

\$10. College Sales Department, The MacMillan Co., 60 Fifth Ave., New York City, N.Y. 10011.

WEED SEEDS AND SEEDLINGS, A218, Free. Agri. Information Dept., Univ. of N. Dakota, Fargo, N. Dak. 58102.

WEEDS OF COLORADO, 514S, \$1.00. Bulletin Room, Colorado State University, Ft. Collins, Colorado 80521.

WEEDS OF THE NORTH CENTRAL STATES, C718, \$1.00. Publications Office, College of Agriculture, Urbana, Illinois 61801.

WEEDS OF THE NORTH CENTRAL STATES, NC 36, \$1.00. Agricultural Information, Agricultural Adm. Bldg., Purdue University, Lafayette, Indiana 47907.

WEEDS OF THE NORTH CENTRAL STATES, NCR 36, \$1.00. Public Distribution Center, Printing and Publications Bldg., Iowa State Univ., Ames, Iowa 50010.

WEEDS OF THE NORTH CENTRAL STATES, NCR-35, 75¢ per copy. Distribution Center, Umberger Hall, Kansas State Univ., Manhattan, Kansas 66502.

WEEDS OF NORTH CENTRAL STATES, NCR36, 75¢. MSU Bulletin Office, P.O. Box 231, East Lansing, Michigan 48823.

WEEDS OF THE NORTH CENTRAL STATES, RP-36, \$1.25. Extension Office of Information, The Ohio State University, 2120 Fyffe Rd., Columbus, Ohio 43210.

WEED SPRAYER CALIBRATION, AE73, Free. Agri. Information Service, Univ. of N. Dak., Fargo, North Dakota 58102.

WHAT ABOUT RIGHT-OF-WAY SPRAYING? No. 2010, Free. Amchem Products Inc., Ambler, Pa. 19002.

WOODY PLANTS FOR LANDSCAPE PLANTING IN MAINE, EB506, Free. Mail Service, Dept. of Public Information and Central Service, PIGS Bldg., Univ. of Maine, Orono, Maine 04473.

YOUR LAWN AND ITS CARE, E 362, Free. Bulletin Clerk, College of Agriculture and Environmental Science, Rutgers Univ., New Brunswick, N. J. 08903.

Commercial Product And Equipment Data

AQUATIC WEED HARVESTERS. Data sheets. Free. Aquamarine Corp., 1116 Adams St., Waukesha, Wisconsin 53186.

ASPLUNDH WEED AND GRASS KILLER. Data Sheet. Free. Asplundh Tree Expert Co., 505 York Rd., Jenkintown, Pa. 19046.

ASSAULT soil sterilant. Free specification sheet. West Chemical Products, Inc., 42-16 West St., Long Island City, New York 11101.

BALAN pre-emergence crabgrass killer. Data sheet, Free. Elanco Products Co., 740 S. Alabama St., P.O. Box 1968, Indianapolis, Indiana 46205.

BARCO ROTARY JOINTS, Catalog No. 911, Free.

Aeroquip Corporation, Jackson, Michigan.

CHEMICAL BROADCASTERS data sheet. Free. Garber Seeders, Inc., Dept. WT, St. Paris, Ohio 43072.

CHIP-CAL Poa annua Control. Product data. Free. Rhodia, Inc., Chipman Division, Dept. GS, Box 2009, New Brunswick, N.J. 08903.

CHIPCO TURF HERBICIDES. MCPP Product folder. Free. Rhodia, Inc., Chipman Division, Dept. GS, Box 2009, New Brunswick, N.J. 08903.

CHIPCO TURF PRODUCTS. Data sheet on full product line. Rhodia, Inc., Chipman Div., 120 Jersey Ave., New Brunswick, N.J. 08903.

CRABGRAX AMA and DSMA data sheet. Free. C. B. Dolge Co., Westport, Conn. 06880.

CUTRINE algicide folder, Free. Applied Biochemists, Inc., Box 91900, Milwaukee, Wisconsin 53202.

DACAMINE weed killer data sheet. AG-105B. Diamond Shamrock Co., 300 Union Commerce Building, Cleveland, Ohio 44115.

DACONATE herbicide data sheet. AG-193A. Free. Diamond Shamrock Co., 300 Union Commerce Building, Cleveland, Ohio 44115.

DACONIL 2787 fungicide data sheet. AG-108A, Free. Diamond Shamrock Co., 300 Union Commerce Bldg., Cleveland, Ohio 44115.

DACTHAL G-5 Herbicide data sheet. AG-110A, Free. Diamond Shamrock Chemical Co., 300 Union Commerce Building, Cleveland, Ohio 44115.

DACTHAL W-75 Herbicide data sheet. AG-106B, Free. Diamond Shamrock Chemical Co., 300 Union Commerce Building, Cleveland, Ohio 44115.

DOLGE SS WEED KILLER data sheet, Free. C. B. Dolge Co., Westport, Conn. 06880.

DuIN Soil Sterilant. Literature free. DuBois Chemicals Div., W. R. Grace & Co., Agri. Chem. Group, 7 Hanover Sq., New York, N.Y. 10005.

DUSTER, HDC Hand Duster, 7 lbs. cap., shoulder harness, front carry. Data sheet, Free. Van Der Molen Corp., 378 Mountain Ave., North Caldwell, N.J. 07006.

DYDID pre-emergence herbicide to control weeds and grasses in ornamentals, dichondra, or ice plant ground covers. Data sheet, Free. Elanco Products Co., 740 S. Alabama St., P.O. Box 1968, Indianapolis, Indiana. 46205.

EPTAM weed control. No. A-10286, Free. Stauffer Chemical Co., Agricultural Chemicals Div., 299 Park Ave., New York, N.Y. 10017.

EWI 2,4-D SELECTIVE WEED KILLER data sheet, Free. C. B. Dolge Co., Westport, Conn. 06880.


FENAVAR, the Prescription Soil Sterilant, No. 2866, Free. Amchem Products Co., Ambler, Pa. 19002.

HERBAN 21-A and 21-P product folders, Free. Hercules, Inc., Agricultural Chemicals, Wilmington, Delaware 19899.

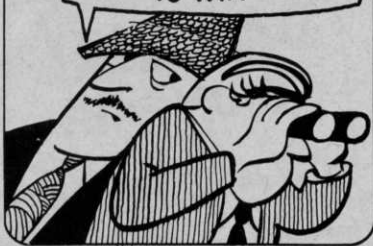


THAT'S FOR DIAMOND SURE!

Unfair? It's deadly! Dacthal® herbicide knocks out crabgrass before it gets started. Spray Dacthal W-75 or spread Dacthal granules before crabgrass comes up. Your worries are over. Dacthal has been widely used for many years on leading golf courses and other fine turf areas. It won't leach or wash out, even with frequent watering. See your local turf chemicals dealer or write to Agricultural Chemicals Division, 300 Union Commerce Bldg. Cleveland, Ohio 44115.

 **Diamond Shamrock
Chemical Company**

BET DACONIL 2787 TO WIN



WHICH RACE?



THE RACE AGAINST FUNGI



THAT'S FOR DIAMOND SURE!



Daconil 2787® fungicide helps you build a strong turf program. It checks leaf spot, dollar spot, brown patch and many other fungus diseases without harming your grass.

Daconil 2787 fungicide has been field tested world wide. It has shown high weather resistance. And moves to protect new growth between sprays. Always read the label before using.

See your dealer for more information. Or, write Agricultural Chemicals Division, Diamond Shamrock Chemical Company, 300 Union Commerce Building, Cleveland, Ohio 44115.



ers for mounting on tractor 3-point suspension. Free. The Broyhill Company, North Market Square, Dakota City, Neb. 68731.

SPRAY PUMP CATALOG. Free. Hypro, Inc., Div. Lear Siegler, Inc., 347 Fifth Ave. N.W., New Brighton, St. Paul, Minn. 55112.

SOIL PROCESSING EQUIPMENT catalog. 24 pages. Free. Lindig Mfg. Corp., 1875 West County Road C, St. Paul, Minn. 55113.

SOIL PROCESSING EQUIPMENT mini-catalog. 4 pages. Free. Lindig Mfg. Corp., 1875 West County Road C, St. Paul, Minn. 55113.

TANDEX SOIL STERILANT product folder. Free. Niagara Chemical Div., FMC Corporation, 100 Niagara St., Middleport, N. Y. 14105.

TEEJET AGRICULTURAL SPRAY NOZZLES and accessories. Catalog 35. Free. Spraying Systems Co., 3201 Randolph St., Bellwood, Ill. 60104.

TEEJET SPRAY NOZZLES AND ACCESSORIES. Bulletin 151. Free. Spraying Systems Co. 3201 Randolph St., Bellwood, Ill. 60104.

TOTE HERBICIDE data sheet. Free C. B. Dolge Co., Westport, Conn 06880.

TREFLAN pre-emergence herbicide to control weeds and grasses in nursery stock or established ornamental shrubbery and flower beds. Data sheet. Free. Elanco Products Co., 740 S. Alabama St., P. O. Box 1968, Indianapolis, Ind. 46205.

TREX-SAN, a broad spectrum post emergent herbicide for broadleaf weed control. Data sheet. Free. Mallinckrodt Chemical Works, Second and Mallinckrodt Sts., St. Louis, Mo. 63160.

TRIGGER HANDLE GUNJET spray guns. Bulletin 140. Free. Spraying Systems Co. 3201 Randolph St., Bellwood, Ill. 60104.

TRIMEC HERBICIDE. Data sheet. Free. Gordon Corporation, 300 South Third St., Kansas City, Kan. 66118.

TRIONIC, Data Sheet, Free. Colloidal Products Corp. P. O. Box 621, Petaluma, Calif. 94952.

TURF CHEMICALS CATALOG. Free. Vesicol Chemical Corporation, 341 E. Ohio St., Chicago, Ill. 60611.

TURF PRODUCTS CATALOG, Mallinckrodt Chemical Works. 38-pages. Free. Mallinckrodt Chemical Works, Second and Mallinckrodt Sts., St. Louis, Mo. 63160.

VAPAM soil fumigant. No. A-1028. Free Stauffer Chemical Co., Agricultural Chemicals Div., 299 Park Ave., New York, N. Y. 10017.

VAPAM soil fumigant. No. A-10309. Free. Stauffer Chemical Co., Agricultural Chemicals Div., 299 Park Ave., New York, N. Y. 10017.

VISKO-RHAP Invert Spraying, Specification Sheet and Catalog, Free Rhodia Inc., Chipman Div., 120 Jersey Avenue, New Brunswick, New Jersey 08903.

WEED AND BRUSH CUTTERS. Specification sheets, Free. Rowco Mfg. Co., Inc., Dept. WT-

370, 48 Emerald St., Keene, N. H. 03431.

WEED-FREE HERBICIDE, Data sheet, Free. Chapman Chemical Co., 416 E. Brooks Rd., P.O. Box 9158, Memphis, Tenn.

X/77, Spreader-Activator for Agricultural Sprays, Data Sheet, Free. Colloidal Products, P.O. Box 621, Petaluma, Calif. 94952.

Film Library

Junior High (jh); Senior High (sh); College (c); Adult (a).

AQUATIC WEED CONTROL. jh, sh, c, a. 20 min. Free loan. Chevron Chemical Co., 200 Bush St., San Francisco, Calif. 94120.

CHEMICAL MOWING. Adult. 15-20 min. Free-loan. Uniroyal Chemical, Elm St., Naugatuck, Conn. 06770.

FACTS ABOUT PESTICIDES. sh-c-a. 13 min. Free-loan. Manufacturing Chemists Association, 1825 Connecticut Ave. N.W., Washington, D.C. 20009.

FILM GUIDE ON PESTICIDES, 10¢. National Agricultural Chemicals Association, The Madison Building, 1155 Fifteenth St. N.W., Washington, D.C. 20005.

FMC CHEMICALS. jh-sh-c-a. 25 min. Free-loan. FMC Corporation, Advertising and Public Relations Dept., 633 Third Ave., New York, N.Y. 10017.

HANDLE WITH CARE. For industry showing. 18 min. Free-loan. National Agricultural Chemicals Association, The Madison Building, 1155 Fifteenth St. N.W., Washington, D.C. 20005.

A LIVING CARPET, adult. 20 min. Features major problems and solutions in growing grass on virtually all turf areas. Free-loan. Ryan Equipment Co., 2055 White Bear Ave., St. Paul, Minn. 55109.

PATTERNS OF RESEARCH. jh-sh-c-a. 20 min. Free-loan. Union Carbide Corp, Chemicals and Plastics, 270 Park Ave., New York, N.Y. 10017.

PESTICIDES—FUNDAMENTALS of Proper Application. sh-c-a. 16 min. Free-loan. Sterling Movies, 43 West 61st., New York, N.Y. 10023.

PHYTAR 560. sh-c-a. 15 min. Free-loan. The Ansul Co., 1 Staunton St., Marinette, Wisconsin 54143.

QUACK GRASS—The Perennial Guest. sh-c-a. 16 min. Free-loan. The Dow Chemical Co. Film Librarian, 2030 Abbott Road Center, Midland, Michigan 48640.

ROOTS AND ALL. sh-c. 15 min. Free-loan. Modern Talking Picture Service, 1212 Ave. of the Americas, New York, N.Y. 10036.

SHOWDOWN AT NIAGARA. jh-sh-c-a. 13 min. Research and pesticide development. Niagara Chemical Division, FMC Corporation, 633 Third Ave., New York, N.Y. 10017.

STORY OF A LAKE. jh-sh-c-a. 12 min. Aquatic Weed control. Free-loan. Chevron Chemical Co., 200 Bush St., San Francisco, Calif. 94120.

PROTURF FERTILIZER Plus Dicot Weed Control (30-5-3, Dicambe & 2,4-D) data sheet. Free. O. M. Scott & Sons, Marysville, Ohio 43040.

PROTURF FERTILIZER Plus (30-5-3, Dicambe & 2,4-D) Data Sheet, Free. O. M. Scott & Sons, Marysville, Ohio 43040.

PROTURF FERTILIZER with Weedgrass Preventer (20-5-5, + Bensulide) data sheet. Free. O.M. Scott & Sons, Marysville, Ohio 43040.

PROTURF SUPER BONUS FOR DICHONDRA (32-0-0 + Neburon, Diphenamid & Carbaryl) data sheet. Free. O. M. Scott & Sons, Marysville, Ohio 43040.

PROTURF WEEDGRASS PREVENTER (Bensulide) data sheet. Free. O. M. Scott & Sons, Marysville, Ohio 43040.

PUMP CATALOG. Dundee pumps. Free. Practical Products Corp., 4617 S. Elwood, Tulsa, Okla. 74107.

ROTATING HANDLE GUNJET spray guns Bulletin 143A. Free. Spraying Systems Co. 3201 Randolph St., Bellwood, Ill. 60104.

ROTATING HANDLE GUNJET spray guns No. 2 series. Bulletin 174. Free. Spraying Systems Co. 3201 Randolph St., Bellwood, Ill. 60104.

ROTOX AND ZYTOX soil fumigants. Specimen labels. Ferguson Fumigants, Inc., 93 Ford Lane, Hazlewood, Mo. 63042.

SPRAYER CATALOG. Free. Century Eng. Corp., 221 Fourth Ave. S.E., Cedar Rapids, Iowa 52401.

SPRAYER CATALOG. Free. Lakes Supply Co., nc., P. O. Box 101, Dundee, Ill. 60118.

SPRAYER CATALOG. Free. Jacobsen Mfg. Co., 1721 Packard Ave., Racine, Wis. 53403.

SPRAYER CATALOG. Free. Universal Metal Products, Div. Leigh Products, Inc., Saranac, Mich. 48881.

SPRAYERS CATALOG. Bulletin No. HP-469. Free. Hart-Carter Pacific Corporation. 1788 Rogers Ave., San Jose, Calif. 95112.

SPRAYERS. Data sheets. Free. The F. E. Myers & Bro. Co., 400 orange St., Ashland, Ohio 44805.

SPRAYERS, Form 1800B, Broyhill 1950 series sprayers. 200, 150 and 100 all-purpose skid sprayers ideal for turf and all-terrain vehicles. Free. The Broyhill Co., North Market Square, Dakota City, Neb. 68731.

SPRAYERS, Form 10468 Broyhill 1660 series sprayers. 200 or 150 gal. compact trailer sprayer. High pressure, turf flotation tires for turf maintenance. Free. The Broyhill Company, North Market Square, Dakota City, Neb. 68731.

SPRAYERS, Form 10749. Broyhill 960 series sprayers. 400, 300, 230, 150 and 100 gal. high pressure piston and high volume centrifugal pump sprayers for turf, industrial and municipal use. Free. The Broyhill Co., North Market Square, Dakota City, Neb. 68731.

SPRAYERS, Form 10317 Broyhill 1205 series sprayers. 150 and 100 gal. high pressure spray-



VERMEER'S NEW LS-300 LOG SPLITTER

SPLITS 'EM UP FOR INSTANT FIREWOOD

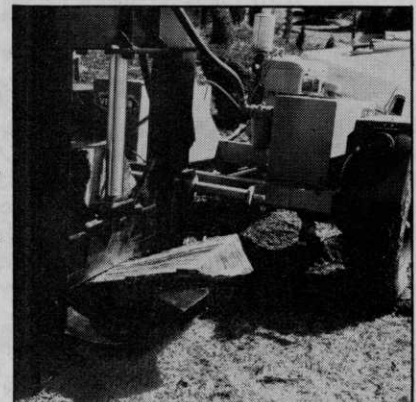
From logs to firewood in seconds . . . that's a real job. And, that's the job Vermeer's LS-300 Log Splitter does . . . faster, safer and more economically than ever before. This compact unit splits any log up to 29" in height. A single control lever activates the powerful overhead cylinder, hydraulically wedging a heavy-duty cutting blade through the log under 30,000 lbs. of splitting force. Blade returns automatically to the starting position for next cycle. You can have a truckload of firewood cut, stacked and loaded for delivery in less than an hour. Write for complete literature and information. Yes, we demonstrate!



Manufacturing Company

7203 W. Washington St.
Pella, Iowa 50219

An ideal unit for parks, campgrounds, forestries and tree farms; great for supplying firewood to homeowners, hotels, institutions, winter resorts, lodges, clubs, etc. It's a real moneymaker for tree service firms, nurseries, and rental operators. The LS-300 is a portable, self-contained unit, powered by an 18 hp Wisconsin engine and may be pulled at normal highway speeds behind any towing vehicle.



ers for mounting on tractor 3-point suspension. Free. The Broyhill Company, North Market Square, Dakota City, Neb. 68731.

SPRAY PUMP CATALOG. Free. Hypro, Inc., Div. Lear Siegler, Inc., 347 Fifth Ave. N.W., New Brighton, St. Paul, Minn. 55112.

SOIL PROCESSING EQUIPMENT catalog. 24 pages. Free. Lindig Mfg. Corp., 1875 West County Road C, St. Paul, Minn. 55113.

SOIL PROCESSING EQUIPMENT mini-catalog. 4 pages. Free. Lindig Mfg. Corp., 1875 West County Road C, St. Paul, Minn. 55113.

TANDEX SOIL STERILANT product folder. Free. Niagara Chemical Div., FMC Corporation, 100 Niagara St., Middleport, N. Y. 14105.

TEEJET AGRICULTURAL SPRAY NOZZLES and accessories. Catalog 35. Free. Spraying Systems Co., 3201 Randolph St., Bellwood, Ill. 60104.

TEEJET SPRAY NOZZLES AND ACCESSORIES. Bulletin 151. Free. Spraying Systems Co. 3201 Randolph St., Bellwood, Ill. 60104.

TOTE HERBICIDE data sheet. Free C. B. Dolge Co., Westport, Conn 06880.

TREFLAN pre-emergence herbicide to control weeds and grasses in nursery stock or established ornamental shrubbery and flower beds. Data sheet. Free. Elanco Products Co., 740 S. Alabama St., P. O. Box 1968, Indianapolis, Ind. 46205.

TREX-SAN, a broad spectrum post emergent herbicide for broadleaf weed control. Data sheet. Free. Mallinckrodt Chemical Works, Second and Mallinckrodt Sts., St. Louis, Mo. 63160.

TRIGGER HANDLE GUNJET spray guns. Bulletin 140. Free. Spraying Systems Co. 3201 Randolph St., Bellwood, Ill. 60104.

TRIMEC HERBICIDE. Data sheet. Free. Gordon Corporation, 300 South Third St., Kansas City, Kan. 66118.

TRIONIC, Data Sheet, Free. Colloidal Products Corp. P. O. Box 621, Petaluma, Calif. 94952.

TURF CHEMICALS CATALOG. Free. Vesicol Chemical Corporation, 341 E. Ohio St., Chicago, Ill. 60611.

TURF PRODUCTS CATALOG, Mallinckrodt Chemical Works. 38-pages. Free. Mallinckrodt Chemical Works, Second and Mallinckrodt Sts., St. Louis, Mo. 63160.

VAPAM soil fumigant. No. A-1028. Free Stauffer Chemical Co., Agricultural Chemicals Div., 299 Park Ave., New York, N. Y. 10017.

VAPAM soil fumigant. No. A-10309. Free. Stauffer Chemical Co., Agricultural Chemicals Div., 299 Park Ave., New York, N. Y. 10017.

VISKO-RHAP Invert Spraying, Specification Sheet and Catalog, Free Rhodia Inc., Chipman Div., 120 Jersey Avenue, New Brunswick, New Jersey 08903.

WEED AND BRUSH CUTTERS. Specification sheets, Free. Rowco Mfg. Co., Inc., Dept. WT-

370, 48 Emerald St., Keene, N. H. 03431.

WEED-FREE HERBICIDE, Data sheet, Free. Chapman Chemical Co., 416 E. Brooks Rd., P.O. Box 9158, Memphis, Tenn.

X/77, Spreader-Activator for Agricultural Sprays, Data Sheet, Free. Colloidal Products, P.O. Box 621, Petaluma, Calif. 94952.

Film Library

Junior High (jh); Senior High (sh); College (c); Adult (a).

AQUATIC WEED CONTROL. jh, sh, c, a. 20 min. Free loan. Chevron Chemical Co., 200 Bush St., San Francisco, Calif. 94120.

CHEMICAL MOWING. Adult. 15-20 min. Free-loan. Uniroyal Chemical, Elm St., Naugatuck, Conn. 06770.

FACTS ABOUT PESTICIDES. sh-c-a. 13 min. Free-loan. Manufacturing Chemists Association, 1825 Connecticut Ave. N.W., Washington, D.C. 20009.

FILM GUIDE ON PESTICIDES, 10¢. National Agricultural Chemicals Association, The Madison Building, 1155 Fifteenth St. N.W., Washington, D.C. 20005.

FMC CHEMICALS. jh-sh-c-a. 25 min. Free-loan. FMC Corporation, Advertising and Public Relations Dept., 633 Third Ave., New York, N.Y. 10017.

HANDLE WITH CARE. For industry showing. 18 min. Free-loan. National Agricultural Chemicals Association, The Madison Building, 1155 Fifteenth St. N.W., Washington, D.C. 20005.

A LIVING CARPET, adult. 20 min. Features major problems and solutions in growing grass on virtually all turf areas. Free-loan. Ryan Equipment Co., 2055 White Bear Ave., St. Paul, Minn. 55109.

PATTERNS OF RESEARCH. jh-sh-c-a. 20 min. Free-loan. Union Carbide Corp, Chemicals and Plastics, 270 Park Ave., New York, N.Y. 10017.

PESTICIDES—FUNDAMENTALS of Proper Application. sh-c-a. 16 min. Free-loan. Sterling Movies, 43 West 61st., New York, N.Y. 10023.

PHYTAR 560. sh-c-a. 15 min. Free-loan. The Ansul Co., 1 Staunton St., Marinette, Wisconsin 54143.

QUACK GRASS—The Perennial Guest. sh-c-a. 16 min. Free-loan. The Dow Chemical Co. Film Librarian, 2030 Abbott Road Center, Midland, Michigan 48640.

ROOTS AND ALL. sh-c. 15 min. Free-loan. Modern Talking Picture Service, 1212 Ave. of the Americas, New York, N.Y. 10036.

SHOWDOWN AT NIAGARA. jh-sh-c-a. 13 min. Research and pesticide development. Niagara Chemical Division, FMC Corporation, 633 Third Ave., New York, N.Y. 10017.

STORY OF A LAKE. jh-sh-c-a. 12 min. Aquatic Weed control. Free-loan. Chevron Chemical Co., 200 Bush St., San Francisco, Calif. 94120.

CLEAN UP



Cut trees and underbrush up to 9" diameter. Cuts weeds and grass with trimmer attachment. Safe, easy to operate. Three models plus chain saw conversion unit. Used world over by farmers, parks depts., highway depts., utilities, contractors, etc. Write for literature and name of nearest dealer.

ROWCO Mfg. Co., Inc.

Dept. W-31

48 Emerald St., Keene, N.H. 03431

Phone: (603) 352-5707

400
Weed
Control
References

Extra
Copies
Available
\$1.00 ea.

Write:

**WEEDS
TREES
and TURF**

industry people
on the move



PROFESSIONAL LANDSCAPE CONTRACTORS ASSOCIATION OF OHIO has selected these officers for 1971: President — N. H. Strnad, Strnad Landscape Contractors, Cleveland; vice-president — H. Calhoun, Calhoun's Landscaping, Inc., South Euclid; secretary — D. Sharpe, D. Sharpe Landscaping, Berea; treasurer — R. Swinerton, R. Swinerton Landscaping, Eastlake; sergeant-at-arms — K. Burge, K. Burge Landscaping, Mayfield Heights; historian — N. Thomas Strnad, Strnad Landscape Contractors, Cleveland.

Directors are C. Impullitti of Impullitti & Sons Landscaping, Inc.; Highland Heights; V. Apanius of Better Lawns & Gardens, Inc., Richmond Heights; D. DiSanto of DiSanto Landscape Co., Lyndhurst; H. Kuznik of H. Kuznik & Associates, Independence; M. Morton of M. Morton Landscape Gardener, Bedford Heights; and A. Semirale of A. Semirale Nursery & Landscaping, Solon.

* * *

PHILLIP B. CHURCH is Union Carbide's newest technical sales representative for agricultural products and services, headquartered at Salinas, Calif.

* * *

JOHN F. FERGUSON has been named vice-president of production for the agricultural chemicals division of CIBA-GEIGY Corporation.

* * *

DAVID W. PICKETT of Woodbine is the new president of the Maryland Turfgrass Association, Inc. Other officers are: Vice-president — Paul Pearson of Gaithersburg; treasurer — Emory P. Patton of Silver Spring; executive secretary — Dr. Andrew J. Powell of the University of Maryland; New directors are Stephen M. Marfak of Gaithersburg and John E. Patton of Silver Spring. Re-elected directors are Gene Roberts of Glenn Dale and Robert Hawkins of Germantown. Outgoing president Edward Mayen of Olney remains on the board. Carry-over directors are Parker Shirling of Centreville and M. H. Day, University of Maryland.

* * *

ROBERT C. TYO has been elected president and chief executive officer of Leigh Products, Inc.

* * *

ROBERT C. MOREAU and **G. QUENTIN BROWN** are new regional sales managers for Velsicol Chemical Corporation. Moreau heads the Midwest Region; Brown, the Southwest Region.



Wilco's foaming agent enables more efficient and effective application of herbicides. FoamSpray reduces the amount of water needed; increases the herbicide action on the plant surface; provides visual evidence of spray coverage. No special equipment needed other than foam generator attachment for spray nozzle.

Contact Howard Rampy,
R. L. WILSON CO., 6720 Weaver Rd.

Houston, Tex. 77028

(713) 631-4810

For More Details Circle (137) on Reply Card

Hypro line strainers protect pumps, valves, nozzles.

1" PORTS

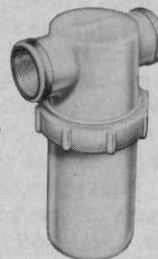


With non corrosive plastic housings and monel or stainless steel screens, Hypro line strainers outlast metal units in fertilizer applications. Use with fertilizer, insecticide or herbicide solutions.

Bowls and screens are easy to remove and replace.

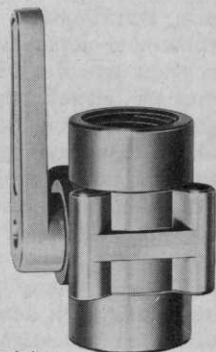
Choice of 40 mesh or 80 mesh screens.

3/4" PORTS



Plastic ball valves

Quick-turn shut-off valves of polyvinyl chloride can't rust, last for years. Other plastic and elastomer materials, including ABS, are also available. Double buna-N seals assure positive, leak-proof operation. Both straight shut-off and 3-way types are available.



Two body sizes — 1/2 and 3/4 inch. 1/2 inch valves are available with ports threaded 1/2" NPT male or female, 3/4" NPT male, with 5/8" hose barb or socket for 1/2" or 3/4" plastic pipe.

3/4" valves are available with ports threaded 3/4" or 1" NPT female, or with sockets for 3/4" or 1" plastic pipe.

Hypro

A division of Lear Siegler, Inc.



347 Fifth Avenue NW, St. Paul, Minnesota 55112

For More Details Circle (125) on Reply Card

55

Over Southern Weed Science Progress . . .

LEGISLATIVE NOOSE QUIVERS

Put 1,000 weed control specialists together for a week and the status of the industry in 1971 becomes quite clear. That's the crux of the recent 24th annual session of the Southern Weed Science Society at Memphis, Tenn. Delegates represented both commercial and educational areas of the industry. Both sales and research people expressed the common concern that the science of weed control is being damaged severely by restrictive legislation.

Few industry leaders in this session were willing to quarrel with the need for pesticide controls or legislation. Rather, their concern is that such controls will not be based on research plus the best available knowledge and experience in the field, but that the so-called "disaster logic" sweeping the nation today will force unwise moves on the part of both local and national governments.

D. D. Boatright, president of the Society and also president of the Horne-Boatright Chemical Company, Birmingham, Ala., placed the problem in perspective early on the program agenda when he outlined what he termed "the most discouraging aspect on the use of pesticides." This, Boatright stated, is the fact that an irresponsible charge or accusation may be made without cost, preparation, or even mental reflection. But it may take months and the time of many reputable scientists, along with untold thousands of dollars to investigate such alleged claims and determine the truth.

Boatright's belief is that every member of the industry will have to do more in careful testing and use of chemicals. "Although some products are being maligned," he said, "it is still the primary responsibility of basic producers to obtain complete knowledge about their chemicals, or their new products, even at the expense of increased costs and delayed marketings." Thus, he pointed out, we are forced to revise our approaches, to correct any past deficiencies, and assure ourselves that this must eventually



Among key persons making the Southern Weed Science Society Conference a success this year were, from the left, George Sistrunk of Valley Chemical Co., Greenville, Miss., master of ceremonies; Leonard Lett, southern manager of Colloidal Products Corp., Memphis, chairman of arrangements; and out-going president D. D. Boatright, head of Horne-Boatright Chemical Co., Birmingham.



Southern Weed Science Society's new officers are (from the left) Front row: P. W. Santelmann, secretary-treasurer, Oklahoma State University; T. J. Hernandez, president-elect, Du Pont; J. R. Orsinego, president, University of Florida; A. F. Wiese, vice-president, Texas A. & M. University; R. E. Talbert, secretary-treasurer-elect, University of Arkansas. Rear row: J. F. Miller, editor-elect, University of Georgia; W. M. Lewis, executive board, North Carolina State University; J. T. Gaspard, executive board, CIBA-Geigy; Jim Becton, executive board, CIBA-Geigy; and A. D. Worsham, editor, North Carolina State University.

be for the good of all concerned.

New findings always abound at this scientific oriented session. More than 140 papers were presented this year, all tied in some manner to the use of pesticides for control of unwanted vegetation. Homer A. Brady, researcher at the USDA Southern Forest Experiment Station, Pineville, La., related his latest studies with brush-control sprays. Because 2,4,5-T has been cited as an allegedly hazardous herbicide, Brady has stepped up efforts to test other formulations which will produce the same hardwood brush kill. He reported on 16 herbicidal sprays tested for this use.

Brady found that dicamba and picloram, alone or in mixture with 2,4,5-T were as effective as 2,4,5-T ester in killing hardwood brush. Of 15 formulations tested, at least one excelled 2,4,5-T on every species ex-

cept dogwood. Many of the formulations damaged loblolly pine and thus are not suitable for release on pine in forest management. Ammonium nitrate as a spray additive did not, he reported, increase herbicidal effectiveness.

By way of summary, Brady said that though none of the herbicidal formulations gave the 75 percent overall topkill needed for brush control, all were as effective as the 2,4,5-T control. Therefore, he said, it is possible to reduce the amount 2,4,5-T used or to substitute one of the other herbicides, though this will prove to be a more expensive operation.

Wildlife specialist William F. Gusey, Shell Oil Company, made some interesting revelations concerning the U.S. wildlife resource. It is necessary to investigate only a few areas where desert, wasteland,

or other lands have been converted into productive farm land, he said, to determine that the variety and abundance of wildlife have increased manyfold.

Gusey related that Lewis and Clark recorded extreme hardship in finding wildlife for food during their trek from western Montana through Idaho, and down the Columbia River. Today, Gusey stated, in that same area, which has been logged heavily and is farmed extensively, deer and elk abound and can be harvested virtually without restriction.

And in Pennsylvania, a 15-year study of the ecological aspects of chemical brush control on a utility right-of-way showed a similar pattern. Gusey reported that wildlife usage of the treated right-of-way in Pennsylvania was much higher than the adjacent wooded areas which were seriously overbrowsed and nearly bare of low cover and food. Rabbits, grouse, and wild turkeys, he said, benefitted from the stable, low cover induced by the herbicidal treatments. Major game species in the area, he said, likewise heavily used the area.

Gusey related like survey results for birds and fish in a number of areas across the nation. He said that, "Rather than constituting a basis for more regulations, we hope that a better understanding of wildlife habits will permit broader use of a greater variety of chemicals than is allowed now."

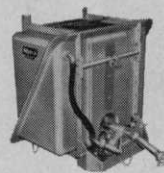
Coming more into prominence in the overall weed control picture is the special treatments required for aquatic weed control. Dennis L. Vedder, Applied Biochemists, Inc., Milwaukee, Wis., discussed the use of Cutrine, an algicide, in flowing water. A special application technique is necessary, he said, because routine surface application does not permit proper contact time. To achieve the desired control in flowing water, his company has developed a drip system for application. In every test, the drip system application of Cutrine proved effective against algae. Since Cutrine is compatible with many aquatic herbicides, it has been mixed with herbicides and used to control both weeds and algae simultaneously, via the drip system. Cutrine and diquat have been tested together in Wisconsin for the past two years, Vedder reported. Few common aquatic species can survive this combination, he said.



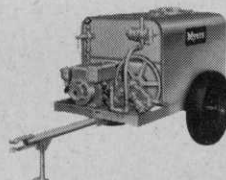
Myers helps you

Grow Quality Turf

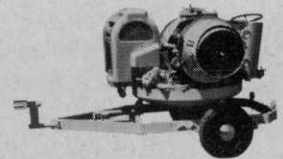
Versatile Myers spraying equipment controls weeds, insects and fungus to help you maintain high quality turf, shrubbery, grounds. There's a wide choice of Myers sprayers: Tractor mounted, skid and trailer models . . . PTO or engine powered . . . boom, gun and air blower application. Steel and GlasStran (fiberglass) tanks.



Tractor mounted GlasStran models, for gun or boom spraying.



High pressure units, in a wide variety of sizes and types.



Mist blower type sprayer, one man operation.

Whatever your requirements, there is a dependable Myers sprayer to fit the need. For additional information, write for sprayer specifications.

Myers ...the finest name in power sprayers

THE F. E. MYERS & BRO. CO. SUBSIDIARY OF
400 ORANGE STREET • ASHLAND, OHIO 44805 McNEIL CORPORATION



SPRAY PLANE, Piper Aircraft, Lock Haven, Pa.

The completely new PA-36 Pawnee II is an addition to Piper's line of agricultural models, the Pawnee 235 and 260. The prototype has been in flight test for more than a year and production tooling will make the plane available to customers in about 14 months. With a gross weight of 3,800 pounds under Part 23/FAA, the plane is larger by far than any other ag plane Piper has built. Pawnee II will be available in two versions—a 285 hp model with a 30 cu. ft. hopper and a 320 hp with a 37 cu. ft. hopper. Overall length is 27.7 ft. with a wing span of 39 ft. and wing area of 235 sq. ft. Fuel capacity will be 75 gal. in bladder-type cells with Firestone reticulated foam as an optional feature. Design features include a full cantilever wing with fiberglass tips and a leading edge that is easily detached for field inspection and maintenance. For more details, circle (701) on the reply card.



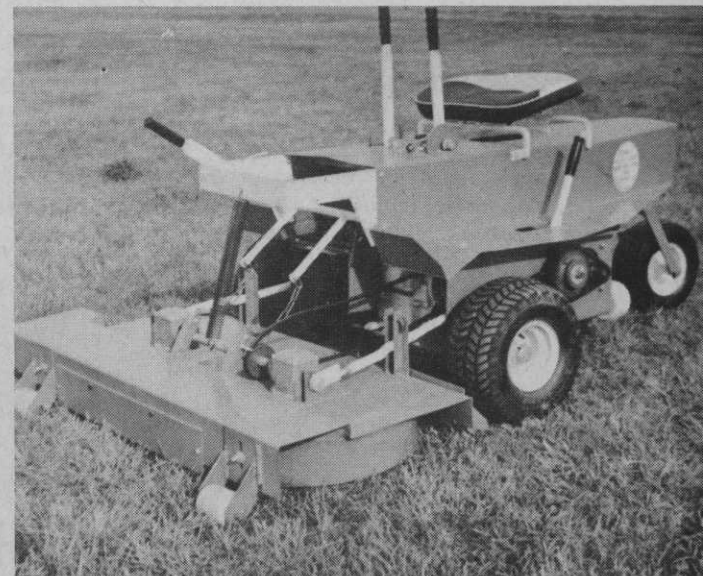
AQUATIC WEED HARVESTER, Clark Equipment Co., Cassopolis, Mich.

This self-propelled harvester cuts weeds and algae at depths to five feet and brings them aboard by conveyor belt. When a full load has been harvested, the unit moves to shore and deposits the weeds into a waiting truck through the use of an auger and an elevating conveyor. Two men handle the entire operation. The unit has a top speed of 7 mph and can harvest 2½ tons per hour. A sickle bar provides the cutting action. The unit is 35 ft. long, 8 ft. wide, and weighs 7,000 lbs. It can be transported over the highway by trailer. For more details, circle (702) on the reply card.



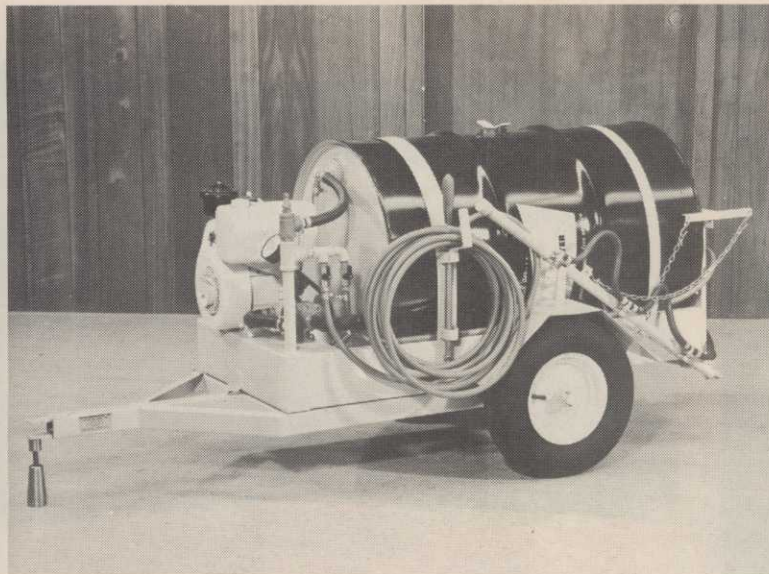
ROADSIDE SPRAYERS, Friend Manufacturing Corp., Gasport, N.Y.

Show above are three of six roadside sprayers delivered to the New York State Department of Transportation for weed and brush control along super-highway center malls and side shoulders. Twenty units are now operated by the New York transportation department. Featuring a 1,000-gal. tank and pump delivering up to 100 gpm at 200 psi, the spraying can be done either from spray guns with 200 feet of hose stored on hose reels or from a front-mounted boom. This boom is hydraulically operated and can be swung out to operate from either the right side or left side of the truck. For more details, circle (705) on the reply card.



SELF-PROPELLED MOWER, Deines Welding, Inc., Ransom, Kans.

Features of the Marty J Model 212 include hydrostatic drive transmission on both drive wheels, aircraft type controls with skid steering, 40-inch twin blade cut, floating mower deck, Turf Savor flotation tires, 12 hp Lauson gas engine with automotive type ignition and self-starting system and 10 amp alternator. Rugged all-steel construction, the Marty J travels from 0 to 6½ mph in either forward or reverse. For more details, circle (706) on the reply card.



MINI-POWER SPRAYER, Larson Machine, Inc., Princeville, Ill.

Larson's new Mini-Power spraying unit is the ideal answer to users who need mobility plus capacity. Skid-mounted, one-bolt removal, the unit is easy to load in the back of a station wagon or pick-up truck for on-site applications. Model UT-2356 features 55-gal. capacity drum, 3½ hp gas engine, Hypro pump, control gauge, 25 ft. of hose with adjustable hand gun. Unit is available with accessory equipment, including the UT-4 Utility Dump box, UT Spray Boom and controls and UT-7 Mini-Broadcaster Spreader. The sprayer is shown above mounted on the Model UT-2 utility trailer. For more information, circle (703) on the reply card.



AUTO-SPREADER TRAILER, Central Engineering Co., Milwaukee, Wis.

The Auto-Spreader-Trailer is a portable chemical and material spreader (complete with trailer) that holds one cubic yard of material. It has a completely self-contained 7 hp Briggs & Stratton engine. A system of hydraulic controls regulates both auger and spinner from either car or cab to provide positive control of amount and range of spread coverage. Instant on-off control enables spot spreading. For more details, circle (704) on the reply card.



HANDY SHAKER, Niagara Chemical Div., FMC Corp., Middleport, N.Y.

A convenient hand shaker for applying Tandex soil sterilant has been designed for localized areas. Spot treatments to control weeds, brambles, and woody plants can be made where mowers can't reach. Tandex is a urea-carbamate compound with broad spectrum control of weeds and grasses. For more details, circle (707) on the reply card.



PLASTIC SPRAYER, Universal Metal Products, Coopersville, Mich.

The "Featherweight" is lightweight, rust and corrosion proof sprayer made of high density durable polyethylene that resists most materials that can be sprayed. It has a 30" soft supple hose and a 12" angled solid brass wand. A "quick pressure" pump gives all the pressure needed for the 1¼-gal. tank capacity. For more details, circle (708) on the reply card.



BIG ANDY HOSE-END SPRAYER, The Leisure Group, Inc., Los Angeles, Calif.

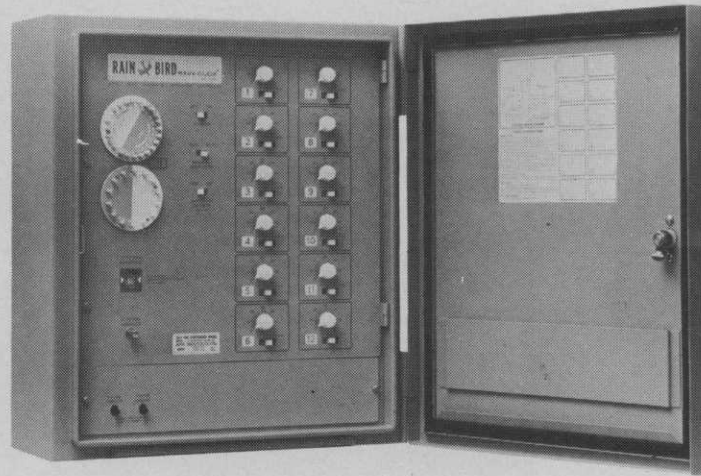
Brass grommets have been added to the 1971 line of Big Andy hose-end spray guns to provide more precise control than plastic. Units are available for ridding turf, shrubs or trees of pests, or for fertilizing. Model A-21 and its glass jar companion Model A-20 has a 20-gal. capacity. For more details, circle (709) on the reply card.





HOVERPALLET, Holland Bulb Co., Portland, Ore.

The Hoverpallet is an exciting adaptation of the Hover principle. Basically, it's a machine that rides on a cushion of air. Built in England, the pallet is designed to traverse almost any terrain and is at its best on mud, snow, ice and soft ground where conventional equipment is inadequate. It will pass over delicate crops and ground without causing damage. Maintenance is low; it has all fiberglass construction, one moving part, the special fan, driven by an air-cooled Briggs & Stratton motor. It can carry a payload of up to 850 lbs., varying a little depending upon the ground surface. For more details, circle (710) on the reply card.



AUTOMATIC SPRINKLER CONTROLLERS, Rain Bird Sprinkler Mfg., Glendora, Calif.

Rain Bird's improved automatic sprinkler controllers are said to be the perfect water tenders for large turf installations. These completely transistorized solid state units operate 12, 18 or 23 irrigation stations and have the capability of repeating daily watering cycles. A 14-day clock provides automatic programming versatility; units may also be operated manually. Exclusive moisture sensor connection allows use with the Rain Bird "Irrrometer." Available with either 26.5 or 30 volt output. Wall or pedestal mount. For more details, circle (711) on the reply card.



LOW-PROFILE TRACTOR UNIT, International Harvester Co., Chicago, Ill.

The low-profile International 2444 tractor is ideal for grounds maintenance and golf course landscaping operations. Pictured here equipped with 2050 loader and 72-inch wide material bucket and box scraper, the unit also comes with a three-point hitch and 84-inch wide International No. 70 industrial mower. For more details, circle (714) on the reply card.



LAWN VACUUM, Gilson Brothers Co., Plymouth, Wis.

Powered by Briggs & Stratton engines, the 1971 Gilson Lawn Vacuums are available in 3½ and 5 hp models. Leaves, grass, litter and other debris are packed into a large, reinforced canvas catch bag, supported by a rear swivel wheel with floating action for easier maneuverability. The vacuum rolls on semi-pneumatic tires and covers a 30-inch swath. Moving parts of the precision blower are completely housed for safety. For more details, circle (715) on the reply card.