International Reforestation Suppliers Inc Kuker Industries Inc Lesco Inc Liqui*Lawn Corp -Marco Div of Llo-Mar Mfg Inc Master Mfg Co Melnor Industries Micron Corp F E Myers Co Pex Inc Power Spray Technology Inc Pro-Turf Mfg Inc Richardson Great Northern Mfg Inc Richway Industries Ltd RIGO Co RL Corp Root-Lowell Corp Sidefire Inc Siebring Mfg Co Smithco Inc D B Smith & Co Smithco Solo Inc Sorensen Sprayers Inc. Southern Mill Creek Products Co. Spraying Devices Inc Strong Ent Inc



There is a simple way to be sure your commercial mower is designed for a long life, and is built to achieve it.

Buy Bunton

to be sure your mowers have welded one-piece steel construction, lubrication points at each moving part, pneumatic puncture resistant tires and more.

Specify 2-cycle

for an engine that often provides 4 seasons of hard commercial use without major maintenance (2 season warranty), as much torque from an 8 hp as with an 11 hp 4-cycle, the piece of mind provided by taking the critical engine lubrication function out of the hands of your operators, and a cost competitive with the most popular 4-cycle engines.

Use the System

that puts your key equipment on the same fuel/oil mixture, with Bunton trimmers, backpack blowers and mowers.



BUNTON.

BUNTON CO.

P.O. Box 33247 Louisville, KY 40232 502/966-0550 Telex: 204-340

GSA No.: GS-07F-13196

Equipment

continued

Strong Mfg Co Thorco/Master Sprayers Trebor Corp Universal-Gerwin Vandermolen Corp Vicon Farm Machinery Inc Westheffer Co Wheel Spray Corp

Sprayers, Measuring Equipment

Ferguson Equipment & Supply FMC Corp Green Pro Hanson-General Prod Corp Lesco Inc Marco Div of Llo-Mar Mfg Inc Micro-Trak Systems Moyer & Son Inc Pro-Turf Mfg Inc Southern Mill Creek Products Co

Spray Guns

Agrotec Inc
Arborchem Products Co
Arizona Power Equipment Co
B & G Equipment Co
Broyhill Co
Chemilene Co
Citrus Systems Inc
Cushman-Ryan/OMC Lincoln
Encap Products Co

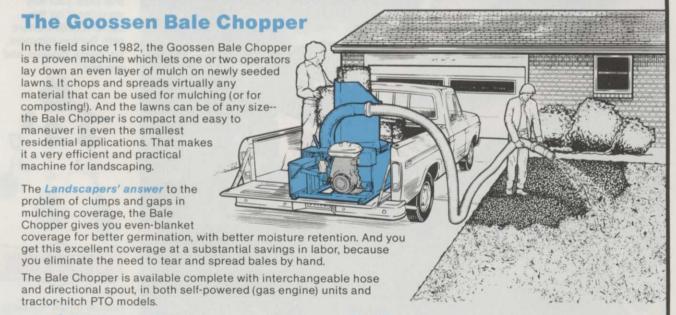
Ferguson Equipment & Supply FMC Corp Friend Mfg Corp Great Northern Equipment Co Hanson-General Prod Corp Hypro Div Lear Siegler Inc Kuker Industries Inc Lesco Inc Marco Div of Llo-Mar Mfg Inc F E Myers Co Pex Inc Power Spray Technology Inc. Pro-Turf Mfg Inc Richardson Great Northern Mfg Inc Root-Lowell Corp Smithco Inc Smithco Southern Mill Creek Products Co Spraying Devices Inc Strong Ent Inc Thorco/Master Sprayers Tri-Con Inc Tuflex Mfg Co Westheffer Co

Spray Units

Agrotec Inc Angus Sprayers Arborchem Products Co Arizona Power Equipment Co Best Way Inc B & G Equipment Co Broyhill Co Carmel Chemical Corp Chemilene Co Citrus Systems Inc Cushman-Ryan/OMC Lincoln Dedoes Industries Inc Ferguson Equipment & Supply FMC Corp Friend Mfg Corp Great Northern Equipment Co Hahn Inc Hanson-General Prod Corp Kuker Industries Inc Lesco Inc Marco Div of Llo-Mar Mfg Inc Minnesota Wanner Co F E Myers Co Pex Inc Power Spray Technology Inc Pro-Turf Mfg Inc Richardson Great Northern Mfg Inc Siebring Mfg Co Smithco Inc D B Smith & Co Smithco Southern Mill Creek Products Co Spraying Devices Inc Strong Ent Inc Thorco/Master Sprayers Tri-Con Inc Tuflex Mfg Co Westheffer Co

Wylie Sprayers

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GOOSS PALINDUSTRIES

927 West Court St. . P.O. Box 705 Beatrice, Nebraska 68310



While nobody was looking, Fairmont developed a Limb Lopper power pack that lets you trim branches quietly without being tied to your truck.

A hundred feet or a hundred yards. Distances no longer matter with the quiet, self-contained mobile hydraulic power pack from Fairmont.

This compact, highly portable unit weighs just 53 pounds. It supplements the hydraulic outlets on your truck to let you do ground and ladder trimming beyond your truck's normal 25-foot hose limit. Best of all, it works with the tools that you're already using in your basket.

The practical benefits of Limb Lopper's mobile power pack are obvious. No longer do you have to equip each truck with manual and gasoline-powered tools for jobs that a basket can't reach. One set of quiet, efficient hydraulic tools takes care of every tree-trimming job.

Many of the big commercial tree-trimming companies have already switched to Limb Lopper chain saws, circular saws, and shade-tree pruners. It's easy for you to do the same. Just phone or visit your nearest member of Fairmont's trained, dependable Limb Lopper dealer network. Or write: Fairmont Hydraulics, a division of Fairmont Railway Motors, Bldg. B, Suite 408, 800 Roosevelt



Road, Glen Ellyn, IL 60137. Phone (312) 790-1690.





Fairmont Hydraulics Division of Fairmont Railway Motors

harsco corporation

continued

Spray Units, Mixer Proportioners

Broyhill Co
Ferguson Equipment & Supply
Gilmour Mfg Co
Great Northern Equipment Co
Hanson-General Prod Corp
Kuker Industries Inc
Marco Div of Llo-Mar Mfg Inc
Moyer & Son Inc
Power Spray Technology Inc
Siebring Mfg Co
Young Industries

Spreaders

Allegheny International Hardware Group Ames Lawn & Garden Tool Co Arizona Power Equipment Co John Blue Co Brinly-Hardy Co **Bunton Co Bush Hog** Central Quality Industry Inc Country Mfg Inc Cushman-Ryan/OMC Lincoln Deere & Co Gandy Co Jonathan Green Inc Hahn Inc Highway Equipment Co Industrial Leasing Corp Lesco Inc Locke Mfg Inc PBI-Gordon Corp Precision Products Inc PSB Co O M Scott & Sons Co Seymour Mfg Co Sta-Green Plant Food Co Swenson Spreader Co Vandermolen Corp Vicon Farm Machinery Inc Warren's Turf Nursery Inc Western Products

Sprig Planters

Wheel Spray Corp

Worksaver Inc.

Straw Blowers

Howard S Crane Inc Finn Corp Reinco Inc

Stump Cutters

Burkeen Mfg Co
Chipmore Mfg Co
Howard S Crane Inc
Heckendorn Mfg Co
Karl Kuemmerling Inc
Lindig Mfg Corp
Olathe Mfg Inc
Promark Products Inc
Rayco Mfg Inc
Sidefire Inc
Vermeer Mfg Co
Winkler Hydraulics

Sweepers

Arizona Power Equipment Co Atwater Strong Div Billy Goat Industries Bingham Equipment Co Brinly-Hardy Co **Bunton Co** J I Case Country Mfg Inc Giant Vac Mfg Inc Grasshopper Co Industrial Leasing Corp Ingersoll Equipment Co Mathews Co MTD Products Inc Olathe Mfg Inc Precision Products Inc Steiner Corp Sweepster Jenkins Equipment Co Tennant Co Toro Co Commercial Prods Div Turf Vac Corp

Sweepers, Water

Sweepster Jenkins Equipment Co

Tanks, Fiberglass

Arizona Power Equipment Co Best Way Inc Broyhill Co Fiberglass Unlimited Inc FMC Corp Friend Mfg Corp Hydroflo Corp Jaeco Pump Co Kay Park Rec Corp Kuker Industries Inc Marco Div of Llo-Mar Mfg Inc Moyer & Son Inc PBI-Gordon Corp Pex Inc Power Spray Technology Inc Pro-Turf Mfg Inc Raven Industries Inc. Smithco Inc Smithco Sorensen Sprayers Inc Spraying Devices Inc Strong Ent Inc Thorco/Master Sprayers Tuflex Mfg Co Westheffer Co

Tanks, Metal

Agrotec Inc
Arizona Power Equipment Co
B & G Equipment Co
John Blue Co
Bock Products
Broyhill Co
Clinton Engines Corp
Custom Products of Litchfield Inc
Fabridyne Inc
Ferguson Equipment & Supply
Finn Corp
FMC Corp

Friend Mfg Corp
Great Northern Equipment Co
Hydroflo Corp
Jaeco Pump Co
Kay Park Rec Corp
Minnesota Wanner Co
Pro-Turf Mfg Inc
Son Shine Nursery
Westheffer Co
Winkler Hydraulics

Tanks, Polyethylene

Agrotec Inc
Best Way Inc
Ferguson Equipment & Supply
Hancor Inc
Hanson-General Prod Corp
Hydroflo Corp
Kuker Industries Inc
Moyer & Son Inc
Pex Inc
Pro-Turf Mfg Inc
Raven Industries Inc
Richardson Great Northern Mfg Inc
Smithco
Strong Ent Inc
Westheffer Co

Tillers

Snapper Products Equipment

Tillers, Tractor-Mounted

Bingham Equipment Co
Bush Hog
Deere & Co
Gravely International Inc
Howard Rotovator Co
Industrial Leasing Corp
Ingersoll Equipment Co
Kubota Tractor Corp
MTD Products Inc
Sensation Div Gilson
Simplicity Mfg Inc
White Outdoor Products Co
Woods Div Hesston Corp

Tool Boxes

Arbortech/A Scott Fetzer Co Arizona Power Equipment Co Chemilene Co Handy Mandy Mfg Hi-Ranger Inc Milwaukee Electric Tool Corp Nevr-Rust Tool-Tainer Inc Pro-Turf Mfg Inc Thorco/Master Sprayers Winkler Hydraulics

Topdresser

Cushman-Ryan/OMC Lincoln Turfco Mfg Inc Vicon Farm Machinery Inc