

New World Products Co., Inc.,
11126 Rush St., El Monte, Calif.
91733

Niagara Chemical Div., FMC Corp.,
100 Niagara St., Middleport, N.Y.
14105

Nor-AM Agric. Products, Inc., 20 N.
Wacker Dr., Chicago, Ill. 60606

Northrup, King & Co., 1500 Jackson
St., N.E., Minneapolis, Minn. 55413

Norton Construction Products Div.,
Clipper Mfg. Co., P.O. Box 9604,
Kansas City, Mo. 641134

**John Nunes Mechanical Harvesting
Co.,** 2518 Loquot Ave., Patterson,
Calif. 95363

Nunes Turfgrass Nurseries, Inc., 2006
Loquot Ave., Patterson, Calif.

Nursery Specialty Products Co.,
410 Greenwich Ave., Greenwich,
Conn. 06830

○

Oakes Mfg. Co., FMC Corp.,
516 Dearborn St., Tipton, Ind.

Oberdorfer Pump Div.,
Thompson Rd., Syracuse, N.Y.

Oil-Dri Corp. of America,
520 N. Michigan Ave., Chicago, Ill.

Olin Mathieson Chemical Corp.,
Chemicals Div., Baltimore, Md.

Oliver Corp., 2 N. Riverside Plaza
Chicago, Ill. 60606

Olmsteel Products, Inc., 4625 Farnam
St., Omaha, Nebr. 68132

Omark Industries, Inc., 9701 S.E.
McLaughlin Blvd., Portland, Oreg.

Onan Div., Studebaker Corp., 1400
73rd Ave. N.E., Minneapolis, Minn.
55432

**Oregon Fine Leaf Fescue Commis-
sion,** 605 Weatherly Bldg., Port-
land, Ore. 97214

Oregon Highland Bentgrass Comm.,
Suite 1, Rivergro Bldg., 2111 Front
St. N.E., Salem, Ore. 97303

Oregon Orchardgrass Seed Products,
Comm., 4491 Liberty Rd. S.,
Salem, Oregon 97302

Otis Material Handling, 8000 Baker
Ave., Cleveland, Ohio 44102

Ousley Sod Co., 4291 N. Dixie
Highway, Pompano Beach, Fla.
33064

P

Panama Pump Co.,
Meadow Lane, Hattiesburg, Miss.

Papec Machine Co.,
Shortsville, N.Y. 14548

Parco Products Co., Pottstown Ave.
& Dotts St., Pennsburg, Pa. 18073

Parker Sweeper Co.,
91 Bechtle Ave., Springfield, Ohio

J. R. Pendleton & Son, Inc., 11300
Georgia Ave., Wheaton, Md.
20902

S. B. Penick & Co., 100 Church St.,
New York, N.Y. 10007

Pennington Mfg. Co.,
136 Commercial Rd., Addison, Ill.

Pennwalt Chemicals Corp.,
Pennwalt Bldg.,
3 Parkway, Philadelphia, Pa. 19102

Robert B. Peters Co., Inc., 2833
Pennsylvania St., Allentown, Pa.
18104

Phelps Dodge Refining Corp.,

300 Park Ave., New York, N.Y.

Phillips Petroleum Co.,
Bartlesville, Okla.

Pioneer Saws Div., Gale Products,
Monmouth Blvd., Galesburg, Ill.
61401

Piper Aircraft Corp.,
Bald Eagle St., Lock Haven, Pa.

Piqua Engineering, Inc., P.O. Box
605, Piqua, Ohio 45356

Pitman Mfg. Co., P.O. Box 605,
Grandview, Mo. 64030

Pittsburgh Plate Glass Co., Chemical
Div., One Gateway Center,
Pittsburgh, Pa. 15222

Plains Supply Co., 2702 Avenue A.,
Lubbock, Tex. 79404

Plant Marvel Laboratories,
624 W. 119 St., Chicago, Ill.

H. K. Porter, Inc., 74 Foley St.,
Somerville, Mass. 02143

Practical Products Corp., 4611 S.
Elwood, Tulsa, Okla. 74107

B. G. Pratt Co.,
204 21st St., Paterson, N.J. 07509

Premier Peat Moss Corp., 25 W.
45 St., New York, N.Y. 10036

Prentiss Drug & Chemical Co., Inc.,
101 W. 31 St., New York, N.Y.

Princeton Turf Farms, P.O. Box 392,
Union Valley Rd., Cranbury, N.J.
08512

Pulmosan Safety Equipment Corp.,
30-48 Linden Pl., Flushing N.Y.
11354

Q

Quick Manufacturing, Inc.,
256 Linden Ave., Springfield, Ohio

R

Rain Bird Sprinkler, 7045 N. Grand,
Glendora, Calif. 91740

Rain Jet Corp., 301 S. Flower St.,
Burbank, Calif. 91503

Rain-O-Mat Sprinklers
11701 E. Washington Blvd.,
Whittier, Calif. 90602

Ra-Pid-Gro Corp.,
88 Ossian, Dansville, N.Y.

Raven Ind., Inc., Box 1007,
Sioux Falls, S. Dak. 57101

Rear's Mfg. Co.,
P.O. Box 2430, Eugene, Ore.

Reichhold Chemicals, Inc., 525 N.
Broadway, White Plains, N.Y.

Reinco, Inc., P.O. Box 584
Plainfield, N.J. 07061

B. G. Reilly Co.,
P.O. Box 231, N. Scituate, R.I.

Remington Arms Co., Inc., 25000 S.
Western Ave., Park Forest, Ill.
60466

Rental Equipment Mfg. Co., 2778 S.
Tejon, Englewood, Colo. 80110

Republic Aviation Corp., Helicopter
Div., Farmingdale, L.I., N.Y.

Residex Corp., 225 Terminal Ave.,
Clark, N.J. 07066

Retzloff Chemical Co., 3230 Brook-

BIG BRUTE TURF CUTTER



U.S. Pat. No. 3,357,499

Proved by professionals since 1963. Advanced turf cutter engineering for any soil conditions. Fastest turf cutter made. Cutter is driven by 3-point hitch tractor. PTO speeds for low, second and third, subject to soil conditions. Cutter yields 33¼ sq. yds/min in 2nd gear; 3-4 acres/8-hr/day. Blade life 6-15 acres; side coulters 25-35 acres—all guaranteed never to break under any turf cutting conditions.

BIG BRUTE CUTTER

18035 Georgia Ave. Olney, Md. 20832
Phone 301/924-4443

field, Houston, Texas 77045
 Reynolds Metals Co., 6601 W. Broad St., Richmond, Va. 23218
 Ridge Plastics Co., P.O. Box 2205, Jonesboro, Ark. 72401
 Robeco Chemicals, Inc., 51 Madison Ave., New York, N.Y.
 Roberts Chemicals, Inc., P.O. Box 546, Nitro, W. Va.
 Rockland Chemical Co., P.O. Box 204, West Caldwell, N.J. 07006
 Rogers Mfg. Co., 220 N. Mahaffie St., Olathe, Kans. 66061
 Rohm and Haas Co., Independence Mall West, Philadelphia, Pa. 19105
 Rotatape, Inc., 1301 Olympic Blvd., Santa Monica, Calif.
 Root-Lowell Corp., 1000 Foreman Rd., Lowell, Mich. 49331
 Rosco Manufacturing Co., 3118 Snelling Ave., Minneapolis, Minn.
 Roseman Mower Corp., 2300 W. Lake Ave., Glenview, Ill. 60025
 Roussel Corp., 155 E. 44 St. New York, N.Y.
Rowco Mfg. Co., Inc., 48 Emerald St., Keene, N.H. 03431
 Roxy-Bonner, Inc., 2000 Pioneer Rd., Huntingdon Valley, Pa. 19006
 Royer Foundry & Machine Co., 158 Pringle St., Kingston, Pa. 18704
 Rudd Manufacturing, Inc., P.O. Box 537, Ripon, Calif. 95366
Ryan Equipment Co., 2055 White Bear Ave., St. Paul, Minn. 55109
 Ryerson Steel, Box 8000-A, Chicago, Ill. 60680

S

Sabre Saw Chain, Inc., P.O. Box 341, Lewiston, N.Y. 14092
Safety Test & Equipment Co., Inc., P.O. Box 898, Shelby, N.C.
 Schneider Metal Mfg. Co., 1805 S. 55 Ave., Chicago, Ill.
 Scott Aviation Corp., 255 Erie St., Lancaster, N.Y.
The O. M. Scott & Sons Co., 160 Main St., Marysville, Ohio
S & D Products, 117 Blackhawk Ave., Prairie du Chien, Wis.
Selma Trailer and Mfg. Co., P.O. Box 120, Selma, Calif. 93662
 Servis Equipment Co., Box 1590, Dallas, Texas 75221
 Sewerage Commission of Milwaukee, P.O. Box 2079, Milwaukee, Wis.
Shamrock Turf Nurseries, Hanna, Ind. 46340
 Shell Chemical Co., Agricultural Chem. Div., 2401 Crow Canyon Rd., San Ramon, Calif. 94583
 Shepard Chemical Industries, Inc., 595 Madison Ave., New York, N.Y.
 H. B. Sherman Mfg. Co., 207 W. Michigan Ave., Battle Creek, Mich. 49014
 The Sherwin-Williams Co., 101 Prospect Ave., Cleveland, Ohio
 Side-Winder Plant, FMC Corp., P.O. Box 818, Minden, La. 71055
 Sierra Chemical Co., 37650 Sycamore, Newark, Calif. 94560
 Signal Oil & Gas Co., Houston Div., P.O. Box 5008, Houston, Texas

Sikorsky Aviation Div., United Aircraft Corp., Stratford, Conn.
 Silver Creek Precision Corp., 1875 Elmwood Ave., Buffalo, N.Y. 14207
 Simplex Mfg. Co., 5224 N.E. 42nd Ave., Portland, Ore. 97218
 Simplicity Mfg. Co., Inc., Spring St., Port Washington, Wis. 53074
 Skil Corp., 5033 Elston Ave., Chicago, Ill.
 Skyworker Div., Transair Co., Inc., P.O. Box 360, Delaware, Ohio
 Slope Tractor, Inc., 114—9th St., Harper, Kan. 67058
 D. B. Smith & Co., 414 Main St., Utica, N.Y.
 Seymour Smith & Son, Inc., 900 Main St., Oakville, Conn. 06779
 Snow Aeronautical Corp., P.O. Box 516, Olney, Texas
 Sodmaster, 3456 N. Washington Ave., Minneapolis, Minn. 55412
 Sohio Chemical Co., P.O. Box 628 Lima, Ohio
 Solo Motors, Inc., 5100 Chestnut Ave., Newport News, Va. 23605
 South Dakota Kentucky Bluegrass Assn., P.O. Box 823, Huron, So. Dak. 57350
 Southern Mill Creek Products, Inc., P.O. Box 1096, Tampa, Fla. 33601
 Southwest Potash Div., American Metal Climax, Inc., 1270 Ave. of the Americas, New York, N.Y. 10020
 Special Products Co., 15000 W. 44th Ave., Golden, Colo. 80401
 Speedex Tractor Co., 367 N. Freedom St., Ravenna, Ohio
 Sprayco Mfgs., Inc., 2806 N. Mill St., Jackson, Miss. 39216
 Spraying Systems Co., 3201 Randolph St., Bellwood, Ill. 60104
Sprinkler Irrigation Supply Co., Div. of A. J. Miller, Inc., 1316 N. Campbell Rd., Royal Oak, Mich. 48067
Stanford Seed Co., P.O. Box 230 Plymouth Meeting, Pa. 19462
 Victor Stanley, Inc., P.O. Box 93, Dunkirk, Md. 20754
 Stauffer Chemical Co., Fertilizer Div., 636 California St., San Francisco, Calif.
 Stauffer Chemical Co., Agricultural Chemical Div., 299 Park Ave., New York, N.Y. 10017
 Wm. Steinen Mfg. Co., 29 E. Halsey Rd., Parsippany, N.J. 07054
 Stepan Chemical Co., Edens & Winnetka, Northfield, Ill. 60093
Stihl American, Inc., 194 Greenwood Ave., Midland Park, N.J.
 Stone Fabricators, Inc., Main St., Honeoye, N.Y. 14471
 Stull Chemical Co., P.O. Box 6386, San Antonio, Tex. 78209
Submatic, Inc., P.O. Box 246, Lubbock, Tex. 79408
 Sudbury Laboratory, Box 2471 Sudbury, Mass. 01776
 Summers Fertilizers, Inc., Kapco Div., P.O. Box 487, Somerset, Pa. 15501
 Sun Industry, Inc., 12418 W. Rosemary, New Berlin, Wis.
 The Sun-Mastr Corp., 603 S. Kansas Ave., Olathe, Kansas
 Sunnyhill Research & Mfg. Co., Imperial, Pa.

Superior Chemical Products, Inc., 3942 Frankford Ave., Philadelphia Pa. 19124
 Sweepster, Inc., 2810 Baker Rd., Dexter, Mich. 48130

T

Tarrant Mfg. Co., 27-29 Jumel Pl., Saratoga Springs, N.Y.
 Tecumseh Products Co., 900 North St., Grafton, Wis. 53024
 Telsco Industries, Weathermatic Div., P.O. Box 18205, Dallas, Tex.
 Tenneco Oil Co., P.O. Box 18, Houston, Tex.
 Tennessee Corp., Ind. Chemicals Div., 55 Marietta St., N.W., Atlanta, Ga. 30301
 Thompson Equipment Co., N. Washington St., Starkville, Miss
Thompson-Hayward Chemical Co., P.O. Box 2383, Kansas City, Kans. 66110
 The Thompson Manufacturing Co., 2251 E. 7 St., Los Angeles, Calif.
 Thor Power Tool Co., 175 N. State St., Aurora, Ill. 60507
 Thuron Sprayer Mfg. Co., 12204 Denton Dr., Dallas, Tex. 75234
 Toro Manufacturing Corp., 8111 Lyndale Ave., S., Minneapolis, Minn. 55420
 Tote Systems Div., Hoover Ball and Bearing Co., 656 S. 7th, Beatrice, Nebr.
 Tradewinds, Inc., P.O. Box 1191, Tacoma, Wash. 98401
 Trailevator Div., Magline, Inc., Mercer St., Pinconning, Mich. 48650
 Tree-Ject Co., 1309 Grove Ave., Waycross, Ga. 31501
 Triumph Machinery Co., Willow Grove St., Hackettstown, N.J. 07840
 Troy Blanket Mills, 132 W. 34 St., New York, N.Y.
 Tryco Mfg. Co., Inc., P.O. Box 1277, Decatur, Ill. 62525
TUCO Products Co., Div. of Upjohn Co., 7171 Portage Rd., Kalamazoo, Mich. 49002
Turf Irrigation Corp., 73 Mall Dr., Commack, N.Y. 11725
Turf Vac Corp., P.O. Box 7382, Long Beach, Calif. 90807
 Tyler Corp., E. Highway #12, Benson, Minn.

U

U.S. Borax & Chemical Corp., 3075 Wilshire Blvd., Los Angeles, Calif. 90005
 U.S. Industrial Chemicals Co., 99 Park Ave., New York, N.Y.
 U.S.S. Agri-Chemicals, Div. of U.S. Steel Corp., P.O. Box 1685, Atlanta, Ga. 30301
Union Carbide Corp., Agricultural Products, 1078 Merrill St., Salinas, Calif. 93901
 Uniroyal Chemical, Div., of Uniroyal, Inc., Elm Street Naugatuck, Conn. 06770

Universal Metal Products Div.,
Leigh Products, Inc.
460 Main St., Saranac, Mich. 48881
Universal Motor Co.,
1552 Harrison St., Oshkosh, Wis.
Utility Chemical Co., 145 Peel St.,
Paterson, N.J. 07524

V

Valmont Industries, Inc.,
Valley, Nebr. 68064
The Vandermolen Co., P.O. Box 967,
N. Caldwell, N.J. 07006
Vaughan's Seed Co., Chimney Rock
Rd., Bound Brook, N.J.
Velsicol Chemical Corp.,
341 E. Ohio St., Chicago, Ill. 60611
Verde Lawn, Inc., P.O. Box 11157,
Tucson, Ariz. 85706
Vermeer Manufacturing Co.,
P.O. Box 200, Pella, Iowa 50219
VersaLift Sales Co., P.O. Box 829,
Elkton, Md.
Viking Mfg. Co., P.O. Box 68,
Manhattan, Kans. 66502
Viking Pump Co., 4th & Shutte Sts.,
Cedar Falls, Iowa
Village Blacksmith, 201 Frederick
St., Watertown, Wis. 53094
Vineland Laboratories, Inc., 2285 E.
Landis Ave., Vineland, N.J. 08360
Vistron Corp., P.O. Box 628,
Lima, Ohio 45802
Vulcan Materials Co., P.O. Box 545
Wichita, Kans. 67203

W-X-Y-Z

Waco Lickity Log Splitter Div.,
Piqua Engineering, Inc.,
234 1st St., Piqua, Ohio
R. M. Wade & Co., 1919 N.W.
Thurman St., Portland, Oreg.
97209
Waldon, Inc., 201 W. Oklahoma
Ave., Fairview, Okla. 73737
Walker Mfg. Co., Fowler, Kans.
67844
Walsh Manufacturing Co., 1200
Fisher St., Charles City, Ia. 50616
"Water-In," Inc.
P.O. Box 421, Altadena, Calif.
Waukesha Motor Co.,
W. St. Paul Ave., Waukesha, Wis.
Waverly Petroleum Products Co.,
3018 Market St., Phila., Pa.
Waymark, 44 River St.,
Cortland, N.Y. 13045
Wayne Manufacturing Co., 1201 E.
Lexington St., Pomona, Calif.
H. N. Webster Mfg.,
P.O. Box 623, Sebring, Fla.
Welsh Mfg. Co., 9 Magnolia St.,
Providence, R.I. 02909
Weldex, Old Westboro Rd.,
Grafton, Mass. 01519
West Chemical Products Co., 42-16
West St., Long Island City, N.Y.
11101
Western Peat Co.,
5800 Monroe St., Sylvania, Ohio
Weyerhaeuser Co.,
Tacoma Bldg., Tacoma, Wash.

Wheel-Horse Products, Inc., 515 W.
Ireland Rd., South Bend, Ind. 46614
The Whitaker Manufacturing Co.,
5719 W. 65 St., Chicago, Ill. 60638
Whitney Seed, Div., W. R. Grace &
Co., P.O. Box 250, Buffalo, N.Y.
14240
Wichita Equipment Co., Inc.,
P.O. Box 1329, Wichita Falls, Tex.
Wilbur-Ellis Co., 970 S. Goodrich
Blvd., Los Angeles, Calif.
Wiley Miner Associates, Inc., P.O.
Box 392, Cranbury, N.J.
Williamstown Irrigation, Inc.,
Williamstown, N.Y. 13493
Willson Products Div., Ray-O-Vac
Co., 2nd & Washington Aves.,
Reading, Pa.
Andrew Wilson, Inc.,
Baltusrol Way, Springfield, N.J.
Wood Treating Chemicals Co.,
5137 Southwest Ave.,
St. Louis, Mo. 63110
Wright Saw Div., Thomas Industries,
207 E. Broadway, Louisville, Ky.
W-W Grinder Corp.,
2957 N. Market, Wichita, Kans.
Wyandotte Chemicals Corp., 1532
Biddle Ave., Wyandotte, Mich.
48192
Yazoo Mfg. Co., Inc.
P.O. Box 4207, Jackson, Miss.
39216
York Modern Corp., Mill & Watson
St., Unadilla, N.Y. 13849
Zonolite Div., W. R. Grace & Co.,
P.O. Box 517,
Travelers Rest, S. Car. 29690

Of Course, We Still Have Them!



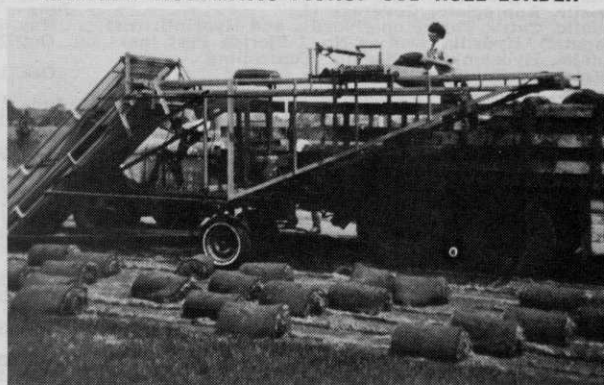
Permanent Magazine Binders

Keep 12 issues of Weeds Trees and Turf in one neat package • Magazine can be easily inserted as it arrives. • Binder protects, gives bookshelf a neat appearance.

Send check or money order to:

WEEDS TREES and TURF
9800 Detroit Ave., Cleveland, Ohio 44102

HADFIELD AUTOMATIC PICKUP SOD ROLL LOADER



Pat. Pending

1. Sod loader easily attaches to any sod truck, trailer, etc. for conventional stacking or palletizing sod.
2. No worker needed on ground when loading.
3. Will load up to three rows of sod at one time.
4. Cross conveyor runs lengthways of loader.
5. Loader may be backed rapidly on short rows.
6. Sod loader will not rut field.
7. Loader can be custom made for height and length on customer request.
8. Loader cannot be beat for speed and easy loading.
9. Any sod nurseryman cannot afford to be without at least one loader.

Hadfield Sod Roller Co.

4643 Sherwood, Oxford, Michigan 48051

Phone: Area 313 628-2000

KEY: Feature article, (fa); news story, (ns); conference report, (cr); book report, (br); obituary, (o); and editorial, (ed); (c) column.

A

	Issue Pg.
AAN Publishes Nationwide Nursery Stock Locator Guide (ns)	Nov. 24
Accidents and Fires, How Much Profit Are You Losing? (fa) by J. L. Shopen	Sept. 12
(Advertising), Arab's Lawn Wins Customers and Awards (ns)	Aug. 36
Advertising, Retail Awards, AAN Presentation (cr)	Sept. 33
Advice, Follow Your Own (L)	May 10
Aerial Applicators See Increased Safety Indispensable in 70s (cr)	Jan. 30
(Air Pollution), Where There's Smoke There's Fire of Protest by Thorne B. Gray (fa)	Mar. 32
Aldrin, Dieldrin Called Essential for Nurseries (ns)	Nov. 26
Aldrin, Dieldrin, USDA Bans Uses For Aquatic Environments	Apr. 41
Algae, An Easy Way to Keep Pond Free of (fa)	Aug. 28
Algae, Total Lake Management (fa) by Norman J. Schein	June 18
Allied Biological Control, How Approaches Problems, Urban, Industrial Weed Control (fa)	Sept. 16
Alligatorweed, Arkansas Survey Sizes Up (ns)	Oct. 35
Allis-Chalmers Announces Expansion of Henry Corp. (ns)	Mar. 49
American Association of Nurserymen, Best in Landscaping During 1970 (fa)	Dec. 13
American Association of Nurserymen Exceeds 1800 (ns)	June 38
American Association of Nurserymen, Membership Rule Change (cr)	July 24
American Society of Consulting Arborists New Officers (ns)	June 33
American Sod Producers, 4th Annual Conf. (cr)	Sept. 24
Anti-Desiccants Works on Stored Azaleas (ns)	Dec. 69
(Aphid), Cooley Spruce Gall; How to Control the (fa) by J. L. Saunders	Jan. 27
Applicator Bob Wright Tells How He Tries To Make a Profit (fa) by Robert G. Wright	Feb. 16
Applicators School Successful (L)	Feb. 41
Aquatic, Alligatorweed, Arkansas Survey Sizes Up (ns)	Oct. 35
Aquatic & Bank Weeds, Research Techniques and Challenges Are Unique (fa) by F. L. Timmons	June 24
Aquatic, Algae Treatment for Private Ponds (fa)	Aug. 28
Aquatic, Appreciates Coverage (L)	June 8
Aquatic, Cattle Thrive on Hydrilla and Hyacinth (ns)	May 50
(Aquatic), Hydrilla Seen as No. 1 Florida Pest (ns)	Oct. 37
Aquatic, Hydronic Method for Controlling Weeds in Running Water (fa)	Oct. 14
Aquatic, Total Lake Management by Norman Schein (fa)	June 18
Aquatic Weed, Beetle Eats (fa) by Robert N. Hambric	Sept. 14
Aquatic Weed Control Research, A Siberian Fish, a Latin Beetle (ns)	Feb. 33
Aquatic Weed Control, The Role of Herbicides (fa) by Jason Cortell	June 12
Aquatic Weed Service, 3M Company (ns)	June 16
Aquatic Weeds, Laser Attack (fa)	Nov. 10
Aquatic, Weldon, Lyle Drowns (ns)	Mar. 40
Aquatic, Weldon, Lyle In Memoriam	June 10
Arab's Lawn Advertising Wins Customers and Awards (ns)	Aug. 36
Arborist Officers for 1970 (cr)	Apr. 38
Arborist, Real Estate Appraiser Working Closer (ns)	June 33
Arborist, Municipal: Street Lights and Trees Can Mix After All (cr)	Nov. 22
Arborists, Municipal, Survey (fa)	Dec. 16
Arborists Soak Up Ideas and Sunshine At February Annual Meeting	Apr. 38
Arizona Public Service, There's More Than Power In (fa)	May 12
Arkansas Survey Sizes Up Alligatorweed (ns)	Oct. 35
Article Index (fa)	Dec. 54
Asplundh Tree Expert Company (fa) by Gene Ingalsbe	Aug. 8
Athletic Fields, Help Offered on Turf For (ns)	Sept. 29
August Editorial Liked (L)	Oct. 20
August Issue, Thanks (L)	Oct. 20
(Awards), Best in Landscaping During 1970 (fa)	Dec. 18

B

Bank & Aquatic Weeds, Research Techniques and Challenges Are Unique (fa) by F. L. Timmons	June 24
Beck Invents Sod System For Harvesting and Laying (ns)	June 32
Beetle, A Latin, Weed Control Research (ns)	Feb. 33
Beetle Eats Aquatic Weed by Robert N. Hambric (fa)	Sept. 14
Bentgrasses, Black Mountain Tests Fertilizers and (fa) by Ross Taylor	Apr. 24
Bentgrass, Enzyme Stops Growth On Hot Day (ns)	Oct. 19
Black Mountain Test Fertilizers and Bentgrasses (fa) by Ross Taylor	Apr. 24
Bluegrass Billbug, Sevin With One Blow Kills Lawn-Devastating Trio (ns)	June 34
Botanist, California, Defends 2, 4, 5-T (L)	July 6
Britain, The Tree Scene (fa) by W. E. Matthews	Aug. 20
Brush Control, Seven Important Steps To Prescription (fa) by Hyland Johns	May 22
Bucket Operator Rescue (fa)	Aug. 14
Bucket Rescue, Error In (L)	Oct. 20

Burning, Field, Grass Seed Industry	May 40
Teeters On Issue of (fa)	May 40
(Business), Herbicides for Beginners (fa)	Feb. 6
(Business), 2nd National Sod Survey (fa)	Nov. 17

C

California Botanist Defends 2, 4, 5-T (L)	July 6
California, Certified Nurseryman Program Under Way In (ns)	May 39
California Weed Conference, 22nd Annual (cr)	Apr. 42
Cal-Turf, How They Move Sod (fa)	Aug. 30
Cattle Thrive On Hyacinth and Hydrilla In Florida Test (ns)	May 50
Campe Tree Service Acquired by Davey Tree (ns)	Sept. 23
Central Chemical Forms Turf Products Div. (ns)	Feb. 28
Chadwick, Dr. L. C. Tree Industry Outlook (fa)	Dec. 14
Chemical Increases Pesticide Residual Power (ns)	Jan. 42
Chemical Maintenance, Inc., Weeds Are Losing (Chemical Pesticides), Will It Be a Year of Throwing Out the Baby With the Wash? (fa) by Jim Mills	Dec. 10
the Ditchbanks In Louisiana War (fa)	Apr. 20
Chemicals, TurboTrim, Right-of-Way Maintenance With (fa) by Gene Ingalsbe	July 6
Chemists Find Additives That Break Down DDT (ns)	Aug. 37
Chewings Fescue Variety Licensed for Canada Use (ns)	Apr. 43
Chippers, Big Tree, Problem-Solving Moneymakers (fa)	Oct. 8
Chlordane, Heptachlor, Pen a Note For (ns)	Oct. 35
CIBA, Geigy Directors Announce Merger Proposal (ns)	Aug. 38
CIBA-Geigy, Ltd., It's Now (nc)	Dec. 69
Cities, Municipalities, and Parks, Weed Control Costs In Long-Season Areas (fa) by Turney J. Hernandez	Feb. 14
Colburn's, Bill, Weed Machine (fa) by Bill Gentry	May 38
Colloidal Products Corp. Celebrate 50th Year (ns)	Nov. 33
Computer? Irrigation by (fa) by Ted Woehrle	Mar. 18
Conservationist, Leading, Back Pesticide Use (ns)	Oct. 25
Conspiracy of Ignorance (ed)	Feb. 4
Consulting Arborists Name Davis Executive Director (ns)	Oct. 36
Container, Pesticide Disposal . . . A Look At Burning (fa)	Apr. 10
Cooley Spruce Gall Aphid: How To Control the (fa) by J. S. Saunders	Jan. 27
(Costs), Here's An Estimate of Weed Control In Long-Season Areas (fa) by Turney J. Hernandez	Feb. 10
Costs, How Does Your Production Measure Up? (fa) by Donald D. Juchartz	Oct. 22
Costs, Quality, Seed Supplies, Industry Growth, American Sod Producers Conference (cr)	Sept. 24
Crane Fly, USDA Imposes Restrictions To Stop Spread (ns)	Aug. 38
Creeping Speedwell, Chemical Control (fa) by A. J. Turgeon and W. F. Meggitt	July 22
Crownvetch, For Erosion Control, 'No Maintenance,' and Beauty: (fa)	Sept. 6
Cutrine, An Easy Way To Keep Pond Free of Algae (fa)	Aug. 28

D

Davey Tree Acquires Campe Tree Service (ns)	Sept. 37
Davey Tree Announces Fault Detection Service (ns)	Oct. 34
Davey Tree Cares For Lincoln Oak (ns)	Feb. 34
Davey Tree Enters Equipment Field (ns)	Nov. 26
Davey Tree Has Record Sales (ns)	May 51
DDT, Chemists Find Additives That Break Down (ns)	Aug. 37
DDT, Hens and (L)	July 38
DDT, Cornell Scientists Trace Decay of (nc)	Dec. 68
DDT, Six Manufacturers Contest USDA's Ban (ns)	Feb. 39
(DDT), Spraymen Sue the Federal Government (cr)	Nov. 9
DDT, USDA Bans in Four Categories (ns)	Jan. 21
Dicamba, Try These Tips On Using Mecoprop and (fa)	Feb. 27
Dieldrin, Aldrin Banned by USDA For Aquatic Environment (ns)	Apr. 41
Dieldrin, Aldrin Called Essential For Nurseries (ns)	Nov. 26
Disease, Diagnosis of Plant (ns)	Feb. 42
Dow Cites 2,4,5-T Impurity As Cause Of Birth Defects (ns)	May 53
Dow Dicamba Available (ns)	Apr. 44
DuIN, DuBois Chemicals Announces, For Non-Crop Area (ns)	July 38
Dutch Elm Disease, Elms Found Resistant to (ns)	Dec. 68
Dutch Elm Disease Losses Drop 50% In Milwaukee County, Wis. (ns)	July 25
Dutch Elm Disease, Ohio State Gets \$51,000 For Research (ns)	July 34

E

Ecologists, To Maintain A Balance With, In Nature (ed)	Oct. 6
(Equipment), Annual Spray-O-Rama (cr)	Nov. 9
(Equipment), Big Tree Chippers (fa)	Oct. 8
(Equipment), Bill Colburn's Weed Machine (fa) by Bill Gentry	May 38
Equipment Directory and Suppliers Guide (fa)	Dec. 21
(Equipment), Factors Affecting Weed Control (cr)	Dec. 60
(Equipment), How Cal-Turf Moves Sod (fa)	Aug. 30
Equipment, Indian Joe Mechanizes Carving (ns)	Apr. 44
(Equipment), Landscaping With a Mercedes-Benz (fa)	Nov. 12
(Equipment), Nurseryman Digs Trench With Power Saw (ns)	Mar. 48
(Equipment), Rotary Tiller Disperses New Gelled Soil Fumigant (ns)	Jan. 40
(Equipment), 2nd National Sod Survey (fa)	Nov. 17
(Equipment), Vacuum Leaf Collector (ns)	Dec. 64
(Employee), Accidents and Fires, How Much Profit Are You Losing? (fa) by J. L. Shopen	Sept. 12
Employees, Herbicides For Beginners Orient Your New (fa)	Feb. 6
Endrin, Forest Service Announces Reduced Use Of (ns)	Feb. 41
Environmental Industries, Inc., Buys Green Valley Landscaping (ns)	Nov. 34
(Environment), To Much Country Out of the People (ed)	Nov. 6
Enzyme Stops Growth of Bent On Hot Day (ns)	Oct. 19
Erosion Control, Crownvetch, 'No Maintenance' and Beauty: (fa)	Sept. 6
European Chafer Grubs, Sevin With One Blow Kills Lawn-Devastating Trio (ns)	June 34
Europeans Visited Others (L)	Feb. 41

F

	Issue Pg.
Farrens Tree Surgeon, Bucket Operator Rescue (fa)	Aug. 14
Fertilization: What's Going On Underground (fa)	Oct. 18
(Fertilizer), Perlite Is Carrier in New Bulk-Blend Process (ns)	Jan. 20
Fertilizers, Black Mountain Test Bentgrasses and (fa) by Ross Taylor	Apr. 24
(Finance), Prepare for More Inflation (fa) by David L. Markstein	July 12
Fires and Accidents, How Much Profit Are You Losing (fa) by J. L. Shopen	Sept. 12
Fish, A Siberian, Weed Control Research (ns)	Feb. 33
Five Behind, Five Ahead — Take a Look (ed)	Apr. 8
Florida, Hydrilla Seen As No. 1 Pest (ns)	Oct. 37
Florida Nurserymen Tipped On Tree-Growth Retardants (cr)	Dec. 65
Football Field, How Thistle Down Turned into a (fa)	May 26
Frost and Higgins Wins Landscape Merit Awards (ns)	Dec. 70
Fumigant, New Gelled Soil Fumigant Dispersed by Rotary Tiller (ns)	Jan. 40
Fungicide, New Turf, Ends Need for Mercury (ns)	Dec. 64
Furniture Firm Turns Sawdust Into Sawbucks (ns)	Oct. 34

G

Geigy, CIBA Directors Announce Merger Proposal (ns)	Aug. 38
Geigy Uses 'Maxi-Plot' to Introduce Herbicides (ns) by Ed Sorgatz	Feb. 17
Georgia Institute of Technology, Perlite Is Carrier in New Bulk-Blend Fertilizer Process (ns)	Jan. 20
Globe, Arizona, 2,4,5-T Caper (ns)	Nov. 25
(Golf), Black Mountain Tests Fertilizers and Bentgrasses (fa) by Ross Taylor	Apr. 24
Golf Course Architects Directory (fa)	Dec. 33
Golf Course Builders Form National Trade Association (ns)	Sept. 23
(Golf Course), Florida, Michigan Leading in Construction (ns)	Feb. 29
(Golf Course), Grass Seed Sprayed on Kentucky Golf Estates (fa)	Sept. 22
Golf Course Irrigation: 8 Good Ideas (fa)	Mar. 20
(Golf Course), Sand/Bark Greens and Tees (fa)	Feb. 24
Golf Course Superintendents Association of America Annual Conference (cr)	Apr. 49
Golf Course Superintendents Association of America, 1970 Officers (cr)	Apr. 52
Golf Course Superintendent, Help From Above by Tuco Div., Upjohn Co. (fa)	May 32
Golf Course Survey, WTT Surveys Cost of Golf Course Upkeep	Jan. 22
Golf Course, Turf Management by Ear (fa) (Golf Course), Whitmarsh Gives Poa Heave-Hoa (fa) by Phil Lance	Aug. 26
Goodall, George W., Tree Industry Outlook (fa)	Dec. 14
Graeagle Meadows, Sand/Bark Greens and Tees (fa)	Feb. 24
Grass Seed Industry Teeters on Issue of Field Burning (fa)	May 40
Grass Seed Sprayed on Kentucky Golf Estates (fa)	Sept. 22
Grasses, Michigan Names Best Mixes for roadside (ns)	Dec. 64
Grounds Beautification, Ohio Turfgrass grass Conference (cr)	Jan. 15
Grau, Dr. Fred V., Crownvetch (fa)	Sept. 6
Greenbelt Communities, How to Avoid Maintenance Headaches (fa) by Lou Speer	June 31
Gypsy Moth, Accelerated Research Asked To Control (ns)	Feb. 34
Gypsy Moth Defoliates 800,000 Acres In Northeast (ns)	Nov. 15

H

Helicopter Association of America Claims Immunity to New Airport User Tax (ns)	Dec. 62
(Helicopter), Help From Above For the Golf Course Superintendent (fa) by Tuco Div., Upjohn Company	May 32
Helicopter Right; Wrong Name (L)	Oct. 20
Heptachlor, Chlordane, Pen a Note For (ns)	Oct. 35
Herbicide, Broadcast Good Side of Story (cr)	Feb. 30
Herbicide, Double-Action, Getting USDA Evaluation (ns)	Nov. 27
Herbicides, Geigy Uses Maxi-Plot To Introduce (ns) by Ed Sorgatz	Feb. 17
Herbicide, Rohm and Haas Announces New Kerb 75W (ns)	Feb. 42
Herbicides for Beginners (fa)	Feb. 6
Herbicides, The Role Of (fa)	Nov. 27
(Herbicides), What's Best in Northwest Reported at Weed Meeting (cr)	Dec. 65
by Jason M. Cortell	June 12
Herbicide, 2,4,5-T Issue Phoney, Say Weed Experts (cr) Thorne Gray	Apr. 42
Herbicide, 2,4,5-T Test Is Invalid (ns)	Mar. 52
(Herbicide), 2,4,5-T, Tonto National Forest (ns)	Nov. 25
(Herbicide) USDA Registers U.S. Borax, Maintain CF 125 (ns)	Mar. 53
(Highway Beautification), Take a Ride on Interstate 00 (fa)	Dec. 6
Highway Weed Control: Cost In Long Season Areas (fa) by Turney J. Hernandez	Feb. 12
Holmes, Inc., Norman V., Firm Specializes in Tree Care Only (fa) by Phil Lance	May 18
(Homeowner's), Underground Sprinklers High On Want List (fa)	May 17
Hyacinth, Cattle Thrive on Hydrilla and (ns)	May 50
Hyacinth Control Society, Record Meeting (cr)	Sept. 30
Hyde, Robert W., Patents Hydrionic Method for Controlling Weeds (fa)	Oct. 14
Hydrilla, Cattle Thrive on Hyacinth and (ns)	May 50
Hydrilla Seen as Florida's New No. 1 Pest (ns)	Oct. 37
Hydrionic Method, for Controlling Weeds In Running Water (fa)	Oct. 14
Hypro Sales Seminar (cr)	Dec. 64

I

Ickes, R. W. Elected President of Aerial Application Corp. (ns)	Mar. 15
Industrial, Urban, Weed Control, How Allied Biological Control Approaches Problems (fa)	Sept. 16

Industry Growth, Costs, Quality, Seed Supplies at ASPA (cr)	Sept. 24
Inflation, Prepare For More (fa) by David L. Markstein	July 12
International Harvester Eye New Machines in Broadened Industrial Line (ns)	June 36
International Harvester Sees More Lawn Tractors in 1970 (ns)	Jan. 42
International Shade Tree Conference Agenda Announced (cr)	July 26
International Shade Tree Conference, 46th Annual (cr)	Oct. 26
International Shade Tree Conference, Western Chapter, 37th Annual (cr)	July 36
Iowa Aerial Applicators Elect Theobald President (cr)	Mar. 53
Iowa State University Formulation Allows Zero-Degree Spraying (ns)	Apr. 32
Iowa State Univ. Receives Check For Research From GCSA (ns)	Feb. 29
Irrigation, Beauty, Upkeep, Status Push Turf (fa) by A. Brown	Mar. 26
Irrigation by Computer? (fa) by Ted Woehrl	Mar. 18
Irrigation Cover Impressive (L)	June 8
Irrigation Ditch Weed Control (fa)	Oct. 16
(Irrigation), Golf Course: 8 Good Ideas (fa)	Mar. 20
Irrigation, Large-Area, Turbo-Rain Gives 24-Hour Unattended (fa) by Edward G. Dickson	Mar. 22
(Irrigation Systems), Minimum Installation Specifications for Turf Sprinkler (fa)	Mar. 11
Irrigation, What's Going On Underground (fa)	Oct. 18

J

Jacobsen and Nunes Merger (ns)	Nov. 32
--------------------------------	---------

K

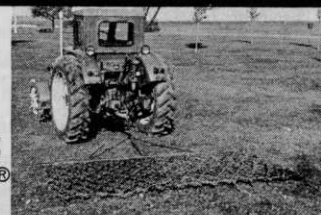
KDM, Dave Petersen Form Company (ns)	Sept. 31
Kentucky Bluegrass; Turfgrass Par Excellence (fa) by Dr. Robert W. Schery	Jan. 6
Knaack Mfg. Co. Buys Weatherguard Chest (ns)	Oct. 37

L

Labor, Texans Hear Principles of Management (cr)	Feb. 40
Lake, Total Management (fa) by Norman J. Schein	June 18
Land of the Tree Giants (fa) by Grover Brinkman	Jan. 28
Landscape, A Suggested Maintenance Contract (fa)	Feb. 38
Landscape, Best in, During 1970 (ns)	Dec. 18
Landscape Contractors of America, New Officers (ns)	Mar. 50
Landscape Council Folds (ns)	Feb. 39

BETTER TURF MAINTENANCE

- Aerates
- Works in Seed, Fertilizer
- Prepares finest Seedbeds



FURST FLEXIBLE TINE HARROW®

The ideal low cost tool for better lawn building and maintenance. Flexible construction for complete coverage. 3 settings — deep or light penetration or smoothing drag mat. Easy to store. No maintenance. Lasts for years. Standard models in 6 to 24 ft. widths. Also new 4 1/2 ft. Mini Harrow for use with compact tractors. Write today for free literature and prices.

FURST BROTHERS Dept. WT-12, Rhinebeck, N.Y. 12572

For More Details Circle (133) on Reply Card

CROWN VETCH

**Controls Erosion — Zero Maintenance
NO MOWING! NO WEDDING!**

Now faster, surer, easier with plants in Peat-Pots. Also available as Crowns

Write for price information and brochure

STANFORD SEED CO.

P.O. Box 230 — Plymouth Meeting, Pa. 19462
215-825-1240

or
P.O. Box 366 — Buffalo, N.Y. 14240
716-825-3300

Landscape Maintenance Group Formed in Minnesota	Nov. 24
Landscapers, Inc. Merge With Pied Pipers, Inc. (ns)	Mar. 51
Landscaping, NLA Reveals Award Program for Residential (ns)	May 36
Landscape Nurserymen Association, New Offers (ns)	Mar. 52
Landscaping, Stepchild of, Maintenance (fa) by Ray Gustin, Jr.	Aug. 16
(Landscaping), Take a Ride on Interstate 00 (fa)	Dec. 6
Landscaping With a Mercedes-Benz (fa)	Nov. 12
Laser Attack on Aquatic Weeds (ns)	Nov. 10
(Lawn), A Perfect Lawn the Easy Way (br)	Dec. 70
Lawn and Turf Conference, 11th (cr)	Jan. 18
by Paul N. Voykin	Jan. 18
(Lawngrasses), Washington Seed Quality Law Likely Sod Industry Standard (fa)	Sept. 28
Lederer, Robert F., Receives Award (ns)	Jan. 39
(Legislation), Will It Be a Year of Throwing Out the Baby With the Wash? (fa) by Jim Mills	Dec. 10

M

Maintenance, A Suggested Landscape Contract (fa)	Feb. 38
(Maintenance), Beauty, Upkeep, Status Push Turf Irrigation (fa) by A. Brown	Mar. 26
(Maintenance), Greenbelt Communities, How to Avoid Headaches (fa) by Lou Speer	June 30
Maintenance: Stepchild of Landscaping (fa) Ray Gustin, Jr.	Aug. 16
(Maintenance), Take a Ride on Interstate 00 (fa)	Dec. 6
Maintenance, TurboTrim, Right-of-Way With Chemicals (fa) by Gene Ingalsbe	July 6
March, He Liked (L)	May 10
Markstein's More Like (L)	Oct. 20
M-B Company Now Owns the Fitchburg Chipper (ns)	Aug. 40
Mecoprop, Try These Tips On Using Dicamba and (fa)	Feb. 27
Melnor Industries, Turf Irrigation Merger (ns)	Sept. 23
Mercedes-Benz, Landscaping With a (fa)	Nov. 12
Michigan 40th Turf Conference (cr)	Mar. 36
Michigan State Univ., Study Evaluates Protective Turf Covers (ns)	Jan. 39
Missouri Valley Turfgrass Association Presents Check to UMC for Turfgrass Research (ns)	Feb. 40
Missouri Valley Turfgrass Assn. Award (cr)	Dec. 70
3M Company Announces Aquatic Weed Service (ns)	June 16
Morbark-Big Tree Chippers (fa)	Oct. 8
Mountain, Oregonian 'Seeding' Each State's Tallest (ns)	May 46
Municipal Arborists Annual Meeting (cr)	Nov. 22
Musician Hauls Sod by Train (ns)	Oct. 24
Myers, 100th Anniversary (fa)	July 28

N

NASA Plans High Recon of Minnesota Forests (ns)	Feb. 35
National Landscape Association Reveals Award Program for Residential Landscaping (ns)	May 36
National Lawn and Garden Week: March, April, May (ns)	Mar. 50
NCR Country Club, Turf Management by Ear (fa)	Jan. 16
Needed Accessory for Lawnmakers — Backup Lights (ed)	Aug. 4
New England ISTC List December Conference Topics (ns)	Nov. 32
Niagra Chemical Forms Industrial Sales Dept. (ns)	Mar. 51
Nickel, Harold R., Tree Industry Outlook (fa)	eDec. 14
Nitrate Reductase, Stops Growth of Bentgrass on Hot Day (ns)	Oct. 19
Northeastern Weed Control Conference, Broadcast Good Side of Herbicide Story (cr)	Feb. 30
Northeastern Weed Control Conference, New Officers (cr)	Feb. 32
Northwest Pesticide Group Testing Federal DDT Noose: Spraymen Sue (cr)	Nov. 9
N-Triple-A Fly-In, Third Annual (cr)	Jan. 30
Nunes and Jacobsen Merge Turfgrass Nurseries (ns)	Nov. 32
Nurseryman Digs Trench With Power Saw (ns)	Mar. 48
Nurserymen Hear Progress of Government Research (cr)	Sept. 32

O

Oak, Davey Tree Cares For Lincoln (ns)	Feb. 34
October Issue Exemplary (L)	Feb. 41
Ohio Turfgrass Conference — A Big Turf Show and What Goes On (cr)	Jan. 8
Ohio Turfgrass Foundation Awards OSU Grant For Turfgrass Research (ns)	Dec. 63
Ohio Turfgrass Foundation, Officers (cr)	Jan. 14
Optimism and Concern, Tree Industry Outlook (fa)	Dec. 14
Oregon Specialists Form Turf-Seed, Inc. (ns)	Oct. 24

P

Pacific Northwest Pesticide Applicators Association Annual Spray-O-Rama (cr)	Nov. 9
People Who Really Get the Job Done, The (ed)	July 4
Perlite Is Carrier In New Bulk-Blend Fertilizer Process (fa)	Jan. 20
Pest Handbook Offer (L)	Feb. 41
Petroleum Industry, Weed Control Costs In Long-Season Areas (fa) by Turney J. Hernandez	Feb. 12
Pesticide Articles Commended (L)	June 8
Pesticide Container Disposal . . . A Look At Burning (fa)	Apr. 14
(Pesticide), Dow Cites 2,4,5-T Impurity As Cause of Birth Defects (ns)	May 53
(Pesticide), Florida Group Backs Up On Sodium Arsenite Ban (ns)	Sept. 22
(Pesticide), Inaccuracies in 2,4,5-T Article (L)	June 8
Pesticide Laws (fa)	Apr. 10
(Pesticide), New Chemical Increases Residual Power (ns)	Jan. 42
Pesticide Outlook, Will It Be a Year of Throwing Out the Baby With the Wash? (fa) by Jim Mills	Dec. 10
Pesticide Research, \$600,000 Grant Awarded By Rockefeller Foundation (ns)	Mar. 51
(Pesticide), That Frightful Imaginary Danger (ed)	Jan. 4
(Pesticide), World Symposium Set At MSU For Feb. 25-27 (ns)	Feb. 28

(Pesticides), Conspiracy of Ignorance (ed)	Feb. 4
Pesticides, Leading Conservationist Back Use (ns)	Oct. 24
Pesticides or Suicide? Perhaps, the Way We Talk (ed)	Mar. 8
Pesticides, Six DDT Manufacturers Contest USDA's Ban (Pesticides), USDA Bans DDT In Four Categories (ns)	Jan. 21
Petersen, Dave, Forms KDM Company (ns)	Sept. 31
Picture, Can See Big (L)	May 10
Pied Pipers, Inc., Merge With Landscapers, Inc. (ns)	Mar. 51
Pine, Fast-Growing, Salt-Tolerant Shows Promise at MSU (ns)	Mar. 34
Pine, Ponderosa Damage in California (L)	Feb. 41
Plant Site, Weed Control Cost in Long-Season Areas (fa) by Turney J. Hernandez	Feb. 14
Poa Anua, Whitmarsh Gives Heave-Ho (fa) by Phil Lance	Aug. 26
(Pollution), That Frightful Imaginary Danger (ed)	Jan. 70
Pollution, Tree Odor May Help Solve Air (ns)	Mar. 24
(Pollution), Where There's Smoke There's Fire of Protest (fa) by Thorne B. Gray	Mar. 32
(Population), Green Survival and the Population Problem (ed)	Dec. 4
Pond, An Easy Way to Keep Free of Algae (fa)	Aug. 28
Precision Spraying, Applicator Tells How To Make a Profit (fa) by Robert G. Wright	Feb. 16
Production, How Do Your Costs Measure Up? (fa) by Donald D. Juchartz	Oct. 22
(Profit), Applicator Tells How (fa) by Robert G. Wright	Feb. 16
Public Service, There's More Than Power In Arizona (fa)	May 12
Purr-Wick, Turf Successes With, Midwest Region Turf Conference Report (cr)	Apr. 34

Q

Quality, Costs, Seed Supplies, Industry Growth, ASPA Conference (cr)	Sept. 24
--	----------

R

Rae, William A., Tree Industry Outlook (fa)	Dec. 14
Railroads, Weed Control Costs in Long-Season Areas (fa) by Turney J. Hernandez	Feb. 11
Real Estate Appraiser, Arborist Working Closer (ns)	June 33
Researchers, Better Data Evaluation Needed: Weed Science of America 10th Annual Meeting (cr)	Mar. 44
Research, Nurserymen Hear Progress of Government (cr)	Sept. 32
Research Support, Appreciates (L)	Feb. 41
Rights-of-Way, Crownvetch (fa)	Sept. 6

S

(Safety), Accidents and Fires, How Much Profit Are You Losing? (fa) by J. L. Shopen	Sept. 12
(Safety), Aerial Applicators See Increased Safety Indispensable in 70s (cr)	Jan. 30
(Safety), Bucket Operator Rescue (fa)	Aug. 14
Safety Test & Equipment Co., Buys Wood/Chuck (ns)	Aug. 40
(Safety), That Frightful Imaginary Danger (ed)	Jan. 4
Sand/Bark Greens and Tees (fa)	Feb. 24
Sawdust into Sawbucks by Furniture Firm (ns)	Oct. 34
'Seeding,' Oregonian, Each State's Tallest Mountain (ns)	May 46
Seed Specifications, Midwest Sod Growers Set Soil and (ns)	Mar. 48
Seed Supplies, Industry, Growth, Quality, Costs at ASPA Conference (cr)	Sept. 24
Seven Important Steps to Prescription Brush Control (fa) by Hyland R. Johns	May 22
Sevin With One Blow Kills Lawn-Devastating Trio (ns)	June 34
Shady Grove Plantation and Nursery (fa) by Bill Gentry	July 16
Smithco, Inc., Buys Thuron Line of Spray Equipment (ns)	Nov. 26
Sodding, Soil Preparation and — Guideline Specifications (fa)	Apr. 30
Sod Growers, Midwest Set Soil and Seed Specifications (ns)	Mar. 48
Sod Heating Damage Cut by Close Mowing (ns)	Oct. 25
(Sod), How Cal-Turf Moves (fa)	Aug. 30
(Sod), How Do Your Production Costs Measure Up? (fa) by Donald D. Juchartz	Oct. 22
(Sod), I'll Tell You How We Started a Zoysia Nursery (fa) by William M. Latta	Jan. 34
Sod Industry, 2nd National Sod Survey (fa)	Nov. 17
Sod Producers' Meeting of the Year is July 28-30 (cr)	July 20
(Sod), Tell 'em How to Grow Your Sod (fa) by Gene Ingalsbe	Feb. 26
(Sod Webworm), Sevin With One Blow Kills Lawn-Devastating Trio (ns)	June 34
Sod, Your Reputation as Grower Goes With Handler of (fa)	Mar. 39
Sodium Arsenite, Florida Pesticide Group Backs Up On (ns)	Sept. 22
Soil Preparation and Sodding, Guideline Specifications (fa)	Apr. 30
Soil Specifications, Midwest Sod Growers Set Seed and (ns)	Mar. 48
Soil Temperature Effects on Plants, Ohio Turfgrass Conference (cr)	Jan. 11
Southern Weed Science Society Report: Look at Weeds as Pest Haven (cr)	Mar. 40
(Spraying), ISU Formulation Allows Zero-Degree (ns)	Apr. 32
Spraymen Sue, Northwest Pesticide Group Testing Federal DDT Noose (cr)	Nov. 9
Sprinklers, Underground, High On Homeowners Want List (fa)	May 17
Spruce, Hybrid, Developed At MSU (ns)	Apr. 41
Striped Smut Control Grants Go to Pennsylvania (ns)	Oct. 24
Stauffer Chemical To Move From NYC to Conn. (ns)	Feb. 41
St. Augustine Decline, Texas A&M Reports Research Progress (ns)	Jan. 41
Suppliers Guide and Equipment Directory (fa)	Dec. 21
Survey, Vocational Horticulture Training Published (ns)	Feb. 42
Systemics Not Cure-Alls, Says New Mexico's Durkin (ns)	July 34

T

	Issue Pg.
Texas A&M Reports Research Progress On "SAD"	Jan. 41
Texas Turf Irrigation Association Awards ns)	Dec. 69
Texas Weed Conference, Factors Affecting Weed Control (cr)	Dec. 60
Texans Hear Principles of Labor Management (cr)	Feb. 40
Thatch, Successful Program (L)	May 10
Thatch, What a Maryland Agronomist Recommends (fa)	May 48
Thistle Down Turned into a Football Field (fa)	May 26
Thuron Sprayer Mfg. Co. Sold to Smithco, Inc. (ns)	Nov. 26
Toro Enters Hydro-Mulching; Posts 6th Straight Top Year	Nov. 33
Toro Expanding Again (ns)	May 49
(Tractors), IH See More Lawn Tractors in 1970 (ns)	Jan. 42
Tree, Big Chippers, Problem-Solving Money Makers (fa)	Oct. 8
Tree Care Faces Increasing Obstacles: ISTC 46th Annual (cr)	Oct. 26
(Tree Care), Firm Specializes in Tree Care Only, Norman V. Holmes, Inc. (fa) by Phil Lance	May 18
Tree Care, More Funds For, Municipal Arborists Survey Reveals fa)	Dec. 16
Tree Damage Increasing From Salt Use On Highways (ns)	Feb. 35
Tree Industry Outlook, Optimism and Concern (fa)	Dec. 14
(Tree), It's Still Alive (fa) by Lou Speer	Nov. 14
(Tree), Land of the Giants (fa) By Grover Brinkman	Jan. 28
Tree-Planting, Container May Increase Quality (ns)	May 25
Tree Usage, Cities Cited for Poor (cr)	July 36
(Trees), Plant Hormone Boosts Seedling Growth (ns)	July 27
(Trees), The Tree Scene in Britain (fa) by W. E. Matthews	Aug. 20
(Trees), Valley Crest Tree Co. Transplant (ns)	Nov. 34
Trees, Your Interest in Building Public Interest in, (ed) Trimmings: San Francisco Turf Transplant; Artificial Turf-William Latta; Boy Scouts of Kenilworth, Ill.; Dutch Elm Disease at Defiance, Mo. (c)	Jan. 42
Trimmings: A Dead Tree; Here's a Postscript; At Least Two Side Benefits (c)	Feb. 42
Trimmings: The Popular Way; Suppose We Apply; Another Question (c)	Mar. 54
Trimmings: Florida Nurserymen; Sod Farming; The Sad Story; Missouri Cities; New Zealand (c)	Apr. 53
Trimmings: One by One; Jim Bunning; Arbor Day; Modesto High School; The St. Louis Arch (c)	May 54
Trimmings: Speaking of Trouble on Campus; Also on the College Scene; Forest Service Chief (c)	June 42
Trimmings: Orange Bowl Officials; Three Manufacturers; Emory C. Pope; Wisconsin Landscape Institute (c)	July 36
Trimmings: Manufacturers; A Tropical Beast; In France; Joe McDermott; Lester Asplundh (c)	Aug. 42
Trimmings—Michigan Tree Industry; Toronto; New Jersey; Oxygen; Another Way; Is Our Total Supply; What's the Difference; A Massive Aerial Re-Seeding (c)	Dec. 70
Trimmings: On a 90-Degree Day; More Legislation; Denver, Colo.; Tordon Is a Safe Herbicide (c)	Sept. 38
Trimmings: Steve Coffin Poem; Fred K. Buscher; The 10,000th Golf Course; One Acre of Grass (c)	Oct. 38
Trimmings: An Elm Tree; U.S. Forest Service; Helicopters; The Denver Post; Certain Species of Fish (c)	Nov. 34
Tuco Div., Upjohn Co., Help From Above for the Golf Course Superintendent (fa)	May 32
Tulsa Nurseries Organize ns)	Dec. 69
Turbo-Rain Gives 24-Hour Unattended Large-Area Irrigation (fa) by Edward G. Dickson	Mar. 22
TurboTrim, Right-of-Way Maintenance With Chemicals (fa) by Gene Ingalsbe	July 6
(Turfgrass Disease); Ohio Turfgrass Conf. (cr)	Jan. 11
(Turfgrass), Ill Tell You How We Started a Zoysia (fa)	Jan. 34
(Turfgrass), Kentucky Bluegrass; Turfgrass Par Excellence (fa) by Dr. Robert W. Schery	Jan. 6
(Turfgrass), Michigan 40th Turf Conference—Disease, Thatch, Pelletized Clippings, Sod Covers, Cicada Wasp, Sod Strength, European Turf (cr)	Mar. 36
Turfgrass Science, By the American Society of Agronomy (br)	Apr. 22
(Turfgrass), Texas A&M Reports Research Progress on "SAD" (ns)	Jan. 41
Turf, Irrigation, Melnor Industries Merger (ns)	Sept. 23
Turf Management by Ear (fa)	Jan. 16
(Turf), MSU Study Evaluates Protective Covers (ns)	Jan. 39
(Turf), Midwest Regional Conference (cr)	Apr. 34
(Turf), Minimum Installation Specifications For Turf Sprinkler Irrigation Systems (fa)	Mar. 11
Turf-Seed, Inc., Formed by Oregon Specialists (ns)	Oct. 24
Turf Successes With Turf-Wick, Midwest Regional Turf Conf. (cr)	Apr. 34
Turf, Help Offered for Athletic Fields (ns)	Sept. 29
Turf Varieties and Mixtures, Ohio Turfgrass Conference (cr)	Jan. 8
2,4,5-T, California Botanist Defends (L)	July 6
2,4,5-T, Dow Cites Impurity as Cause of Birth Defects (ns)	May 53
2,4,5-T, Globe, Ariz., Capar (ns)	Nov. 70
2,4,5-T, Inaccuracies in Article (L)	June 8
2,4,5-T, Incriminating Test Is Invalid (ns)	Mar. 52
2,4,5-T, Issue Phony, Say Weed Experts (ns)	Apr. 42
2,4,5-T, Some Contaminated, Most Test Okay, Says USDA (ns)	Nov. 32
2,4,5-T, Upon Checking Your Pulse and Ours (ed)	May 8

U

(Underground Sprinkler Systems), Beauty, Upkeep, Status Push Turf Irrigation (fa) by A. Brown	Mar. 26
Underground: What's Going On, Turf Irrigation and Fertilization (fa)	Oct. 18
USDA Bans DDT in Four Categories (ns)	Jan. 21
Upon Checking Your Pulse and Ours (ed)	May 8

WHAT'S SO SPECIAL ABOUT CYCLONE SPREADER/SEEDERS?

**SPEED/ACCURACY
FREEDOM FROM STRIPES/VERSATILE
DEPENDABLE/EASY TO USE**

There's a Cyclone for almost every spreading and seeding job . . . more than 20 different models! If you have a special spreading or seeding problem, let us know about it. Chances are we already have the answer for you. Cyclone Spreader/Seeders save time—save work—save materials. They broadcast at precise, recommended rates—up to 5 times faster than ordinary spreaders. Cyclone Equipment is widely used for seeding, fertilizing, applying granular insecticides, herbicides, ice melters, soil conditioners, dust control materials, etc. Comprehensive spreading charts are included with all models. It's results that count! And for best results—use Cyclone Equipment. See your Cyclone Dealer or Distributor today, or ask us for full information on the dependable, versatile Cyclone line of Broadcast Spreading Equipment. Manufacturers of Broadcast Spreading Equipment since 1868.

THE CYCLONE SEEDER CO., INC.

Dept. 101-12, Urbana, Indiana 46990

Cyclone



HAND SEED SOWER



LAWN SPREADER



PULL-TYPE LAWN SPREADER



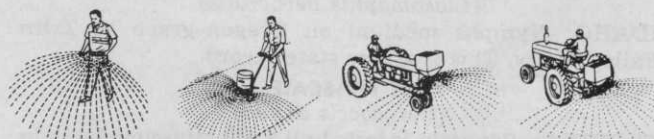
MODEL 99



ELECTRIC MODEL M-3



PTO MODEL S-3



Urban, Industrial Weed Control, How Allied Biological Control Approaches Problems (fa)	Sept. 16
Utilities' Rights-of-Way, Asplundh Grew Along Electric and Telephone (fa)	Aug. 8
Utility, Weed Control Cost in Long-Season Areas (fa) by Turney J Hernandez (fa)	Feb. 12

V

Vermeer-Big Tree Chippers (fa)	Oct. 8
Village Blacksmith Expands (ns)	Oct. 36
Virginia Turfgrass Council Re-Organizes (cr)	Apr. 33

W

Washington Seed Quality Law Likely Sod Industry Standard (fa)	Sept. 28
Water Pollution and Student Protest (ed)	June 4
Weather Guard Chest Bought By Knaack Mfg. Co. (ns)	Oct. 37
Weed Control, Factors Affecting (cr)	Dec. 20
(Weed Control), Here's An Estimate of Weed Control Cost In Long-Season Areas (fa) by Turney J. Hernandez	Feb. 10
Weed Control, Irrigation Ditch (fa)	Oct. 16
Weed Control, Hydrionic Method (fa)	Oct. 14
Weed Control Research: A Siberian Fish, A Latin Beetle (ns)	Feb. 33
Weed Control, Urban, Industrial, How Allied Weed Control, What's Best in Northwest Reported at Weed Meeting (cr)	Dec. 65
Biological Control Approaches Problem (fa) Weed Machine, Bill Colburn's (fa) by Bill Gentry	Sept. 16
(Weeds, Broadleaf), Try These Tips On Using Dicamba and Mecoprop (fa)	May 38
Weed Science Society of America 10th Annual Meeting (cr)	Feb. 27
Weeds, Aquatic & Bank, Research Techniques and Challenges Are Unique (fa) by F. L. Timmons	Mar. 44
Weeds Are Losing the Ditchbanks In Louisiana War (fa)	June 24
Weeds, Look at as Pest Haven, 23rd Annual Report of Southern Weed Science Society (cr)	Apr. 20
WEEDS TREES AND TURF, 2nd National Sod Survey (fa)	Mar. 40
WEEDS TREES AND TURF Surveys Costs of Golf Course Upkeep (fa)	Nov. 17
WTT Popularity Gaining (L)	Jan. 22
WTT, Used Some of Your Ideas (L)	Dec. 69
Weldon, Dr. Lyle (L)	Dec. 69
Weldon, Dr. Lyle, Aquatic Weed Researcher Drowns (o)	July 38
Weldon, Dr. Lyle W., In Memoriam (fa)	Mar. 40
Whitmarsh Gives Poa Heave-Hoa (fa) by Phil Lance	June 10
Wood Chips, Big Tree Chippers (fa)	Aug. 26
	Oct. 8

Z

(Zoysia), I'll Tell You How We Started A Nursery (fa) by William M. Latta	Jan. 34
---	---------

Brinkman, Grover "Land of the Tree Giants"	Jan. 28
Brown, A., "Beauty, Upkeep, Status, Push Turf Irrigation"	Mar. 26
Cortell, Jason M., "The Role of Herbicides"	June 12
Dickson, Edward G., "Large-Area Irrigation"	Mar. 22
Gentry, Bill, "Bill Colburn's Weed Machine"	May 38
Gentry, Bill, "Have Shady Grove — Will Travel"	July 16
Gray, Thorne, "2,4,5-T Issue Phoney, Say Weed Experts"	Apr. 42
Gray, Thorne B., "Where There's Smoke, There's Fire of Protest"	Mar. 32
Gustin, Jr., Ray, "Maintenance: Stepchild of Landscaping"	Aug. 16
Hambric, Robert N., "Beetle Eats Aquatic Weed"	Sept. 14
Hernandez, Turney J., "Here's An Estimate of Weed Control Costs In Long-Season Areas"	Feb. 10
Ingalsbe, Gene, Asplundh Tree Expert Co.	Aug. 8
Ingalsbe, Gene, "Tell 'Em How To Grow YOUR Sod"	Feb. 26
Ingalsbe, Gene, "TurboTrim, Right-of-Way Maintenance With Chemicals"	July 6
Johns, Hyland R., "Seven Important Steps To Prescription Brush Control"	May 22
Juchartz, Donald D., "How Do Your Production Costs Measure Up?"	Oct. 22
Lance, Phil, "Firm Specializes In Tree Care Only, Norman V. Holmes, Inc."	May 18
Lance, Phil, "Whitmarsh Give Poa Heave-Hoa"	Aug. 26
Latta, William M., I'll Tell You How We Started a Zoysia Nursery"	Jan. 34
Lederer, Robert F.	
Markstein, David L., "Prepare for More Inflation"	July 12
Matthews, W. E., "The Tree Scene In Britain"	Aug. 20
Meggitt, W. F., "Chemical Control For Creeping Speedwell" with A. J. Turgeon	July 22
Mills, Jim, "Pesticide Outlook, Will It Be a Year of Throwing Out the Baby With the Wash?"	Dec. 10
Saunders, J. L., "Cooley Spruce Gall Aphid; How to Control"	Jan. 27
Schein, Norman J., "Total Lake Management"	June 18
Schery, Dr. Robert W., "Kentucky Bluegrass: Turfgrass Par Excellence"	Jan. 6
Shopen, J. L., "Accidents and Fires, How Much Profit Are You Losing?"	June 30
Speer, Lou, "Greenbelt Communities"	Nov. 14
Speer, Lou, "It's Still Alive"	Nov. 14
Sorgatz, Ed, "Geigy Uses 'Maxi-Plot' To Introduce Herbicides"	Feb. 17
Taylor, Ross, "Black Mountain Tests Fertilizers and Bentgrasses"	Apr. 24
Timmons, F. L., "Aquatic & Bank Weeds, Research Techniques and Challenges Are Unique"	June 24
Turgeon, A. J., "Chemical Control For Creeping Speedwell" with W. F. Meggitt	July 22
Wright, Robert G., "How He Tries to Make a Profit"	Feb. 16
Woehrl, Ted, "Irrigation by Computer?"	Mar. 18

insect report



TURF INSECTS

FALL ARMYWORM

(*Spodoptera frugiperda*)

ALABAMA: Larval infestations reoccurring in scattered lawns and sports fields in Chilton and Henry counties.

A MARCH FLY

(*Dilophus orbatus*)

CALIFORNIA: Counts of 250 per square yard on dichondra lawns at Rialto, San Bernardino County; at Berkeley, Alameda County; and at Richmond; Contra Costa County. Many homeowners concerned about mass populations of flies entering premises. Unusually abundant this fall.

INSECTS OF ORNAMENTALS

A PYRALID MOTH

(*Hyblaea pueria*)

FLORIDA: Larvae infested all 300 plants of black calabash (*Crescentia* spp.) in nursery at Lauderdale Lakes, Broward County. This is a new host record.

AN APHID

(*Liosomaphis berberidis*)

IDAHO: Nymphs medium on Oregon-grape at Twin Falls County. This is a new state record.

A PIT SCALE

(*Cerococcis dekleyi*)

FLORIDA: Severely infested all 3,090 hibiscus plants in nursery at Miami, Dade County.

TREE INSECTS

DOUGLAS-FIR TUSsock MOTH

(*Hemerocampa pseudotsugata*)

CALIFORNIA: Extensive survey in El Dorado National Forest Oct. 5-9. Infestation light in about 30,000 acres of fir on Baltic Ridge, Plummer Ridge, Alder Ridge, and Iron Mountain, between U.S. Highway 50 and State Highway 88; mostly on Forest Service Lands. Heavy in spots on white fir on Plummer and Baltic Ridges, and Iron Mountain. No virus disease in pupae.

SMALLER EUROPEAN ELM BARK BEETLE

(*Scolytus multistriatus*)

MISSISSIPPI: Moderate on Chinese, American, and winged elms in Hinds County.

LYONETID MOTHS

(*Bucculatrix* spp.)

MISSISSIPPI: Moderate to heavy on Nuttall oak in Sharkey County. MASSACHUSETTS: *B. ainsliella* (oak skeletonizer) larvae and pupae still causing many complaints statewide.

BLACK TURPENTINE BEETLE

(*Dendroctonus terebrans*)

MISSISSIPPI: Much damage in areas affected by Hurricane Camille, especially in coastal suburbs where heavy equipment removed debris. LOUISIANA: Heavy in large pole-sized loblolly pine in Catahoula District. SOUTH CAROLINA: Heavy infestation on 96,000-acre Sandhills State Forest.

VARIABLE OAK LEAF CATERPILLAR

(*Heterocampa Manteo*)

ARKANSAS: Larvae, mainly this species, secondarily *H. guttivitta* (saddled prominent), and other species, defoliated 2.5 million acres of hardwood. About 1.5 million acres had moderate to heavy defoliation. Oaks most heavily defoliated.

industry people on the move



STEVEN D. ROGERS succeeds **CLARKE H. STAPLES** as turf equipment specialist for Jacobsen Manufacturing Co. Staples was promoted recently to assistant general manager of Jacobsen's Division at Olathe, Kan.

* * *

TUCO, Division of The Upjohn Co., has reorganized its agricultural chemical marketing. William C. Haskett has been named marketing manager; Rocco Lipari, product manager; O. B. (Buzz) Lewis, national sales manager.

In a separate announcement, James H. Smith has been named TUCO agricultural chemicals salesman for metropolitan New York, Maine, New Hampshire, Connecticut, Vermont, Rhode Island and Massachusetts.

* * *

VELSICOL CHEMICAL CORPORATION has announced three management changes. Thomas C. Zinninger is the new general manager of agricultural activities. He is responsible for the commercial development and marketing of chemicals in the domestic agricultural, pest control, and home, lawn and garden markets. Neil R. Mitchell has been promoted to secretary and general counsel. Alex Saucedo moves up to manager of pesticide products for the northeast region.

* * *

ENVIRONMENTAL INDUSTRIES, INC., Encino, Calif., has announced three new management positions. Robert Scofield is general manager of the EII division, Environmental Care, Inc. Robert L. Curtis is president of Valley Crest Landscape, Inc., a wholly owned subsidiary. Paul E. Soll heads up a new corporate development department.

* * *

RICHARD P. FRENCER is the new technical sales representative for agricultural products and services in Union Carbide Corporation's western region.

* * *

R. E. "ED" BROWN of Goochland Nurseries, Pembroke, Fla. is the elected president of the Horticultural Research Institute.

* * *

INTERNATIONAL CESSNA 170 ASSOCIATION has elected this leadership for the coming year: President—William Wehner of Davenport, Ia.; secretary-treasurer—Berwyn Henderson, Canton, Ill.; vice-president — John Collins, Richardson, Tex.; historian—Ryan B. Seals, Richardson, Tex.; directors — John Benham, Russ Noble, Tommy Pratt, and Cleo Bickford.

* * *

ROHM AND HAAS COMPANY, Philadelphia, announces changes in its agricultural and sanitary chemicals department. J. E. Thompson becomes manager of the Texas sales district, including Louisiana, Oklahoma and New Mexico. R. L. Cheves moves from assistant to product manager of agricultural pesticides. J. S. Harmon becomes assistant product manager for agricultural fungicides, miticides, and ammonium sulfate. E. H. Boeckel becomes assistant product manager for agricultural herbicides, insecticides and emulsifiers.

* * *

WILLIAM F. (BILL) SHEAR has been appointed manager of the Los Angeles zone for the Allis-Chalmers Industries Tractor and Equipment Division.



WEED-FREE[®]

HERBICIDES FROM



- SOIL STERILIZATION
- SELECTIVE WEEDING
- CHEMICAL TRIMMING

Chapman is a basic formulator of a wide range of quality herbicides for weed, grass and brush control under the famous Weed-Free tradename.

We have modern equipment for production of pellets, granules and liquids in any volume. Our Memphis, Tennessee, manufacturing location is ideal for fast, economical shipment to any part of the country.

Phone or write for complete information, including distributorship areas available and private label packaging.

CHAPMAN CHEMICAL COMPANY
416 E. Brooks Rd. P. O. Box 9158
Memphis, Tennessee 38109
Telephone (901) 398-6261

Norman Sachnik, president of Mano Co., Houston, demonstrated his Foamicide equipment. Foam is produced by using Foamwet surfactant and a specially designed foam generator. The generator consists of a nozzle assembly that includes air intake holes. Spray velocity pulls in air through the holes and mixes it with the solution to create the foam. Advantages, Sachnik said, are that less water is required; improved coverage is obtained; longer contact on the leaf surface is achieved and consequently giving better herbicide efficiency; and drift hazard is reduced.



Texas Weed Conference

FACTORS AFFECTING WEED CONTROL

MAN IS ACTING under a "God-given right" to seek better ways to do things, yet people in the pesticide field are often apologetic and assume a defensive attitude, Dr. Roland Laning of Dow Chemical Company told the fifth Texas Industrial Weed Control Conference.

A part of man's right to improve his position in the world, Dr. Laning asserted, is environmental management, a duty and responsibility "that is a good thing . . . and we should be proud of it."

Many of the current critics have never experienced the hardships of earlier generations, continued Laning, manager of Dow's herbicide field research and development. They do not catch the significance, for example, of the grower who advertises that his apples are "safe to eat in the dark."

In industrial weed control, some uppermost objectives are safety and convenience, he said. Yet the dilemma can be characterized by people who don't want electric outages and also don't want the kind of "scar" across the land necessary for transmission lines.

Dr. Laning expressed solid sup-

port for continuing research to monitor the effects of pesticides, but "I would argue strongly with the interpretations" of some recent findings.

To be consistent with the public reaction and subsequent governmental restrictions on 2,4,5-T, he said, there is basis for action against Vitamin A. Given in a dosage 100 times greater than the prescribed rate, Vitamin A has been known to cause mammals to give birth to deformed offspring, he said.

One pound of salt used improperly can kill five men, he added. One pound of salt on an acre of land won't harm any animal life. Neither will 2,4,5-T, he said.

Laning's address set the scene for the first full day of the increasingly popular and somewhat unique three-day event on the campus of Texas A & M University. A record 150 professionals attended, coming not just from Texas but from the entire Southwest. The conference is heavy on discussion of practical problems and perhaps is the only one of its kind devoted solely to industrial weed control. Programming is conceived by a steering committee of

Rotary mowers made by E. L. Caldwell & Sons at Corpus Christi and Servis Equipment at Dallas proved their worth in tall grass, weeds and dryland willow. Both had three rotary sections and cut a 15-ft. swath.

