

WEEDS

TREES

and **TURF**

FORMERLY WEEDS AND TURF

How to Sell,
and Lose,
Weed Control
Page 9

December 1965

1966 SUPPLIERS GUIDE ISSUE



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equipment for vegetation maintenance and control

ALSO
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1965 WTT ARTICLES

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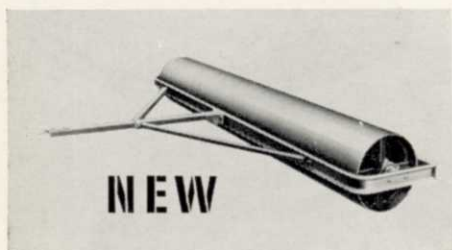


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WEEDS TREES and TURF

FORMERLY WEEDS AND TURF

December 1965
Volume 4, No. 12

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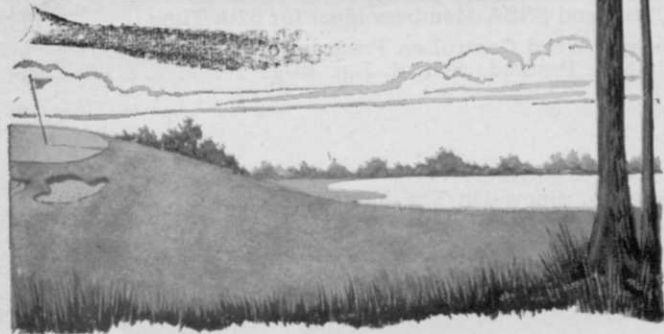
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Are They Necessary?

One of the most common complaints we hear is that there are just too many meetings, conventions, and conferences to go to. This objection is particularly strong among companies which offer a wide variety of services in the vegetation maintenance and control field. Alert management in such firms *must* keep up to date on all the latest developments in each of the areas they service.

The very complexity of weed control, tree maintenance, and turf work, including the wide geographical differences due to climate, temperature, location, etc., appears to leave no other choice than to hold special interest meetings for special interest groups.

The multibillion dollar nonfarm vegetation management field is big business, one requiring specialization in each phase of its operation. This is an age of specialists. Larger companies have technically trained experts for each segment of their work. Small companies divide such responsibilities among fewer men, but even here there is some specialization.

Actually, the score or more of meetings in various sections of the country on particular subjects is probably a blessing in disguise. If there were only two or three "national" meetings a year, almost the entire technical and/or managerial staff of a company would feel it had to attend, and there would be no one left to "mind the store."

We have attended national conventions and technical meetings in which there are concurrent sessions. Nothing is more frustrating than to want to be two places at once. The only answer is either to bring several people to cover all sessions, or pass up those you would really like to hear in order to sit in on one which you decide, rightly or wrongly, is most important.

The need for regional and sectional meetings in the vegetation management field is probably more acute than in any other. The limited number of national conventions we do have are aimed primarily at either management or technical staffers, and their programs are mostly arranged so each delegate can attend the sections he wants to.

This is a complicated business and we can take our hats off to leaders of those dedicated groups who stage special meetings to discuss specialized problems in depth which would otherwise be impossible at a once-a-year convention.

WEEDS TREES AND TURF is the national monthly magazine of urban/industrial vegetation maintenance, including turf management, weed and brush control, and tree care. Readers include "contract applicators," arborists, nurserymen, and supervisory personnel with highway departments, railways, utilities, golf courses, and similar areas where vegetation must be enhanced or controlled. While the editors welcome contributions by qualified freelance writers, unsolicited manuscripts, unaccompanied by stamped, self-addressed envelopes, cannot be returned.

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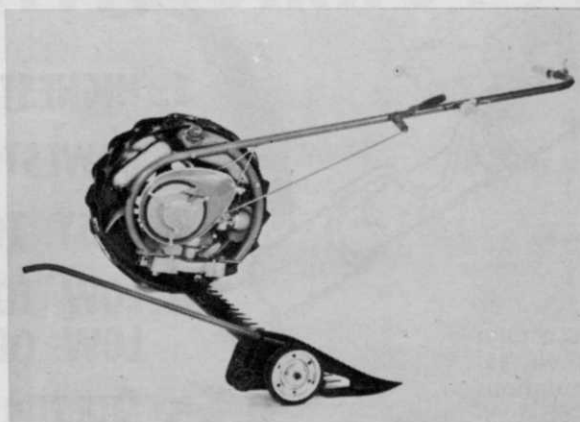
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How to Sell *and Lose* Weed Control Jobs



EVERYBODY has something to sell. Weed controllers have their services: how and where do they sell them? Here's the way L. A. Smith of Azo Chemical Co., Canton, Ohio, says he does it.

We send direct mail to the maintenance head of industrial plants we think need us. We talk directly about weeds, and no one can deny they are a problem, because nearly everyone has weeds. We ask for an invitation to survey the property and offer an estimate. This technique has proved successful.

Any company which owns property can be sold weed control service. As a sampling, we have on our books, such industry categories as: rubber company, steel company, drive-in movie, lumber company, builders' supply, oil company, power company, machine shop, pottery, house trailer sale lot, wastepaper company, junkyard, heating contractor, trucking company, meat packing company, a cooper shop, and a feed mill.

What selling points do we use? We tell customers that

1. Weeds are unsightly, bad public relations
2. Weeds are a fire hazard
3. Weeds are an employee hazard
4. Weeds are economically undesirable

To be more specific, here are some instances where weeds caused losses. A steel company discovered that steel stock stored in stockpile 'layout' yards rusted readily because weeds trap moisture near the ground. High lifts

and carryall tractors could not locate the proper stock quickly and had difficulty maneuvering in high weeds.

Weed removal, in the case just cited, prevented rusting away of steel stock, and saved much employee time because inventory numbers painted on the stock were clearly visible.

A wood-treating plant found that its wood was not curing as fast as it might because the curing lot was weed infested. Again weeds fostered moisture buildup and high humidity near the ground.

Railroads Need Service

Some railroad union groups demand weed control in the interest of safety. There is danger of men working on or near trains slipping on wet weeds. Their shoes do not grasp steel footholds on trains when their feet are wet. High weeds also hide such dangers as broken glass, jagged metal, and nails in boards.

For some reason weeds tend to collect debris. People throw trash into weeds because it will be out of sight. Many people think twice before littering a well-kept ground around an industrial plant or office.

There is an interesting facet of the weed control business, which I humorously call 'How to Lose Accounts.' Strangely enough, the easiest way to lose an account is to do a good job. You maintain the grounds of a plant in good order for a season. Then when budget time comes around, the head of maintenance,

with his record of costs in hand, takes a look out his window and sees no weeds. Since cutting costs is what any business is justifiably interested in, you get cut out of the budget for doing a perfect job of weed control.

Actually, this results from an incomplete selling job. Your sales message must continue to convince a plant manager that without your service, his plant will again be overgrown with weeds, which it will. It would be wrong to suggest that weed controllers leave a patch of weeds conveniently outside the window of the plant manager so he would constantly be reminded of how good you are.

Accounts must get no less than a perfect weed control job, because that's what they're paying for. If we happen to lose an account because it cuts costs and we sold it incompletely, we're fairly certain we'll be called the following spring and get another contract, because we did conscientious work in the first place. There's really nothing else we can do about this kind of 'prodigal account' except try to keep from losing it through constant salesmanship.

Might Be Underbid

There is a second way to lose accounts: be underbid by another controller. We occasionally find that the 'winning' bid was so far under minimum chemical costs that the low bidder, in my opinion, could not possibly have done a decent job.

Upgrading selling and educat-

(Continued on page 49)

Wild Garlic Control

in Bermudagrass Turf

by S. W. Bingham

Associate Professor of Plant Physiology, Virginia Polytechnic Institute, Blacksburg, Virginia



WILD GARLIC

LAWN weed problems are a common occurrence in most of our nation. In many instances these problems are associated with climatic and soil conditions, and with turf maintenance practices. Improper maintenance practices are the largest contributors to lawn weed troubles.

Solving weed problems is one of the most important phases of turf management. Early diagnosis or identification is essential if the problem is to be corrected before it becomes too serious. The more difficult weed problems are usually associated with perennial plants that have underground means of reproduction.

Wild garlic and wild onion are serious perennial weeds found in many lawn and highway turf areas over the eastern half of the United States. Both weeds reproduce by aerial bulblets and underground offset bulbs. Wild garlic presents a special problem by producing both hard- and soft-coated bulbs. Some of the hard-coated bulbs remain dormant as much as three years in the soil.

Wild garlic shoots emerge in the fall but usually remain small for several months as winter arrives. Each bulb produces one stem which may have a leaf arising from the lower part of the stem. Leaves are round, hollow and grooved. Wild onion, on the other hand, often has two leaves arising from the bulb. They are flat and have a pithy center.

In established turf, wild garlic shoots develop from bulbs as deep as four inches in the soil. For controlling onion or garlic in such areas, postemergence treatments with herbicides are usually necessary. Since some of the wild garlic bulbs remain dormant for extended periods and will sprout over a period of years, repeated treatments are required for good control.

In most areas the overwintering small shoots begin rapid development in March and eventually mature losing their vigorous growth rate by mid-June. The best time to apply herbicides for onion and garlic is in late fall and early spring. Treatments should be repeated twice each year, once on the small shoots in November and again as growth begins in March.

In experiments conducted in Virginia, a new herbicide, dicamba, and a new formulation of two older phenoxy herbicides have been compared to recognized standard treatments such as the low volatile ester of 2,4-D and maleic hydrazide. The oil soluble or water emulsifiable amine formulation (oleyl-1, 3-propylenediamine salt, or OPDS) of 2,4-D has the added safety features. Both of these phenoxy formulations are low in volatility but the OPDS form is the least volatile of the phenoxy compounds at 145°F. Soil surfaces facing the sun do reach this temperature in summer in Virginia and other areas further south.

An established bermudagrass turf area in Richmond, Virginia was selected for this experiment. Wild garlic shoots numbered about 40 per square foot and were in clumps ranging from 7 to 26 each. The treatments were applied in November and repeated in March each year.

All of the treatments used resulted in some degree of control of wild garlic and also other weeds present in the area. At least three applications of either 2,4-D (ester), 2,4-D (OPDS), dicamba, or maleic hydrazide were required to reduce bulb populations in the soil by 99%. Silvex (OPDS) gave only 84% control and appeared to be less effective than other treatments.

The response of bermudagrass turf to repeated treatments of these herbicides was very favorable. By effectively removing wild garlic and other weed competition, bermudagrass just about doubled its weight per unit area. The quality as well as quantity of turf plants was thus improved.



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An alphabetical reference to subjects and titles of all major feature articles, feature columns, news stories, letters published in *Weeds Trees and Turf* in 1965. A list of authors of this year's articles follows the Directory.

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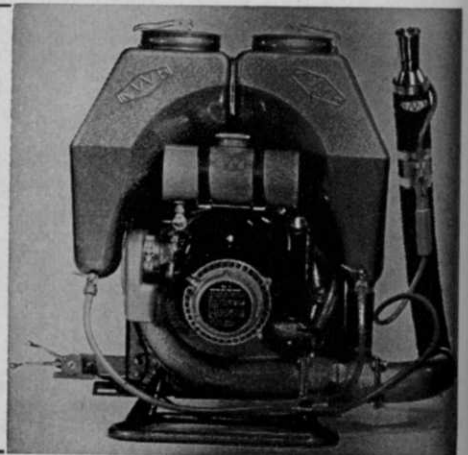
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There will also be some differences of opinion over the inclusion or omission of certain chemicals under particular use categories. Here again confusion exists among reference sources. We have made our choices on the basis of most frequent mention in our surveys which preceded this compilation. Readers' comments and suggestions are invited to help us improve future editions. Keep this year's Guide handy for frequent use.

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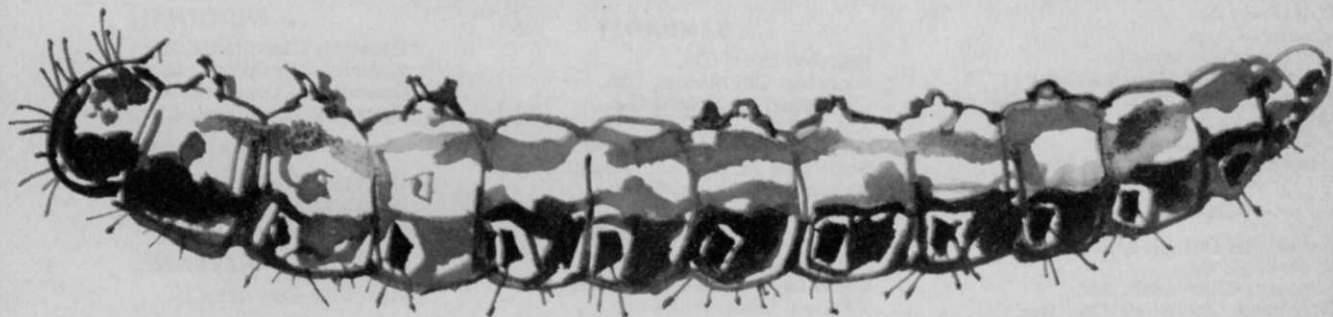
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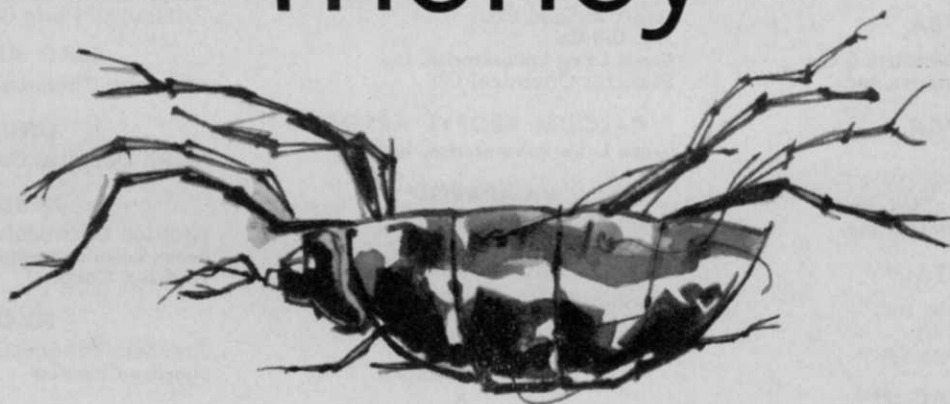
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Andrew Wilson, Inc.

TREE KILLERS

Brayton Chemicals, Inc.
E. I. duPont de Nemours & Co., Inc.

TURF COLORING COMPOUNDS

W. A. Cleary Corp.
E-Z Flo Chemical Co.
Green Lawn Laboratories, Inc.
The Gregg Co.
Mallinckrodt Chemical Works

STUMP REMOVING COMPOUNDS

Brayton Chemicals, Inc.
E. I. duPont de Nemours & Co., Inc.
Faesy & Besthoff, Inc.

CARRIERS

DUSTS, SYNTHETIC

Green Lawn Laboratories, Inc.
Pittsburgh Plate Glass Co.

DUSTS, NATURAL

E-Z Flo Chemical Co.
Floridin Co.
Green Lawn Laboratories, Inc.
Minerals & Chemicals Philipp Corp.

GRANULES, SYNTHETIC

Green Lawn Laboratories, Inc.
Zonolite Div.

GRANULES, NATURAL

American Talc Co.
American Vermiculite Corp.
Floridin Co.
Green Lawn Laboratories, Inc.
Minerals & Chemicals Philipp Corp.
Waverly Petroleum Products Co.

LIQUID (SOLVENTS)

American Oil Co.
Amoco Chemicals Corp.
Anderson-Prichard Oil Corp.
Green Lawn Laboratories, Inc.
Gulf Oil Corp.
Humble Oil & Refining Co.
Jefferson Chemical Co.
Mobil Oil Co.
Signal Oil & Gas Co.
Tenneco Oil Co.

DILUENTS

DIATOMACEOUS EARTH

The Eagle-Picher Co.
Green Lawn Laboratories, Inc.

FULLERS EARTH

Floridin Co.
Minerals & Chemicals Philipp Corp.
Waverly Petroleum Products Co.

GRANULES, GENERAL

American Vermiculite Corp.
Columbia Quarry Co.
Green Lawn Laboratories, Inc.
Minerals & Chemicals Philipp Corp.
Waverly Petroleum Products Co.

KAOLINS (CLAY)

Green Lawn Laboratories, Inc.
Minerals & Chemicals Philipp Corp.

TALC

American Talc Co.
Commercial Minerals Co.
Miller Products Co.

MITICIDES

ARAMITE*

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chipman Chemical Co., Inc.
Green Lawn Laboratories, Inc.
Naugatuck Chemical
Southern Mill Creek Products Co.
Andrew Wilson, Inc.

BINAPACRYL

Niagara Chemical

BIDRIN*

Brayton Chemicals, Inc.
Metalsalts Corp.
Niagara Chemical
Shell Chemical Corp.
Agricultural Chemicals Division
Smith Douglass Co., Inc.
Stauffer Chemical Co.

CHLOROBENZILATE*

J. J. Dill Co.
Geigy Chemical Corp.
Prentiss Drug & Chemical Co.
Residex Corp.

CYGON*

(See Insecticides)

DIBROM*

(See Insecticides)

DELNAV*

Hercules Powder Co.
Southern Mill Creek Products Co.

ETHION

Niagara Chemical
Southern Mill Creek Products Co.
Stauffer Chemical Co.

GENITE

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Southern Mill Creek Products Co.

Not a clay!

END

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PROBLEMS!



New **DIALOAM**®

Soil Conditioner Absorbs 150% of its weight in water, provides controlled release of moisture, won't compact.

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American Building, Dept. W-12
Cincinnati, Ohio 45201

KARATHANE*

J. J. Dill Co.
Gabriel Chemicals, Ltd.
Green Lawn Laboratories, Inc.
Rohm & Haas Co.

KELTHANE*

Baird & McGuire, Inc.
Destruoxol Corp., Ltd.
J. J. Dill Co.
Residex Corp.
Rohm & Haas Co.
Southern Mill Creek Products Co.

MORESTAN*

Brayton Chemicals, Inc.
Chemagro Corp.
J. J. Dill Co.

MOROCIDE*

Niagara Chemical

PENTAC*

Brayton Chemicals, Inc.
Hooker Chemical Co.

SCHRADAN

Pennsalt Chemicals Corp.

SYSTOX*

Chemagro Corp.
Green Lawn Laboratories, Inc.
Niagara Chemical
Stauffer Chemical Co.

TEDION*

Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
J. J. Dill Co.
Niagara Chemical
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.

THIMET*

American Cyanamid Co.
Baird & McGuire, Inc.
Niagara Chemical
Smith Douglass Co., Inc.

TOXAPHENE

(See Insecticides)

TRITHION*

J. J. Dill Co.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.

TRACE ELEMENTS

BORAX

American Potash & Chemical Corp.
Green Lawn Laboratories, Inc.
U. S. Borax & Chemical Corp.
Utility Chemical Co.

BORO-SPRAY

American Potash & Chemical Corp.
Green Lawn Laboratories, Inc.

COPPER CHELATE

Brayton Chemicals, Inc.
J. J. Dill Co.
Dow Chemical Co.
Geigy Chemical Corp.
Green Lawn Laboratories, Inc.
Wilbur-Ellis Co.

COPPER SULFATE

J. J. Dill Co.
Phelps Dodge Refining Corp.

Green Lawn Laboratories, Inc.
Tennessee Corp.

IRON CHELATE

American Liquid Fertilizer Co., Inc.
Brayton Chemicals, Inc.
Destruoxol Corp., Ltd.
J. J. Dill Co.
Dow Chemical Co.
Faesy & Besthoff, Inc.
Florida Agricultural Supply Co.
Geigy Chemical Corp.
Green Lawn Laboratories, Inc.
Wilbur-Ellis Co.

IRON, MICRONIZED

Green Lawn Laboratories, Inc.

IRON SULFATE

Destruoxol Corp., Ltd.
J. J. Dill Co.
The Eagle-Picher Co.
Green Lawn Laboratories, Inc.
Phillips Petroleum Co.
Tennessee Corp.

MAGNESIUM CARBONITE

J. J. Dill Co.
Green Lawn Laboratories, Inc.

MAGNESIUM SULFATE

J. J. Dill Co.
Dow Chemical Co.
Green Lawn Laboratories, Inc.
Utility Chemical Co.
Wilbur-Ellis Co.

MANGANESE CHELATE

Brayton Chemicals, Inc.
J. J. Dill Co.
Destruoxol Corp., Ltd.
Geigy Chemical Corp.
Green Lawn Laboratories, Inc.

MANGANESE SULFATE

J. J. Dill Co.
Green Lawn Laboratories, Inc.
Tennessee Corp.

MANGANOUS OXIDE

J. J. Dill Co.
Green Lawn Laboratories, Inc.
Tennessee Corp.

MOLYBDENUM

Armour Agricultural Chemical Co.
Climax Molybdenum Co.

ZINC CHELATE

Destruoxol Corp., Ltd.
J. J. Dill Co.
Geigy Chemical Corp.
Green Lawn Laboratories, Inc.
Wilbur-Ellis Co.

ZINC SULFATE

American Smelting & Refining Co.
J. J. Dill Co.
The Eagle-Picher Co.
Green Lawn Laboratories, Inc.
Phillips Petroleum Co.
The Sherwin-Williams Co.
Tennessee Corp.
Utility Chemical Co.

SURFACE ACTIVE AGENTS

DETERGENTS, GENERAL

Cloro Spray Corp.
Emery Industries, Inc.
General Aniline & Film Corp.

Industrial Materials Co.
Rohm & Haas Co.
Stepan Chemical Co.
Tennessee Corp.
Thompson-Hayward Chemical Co.
Utility Chemical Co.

EMULSIFIERS

Armour Industrial Chemical Co.
Atlas Chemical Industries, Inc.
Emery Industries, Inc.
General Aniline & Film Corp.
Green Lawn Laboratories, Inc.
Jefferson Chemical Co.
Niagara Chemical
Rohm & Haas Co.
Stepan Chemical Co.
Thompson-Hayward Chemical Co.

SPREADER-STICKERS

Armour & Co.
R. H. Bogle Co.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chemwest, Inc.
Colloidal Products Corp.
Destruoxol Corp., Ltd.
J. J. Dill Co.
E. I. duPont de Nemours & Co., Inc.
Emery Industries, Inc.
Faesy & Besthoff, Inc.
General Aniline & Film Corp.
General Chemical Div., ACC
Green Lawn Laboratories, Inc.
Hydroponic Chemical Co., Inc.
Niagara Chemical
Rohm & Haas Co.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Stepan Chemical Co.
Thompson-Hayward Chemical Co.
Wilbur-Ellis Co.
Andrew Wilson, Inc.

STABILIZERS

Emery Industries, Inc.
General Aniline & Film Corp.
Green Lawn Laboratories, Inc.

WETTING AGENTS

Aquatrols Corp. of America
Armour Industrial Chemical Co.
R. H. Bogle Co.
Chapman Chemical Co.
W. A. Cleary Corp.
Cloro Spray Corp.
Colloidal Products Corp.
J. J. Dill Co.
Emery Industries, Inc.
Green Lawn Laboratories, Inc.
Jefferson Chemical Co.
Niagara Chemical
Roberts Chemicals, Inc.
Rohm & Haas Co.
Stauffer Chemical Co.
Stepan Chemical Co.
Thompson-Hayward Chemical Co.
"Water-In" Inc.
Wilbur-Ellis Co.

GROWTH RETARDANTS

CYCOCEL

American Cyanamid Co.

MALEIC HYDRAZIDE

Brayton Chemicals, Inc.
Green Lawn Laboratories, Inc.
Naugatuck Chemical Div. of
U. S. Rubber
Niagara Chemical
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.

NEMATOCIDES

CHLOROPICRIN

(See Soil Fumigants)

D-D

(See Soil Fumigants)

DICHLOROPENES

Brayton Chemicals, Inc.
Dow Chemical Co.
Smith Douglass Co., Inc.

FUMAZONE*

Brayton Chemicals, Inc.
Smith Douglass Co., Inc.

NEMAGON

Brayton Chemicals, Inc.
J. J. Dill Co.
Green Lawn Laboratories, Inc.
B. G. Pratt Co.
Shell Chemical Corp.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.

SAROLEX*

Geigy Chemical Corp.

VAMPAM*

Green Lawn Laboratories, Inc.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.

VORLEX*

Green Lawn Laboratories, Inc.
Morton Chemical Co.
Niagara Chemical Co.

INSECTICIDES

ABATE

American Cyanamid Co.

ALDRIN

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chapman Chemical Co.
Chipman Chemical Co., Inc.
J. J. Dill Co.
Florida Agricultural Supply Co.
Green Lawn Laboratories, Inc.
Hopkins Agricultural Chemical Co.
Hub States Chemical & Equipment Co.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
Pennsalt Chemicals Corp.
Prentiss Drug & Chemical Co.
Residex Corp.
Riverdale Chemical Co.
Shell Chemical Corp.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Stephenson Chemical Co., Inc.
Thompson-Hayward Chemical Co.
Waverly Petroleum Products Co.
Wood Treating Chemicals Co.

ARSENICAL COMPOUNDS

Baird & McGuire, Inc.
Chipman Chemical Co., Inc.
J. J. Dill Co.
Green Lawn Laboratories, Inc.
Niagara Chemical
Pennsalt Chemicals Corp.
The Sherwin-Williams Co.

Thompson-Hayward Chemical Co.
Vineland Chemical Sales Corp.

ASPON*

Brayton Chemicals, Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.

AZINPHOSMETHYL (GUTHION*)

Chemagro Corp.
Niagara Chemical

BACILLUS THURINGIENSIS

Bioferm Corp.
Pennsalt Chemicals Corp.
Smith Douglass Co., Inc.
Stauffer Chemical Co.

BAYGON (BAYER 39007)

Chemagro Corp.
J. J. Dill Co.

BAYTEX*

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chemagro Corp.
J. J. Dill Co.
Residex Corp.
Southern Mill Creek Products Co.

BETANAPHTHOL

The Sherwin-Williams Co.

BHC

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chapman Chemical Co.
Chipman Chemical Co., Inc.
Diamond Alkali Co.
J. J. Dill Co.
Florida Agricultural Supply Co.
Hooker Chemical Co.
Miller Products Co.
Niagara Chemical
Pennsalt Chemicals Corp.
Pittsburgh Plate Glass Co.
Riverdale Chemical Co.
Southern Mill Creek Products Co.
Stauffer Chemical Co.

BIDRIN*

(See Miticides)

CHLORDANE

American Liquid Fertilizer Co., Inc.
Asgrow Seed Co.
Brayton Chemicals, Inc.
Chapman Chemical Co.
Chipman Chemical Co., Inc.
W. A. Cleary Corp.
Destruoxol Corp., Ltd.
J. J. Dill Co.
E.-Z Flo Chemical Co.
Green Lawn Laboratories, Inc.
Hopkins Agricultural Chemical Co.
Hub-States Chemical & Equip. Co.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
S. B. Penick & Co.
Pennsalt Chemicals Corp.
Pest Control Equipment Co.
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Residex Corp.
Riverdale Chemical Co.
O. M. Scott & Sons Co.
The Sherwin-Williams Co.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Stephenson Chemical Co., Inc.
Thompson-Hayward Chemical Co.
Velsicol Chemical Corp.
Waverly Petroleum Products Co.
Andrew Wilson, Inc.
Woodbury Chemical Co.
Wood Treating Chemicals Co.

COPPER ARSENATE, BASIC

The Sherwin-Williams Co.
Southern Mill Creek Products Co.

CRYOLITE

Destruoxol Corp., Ltd.
Pennsalt Chemicals Corp.
Stauffer Chemical Co.

CYGON*

American Cyanamid Co.
Brayton Chemicals, Inc.
Niagara Chemical
Southern Mill Creek Products Co.

DDD (TDE)

Baird & McGuire, Inc.
Green Lawn Laboratories, Inc.
Miller Products Co.
Niagara Chemical
Rohm & Haas Co.
Smith Douglass Co., Inc.
Stauffer Chemical Co.

DDT

American Liquid Fertilizer Co., Inc.
American Oil Co.
Asgrow Seed Co.
Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chapman Chemical Co.
Chipman Chemical Co., Inc.
Diamond Alkali Co.
J. J. Dill Co.
E. I. duPont de Nemours & Co., Inc.
Gabriel Chemicals, Ltd.
Geigy Chemical Corp.
Green Lawn Laboratories, Inc.
Hopkins Agricultural Chemical Co.
McLaughlin Gormley King Co.
Miller Products Co.
Montrose Chemical Co.
Niagara Chemical
S. B. Penick & Co.
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Riverdale Chemical Co.
The Sherwin-Williams Co.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.
Waverly Petroleum Products Co.
Andrew Wilson, Inc.
Woodbury Chemical Co.
Wood Treating Chemicals Co.

DDVP (VAPONA)

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chapman Chemical Co.
J. J. Dill Co.
Gabriel Chemicals, Ltd.
Green Lawn Laboratories, Inc.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
Norda Essential Oil & Chem. Co.
S. B. Penick & Co.
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Residex Corp.
Riverdale Chemical Co.
Shell Chemical Corp.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Stephenson Chemical Co., Inc.
Thompson-Hayward Chemical Co.
Woodbury Chemical Co.
Wood Treating Chemicals Co.

DELNAV

Brayton Chemicals, Inc.
Hercules Powder Co.

Southern Mill Creek Products Co.
Thompson-Hayward Chemical Co.

DIAZINON*

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
J. J. Dill Co.
Gabriel Chemicals, Ltd.
Geigy Chemical Corp.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Residex Corp.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stephenson Chemical Co., Inc.
Wood Treating Chemicals Co.

DIBROM*

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chipman Chemical Co., Inc.
J. J. Dill Co.
Gabriel Chemicals, Ltd.
Green Lawn Laboratories, Inc.
Prentiss Drug & Chemical Co.
Residex Corp.
Southern Mill Creek Products Co.
Stauffer Chemical Co.

DICAPTHON

S. B. Penick & Co.

DIELDRIN

Baird & McGuire, Inc.
Black Leaf Products Co.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chipman Chemical Co.
Chipman Chemical Co., Inc.
Destruol Corp., Ltd.
J. J. Dill Co.
Elanco Products Co.
Florida Agricultural Supply Co.
Green Lawn Laboratories, Inc.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
S. B. Penick & Co.
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Residex Corp.
Riverdale Chemical Co.
Shell Chemical Corp.
The Sherwin-Williams Co.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Stephenson Chemical Co., Inc.
Thompson-Hayward Chemical Co.
Waverly Petroleum Products Co.
Andrew Wilson, Inc.
Woodbury Chemical Co.
Wood Treating Chemicals Co.

DIMETHOATE

(See Cygon* Above)

DIMETHRIN

McLaughlin Gormley King Co.

DIPTEREX*

Chemagro Corp.
J. J. Dill Co.
McLaughlin Gormley King Co.
Residex Corp.
Southern Mill Creek Products Co.

DISYSTON*

Brayton Chemicals, Inc.
Chipman Chemical Co.
Chemagro Corp.

DNOC

Dow Chemical Co.
Niagara Chemical

DRINOX*

Morton Chemical Co.

DYLOX*

Chemagro Corp.

ENDOSULFAN (THIODAN*)

E-Z Flo Chemical Co.
Niagara Chemical

ENDRIN

Baird & McGuire, Inc.
Chevron Chemical Co., Ortho Div.
Chipman Chemical Co.
Chipman Chemical Co., Inc.
Miller Products Co.
Niagara Chemical
Pennsalt Chemicals Corp.
Prentiss Drug & Chemical Co.
Shell Chemical Corp.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.
Velsicol Chemical Corp.

ETHION

(See Miticides)

GUTHION*

Brayton Chemicals, Inc.
Chipman Chemical Co.
Chemagro Corp.
Niagara Chemical
Southern Mill Creek Products Co.

HEPTACHLOR

Baird & McGuire, Inc.
Brayton Chemicals, Inc.

Chevron Chemical Co., Ortho Div.
Chapman Chemical Co.
Chipman Chemical Co., Inc.
J. J. Dill Co.
Gabriel Chemicals, Ltd.
Green Lawn Laboratories, Inc.
Hub States Chemical & Equip. Co.
Miller Products Co.
Niagara Chemical
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Residex Corp.
Riverdale Chemical Co.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Stephenson Chemical Co., Inc.
Thompson-Hayward Chemical Co.
Waverly Petroleum Products Co.
Velsicol Chemical Corp.
Woodbury Chemical Co.
Wood Treating Chemicals Co.

KORLAN*

Brayton Chemicals, Inc.
J. J. Dill Co.
Dow Chemical Co.
Niagara Chemical
Residex Corp.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stephenson Chemical Co., Inc.
Wood Treating Chemicals Co.

LEAD ARSENATE

Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chipman Chemical Co., Inc.
J. J. Dill Co.
Hopkins Agricultural Chemical Co.
Miller Products Co.
Niagara Chemical



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B. G. PRATT COMPANY
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Roussell Corp.
Southern Mill Creek Products Co.
The Sherwin-Williams Co.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.

LETHANE

J. J. Dill Co.
Prentiss Drug & Chemical Co.
Residex Corp.
Rohm & Haas Co.

LIME SULFUR

Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Destruxol Corp., Ltd.
Faesy & Besthoff, Inc.
Green Lawn Laboratories, Inc.
Miller Products Co.
Thompson-Hayward Chemical Co.
Andrew Wilson, Inc.

LINDANE

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chapman Chemical Co.
Chipman Chemical Co., Inc.
J. J. Dill Co.
Gabriel Chemicals, Ltd.
Florida Agricultural Supply Co.
Green Lawn Laboratories, Inc.
Hooker Chemical Co.
Hopkins Agricultural Chemical Co.
Miller Products Co.
Niagara Chemical
Pennsalt Chemicals Corp.
S. B. Penick & Co.
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Riverdale Chemical Co.
Robeco Chemicals, Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.

MALATHION

American Cyanamid Co.
American Liquid Fertilizer Co., Inc.
American Oil Co.
Baird & McGuire, Inc.
Black Leaf Products Co.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chapman Chemical Co.
Chipman Chemical Co., Inc.
Destruxol Corp., Ltd.
J. J. Dill Co.
Elanco Products Co.
Faesy & Besthoff, Inc.
Green Lawn Laboratories, Inc.
Hub States Chemical & Equip. Co.
Hydroponic Chemical Co., Inc.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
S. B. Penick & Co.
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Prentiss Drug & Chemical Co.
Residex Corp.
Riverdale Chemical Co.
The Sherwin-Williams Co.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.
Andrew Wilson, Inc.
Woodbury Chemical Co.

METALDEHYDE

Chipman Chemical Co., Inc.
Commercial Solvents Corp.
Miller Products Co.
Stauffer Chemical Co.

META SYSTOX R*

Baird & McGuire, Inc.
Chemagro Corp.
Elanco Products Co.
Niagara Chemical

METHOXYCHLOR

Baird & McGuire, Inc.
J. J. Dill Co.
E. I. duPont de Nemours & Co., Inc.
Gabriel Chemicals, Ltd.
Geigy Chemical Corp.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
Prentiss Drug & Chemical Co.
Residex Corp.
Thompson-Hayward Chemical Co.

METHYL PARATHION

American Cyanamid Co.
American Potash & Chemical Corp.
Chevron Chemical Co., Ortho Div.
Chemagro Corp.
Chipman Chemical Co., Inc.
Niagara Chemical
Gabriel Chemicals, Ltd.
Green Lawn Laboratories, Inc.
Pennsalt Chemicals Corp.
Shell Chemical Corp.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.
Velsicol Chemical Corp.

NICOTINE COMPOUNDS

Brayton Chemicals, Inc.
Andrew Wilson, Inc.

OILS, DORMANT

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
E-Z Flo Chemical Co.
Faesy & Besthoff, Inc.
Green Lawn Laboratories, Inc.
Miller Products Co.
Niagara Chemical Co.
B. G. Pratt Co.
Andrew Wilson, Inc.

OILS, SUMMER

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Green Lawn Laboratories, Inc.
Miller Products Co.
Niagara Chemical
B. G. Pratt Co.
Southern Mill Creek Products Co.

PARATHION

American Cyanamid Co.
American Potash & Chemical Corp.
Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chapman Chemical Co.
Chemagro Corp.
Chipman Chemical Co., Inc.
Green Lawn Laboratories, Inc.
Miller Products Co.
Niagara Chemical
Pennsalt Chemicals Corp.
Riverdale Chemical Co.
Shell Chemical Corp.
The Sherwin-Williams Co.
Smith Douglass Co., Inc.
Southern Mill Creek Products Co.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.
Velsicol Chemical Corp.

PARIS GREEN

The Sherwin-Williams Co.

PENTACHLOROPHENOL

Baird & McGuire, Inc.
J. J. Dill Co.
Miller Products Co.
Reichhold Chemical Co.
Stauffer Chemical Co.
Thompson-Hayward Chemical Co.
Waverly Petroleum Products Co.
Wood Treating Chemicals Co.

PHENOTHIAZINE

Prentiss Drug & Chemical Co.

PHORATE (THIMET*)

(See Miticides under Thimet*)

PHOSDRIN*

Chevron Chemical Co., Ortho Div.
Chipman Chemical Co., Inc.
Gabriel Chemicals, Ltd.
Shell Chemical Corp.
Stauffer Chemical Co.

PHOSPHAMIDON (DIMECRON*)

Brayton Chemicals, Inc.
Chipman Chemical Co., Inc.
Stauffer Chemical Co.

PYRETHRINS

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chapman Chemical Co.
J. J. Dill Co.
Gabriel Chemicals, Ltd.
Green Lawn Laboratories, Inc.
McLaughlin Gormley King Co.
Niagara Chemical
S. B. Penick & Co.
Prentiss Drug & Chemical Co.
Southern Mill Creek Products Co.
Thompson-Hayward Chemical Co.

ROTENONE

Chipman Chemical Co., Inc.
Gabriel Chemicals, Ltd.
Green Lawn Laboratories, Inc.
Hopkins Agricultural Chemical Co.
McLaughlin Gormley King Co.
Miller Products Co.
Niagara Chemical
S. B. Penick & Co.
B. G. Pratt Co.
Prentiss Drug & Chemical Co., Inc.
Southern Mill Creek Products Co.
Thompson-Hayward Chemical Co.

RYANIA

S. B. Penick & Co.
Prentiss Drug & Chemical Co.

SEVIN*

Baird & McGuire, Inc.
Brayton Chemicals, Inc.
Chevron Chemical Co., Ortho Div.
Chapman Chemical Co.
J. J. Dill Co.
Faesy & Besthoff, Inc.
Green Lawn Laboratories, Inc.
Miller Products Co.
Niagara Chemical
B. G. Pratt Co.
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(See Miticides)

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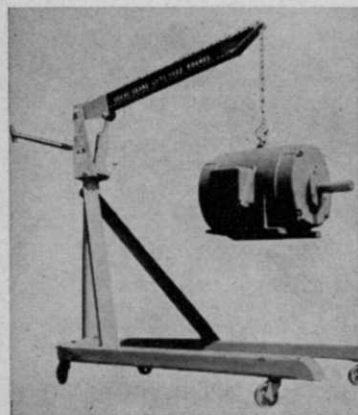
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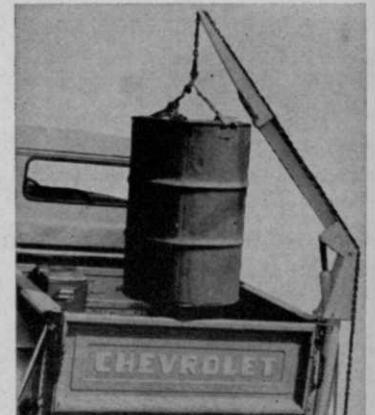
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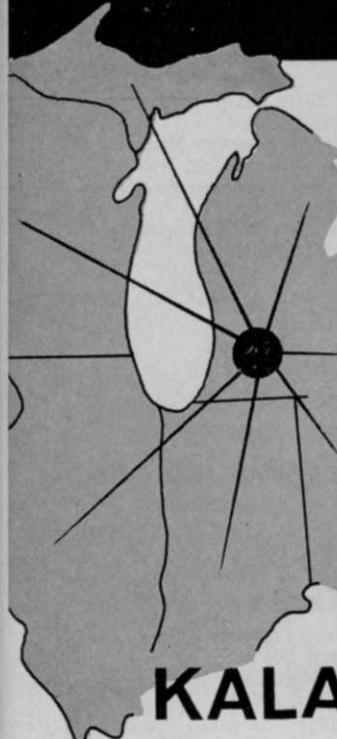
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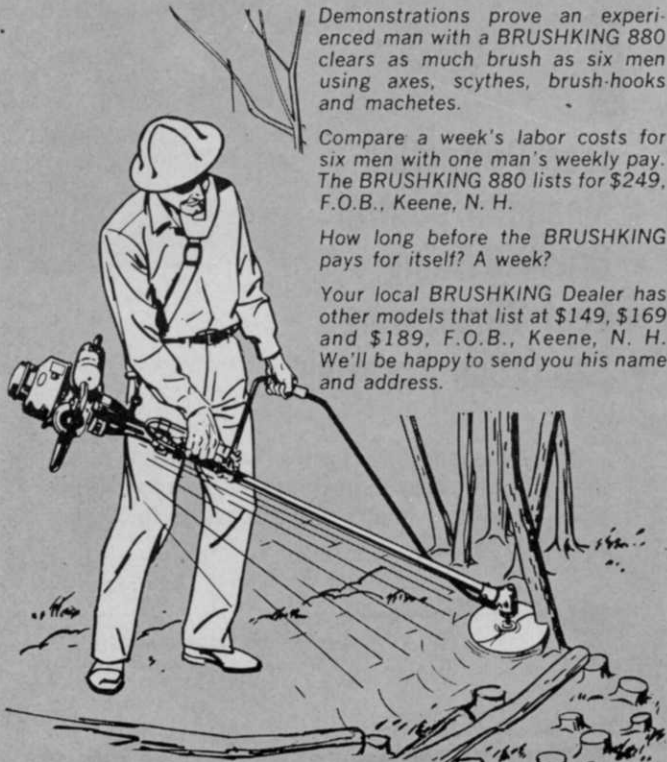
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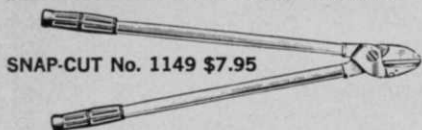
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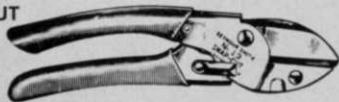
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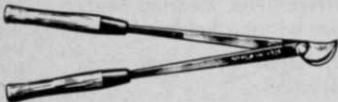
The original anvil type pruner. A terrific tool. Cuts up to 3/4" branches. All parts replaceable.

"ALL PURPOSE" TREE PRUNER
(No. 3)

An easy pull cuts 1" branches, spring opens blade for next cut. Lever action. Tempered cutlery steel blade. Heat treated steel head riveted to pole.

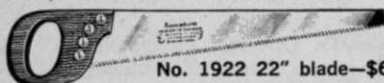
6 foot	\$5.25
8 foot	\$5.95
10 foot	\$6.50
12 foot	\$6.95

TIFFANY LOPPING SHEARS
No. 528 — \$8.98



Double cut "drawn in" cutting action. All forged, improved bolt and nut joint. Through tang handles.

NEW, FINEST EVER PRUNING SAWS



No. 1922 22" blade—\$6.65

Fastest, easiest cutting saws for orchard use. Swedish steel blades. Complete line of 6 models covering all requirements up to chain saw work.

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Oakville, Connecticut

ROLLERS, TURF

Brillion Iron Works, Inc.
Rosco Mfg. Co.
Ryan Equipment Co.
Sun Industry, Inc.

ROOT-FEEDING RODS

J. J. Dill Co.
Hydroponic Chemical Co., Inc.

SAFETY BELTS, TREE CLIMBERS

Bartlett Mfg. Co.
W. M. Bashlin Co.
Mine Safety Appliances Co.

SAFETY EQUIPMENT

Acme Protection Equipment Co.
Mine Safety Appliances Co.
Muench Co., Inc.
Pulmosan Safety Equipment Corp.
Vandermolten Export Co.
The Wilson Rubber Co.

SAWS, MANUAL

John Bacon Corp.
Muench Co., Inc.
Seymour Smith & Son, Inc.
Wright Saw Div.

SAWS, POWER

American-Lincoln Corp.
John Bacon Corp.
The Black & Decker Mfg. Co.
Fairmont Hydraulics
Gravelly Tractor
Hoffco, Inc.
Homelite Div., Textron Inc.
McCulloch Corp.
Miller Robinson Co.
Muench Co., Inc.
R. M. Newcomb Co.
Solo Industries, Inc.
The Sun-Mastr Corp.
Wright Saw Div.

SCRAPERS

Allis-Chalmers Mfg. Co.
Deere & Co.
International Harvester Co.
Oliver Corp.
York Modern Corp.

SCYTHES

Hoffco, Inc.
Solo Industries, Inc.

SEEDERS, DISK-TYPE

J. J. Dill Co.
International Harvester Co.

SEEDERS, HOPPER-TYPE

Brettrager Mfg.
Brillion Iron Works, Inc.
The Cyclone Seeder Co., Inc.
Ezee Flow Div., Avco Corp.
Gandy Co.
International Harvester Co.
Schneider Metal Mfg. Co.
Sunnyhill Research & Mfg. Co.
Universal Metal Products Div.

SHEARS

John Bacon Corp.
Bartlett Mfg. Co.
The Black & Decker Mfg. Co.
Seymour Smith & Son, Inc.
Vandermolten Export Co.

SHREDDERS, SOIL

Kemp Mfg. Co.
Lindig Mfg. Co., Inc.
Royer Foundry & Machine Co.
W-W Grinder Corp.

SICKLE BAR MOWER

Deere & Co.
Gravelly Tractor
International Harvester Co.
Jari Corp.
Simplicity Mfg. Co.
Solo Industries, Inc.

SOD CUTTERS

Ryan Equipment Co.
Sod-Master

SOD PLUGGER

Sudbury Laboratory
West Point Products Corp.

SOIL TEST KITS

The Edwards Laboratory
Sudbury Laboratory

SPIKER

Ryan Equipment Co.
West Point Products Corp.

SPRAY BOOMS

John Bacon Corp.
John Bean Div.
John Blue Co., Inc.
Century Engineering Corp.
Contree Sales, Inc.
Custom Spray Equipment Corp.
J. J. Dill Co.
Farmrite Sprayer, Inc.
Friend Mfg. Corp.
Green Lawn Laboratories, Inc.
Hardie Sprayers
H. D. Hudson Mfg. Co.
Larson Machine, Inc.
Muench Co., Inc.
The F. E. Myers & Bro. Co.
Root-Lowell Corp.
Thuron Sprayer Mfg. Co.
Tote Systems Div.
Tryco Mfg. Co.
Universal Metal Products Div.
R. M. Wade & Co.
Walsh Mfg. Co.

SPRAY GUNS

John Bacon Corp.
John Bean Div.
The Broyhill Co.
Century Engineering Corp.
Contree Sales, Inc.
Delavan Mfg. Co.
DeVilbiss Co.
J. J. Dill Co.
Farmrite Sprayer, Inc.
Friend Mfg. Corp.
Gotcher Engineering & Mfg. Co.
Hanson Equipment Co.
Hardie Sprayers
H. D. Hudson Mfg. Co.
Larson Machine, Inc.
Minnesota Wanner Co.
The F. E. Myers & Bro. Co.
Oakes Mfg. Co.
Root-Lowell Corp.
Silver Creek Precision Corp.
Spraying Systems Co.
Thompson Mfg. Co.
Tryco Mfg. Co.
Universal Metal Products Div.

SPRAY NOZZLES, COMPLETE

John Bacon Corp.
John Bean Div.
The Broyhill Co.
Century Engineering Corp.
R. E. Chapin Mfg. Works, Inc.
Delavan Mfg. Co.
DeVilbiss Co.
J. J. Dill Co.
Farmrite Sprayer, Inc.
Friend Mfg. Corp.
Gotcher Engineering & Mfg. Co.

Hanson Equipment Co.
 Hardie Sprayers
 H. D. Hudson Mfg. Co.
 Larson Machine, Inc.
 Minnesota Wanner Co.
 Monarch Mfg. Works, Inc.
The F. E. Myers & Bro. Co.
 Spraying Systems Co.
 Wm. Steinen Mfg. Co.
 Thompson Mfg. Co.
 Tryco Mfg. Co.

SPRAY NOZZLES, DISKS

John Bacon Corp.
 John Bean Div.
 John Blue Co., Inc.
 Brayton Chemicals, Inc.
 The Broyhill Co.
 Delavan Mfg. Co.
J. J. Dill Co.
 Farmrite Sprayer, Inc.
 Friend Mfg. Corp.
 Gotcher Engineering & Mfg. Co.
 Hardie Sprayers
 Minnesota Wanner Co.
The F. E. Myers & Bro. Co.
 Spraying Systems Co.

SPRAY NOZZLES, WHIRLS

John Bacon Corp.
 John Bean Div.
 The Broyhill Co.
J. J. Dill Co.
 Farmrite Sprayer, Inc.
 Friend Mfg. Corp.
The F. E. Myers & Bro. Co.
 Larson Machine, Inc.
 Spraying Systems Co.

SPRAY RIG LINE MARKERS

Contree Sales, Inc.
 Farmrite Sprayer, Inc.
 H. D. Hudson Mfg. Co.

SPRAYERS, BOOM

John Bacon Corp.
 John Bean Div.
 The Broyhill Co.
 Century Engineering Corp.
 Contree Sales, Inc.
 Deere & Co.
J. J. Dill Co.
 Farmrite Sprayer, Inc.
 Friend Mfg. Co.
 Gotcher Engineering & Mfg. Co.
Green Lawn Laboratories, Inc.
 Hanson Equipment Co.
 Hardie Sprayers
 H. D. Hudson Mfg. Co.
 Larson Machine, Inc.
The F. E. Myers & Bro. Co.
 Root-Lowell Corp.
 Sun Industry, Inc.
 Thuron Sprayer Mfg. Co.
 Tryco Mfg. Co.
 R. M. Wade & Co.
 Walsh Mfg. Co.

**SPRAYERS, CART
 OR WHEELBARROW TYPE**

The Broyhill Co.
Buffalo Turbine Ag. Equip Co.
 Champion Sprayer Co.
 R. E. Chapin Mfg. Works, Inc.
J. J. Dill Co.
 Farmrite Sprayer, Inc.
 Hardie Sprayers
 H. D. Hudson Mfg. Co.
The F. E. Myers & Bro. Co.
 Root-Lowell Corp.
 D. B. Smith & Co.
 Sun Industry, Inc.
 Tarrant Mfg. Co.
 Universal Metal Products Div.

**SPRAYERS,
 COMPLETE POWER UNIT**

John Bacon Corp.
 John Bean Div.
 Besler—A Division of C-C
 Industries
 John Blue Co., Inc.
R. H. Bogle Co.
 The Broyhill Co.
Buffalo Turbine Ag. Equip. Co.
 Century Engineering Corp.
 Champion Sprayer Co.
 R. E. Chapin Mfg. Works, Inc.
 Contree Sales, Inc.
 Cushman Motors
 Deere & Co.
J. J. Dill Co.
 Farmrite Sprayer, Inc.
 Friend Mfg. Corp.
 Gravely Tractor
Green Lawn Laboratories, Inc.
 Gro-Spray Mfg. Co.
 Hanson Equipment Co.
 Hardie Sprayers
 H. D. Hudson Mfg. Co.
 Larson Machine, Inc.
 Marlow Pumps
 Minnesota Wanner Co.
The F. E. Myers & Bro. Co.
 Oakes Mfg. Co.
Pest Control Equipment Co.
 Root-Lowell Corp.
 Silver Creek Precision Corp.
Solo Industries, Inc.
 Southern Mill Creek Products Co.
 Sun Industry, Inc.
 Tarrant Mfg. Co.
 Thompson Mfg. Co.
 Thuron Sprayer Mfg. Co.
 Tryco Mfg. Co.
 Universal Metal Products Div.

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The Time: Now!

The Equipment:



Custom Spray's New Boom.

Engineered with such precision you can "scratch your ear with it." But it works best for spraying. Spray 8 miles per man hour, with ease, with this versatile, efficient, money-making spray boom.

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Custom Spray Equipment Corp.

RD #2

Binghamton, N. Y.

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 CERTIFIED SEEDS**

Merion Kentucky Bluegrass
 Delta Kentucky Bluegrass
 Newport Kentucky Bluegrass
 Penncross Creeping Bent
 Seaside Bent (Coos Co.)
 Norlea Perennial Ryegrass
 and other fine Turf grasses and
 Mixtures to your specifications.

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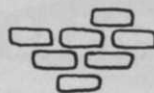
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Alex Sehlmeier, Vice-Pres.

Chimney Rock and Foot Hill Road
 Bound Brook, New Jersey

Phone: 201-ELLIOT 6-8702



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Wheel Pump SPRAYER



It pumps
as it's
pushed!

For Turf Care!

The Universal wheel pump sprayer milks out a measured amount of solution in a heavy residual spray as it is pushed over the turf. Each nozzle spreads a 24-inch path of solution at the approximate rate of one gallon per 1,000 sq. ft. No other sprayer like it. Made especially for expert turf care. Ideal for irregular shaped lots and lots too small for your power rig. Soon becomes one of your most often used pieces of lawn equipment. 7-gal. and 3-gal. sizes.

Write for complete information and prices.

UNIVERSAL

UNIVERSAL METAL PRODUCTS DIV.
LEIGH PRODUCTS, INC., SARANAC, MICHIGAN

Vandermolen Export Co.
Walsh Mfg. Co.

SPRAYERS, COMPRESSED AIR

John Bean Div.
R. E. Chapin Mfg. Works, Inc.
DeVilbiss Co.
J. J. Dill Co.
Farmrite Sprayer, Inc.
H. D. Hudson Mfg. Co.
Hub States Chemical & Equip. Co.
Muench Co., Inc.
Pest Control Equipment Co.
Residex Corp.
Root-Lowell Corp.
D. B. Smith & Co.
Tryco Mfg. Co.
Universal Metal Products Div.
Vandermolen Export Co.

SPRAYERS, HAND

Champion Sprayer Co.
R. E. Chapin Mfg. Works, Inc.
J. J. Dill Co.
H. D. Hudson Mfg. Co.
Hydroponic Chemical Co., Inc.
Muench Co., Inc.
Oakes Mfg. Co.
Pest Control Equipment Co.
Root-Lowell Corp.
Silver Creek Precision Corp.
D. B. Smith & Co.
Solo Industries, Inc.
Thompson Mfg. Co.
Tryco Mfg. Co.
Universal Metal Products Div.
Vandermolen Export Co.
Walsh Mfg. Co.

SPRAYERS, HOSE END

Hayes Spray Gun Co.
Universal Metal Products Div.

SPRAYERS, KNAPSACK

The Ben Meadows Co.
Buffalo Turbine Ag. Equip. Co.
Champion Sprayer Co.
J. J. Dill Co.
H. D. Hudson Mfg. Co.
Oakes Mfg. Co.
Root-Lowell Corp.
D. B. Smith & Co.
Solo Industries, Inc.
Southern Mill Creek Products Co.
Universal Metal Products Div.
Vandermolen Export Co.

SPREADERS, DISK-TYPE

J. J. Dill Co.
Southern Mill Creek Products Co.

SPREADERS, HOPPER-TYPE

Brettrager Mfg.
Brillion Iron Works, Inc.
The Cyclone Seeder Co., Inc.
J. J. Dill Co.
Ezee Flow Division, Avco Corp.
Gandy Co.
Gotcher Eng. & Mfg. Co.
Gravely Tractor
Highway Equipment Co.
International Harvester Co.
Larson Machine, Inc.
Ryan Equipment Co.
Schneider Metal Manufacturing Co.
O. M. Scott & Sons Co.
Sunnyhill Research & Mfg. Co.

SPRIGGERS

Thompson Equipment Co.
Western Turfgrass, Inc.

STONE PICKER

Bridgeport Implement Works, Inc.

STUMP CUTTERS

ARPS Corp.
Brooks Products Div.
H & G Tool Co.
Vermeer Manufacturing Co.

SWEEPERS

Farmrite Sprayer, Inc.

TANKS, SPRAY

John Bacon Corp.
John Bean Div.
The Broyhill Co.
Century Engineering Corp.
Contree Sales, Inc.
J. J. Dill Co.
Farmrite Sprayer, Inc.
Friend Manufacturing Corp.
Gotcher Eng. & Mfg. Co.
Green Lawn Laboratories, Inc.
Hanson Equipment Co.
Hardie Sprayers
H. D. Hudson Manufacturing Co.
Larson Machine, Inc.
Minnesota Wanner Co.
The F. E. Myers and Bro. Co.
Thuron Sprayer Manufacturing Co.
Tryco Mfg. Co.
Walsh Manufacturing Co.

TILLERS

Bolens Div.
Brillion Iron Works, Inc.
J. I. Case Co.
DeVilbiss Co.
Jacobsen Manufacturing Co.
Quick Manufacturing, Inc.
Roseman Mower Corp.
Simplicity Manufacturing Co.
Solo Industries, Inc.
Toro Manufacturing Corp.
Vandermolen Export Co.

TOP DRESSERS

Ezee Flow Division, Avco Corp.
Ryan Equipment Co.
Sod-Master

TRACTORS

Allis-Chalmers Mfg. Co.
Bolens Div.
J. I. Case Co.
Caterpillar Tractor Co.
Cushman Motors
Danuser Machine Works
Deere & Co.
Devere-Locke Div.
Ford Motor Co.
Gravely Tractor
International Harvester Co.
Jacobsen Mfg. Co.
Massey-Ferguson, Inc.
Oliver Corp.
Quick Manufacturing, Inc.
Simplicity Manufacturing Co.
Toro Manufacturing Corp.
Tradewinds, Inc.

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Products

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Reader Reply Card on

Page 10

TREE INJECTORS

Cranco Co.
Panama Pump Co.
Tree-Ject Co.
Vandermolen Export Co.

TREE MOVERS

Ideal Crane
Vermeer Manufacturing Co.

TRIMMING (EDGING) TOOLS

Allegretti & Co.
The Black and Decker Mfg. Co.
Harder Arborist Supply
Jacobsen Manufacturing Co.
Seymour Smith & Son, Inc.
Sod-Master
Toro Manufacturing Corp.

UNDERWATER WEED CUTTER

Vandermolen Export Co.

UNDERWATER WEED RAKE

Green Lawn Laboratories, Inc.

UTILITY VEHICLES

Allis-Chalmers Mfg. Co.
Cushman Motors
International Harvester Co.
Walker Manufacturing Co.
West Point Products Corp.

VACUUMS

Parker Sweeper Co.
Simplicity Manufacturing Co.
Tarrant Manufacturing Co.

WINCH (HOIST)

Hoffco, Inc.

Alphabetical Listing of Suppliers in this Buyer's Guide with their Complete Addresses

A

Ace Pump Corp.,
1650 Channel Ave.,
Memphis, Tenn.
Acme Protection Equipment Co.,
1201 Kalamazoo St., South Haven,
Mich.
Adamson Sprinkler Co.,
229 Barry Ave.,
Los Angeles, Calif.
Aeroil Products Co., 69 Wesley St.,
South Hackensack, N. J.
Airboats, Inc.,
P.O. Box 5306, Denver, Colo.
Allegretti & Co., 7232 Fulton Ave.,
North Hollywood, Calif.
Allis-Chalmers Mfg. Co.,
Milwaukee, Wis.
Amchem Products, Inc., Ambler, Pa.
American Agricultural Chemical
Co., 100 Church St., New York,
N.Y.
American Cyanamid Co., Ag. Chem.
Div., P.O. Box 400, Princeton, N.J.
American-Lincoln Corp., 518 S. St.
Clair St., Toledo, Ohio
American Liquid Fertilizer Co.,
Box 267, Marietta, Ohio
American Oil Co., 910 S. Michigan
Ave., Chicago, Ill.

American Optical Co., Safety Prod.
Div., 14 Mechanic St., South-
bridge, Mass.
American Potash & Chemical Corp.,
3000 W. 6th St., Los Angeles, Calif.
American Smelting & Refining Co.,
120 Broadway, New York, N. Y.
American Talc Co., Chatsworth, Ga.
American Thermo-Ware Co., 12-16
Warren St., New York, N. Y.
American Vermiculite Corp., 527
Madison Ave., New York, N.Y.
Amoco Chemicals Corp., 130 E.
Randolph Dr., Chicago, Ill.
Anderson-Prichard Oil Corp., Lib-
erty Bank, Oklahoma City, Okla.
The Ansul Co., One Stanton St.,
Marinette, Wis.
Aquatic Controls Corp., Hartland,
Wis.
Aquatrols Corp. of America, 217
Atlantic Ave., Camden, N. J.
Ariens Co., 293 Calumet St.,
Brillion, Wis.
Arlo Industries, Inc., Bear Mt.
Parkway at Arlo Lane,
Peekskill, N.Y.
Armour Agricultural Chemical Co.,
P.O. Box 1685, Atlanta, Ga.
Armour Industrial Chemical Co.,
110 N. Wacker Dr., Chicago, Ill.
ARPS Corp., 1771 Wisconsin Ave.,
Box 95, New Holstein, Wis.
Asgrow Seed Co., Milford, Conn.
Asplundh Chipper Co., Hamilton St.,
Chalfont, Pa.
Atlas Chemical Industries, Inc.,
Wilmington 99, Del.
B
John Bacon Corp., State St.,
Gasport, N.Y.

MEET THE NEW KWIK KUT®

CIRCULAR SAW

Light-Weight, Electric and Air Models Now Available.

The fastest pruner ever devised. The only power saw line to offer electrically powered operation. Now—four new light-weight models designed for the precision pruning of apple, peach, pear, cherry and plum trees—for grapevine trimming and hedging. They usually pay for themselves on the first major job!

CUT AT 10,000 RPM

Top, trim, prune and hedge faster and more precisely at a 10,000 rpm cutting speed—twice as fast as by any other mechanical saw! Suckers, branches and small limbs are "flicked off" at a touch of the blade, leaving no scuffed bark, coat hangers, bruised or crushed wood.

SAVE UP TO 50% OF COSTS

The average man can prune 12' to 14' overhead with ease—ALL DAY—safely from the ground. Anyone can use a "KWIK KUT" and equal the work of 3 good men on ladders. Heavy duty models available for citrus and other hardwood pruning.

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All types of Pruning Equipment
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Tree Surgery Equipment since 1931

COMPLETE LINE OF TREE SURGERY
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Fanno Saws

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Buckingham Safety Equipment

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Care of
Trees"



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Baird & McGuire, Inc., South St.,
Holbrook, Mass.
Bartlett Manufacturing Co., 3003 E.
Grand Blvd., Detroit, Mich.
W. M. Bashlin Co., Box 150, Grove
City, Pa.
John Bean Div., P.O. Box 9490,
Lansing, Mich.
John Bean Div., P.O. Box 145,
San Jose, Calif.
Bell Helicopter Co., P. O. Box 482,
Ft. Worth, Texas
Besler, A Div. of C-C Industries,
4053 Harlan St., Emeryville,
Calif.
The Best Fertilizer Co., P.O. Box
4311-Bayshore Annex, Oakland,
Calif.
Bioferm Corp., Wasco, California
The Black & Decker Mfg. Co.,
Joppa Rd., Towson, Maryland
John Blue Co., Inc., Huntsville,
Alabama
The R. H. Bogle Co., P.O. Box 588,
Alexandria, Va.
Boise Cascade Corp., Box 200,
Boise, Idaho
Bolens Div., FMC Corp., 215 S. Park,
Port Washington, Wis.
Bowie Machine Works, Inc., P.O.
Box 630, Bowie, Texas
Braun-Knecht-Heimann Co., 1400
16th St., San Francisco, Calif.
Brayton Chemicals, Inc.,
P.O. Box 56, Burlington, Iowa
Brettrager Manufacturing,
5410 East St., Saginaw, Mich.
Bridgeport Implement Works, Inc.,
1483 Stratford Ave., Stratford,
Conn.
Brillion Iron Works, Inc.,
200 Park Ave., Brillion, Wis.
**Brooks Products Div., Tool Steel Gear
& Pinion Co.**, 211 Township Ave.,
Cincinnati, Ohio
The Broyhill Co., N. Market Square,
Dakota City, Nebr.
Buckner Industries, Inc.,
P.O. Box 232, Fresno, Calif.
Buffalo Turbine Agricultural Equip. Co.,
Industrial St., Gowanda, N. Y.

C

Samuel Cabot, Inc., 246 Summer St.,
Boston, Mass.
J. I. Case Co., Racine, Wis.
Caterpillar Tractor Co., Peoria, Ill.
Central Solvents & Chemicals Co.,
2540 W. Flournoy St., Chicago, Ill.
Century Engineering Corp.,
221-4th Ave., Cedar Rapids, Iowa
Cessna Aircraft Co., Wichita, Kansas
Champion Sprayer Co., 6509 Heintz
Ave., Detroit, Mich.
**Chanderlin Div., Lofts Pedigreed Seed
Co.**, Chimney Rock Rd., Bound
Brook, N.J.
R. E. Chapin Mfg. Co., Inc.,
29 Liberty St., Batavia, N.Y.
Chapman Chemical Co., Box 3158,
416 E. Brooks Rd., Memphis, Tenn.
Charleston Rubber Co., Stark
Industrial Park, Charleston, S.C.
Chemagro Corp., P.O. Box 4913,
Hawthorn Rd., Kansas City, Mo.
Chemley Products Co., 5744 N.
Western Ave., Chicago, Ill.
Chemwest, Inc., 600 S. 4th St.,
Richmond, Calif.
Chevron Chemical Co., Ortho Div.,
200 Bush St., San Francisco, Calif.
Chipman Chemical Co., Inc., 1801
Murchison Dr., Burlingame, Calif.
W. A. Cleary Corp., P.O. Box 749,
New Brunswick, N.J.
Climax Molybdenum Co., Div. of
American Metal Climax, Inc.,
1270 Ave. of Americas, New York,
N.Y.

Cloro-Spray Corp., 2215 N.
American St., Phila., Pa.
Colloidal Products Corp.,
P.O. Box 667, Sausalito, Calif.
Columbia Nitrogen,
Box 1493, Augusta, Ga.
Columbia Quarry Co., 1007
Washington Ave., St. Louis, Mo.
Commercial Minerals Co.,
6898 Smith Ave., Newark, Calif.
Commercial Solvents Corp.,
260 Madison Ave., New York, N.Y.
Contree Sales, P.O. Box 129,
Columbus, Wis.
Cranco Co., 7 Clermont Ave.,
Trenton, N.J.
**Cushman Motors, Div. of Out-
board Marine Corp.**, Lincoln,
Nebraska
Custom Spray Equipment Corp.,
R.D. #2, Binghamton, N. Y.
The Cyclone Seeder Co., Inc.,
Urbana, Indiana

D

Danuser Machine Works,
P.O. Box 270, Claremore, Okla.
Deere & Co., John Deere Equipment,
John Deere Rd., Moline, Ill.
John Deere Chemical Co.,
P.O. Box 1736, Tulsa, Okla.
Delavan Manufacturing Co.,
811 4th St., W. Des Moines, Iowa
Destruxol Corp., Ltd., P.O. Box 265,
1450 W. 228 St., Torrance, Calif.
Devere-Locke Div., Locke Mfg. Co.,
1220 Washington Ave., Racine,
Wis.
DeVilbiss Co., 300 Phillips Ave.,
Toledo, Ohio
Diamond Alkali Co., 300 Union Com-
merce Bldg., Cleveland, Ohio
J. J. Dill Co., P.O. Box 788, Kalama-
zoo, Mich.
Doggett Fison Company,
Purcell Court, Moonachie, N.J.
The Dow Chemical Co.,
P.O. Box 512, Midland, Mich.
E. I. duPont de Nemours & Co., Inc.,
Industrial & Biochemical Div.,
Wilmington, Delaware

E

Eagle-Picher Co., American Bldg.,
Cincinnati, Ohio
The Edwards Laboratory,
P.O. Box 318, Norwalk, Ohio
Elanco Products Company, 640 So.
Alabama, Indianapolis, Ind.
The Electric Storage Battery Co.,
Willson Prod. Div., 2nd and
Washington Sts., Reading, Pa.
Emery Industries, Inc., 8733 S.
Dice Rd., Santa Fe Springs, Calif.
Ezee Flow Div., Avco Corp.,
3428 N. Harlem Ave., Chicago, Ill.
E-Z Flo Chemical Co.,
2011 N. High St., Lansing, Mich.

F

Faesv & Besthoff, Inc.
143 River Rd., Edgewater, N.J.
Fairmont Hydraulics,
415 N. Main St., Fairmont, Minn.
Farmrite Sprayer, Inc.,
644 E. Lake St., Lake Mills, Wis.
Finn Equipment Co., 2525 Duck
Creek Rd., Cincinnati, Ohio
Fitchburg Engineering Corp.,
Fitchburg, Mass.
Florida Agr. Supply Co., Div.
Wilson & Toomer Fert. Co., 1611
Talleyrand Ave., Jacksonville, Fla.
Floridin Company,
375 Park Ave., New York, N.Y.

**Ford Motor Company, Tractor &
Implement Operations**, 2500 E.
Maple, Birmingham, Mich.
Friend Mfg. Corp., Prospect St.,
Gasport, N.Y.

G

Gabriel Chemicals, Ltd.,
60 E. 42 St., New York, N.Y.
Gandy Company, P.O. Box 528,
Owatonna, Minn.
Geigy Agricultural Chemicals Corp.,
Saw Mill River Rd., Ardsley, N.Y.
General Aniline & Film Corp.,
140 W. 51 St., New York, N.Y.
General Chemical Div., ACC,
P.O. Box 70, Morristown, N.J.
Glendale Optical Co., Inc., 600 W.
Merrick Rd., Valley Stream, N. Y.
Goodall Manufacturing Corp.,
1205 E. Sanborn St., Winona,
Minn.
Gotcher Eng. & Mfg. Co.,
Box 670, Clarksdale, Miss.
**W. R. Grace & Co., Davison Chem-
ical Div.**, 101 N. Charles,
Baltimore, Md.
John H. Graham & Co., Inc.,
105 Duane St., New York, N.Y.
**Gravelly Tractor, Div. Studebaker
Corp.**, 1 Gravelly Lane,
Dunbar, W. Va.
The Gregg Company, P.O. Box 149,
Riverton, N.J.
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Nurserymen Hold Convention, Trade Exhibition, Jan. 3-6

With an aim to make the 1966 convention and trade exhibit the biggest ever held by nurserymen in the Eastern United States, the New York State Nurserymen's Assn., and the Eastern Regional Nurserymen's Assn., have joined to achieve this goal during their Jan. 3-6 show.

Participating will be representatives of the garden center, landscaping, and garden supply segments of the industry.

Headquarters will be the Concord Hotel located in Monticello, N. Y., in the Catskill Mountains, near Lake Kiamesha.

Complete details about the convention and trade exhibit may be obtained by writing to John A. Richards, Executive Secretary, New York State Nurserymen's Assn., Inc., 415 Lexington Ave., New York, N. Y.

WSA to Attract Top Weed Men At St. Louis Meet, Feb. 8-11

How peoples of the world are working to combat weeds will be related by Dr. A. S. Crafts when he addresses an expected attendance of 800 persons at the annual Weed Society of America meeting, in St. Louis, Mo., Feb. 8-11, at the Sheraton-Jefferson Hotel.

Dr. Crafts, one of the nation's leading authorities on weed control, and former head of the Botany Department, University of California, has just completed a study of weed research and control practices around the world. Crafts will give highlights of his experience at the annual banquet of the Society.

Society president G. F. Warren, of Purdue University, Lafayette, Ind., says reservations already indicate about 800 persons will be present for the four-day meeting. They will represent chemical companies, public service organizations, public health and regulatory agencies, equipment manufacturers and other groups.

Dr. W. R. Furtick of Oregon State University, Corvallis, is program chairman. Drs. D. D. Hemphill and O. H. Fletchall, are handling local arrangements.

Know Your Species

Snow-On-The-Mountain

(*Euphorbia marginata*)



Snow-on-the-mountain is also known locally as white-margined spurge. It is an annual and reproduces by seed only. It may be found along roadsides, in pastures, and waste places. It thrives in dry soil. In some areas it is cultivated as an ornamental. This plant is poisonous to livestock, and its milky sap may cause skin irritation on sensitive individuals.

Erect stems (1) grow from 1 to 3 feet tall. The stem has fine hairs on the upper part. At the ends of stems are clusters of white-margined leaves, giving the appearance of a flower. Just above the whorl of leaves is a small cluster of flowers (2) that have no true petals, but 5 white appendages substitute for petals.

When flowers mature, hairy, three-lobed seed pods (2) appear bearing three seeds. They are elevated on a small, slender stalk. The seeds (3) are rough, light gray to brown with a dark gray line on one side.

Leaves are alternate on the stem, except just below flower clusters where they are whorled about the stem. Leaves are ovate to oblong. The edges are smooth. Leaves are bright green, except for margins which are white. They are 1 to 3 inches long.

Roots of snow-on-the-mountain are slender taproots.

This plant is susceptible to 2,4-D. Local infestations may be removed by mowing when plants are blooming or by pulling up the roots.

Prepared in cooperation with Crops Research Division, Agricultural Research Service,
United States Department of Agriculture, Beltsville, Maryland.

(DRAWING FROM NORTH CENTRAL REGIONAL PUBLICATION NO. 36, USDA EXTENSION SERVICE)

Southern Turf's 300 Acres Produce Sod for Golf Courses As Far Away As Japan, India

By PAULINE T. STEPHENS

Operation of a successful turf-grass business is divided into three parts, as E. Ray Jensen, president and operator of the Southern Turf Nurseries in Tifton, Ga., sees it: (1) know your product; (2) honesty; and (3) hard work.

"All are equally important," according to Jensen, who has been in full-time production of turf grasses for the past 10 years, and in part-time production five years before that time.

On these three concepts he has built a business which reaches into the golf course and recreation fields, and other enterprises in the far parts of the United States, and as far away as India and Japan. He has built, from a meager beginning, a production expanse of 300 acres, and has acquired machinery valued at \$145,000, some of which he designed himself and had built to order. Jensen also has a twin-engine Comanche plane, which he pilots himself. Most of his more than 100,000 miles a year of travel are by plane.

Southern Turf Nurseries is a partnership between Ray Jensen



Raking up old turf on fairway, Southern Turf crewman readies soil for replanting new grass.

and his two daughters, Mrs. Larry Wheeler (Mary) and Anna Jensen. Ray is president and his wife helps out in the office at special times.

President Jensen has an excellent background for turf planting and growing. Before he was a turf man he was a soil scientist. Born on a small farm at Fountain Green, Utah, he earned a degree in soils and agronomy at Utah State University in 1940.

In 1941 he began work with the Soil Conservation Service in Washington, D. C. as agricultural census and land appraiser, a post he held a year. Then he trekked to Mississippi and spent a year and a half with the SCS before going to Perry, Ga., as area scientist, transferring to Tifton in 1946 in a similar position.

In 1951, while with the SCS, Jensen started in the grass business in a limited way, beginning with a few leased acres on which he planted centipede and hybrid bermudagrasses that had been developed at the Coastal Plain Experiment Station in Tifton, Ga. Working with him in this first production was Dr. B. P. Robinson, who at that time was

a research scientist at the Coastal Plain Experiment Station.

In 1951, Jensen produced the first Tifton 57 (Tiflawn), a hybrid bermuda, that had been grown away from the Coastal Plain Experiment Station, where it was developed.

Began With 60 Acres

In 1955 Jensen left the Soil Conservation Service and went into full-time production of centipede and bermudagrasses. He planted about 40 acres of sod in Brooks County near the Florida line, and 20 acres in Tift County near Omega (in middle south Georgia) on land he purchased.

Now he has 1,400 acres of land, most of it in Tift County near Omega, where 260 acres are in sod. In addition there are 40 acres in sod in Brooks County.

Of the total acreage of sod, about 100 acres are devoted to centipede, most of which is used to produce seed for combining. The combined seed is sold to commercial distributors. The other 200 acres are in hybrid bermudas.

Plantings of hybrid bermudas are as follows: 30% Tifton 419 (Tifway); 20% Tifton 328 (Tif-



Ray Jensen, company president, examines Tifton Dwarf hybrid bermuda on test plot at rear of Tifton, Ga. farm.

green), and 10% Tifton 57 (Tiflawn); 10% Tifton Dwarf; and 30% Ormond bermuda.

The three first ones listed were developed at the Coastal Plain Experiment Station. Tifton Dwarf is a dark green bermuda with stump leaf which grew as a mutation from 328 Tifton bermuda at Glen Arvin Country Club at Thomasville, Ga. Ormond bermuda came out of Florida, and Jensen was the first person to grow it for certification. He obtained it from the University of Florida.

Uses One Room As Lab

Ray Jensen has one room of his office at 1620 North Park Ave. in Tifton which he uses as a laboratory, and also has the part-time assistance of two scientists who have experimented with soil mixtures for greens, fairways, and other turf.

Based on his knowledge of the grasses and the climatic and soil conditions under which each grows, Jensen knows where to plant the various types of grasses.

Tifton Dwarf and Tifton 328 are planted on golf greens, Tif-

ton 419 and Ormond on fairways; and 419 on tees. When there is a call for a grass for as far north as Indiana and Missouri (he recently completed a golf course in Jefferson City, Mo.), Southern Turf uses Tifton 328 and Tifton 419 because they can better withstand the rigors of the winter weather in those areas.

Tifton 419 and 328 are so versatile that they can be grown in many places, Jensen believes. He has planted them successfully in Puerto Rico. Last year he air-shipped enough stolons of Tifton Dwarf to plant a large nursery for a golf course in Japan. He flew over to Japan by commercial airline to lecture to golf course superintendents and to demonstrate planting methods for them. He shipped the planting machinery over there about a month before he went himself.

Sells 800,000 Sq. Yds./Year

Southern Turf Nurseries estimates very roughly that it sells about 800,000 square yards, or bushels, of turf a year.

It takes out two crops a year from most of its sod. The har-

vester Jensen uses is so designed as to leave enough root stock to re-establish the field in new turf. Since bermudas grow very fast in this Georgia climate, the sod is ready for another harvest within 8 to 14 weeks.

Jensen sells about 85% of his grass to golf courses, 10% for residential use, 4% for athletic fields, and 1% for miscellaneous uses. He does some of his projects on a bid basis, but most of them are negotiated.

Sells, Consults, Plants

This Tifton sod grower provides three types of services. He (1) furnishes and plants certified seed, and provides consulting service; (2) furnishes and plants certified grass (without consulting service); and (3) provides planting stock.

Over the years Jensen has served as consultant to 30 or more turf growers, mostly golf clubs. He usually flies to these projects about once every eight weeks, over a period of one to two years.

He is consultant for one large hotel golf course in Puerto Rico, and on one occasion flew to Ha-

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waii to advise on planting golf courses for Laurance Rockefeller.

He has air-shipped grass to many foreign countries, including Japan, India, Italy, Malaya, Israel, South America, Spain, Ethiopia, and others.

Most of the Southern Turf's sales are directly to customers. Only a small portion is sold through distributors, except in the case of centipede seed. Since centipedegrass is strictly a lawn

truck body in a heap, and, unless the weather is excessively dry, it is not watered until after it is planted.

"Our workers try to drive to a job overnight," Jensen explained. "However, if it is too far for overnight, they simply drive in the daytime too and the grass crusts over, but it keeps well in the mass."

While Southern Turf always plants grass while it is green and fresh, a mass of grass will keep

uses a new self-feeding fully automatic machine, which has a hopper capacity of 300 bushels. This size makes refills infrequent. It is self-feeding from a feeding tray and rotating cylinder, scatters sprigs uniformly (eliminating broadcasting by hand), and leaves a smooth surface with track marks only at turns. It cuts the sprigs into the soil and rolls them down. With this machine an operator can put out 15 acres a day.

The next best machine to this is the "Tifton Turf Planter," which costs about \$450, and is made in Valdosta, Ga. for this sod farmer. A tobacco planter, and other new planting machines are also used.

200 Bushels of Sprigs per Acre

Jensen believes in planting heavily for hybrid bermudas. He uses 200 to 300 bushels of sprigs to the acre. Heavy planting gives a good turf in a shorter time, he finds. The owner of the turf prepares the land before the grass arrives.

Southern Turf Nurseries has a wide variety of implements in addition to the harvesting and planting machines. These include five soil shredders, four sod cutters, one vertical mower, two flail mowers, four rotary mowers, 12 spriggers, one backhoe, four power sprayers, 12 backpack sprayers, four spreader-seeders, 12 tractors, two materials handling machines, 12 utility carts and related vehicles, two combines (to combine centipede seed), and irrigation equipment designed to furnish 2,600 gallons of water per minute. There are also five large trucks and five pickup trucks.

Turf Nurseries "keeps right after" weeds on turf, using about \$200 a month in weedkillers, and \$200 in insecticides. It spends about \$2,000 a month for fertilizers.

How STN Gets Business

Ray Jensen finds good markets for his turf mostly through appearances at golf conventions, turf conferences, distribution of his newsletters, and by "word of mouth."

"There is no better advertising on earth than satisfied customers," he proclaimed.

Other sources are through articles he writes for technical magazines.

He publishes a quarterly four-



Weed control plots at Southern Turf Nurseries help determine most effective herbicides to use on its farm. Company spends over \$2,400 on weedkillers each year; \$24,000 for fertilizers.

grass, and since Southern Turf minors in lawn sods, centipede sod is a minor part of total sales. However, it produces about five tons of centipede seed in the fall, selling it through distributors.

Jensen delivers stolons to customers by truck, whether he plants the grass, or simply sells the plants. Of course sprigs are air-shipped to foreign countries.

The stolons are dug with a specially designed harvesting machine which Mr. Jensen himself collaborated in designing and had made at Tifton Machine Works in Tifton, Ga. The only other machine like it belongs to Patten Seed Company of Lakeland, Ga.

This machine, which is attached to an 85-horsepower tractor, cuts under the turf, shreds it, and blows it through a long pipe into the dump-body of a truck.

"We can tell how many bushels are in the truck by measuring the amount dug in the field," Jensen said.

The grass is piled into the

alive for 5 to 10 days, Mr. Jensen pointed out.

When solid sod is sold, which is seldom, the firm uses a commercial truck and loads the sod in layers.

Uses On-the-Spot Labor

Jensen has nine planting superintendents who drive the trucks with the grass to the job. They never carry labor with them, but find men to work wherever they go to set out the stolons. Southern Turf often has seven or eight jobs going at one time, and sometimes has 100 laborers at work, along with the superintendents. The superintendents use from one to 15 laborers on a job, depending on the size of the area to be planted.

"Fifteen workers can usually plant 18 greens in one to two days, or 18 fairways in two to three weeks," Jensen related.

Planting machinery is shipped on another truck separate from the truck which carries the grass stolons.

For planting, Southern Turf

page newsletter called, "Southern Turf Newsletter," which he mails to golf course superintendents, recreation representatives, and others. He has also written a new publication on Tifton Dwarf.

The Newsletter not only keeps turf operators who are customers or prospective customers informed, but it helps to bring in business.

Southern Turf's president believes the turf business is on the

uproad. He estimated that there are now about 100 turf grass companies in the nation to supply the demand, which is growing with the trend toward more leisure and more recreation.

He sees this trend in the United States and in foreign countries as well. Japan, as an example, is a country in which golf courses are increasing steadily, and he believes this is true of other countries as well.

Northeastern Weed Control Conference Observes 20th Anniversary at New York Meeting, Jan. 5-7

In an address titled, "Our Weed Control Conference Over the Last 20 Years," Dr. Charles Hovey, tenth president of the Northeastern Weed Control Conference, will review the achievements of the organization when he addresses the meeting at Hotel Astor in New York City, Jan. 5-7.

While the meeting will spotlight conference accomplishments over the past 20 years, delegates will be treated to dozens of sectional papers reporting on '65 research projects.

In a talk by Dr. W. R. Furtick of Oregon State University, entitled "Two-Season, Two-Hemisphere Weed Research," weed problems on the southern half of the globe will be compared with those in the U.S.A.

Arborist Richard E. Abbot of the Ohio Power Co., will offer his experiences in a talk, "Growth Retardants With Emphasis on Inhibiting Regrowth of Trimmed Trees." For those interested in sales and education a representative from the East-

Ohio Short Course Slated

Arborists, turf management specialists, landscape contractors, garden center operators, and nurserymen will gather at the Sheraton-Columbus Hotel, Columbus, Ohio, Jan. 24-27, to attend a four-day short course. Sponsor is the Ohio Nurserymen's Assn.

Also scheduled to take place simultaneously is the 59th annual winter meeting of the association.

man Kodak Co. will tell how to prepare slides and charts.

Total scope of next month's conference covers horticultural crops, agronomic crops, industrial weed and brush control, public health, aquatics, turf-grass, conservation and forestry; ecology, physiology and soils, and new products from industry.

For more detailed information about this meeting write to Dr. John A. Meade, Secretary-Treasurer, Northeastern Weed Control Conference, Agronomy Department, University of Maryland, College Park, Md. 20742.

1200 Expected at Illinois Spray School, Jan. 26-27

Advance information from the College of Agriculture, University of Illinois, Urbana, indicates that an attendance in excess of 1200 persons is anticipated for the 18th Annual Custom Spray Operators' Training School, Jan. 26-27. It will be held in the Illini Building.

According to H. B. "Pete" Petty, program chairman, over 1,000 attended last year's sessions. Program for the upcoming conference promises to be of even greater interest with the most current information based on latest tests, studies and experiments.

Details on the forthcoming school may be obtained by writing to H. B. Petty, Chairman, Custom Spray Operators' Training School, College of Agriculture, University of Illinois, Urbana, Ill.

Meeting Dates



Connecticut Nurserymen's Assn. Annual Meeting, Hotel Statler-Hilton, Hartford, Dec. 30.

North Carolina Nurserymen's Assn. Annual Meeting, North Carolina State University, Raleigh, Jan. 3-4, 1966.

Western Association of Nurserymen Annual Convention, Hotel Continental, Kansas City, Mo., Jan. 3-5.

Garden Living Industries of the Eastern United States, Convention and Trade Exposition, Concord Hotel, Monticello, N. Y., Jan. 3-6.

Rutgers Winter Turf Course, College of Agriculture, New Brunswick, N. J., Jan. 4-Mar. 11.

Northeastern Weed Control Conference, The Hotel Astor, New York, Jan. 5-7.

Indiana Arborist's Assn., Annual Midwinter Conference, Claypool Hotel, Indianapolis, Jan. 5-7.

Iowa Nurserymen's Assn. Annual Convention, Hotel Roosevelt, Cedar Rapids, Jan. 7-9.

National Landscape Nurserymen's Assn. Convention, LaSalle Hotel, Chicago, Ill., Jan. 8-9.

North Carolina State Annual Pesticide School, North Carolina State University, Raleigh, Jan. 10-11.

First Annual Pennsylvania Shade Tree Symposium, Nittany Lion Inn, University Park, Jan. 11-13.

8th Annual Agricultural Pesticide Conference, Purdue University, Lafayette, Ind., Jan. 17-18.

Rutgers Lawn and Utility Turf Short Course, College of Agriculture, New Brunswick, N. J., Jan. 17-19.

Maryland Nurserymen's Assn. Annual Meeting, Washingtonian Country Club, Gaithersburg, Jan. 18-19.

18th Annual California Weed Conference, Sainte Claire Hotel, San Jose, Jan. 18-20.

Southern Weed Conference, Hotel Robert Meyer, Jacksonville, Fla., Jan. 18-20.

Rutgers Golf and Fine Turf Short Course, College of Agriculture, New Brunswick, N.J. Jan. 20-21.

Rocky Mountain Turfgrass Conference, Colorado State University, Fort Collins, Jan. 26-27.

Broad Scope of Turf Knowledge Brought Into Focus as 2500 ASA, CSSA and SSSA Members Meet for 57th Time

Plant analysis, soil tests, pesticide effects on soil and water quality, soil classification, and land use all were topics of reports given during 80 sessions at the 5-day, annual scientific conclave of the American Society of Agronomy held in Columbus, Ohio, Oct. 31 to Nov. 5. Members of the Crop Science Society of America and the Soil Science Society of America joined the ASA at the triple meet. Nearly 2,500 scientists gathered to hear latest factual reports numbering over 500 and representing the work of 1,000 authors.

Nutrients Affect Plant Disease Resistance

"Calcium-deficient nutrition produced plants with significantly heightened disease susceptibility independent of other nutrient elements, soil, air temperature, season, or variety," Dr. Houston B. Couch, Virginia Polytechnic Institute, Blacksburg, Va., revealed. He explained that in studies involving interactions of various environmental factors with different nutrient regimes, nitrogen nutrition also influenced disease susceptibility. Unlike calcium, however, its influence was linked with other factors, both inherited and environmental. Highland and Seaside bentgrass, Rainer and Pennlawn creeping red fescue, and eight varieties of Kentucky bluegrass were studied to test susceptibility to fungal parasites.

Straw Mulches Best For Roadside Turf

During a joint CSSA and ASA "Roadside Turf Management" session, Dr. James Beard, Michigan State University, E. Lansing, described tests where eight mulch treatments were compared on slopes of newly constructed highway rights-of-way for turf establishment and erosion control. "Straw alone and straw with asphalt and with Mulchnet were the best. Mulches were measured by visual turf

quality ratings, density counts, and number of erosion rills." The key advantage of thick straw mulch is the favorable climate it produced in terms of soil moisture and relative humidity.

Dr. O. N. Andrews, University of Illinois, Urbana concluded, "Alfalfa and fescue are best adapted to establish rapidly along roadsides of species found in southern Illinois. More than 100 species were tested and evaluated as roadside turfgrasses."

Low N-P-K Rates of Bentgrass Greens Tested

"During one year, 224 lbs. of nitrogen (N), 19 lbs. of phosphorus (P), and 137 lbs. of potash (K) were recovered from bentgrass clippings removed from one acre," Dr. Roy L. Goss, Washington State University, Pullman, Wash. reported. Clippings were collected from bentgrass turf for one year to determine how much N, P, and K were removed in the cut turf. Plots had received 0, 522, and 870 lbs. of N; 0 and 77 lbs. of P; and 0, 145, and 290 lbs. of K per acre. "From the amount recovered, the higher application rates of both N and K were somewhat excessive, and lower rates were better utilized without sacrificing quality," Goss added.

Phosphorus Alters Herbicide Effect

Effects of seven different phosphorus levels on herbicide control of *poa annua* were discussed by Felix V. Juska, Agriculture Research Service, U.S. Dept. of Agriculture, Beltsville, Md. "Five herbicides were evaluated at two planting dates, 48 days apart. Trifluralin gave complete control at both planting dates, while Zytron was second best. At both dates, phosphorus reduced the effectiveness of calcium arsenate. Plants that survived Zytron and Dacthal treatments were more vigorous at high phosphorus levels.

The number of seedlings that survived after Betasan, Zytron, and Dacthal treatments increased slightly when phosphorus was added at the second planting date."

Researchers and Educators Awarded

Three of the four highest awards made by the ASA for superior contributions to agronomic research, education, and service were received by members of the Agronomy Department at the Univ. of Ill.: Dr. John B. Hanson (Crop Science Award); Dr. Arnold Klute (Soil Science Award); and Dr. Samuel R. Aldrich (Agronomic Education Award). Dr. Willard H. Garman of the National Plant Food Institute received the Agronomic Service Award. These outstanding members were honored at a special awards banquet in the Sheraton-Columbus Hotel, Nov. 3.

1966 Officers Announced

New CSSA President is Dr. Jack R. Harlan, Agronomy Dept., Oklahoma State University, Stillwater, and President-Elect Angus A. Hanson is with the Forage Crops Div., ARS, USDA, Beltsville, Md. Both will guide the activities of the 2,250-member Society during the next year and will arrange for its 1966 annual meeting at Stillwater, Okla., Aug. 21 to 26.

Dr. William P. Martin, Professor and Head of Soil Science Dept., University of Minnesota, Minneapolis, is the newly elected president of the nearly 3,150-member Soil Science Society of America. He will direct the Society's activities for the next year and also arrange for the 1966 meet in Stillwater.

Proceedings of the Oct. 31 to Nov. 5, 1965 tri-association conclave, *Agronomy Abstracts*, are available for one dollar from American Society of Agronomy headquarters, 677 S. Segoe Road, Madison, Wis. 53711.

Classifieds

When answering ads where box number only is given, please address as follows: Box number, c/o Weeds Trees and Turf, 1900 Euclid Avenue, Cleveland, Ohio 44115.

Rates: "Position Wanted" 5c per word, minimum \$2.00. All other classifications, 10c per word, minimum \$2.00. All classified ads must be received by Publisher the 10th of the month preceding publication date and be accompanied by cash or money order covering full payment.

HELP WANTED

LAWN CONTROL salesman, supervisor and serviceman. If you are experienced in any of the above, then you are eligible for a position with the fastest growing exterminating company in South Florida. Send a résumé including background, education and salary history to Mr. S. A. Tendrich, National Exterminators, Inc., 2990 N.W. 40th St., Miami, Fla. 33142. All applications will be thoroughly reviewed and acknowledged.

WEED CONTROL supervisor needed. Well-established company working in New York and New England States on roadside, utility and industrial spraying. Give experience, education and salary desired in reply to Box 11, Weeds Trees and Turf magazine.

AMBITIOUS sales/serviceman, experienced in turf, weed and ornamental pest control. Excellent opportunity for the right man. Reply: Hydrex Pest Control Co. of California, 3073 Long Beach Blvd., Long Beach, Calif. 90807. Phone: 213 + 426-7644.

FOR SALE

1—Tree spraying rig, 60-gpm, 500 gal., Wisconsin air-cooled engine, \$1,700. 1—Tree spraying rig, 37-gpm, 500 gal. LeRoy engine, \$1,500. 1—Lawn spraying rig, 275 gal., 15-gpm, on wheels, \$300. 6—Hand weed booms, for lawn weed spraying, aluminum, on wheels, minimize drift, quick hand shut-off @ \$45.00. 4—Lufkin measuring wheels, professional accordion-type @ \$35. 15 5-gal. cans All-Wet wetting agent @ \$45.00. Write Box 14, Weeds Trees and Turf magazine.

TREE SPRAYING Business for sale. Long Island, New York. Write Box 15, Weeds Trees and Turf magazine.

How to Sell and Lose Weed Control Jobs

(from page 9)

ing prospective buyers will show the difference between a reputable businessman and a fast-buck artist. Every job which is underpriced will come back to haunt the whole industry.

Businessmen who want to stay in business will offer nothing but service perfection. If service is anything less than perfect, customers lose faith in weed control

altogether, and in the end, no one gets the business.

Last I sound as if I'm against competition, let me say I'm not. Competition which keeps me on my toes is great; it keeps me alert to new products and techniques. Competition which is less than ethical will brand the industry with a bad name, because customers will sour on our service which is truly a real boon to industrial maintenance.

One Engine Provides Drive For 11 Solo Power Tools

A three-horsepower engine that weighs 11 pounds, said to be easily removed from a rotary mower and attached to a cultivator or any one of 11 implements all powered with the same engine, is being introduced by Solo Industries, Inc., Woodside, N. Y.

Designed for the man who needs a variety of machines at a minimum investment, Solo has developed a rotary mower, chain saw, water pump, electrical generator, cultivator, lawn sweeper, circular saw, snow thrower, air compressor, high-pressure piston-type pump and an outboard motor, all of which can be powered with the same engine.

Engine requires but an easy turn of the hands to attach to or detach it from any of the above implements, Solo claims. The engine reportedly operates effi-

Rohde Heads New Kansas Christmas Tree Association

John T. Rohde, of Edwardsville, was elected president of the newly formed Kansas Christmas Tree Association, during a meeting held at Kansas State University, Manhattan, recently. Also elected were D. C. Wesche, Manhattan, vice president; and John P. Slusher, Manhattan, secretary-treasurer. They also serve as directors.

Other directors of the new association are Cecil Delp, St. John; Harold Gallaher, Manhattan; Dr. Ralph Herrman, Seneca; L. B. Stants, Abilene; Ira Wheeler, Manhattan; and Ken McGinness, Olathe.

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ciently at maximum power in any position.

With several implements powered by one engine, a substantial saving may be realized since engines need not be purchased for each unit. Another advantage is that an extra engine would eliminate downtime that is possible with fixed-engine equipment. An extra engine can easily keep all compatible equipment in operation if one needs to be serviced.

Complete details on the master engine will be sent on request from Solo Industries, Inc., P. O. Box 128, Woodside, N. Y. 11377.

Michigan Enacts Compact Law

A new Pest Compact Law passed by the 1965 Michigan Legislature, allows the Michigan Department of Agriculture to join forces with other states to fight plant pests.

Under the provisions of Public Law N. 187 of 1965, Michigan will enter into a compact when four or more other states have passed similar legislation.

Nematode Diseases, Weed Control on Program of North Carolina U. Pesticide School, Jan. 10-11

A plant pathology session is to be included in North Carolina State University's Pesticide School, being held Jan. 10-11 on campus in Raleigh.

To set the tempo of the class and focus attention on the growing importance of the use of pesticides in today's society, the university staff has engaged Dr. Nyle Brady, to address the school; his subject will be "Pesticides In Our Environment." Dr. Brady is director of research with New York State College, Cornell University. He has also served two years in Washington, D. C., as director of science and education with the United States Department of Agriculture.

Lead-off speaker in the pathology session will be D. E. Ellis who will discuss "Origin and Purpose of Pilot Project on Nematode Assay Service." Several other experts will emphasize control procedures for this blight.

According to Howard R. Garriss, Extension Professor in Charge, Plant Pathology Extension, and Chairman of the 1966 Pesticide School, it is impossible to cover all aspects concerned

Green Lawn Expands

New expansion of facilities at Green Lawn Laboratories now makes it possible for this formulator and packager of private label products to economically service the needs of small independent dealers and distributors.

Company president, Donald J. Arenberg, announced recently his firm is now fully equipped to handle formulating and packaging of a full line of lawn and garden products. Included are insecticides, fungicides, herbicides, fertilizers, selective weed-killers, soil conditioners, etc.

Formulations can be adjusted, Arenberg claims, to meet special product needs of particular areas.

For further information, write Green Lawn Laboratories at 4844 Main St., Skokie, Ill., 60076.

with chemical and other methods of plant disease control. It is planned to emphasize fungus diseases and fungicides in the 1967 school.

Of special note is the subject by J. B. Weber: "General Considerations of Herbicide Residues in Soils," which should add more light on a question that has attained considerable importance.

Those in the sod industry have not been overlooked by the university staff. Dr. G. C. Klingman reports on "Status of Sod Planting—Research", and C. K. Martin will further amplify the subject with sod demonstrations.

Other categories of the school include discussions of entomology, zoology (wildlife) and agricultural engineering.

Registration is scheduled for 8:15 am, Monday, Jan. 10, Union Bldg. lobby.

More Mechanization Up for Study at Calif. Conference

An unreliable labor supply, which is turning the contract applicator's attention toward more mechanization, will be a major topic of discussion when weed specialists meet for the 18th Annual California Weed Conference in San Jose, Calif., January 18-20, at the Sainte Claire Hotel.

Industrial weed control specialists will be particularly interested in a report on new methods developed by the California aircraft industry.

Also scheduled for review before the assembly are the many problems associated with, or that have been created by, Federal and local regulations. These will be aired for general consideration and solution.

To accommodate San Francisco Bay area nurserymen and landscape architects, a panel will discuss weed control on ornamentals and ground-covers.

More details will appear in next month's issue of *Weeds Trees and Turf*.

—Trimmings—

Between Seasons Income. Ray Leary, president of Arrow Tree Spraying Service in Commack, Long Island, N.Y., has found a way to earn extra income in between the spring and fall spraying seasons. He rents thatching machines, aerators, lawn roto-tillers, etc. Wonder how long it'll be before he'll be using this equipment himself by expanding his own services?

* * *

Iowa Nurserymen in Washington. Nursery firms in southwest Iowa recently presented an oil painting to Congressman John R. Hansen, of the State's 7th District, in a ceremony on the Capitol steps in Washington, D. C. Bob Lederer, executive associate of the American Assn. of Nurserymen, made the presentation. The painting depicts a typical southwest Iowa nursery farm, and Congressman Hansen now has it hanging in his offices where all visitors can become aware of the industry's importance in his District. Guess so! It employs over 1500 people and has a better than \$3 million payroll.

* * *

Figure Skating Hort Man. New face on the Purdue campus is that of James E. Browning who's just joined the university's department of horticulture. A native of Indianapolis, the Michigan State graduate is a figure skating champion. Jim will assist in the direction of the school's new four-year program in landscape architecture. He'll have plenty of thick ice to skate around on in Lafayette this winter. We know, we've slipped our way, and frozen our ears many a time on the Hoosier's campus during those "delightful?" below-zero months at P.U. conferences.

* * *

No Stranger. Dick Morrow, field representative for Cal-Turf, large turf-grass growers in Camarillo, Calif., tells us everyone seemed to know him on a recent eastern trip he made. Even strangers. He wrote us: "The wide impact of your publication in the turf industry was recently brought home to our group on a tour of turf installations in the East, and when we attended the Florida Turf Conference. I wish I could tell you how many times people mentioned reading about our Field Days in *Weeds Trees and Turf*, as we would introduce ourselves. Let me express our deep appreciation for the fine exposure to a young industry in the West." Thank you, Dick, for letting us know how thoroughly WTT is read from coast to coast.

* * *

Problems the Same All Over. Have just been reading of opinion differences operators are having up in Canada. They raise the question about just how much a treeman or sod grower or nurseryman or anyone else who plants something for his customer is expected to guarantee its future health when they have no control over watering, weather, etc. They wonder at the logic of guaranteeing something which is completely in the hands of nature and the consumer. Sound familiar?

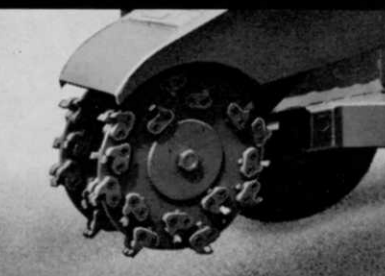
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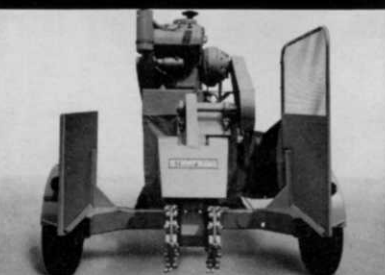
Cutter head, with 30" forward travel, reaches out for hard-to-get-at stumps. Low boom gives extra overhead clearance.



Cutter head boom maneuvers side-to-side and up and down hydraulically. Cutting speed rate is controllable.



Twice the tooth life reported by owners due to special tooth holder design to give back up for tooth shank.



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extraordinary cost cutter!
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Meet the world's most efficient stump cutter. Unique extendable and 3-way maneuverable cutter head gets at stumps even in tight, congested places; in corners, close to walls, buildings, trees, and under overhead obstacles.

High-torque twin cutter slashes up to 60" wide stumps to a mulch in a matter of minutes. Safe and easy to operate, only STUMP KING offers so many time and labor saving features:

- All engine and operating controls are on operator's side of machine.
- Dry type Rockford clutch enables operator to declutch cutter head for positive control.

- "Live Hydraulics" permits moving components even while cutter head is stopped.
- "Dial a Stump" control permits matching rate of cutter head feed to toughness of stump.
- New protective screening gives operator greater vision and protection.
- New close coupled trailer arrangement adds to strength and stability while cutting.
- Electric brakes and low center of gravity design make for fast, safe transport.
- Powerful 36 HP gasoline engine.



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Today "Ansar" is America's number one post-emergence herbicide. It's available in a wide range of formulations to meet your specialized needs. For example:

"Ansar 529" (a liquid solution with surfactant added) is a selective herbicide, remarkably effective in eradicating Johnson Grass and most other weeds in cotton and non-crop areas. It's non-toxic, easy to apply, harmless to cotton and surprisingly economical.

"Ansar 560" is a general herbicide—a long-awaited replacement for 'weed oil.' It completely eliminates weeds along roadways, ditches, fence rows and around

buildings and storage areas. "Ansar 560" is more economical than weed oil. . . and far more effective.

There are other "Ansar" products to meet special needs . . . and in the future there'll be more! In the development stage are "Ansar" herbicides for use in orchards, vineyards and many other crop areas.

So keep in touch with your county agent and your local farm chemicals dealer . . . and keep your eye on the big "Ansar" X trademark. It's a product of

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"ANSAR" IS MANUFACTURED BY ANSUL, SPECIALISTS IN WEED CONTROL