

THE BULL SHEET, official publication of THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS.

DICK TREVARTHAN, Editor  
122 Evergreen Drive  
Frankfort, Illinois 60423

---

#### OFFICERS

President — Ed Wollenberg  
First Vice-President — Dick Trevarthan  
Second Vice-President — Joseph Canale  
Secretary-Treasurer — Oscar Miles

#### DIRECTORS

Alfred Bertucci	Theodore Sokolis
Harold Frederickson	G. Thomas Gilman
Bertram Jannes	John West



### *The President's Message*

I believe the word "countdown" was first used with great importance in 1945, with the testing of the atomic explosions in Alamogordo, New Mexico. Now, the word "countdown" is commonplace as we watch the rockets and its astronauts blast off from Cape Kennedy on their way to the moon and in years to come beyond. And throughout the countdown, watching many gauges and dials, one man waits to make a decision on "yes" or "no" before the final blast-off.

Life is an everlasting countdown for all of us. We teeter on the edge of decisions, torn between "yes" and "no", wishing we knew the ending to our ventures before we risk the beginning. I have at times even resorted to superstitions to guide me. Just like some people rely on horoscopes and the flipping of a coin, "Heads-you-do-and-tails-you-don't."

Decision making is one of the major functions of our profession, and yet we find it incredibly difficult at times. I am sure we have all wished at times that someone else would decide for us and relieve the strain. I am sure the "decision maker" of the atomic bomb that was dropped on Hiroshima and killed or injured 150,000 people, had many moments of mixed emotions before and after — even though it expedited the end of World War II.

I am sure most of us will agree that neither horoscopes or coin flipping constitute a dependable base for decision making in any areas of our experience. Decisions are our own personal obligation, irregardless of the lonely feeling it may leave us with. To leave decisions in the hands of others takes away some of our freedom and denies us a personal responsibility.

Everyday we are faced with a countdown, a "yes" or "no", or a decision as we try to come to terms with the issues before us. We stand still or we mature in terms of choices and decisions that lead us this way or that way. And the harder the choice, the greater is our responsibility to grow in our chosen profession. A profession that has made so many peoples' lives more enjoyable, I hope, by our decision to become a golf course superintendent.

Ed Wollenberg, President

## MAGCS ANNUAL FALL CLINIC

Plans for the 17th annual fall clinic to be held at Medinah Country Club November 18-19, are almost completed by the MAGCS educational committee. Key-note speaker will be Dr. Duich, well known Penn. State Turf leader, along with many Golf Course Superintendents in the Chicago area. Whereby, the Clinic was originally designed for superintendent participation.

---

### WHAT'S NEW?

Mr. and Mrs. Jim Burdett have returned from their 10th wedding anniversary trip to New York and the Boston area.

Bill Brady, formerly Barrington Hills superintendent, is now in Riverside, Calif. John Eble moves over to Barrington Hills Country Club.

Bert and Lea Ross visited friends in Chicago over Labor Day. Bert is at the Elcona Country Club in Elkhart, Ind.

Walter Fuchs, Sr., superintendent at Scioto Country Club, visited his sons over Labor Day weekend in Chicago.

Paul Voykin's book has received 40 to 50 reviews. Business Week, House and Garden are some of the recent ones. (House and Garden September issue). In Chicago Paul appeared on the Lee Phillips Show (Channel 2) and the Jim Conway Show (Channel 9). The Golf Course Superintendent received excellent publicity along with Paul's book on both channels. He has been invited back on both shows.



## WANTED: EDUCATION DIRECTOR FOR GCSAA

A giant step forward in GCSAA growth and development was made when the Executive Committee voted unanimously at its Spring Meeting this year to add an Education Director to the GCSAA Headquarters staff.

The decision was not made overnight — it stemmed from suggestions from members over the years, evaluated and refined by several Association Planning Committees in recent years and further reviewed in the context of the overall Association operation, with particular regard for future plans, by the Executive Committee itself. However, without the whole-hearted support of the membership through its approval of the dues increase at the last annual meeting, plus the financial support of the Association exhibitors at the annual Conference and of advertisers in the Association magazine, the ambitious new program would not be possible from a financial standpoint.

### Logical Investment

In voting the addition of an Education Director, the Executive Committee fully realized that this would mean a substantial increase to the Association budget with prospect of further increases as the function of this new department broadened to include almost all areas of Association activity.

To most GCSAA members, the move is eminently logical — to the Executive Committee it is a move that has been long overdue, delayed only by lack of available funds.

While it has been discussed and anticipated that the influence of the Education Director will eventually extend to every area of Association activity — since the Association itself is dedicated to the continuing professional improvement of its members — the Committee defined the basic function of an Education Director as follows:

### Areas of Responsibility

1. To determine and define the basic and continuing education and information needs of GCSAA members to achieve and maintain a high level of professional competence in the many special areas in which they are required to function — golf turf management, budget planning and control, labor relations, mechanical, hydraulic and agricultural engineering, business administration, crew recruitment, training and management, etc.
2. To assemble, evaluate and organize all useful information available from all sources and in all forms and to seek out and recruit competent assistance for its presentation to the membership.
3. To make this instruction available to all members in the most effective, most convenient and most economical manner . . . using all advanced techniques and equipment of modern education and communication.

It has become obvious to the Executive Committee that the education needs of the golf course superintendent have become too highly sophisticated and diversified to be met by committee "part time" action as in the past.

### Additional Benefits

It can also be seen from the definition, that the scope of the Education Director's activities will broaden as an organized education program for the Association, with long-range goals, develops. By-products of his basic function as described in the three point outline above will include development of articles for THE GOLF SUPERINTENDENT, special "educational workshops", a speakers' bureau for Chapter meeting programs, etc.

When a much-discussed and long-awaited certification program for GCSAA members becomes fact it will naturally evolve upon the Education Director to organize the practical details of such a program and to operate it.

### Application Invited

GCSAA members are urged to "pass the word" about the GCSAA's search for an Education Director to prospective candidates whose educational background, experience and other personal qualifications indicate their eligibility for the new post. Anyone interested in applying for the position of Education Director of the Golf Course Superintendents Association of America should write directly to GCSAA Headquarters, 3158 Des Plaines Avenue, Des Plaines, Illinois 60018. They will be sent full information, including a job description, duties and responsibilities. They will be asked to submit personal resumes and photographs for preliminary review by the recruitment committee.

October 1st has been set as a target date for final screening of applicants in order that the actual appointment of an Education Director can be made at the Fall Executive Committee Meeting.

## NEW MEMBERSHIPS and REINSTATEMENT

### For reinstatement:

Mr. Edward Braunsky	Class A
Mr. Fred DuBeau	Class D

### For membership:

Mr. Robert L. Shields	Class A
Mr. Raymond Noesges	Class EE
Mr. Larry K. Runyon	Class A
Mr. Avery Edward Harris	Class EE
Mr. Roy W. Scherdin	Class E
Mr. James W. Kingsfield	Class A
Mr. Joe Williamson	Class D
Mr. James T. O'Connor	Class D
Mr. Doug Lamb	Class D
Mr. Wayne Allen Peil	Class D

### Voting Delegate and Advisory Delegate for the MAGCS

Mr. Adolph Bertucci will serve as Voting Delegate and Mr. Oscar Miles will be the Advisory Delegate, each serving as alternate and assistant to each other.



# FROM HUDSON VALLEY GOLF COURSE SUPERINTENDENTS ASSOCIATION (July, 1969)

The following are extracted from Sherwood Moore's presentation at the February 1969 Rutgers University Turf session 2/19/69.

Note that materials at the recommended rate can be as low as 10¢ per thousand square feet ... or as high as \$3.90.

In figuring your actual costs, bear in mind that less than manufacturers recommended rates will often give protection ... but is not desirable practice if disease is present.

## TURF FUNGICIDES

MATERIAL	INGREDIENT	RATE PER UNIT PKGE.	RATE PER 1000 SQ. FT.	COST PER OUNCE	COST PER 1000 SQ. FEET
Acti-Dione Ferrate	Actibotic Actidione	\$76.20/case	1 oz.	.373	.37
Acti-Dione Thiram	Actibotic Actidione	\$150/30# case 24x20 oz. bags	2 oz.	.312	.62
Acti-Dione RZ	Actibotic Actidione	\$100.20/18# case 12x24 oz. bags	1 1/2 oz.	.348	.43
Caddy	Cadmium Carbonate	\$65.50/5 gal. Drum	1 oz.	.102	.10
Cadmate	Cadmium Carbonate	\$230/25 lb. Drum	1/2 oz.	.575	.29
Calo-Clor	Mercuric & Mercurous Chloride	\$269.25/25# Drum	1 oz. or 2 oz.	.673	.67 1.34
Calocure	Mercuric & Mercurous Chloride	\$170.50/25# Drum	2 oz. or 3 oz.	.426	.85 1.28
Calo-Gran	Mercuric & Mercurous Chloride	\$195/300# 10x30# Bags	6 lb.	.00677	3.90
Calo-Clor- Thiram	Mercuric & Mercurous Chloride & Thiram	\$269.25/25# Drum \$42/36# case	1/2 oz. + 2 oz.	.673 .072	.34) ) .48 .14)
Daconil	Tetrochloroisoph- thalonitrile	\$57.60/24# case 12x2# bags	4 oz.	.15	.60


	Water insoluble	Stable in acids	Decomposes with alkalies	Residual	Formulations				Type Kill
					Granules	Oils	W. P.	Dust	
Aldrin	yes	-	-	long	x	x	x	x	fumigant stomach contact
BHC	yes	yes	yes	med.	-	x	x	x	fumigant stomach contact
Chlordane	yes	yes	stable	long	x	x	x	x	stomach contact
DDT	yes	-	unstable	long	x	x	x	x	contact
Diieldrin	yes	-	-	long	x	x	x	x	stomach contact
Heptachlor	yes	yes	stable	long	x	x	x	x	stomach contact
Lindane	yes	-	yes	med.	-	x	x	x	fumigant stomach contact
Toxaphene	-	-	yes	-	-	x	x	x	stomach contact

## GOLF PRIZES AWARDED FOR THE AUGUST MEETING AT CRYSTAL LAKE COUNTRY CLUB

1. Low Gross ..... Mr. Harry Nielson — 75
2. High Gross ..... Mr. Joe Hanneman — 134
3. Low Net ..... Mr. Clarence Mitchell  
and Mr. Jack Hansen with scores of 70.

## TURF FUNGICIDES (continued)

MATERIAL	INGREDIENT	RATE PER UNIT PKGE.	RATE PER 1000 SQ. FEET	COST PER OUNCE	COST PER 1000 SQUARE FEET
Dyrene 50W	2,4, Dichloro 6-0 chloroanilina- s-triazine	\$100.80/48# Case 12x4# bags	6 oz.	.131	.79
Fore	Dithiocarbonate, Zinc, Manganese	\$67/60# Drum	5 oz.	.084	.42
Chipo Fore #3					
Kroma-Clor		\$74.75/25# Drum	3 oz.	.187	.56
Kromad		\$56.25/25# Drum	3 oz.	.14	.42
Ortho Lawn & Turf Fund.	Phalton, Cadmium Thiram		4 oz.		
Panogen	Methylmercury dicyandiamide		1 1/2 oz.		
PMAS 10%	Phenyl Mercury	\$372/30 gal Drum	1 oz.	.097	.10
PMAS- Thiram	PMAS + Thiram	\$372/30 gal Drum \$42/36# case	1/2 oz. + 3 oz.	.097 .072	.05) ) .27 .22)
Parzate C			3 oz.		
Puraturf 177					
Semesan	Hydroxmercuri- chlorophenol	\$121/25# Drum	3 oz.	.30	.90
Tersan 75	Tetramethylthi- uram-disulfide	\$42/36# Case 12x3# bags	3 oz.	.073	.21
Tersan OM	Tersan & Semesan	\$60/18# Case 6x3 # cans	3 oz.	.208	.62
Thimer	PMAS & Thiram		3 oz.		
Ultra-Clor		\$74.75/25# Drum	3 oz.	.56	.187



**TURF SUPPLIES**  
Geared to professional needs  
SELECTED lots of turf GRASS  
SEED  
All Poa Annua free

**FUNGICIDES** **WEED KILLERS**  
Yazoo Riding and Big Wheel Mowers  
Sensation Mow-Blo Mowers **ZERS**  
Giant Vacs and Giant Blos **urers**

**KAHN BROS. CO.**  
4409-25 S. Halsted  
(Across from Alhphitheater) **BO 8-0640**

FOR THE FINEST IN IRRIGATION !

**MILLER SPRINKLING  
SYSTEMS**

DIVISION OF A. J. MILLER, INC.  
**Since 1925**

312-469-8730 1320 N. Campbell Road  
799 Roosevelt Road Royal Oak, Michigan 48067  
Glen Ellyn, Illinois 60137 313-398-2233





## RECORD'S RECORD

By Lee Record  
USGA Green Section  
Mid-Continent Agronomist

Traveling throughout the Mid-Continent region this past season I have seen many foolish practices when it comes to the use of insecticides, herbicides, fungicides, etc. Not only are the managers of these materials being careless but the playing membership as well. Caddies, as well as members playing barefoot. Fungicide applications being applied by bare foot applicators. The drift of insecticides and fungicides engulfing the tractor driver and golfing members on fairways. It reminds me of a police dog that followed the crew on a golf course in the Hartford, Connecticut area. Whenever they would apply fungicides and insecticides on greens, the dog would hold the dragging hose in his mouth and pull and yank it on from green to green. It was not uncommon to see him foam at the mouth and drink and solution as it was emptied from the spray tank.

Is there any difference with the antics of this dog and the lack of communication between managers and membership in the use of pesticides?

Chlordane and Heptachlor are common insecticides found at golf courses throughout the country. These materials may be absorbed by skin contact, inhalation and ingestion. Aldrin, although not used as frequently on golf courses is extremely serious through skin absorption. When materials such as these are being used, caution is the by-word.

On July 9, the United States Department of Agriculture suspended all of its programs involving the use of so-called persistent pesticides. Among the chemicals involved were, DDT, Dieldrin, Aldrin, Endrin, Chlordane, Toxaphene, Lindane, BHC (Benzene Hexachloride) and Heptachlor. The suspension included pest control programs at civilian and military airports and those in the forest and cooperative programs within the 50 states. As of this date, government actions do not apply to farmers, homeowners, etc. with the use of the same chemicals.

The above chemicals have been used to good advantage for grub and insect control on golf courses throughout the United States for many years.

The history of one suspended material, DDT (Dichloro Diphenyl trichloroethane) was described by Othmar Zeidler, a German chemist, in 1874. Its insecticidal value was uncovered in 1939. It was brought into the United States for testing in 1942. DDT was imported in quantity and by 1944 domestic production for military use was going strong. Today, 1969, 30 years later, DDT is temporarily suspended.

Have we in the turf industry during the past 30 years, mis-used these materials to a point where they may be prohibited for insect control on golf courses in the future?

The following chart may help in understanding the make-up of these pesticides:

### Aldrin

Hexachloro-hexahydro-endo, exo-dimethanonaphthalene

### BHC

1, 2, 3, 4, 5, 6 — hexachlorocyclohexane

### Chlordane

Octachloro-4, 7-methanotetrahydroindane

### DDT

Dichloro diphenyl trichloroethane

### Dieldrin

Hexachloroepoxy-octahydro-enco, exo-dimethanonaphthalene

### Endrin

(Stereoisomer of Dieldrin)

### Heptachlor

Heptachlorotetrahydro-4, 7-methanoindene

### Lindane

1, 2, 3, 4, 5, 6-hexachlorocyclohexane

### Toxaphene

Chlorinated camphene

**Scotts**

*the grass people*

## GOLF COURSE DIVISION

...IN SERVICE TO THE GOLF COURSE SUPERINTENDENT

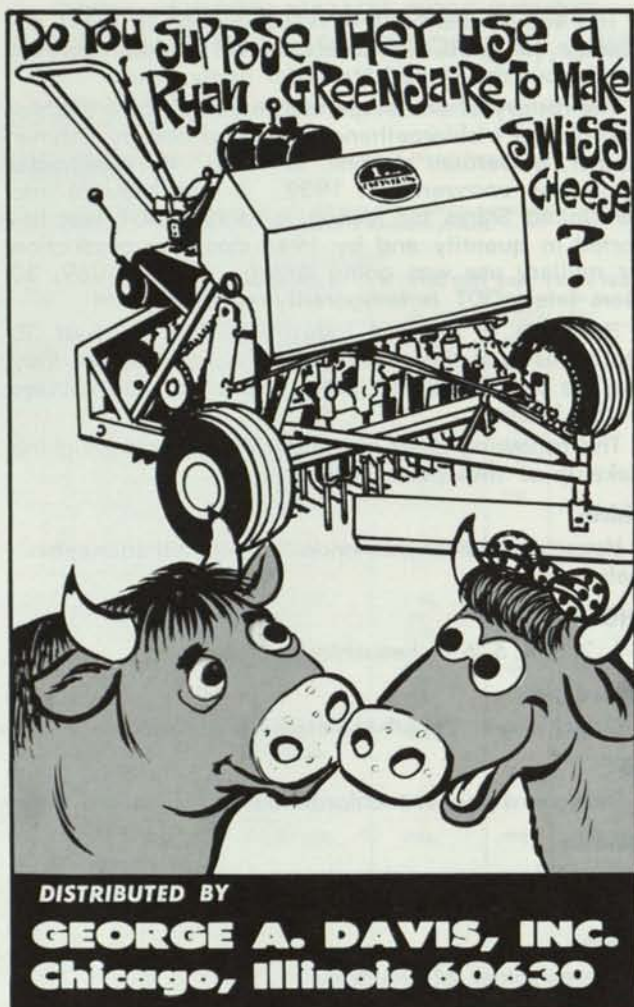
DAN MACK

608/362-5664

1827 Grandview Drive

Beloit, Wisconsin 53511





THE  
SECOND ANNUAL  
GREEN COMMITTEE SEMINAR  
River Forest Golf Club  
THURSDAY, SEPTEMBER 18, 1969

**A.M.**

- 9:00 Registration  
9:30 Golf Course Conservation  
Donald F. Johnson, Medinah C. C.  
Panel Moderator  
10:15 Turf Loss  
Causes and Remedies  
Lee Record, Mid-Continent Agronomist  
United States Golf Association  
11:00 Brunch

**P.M.**

- 12:00 Golf — 18 holes — Shot Gun  
6:00 Cocktails — Dinner — Awarding of Prizes  
\$20.00 per person includes seminar, brunch, golf,  
cart, dinner, prizes.

Ralph C. Peterson, Chairman      Robert W. Owen  
Ira J. Cowan      David A. Root  
Donald F. Johnson      Irving Rosenthal

For those who do not wish to play golf in the  
afternoon, the Cubs will be playing Philadelphia at  
Wrigley Field and Arlington Park will offer horse  
racing.

## GOLFERS PLAY

... while we install your  
irrigation system

**one fairway at a time!**

Free literature and list of installations on request.

**K**irchdorfer  
Irrigation, Inc.

P. O. Box 4124 • Louisville, Ky. 40204  
Phone 585-4305 • Area Code 502

# TORONTO C-15 BENT SOD & STOLONS

"PURE TO STRAIN"

**NEW!**

FYLKING BLUEGRASS SOD  
DISEASE RESISTANT  
SCOTT'S WINDSOR SOD

**ALSO —**

- MERION and DELTA SOD
- BLUEGRASS BLEND SOD

## PENNCROSS BENT SOD



H & E Sod Nursery, Inc.  
4301 W. Flossmoor Rd.  
Tinley Park, Illinois  
312 798-2210

Phone: 312 669-5452 or 312 669-5771

**LOUIS SCHACHTNER**

Distributor

**BLACK DIAMOND HUMUS SOIL**

HUNTLEY, ILLINOIS



**WARREN'S A-20 BLUEGRASS —**

For Tees &amp; Collars, Takes Short Mowing

**WARREN'S A-34 BLUEGRASS**

For Shaded Areas

**MERION BLUEGRASS AND BULEGRASS BLENDS**

CREEPING BENT SOD AND STOLONS

WASHINGTON — TORONTO — COHANSEY

**WARREN'S TURF NURSERY**8400 West 111th Street Phone (312) 448-7200  
PALOS PARK, ILLINOIS**CLEARY PRODUCTS FOR BETTER TURF****PMAS** — Disease and Crabgrass Control**CADDY** — Liquid Cadmium Chloride Fungicide**SPOTRETE** — 75% Thiram Fungicide**THIMER** — Broad Spectrum (Phenyl Mercury-Thiram) Fungicide**METHAR** — DSMA and AMA Crabgrass Killers (Liquids and Powders)**MCPP** — Control Chickweeds, Knotweeds, Clover, etc. in Bents, Bluegrasses, etc.**ALL WET** — 100% Non-Ionic Wetting Agent**TRU-GREEN** — Liquid Chelating Agent Contains Iron, Magnesium, etc. (Apply with Fungicides)**CLEAR SPRAY** — Liquid Protective Sticker for Grass and Plantings. Extends the Life of Fungicides Summer and Winter.**W. A. CLEARY CORPORATION**

NEW BRUNSWICK, N. J. 08403

*A Complete Line of Turf Chemicals  
Proved in Use...from*

THE GROWING WORLD OF

**VELSICOL****For Weed Control:****BANVEL® 4-S**

Versatile new herbicide effective in both warm and cool weather. Attacks weeds thru leaves and roots. Ideal for control of chickweed, clover, and many other weeds.

**BANVEL® + 2, 4-D**

A combination product that enables you to control more hard-to-kill weeds more effectively. Kills dandelion, wild garlic and others.

**For Insect Control:****CHLORDANE 25G**

America's leading turf insecticide. Nothing better for control of grubs, wireworms, sod webworms, ants, etc. Excellent for control of earth worms. Easy to apply.

CONTACT YOUR DISTRIBUTOR FOR:

**BANDANE®****PESTMASTER®****METHYL BROMIDE****"2-1"****MEMMI .8EC****PMA 10****THIRAM™ PMA****THIRAM™ 75****VELSICOL CHEMICAL CORPORATION**

341 E. Ohio Street

Chicago, Ill. 60611

**ROSEMAN**2620 CRAWFORD AVE. UN 4-1842  
EVANSTON, ILLINOIS**TURF EQUIPMENT HEADQUARTERS**

ROSEMAN GANG MOWERS

TILLER RAKES

SNOW PLOWS

SEEDERS

ROTO TILLERS

FORD TRACTORS

LELY SPREADERS

ARPS TRENCHER

LOADERS

ROTARY MOWERS

SALES • SERVICE • PARTS • RENTALS

**ARTHUR CLESEN, INC.****I.M.C. PLANT FOOD****TERRA-GREEN****CLEARY TURF SPRAYS**

611 So. Wolf Rd.

Wheeling, Ill.

Tel. (312) LE 7-2177

**Nels J. Johnson, Tree Experts, Inc.**

SINCE 1930

Complete, economical tree service for Private Estates, Parks, Municipalities, Golf Courses Cemeteries, Schools, Industrial Areas.

All phases of Arboriculture, Diagnosing, Pruning, Treating, Transplanting, Fertilization, Hydraulic and Mist Spraying, Removals, Stump Routing, Municipal Forestry.

— FULLY INSURED —

GRADUATE FORESTERS

LICENSED ARBORISTS

MAIN OFFICE: 912 Pitner Avenue, Evanston, Illinois

Phones: GR eenleaf 5-1877 — GR 5-5255

Hinsdale, Illinois — FA 5-0970

**BURDETT'S, INC.**

Seeds • Fertilizers • Golf Course Supplies

Swift Road at North Avenue

P. O. Box 186

Lombard, Ill. 60148

Phone 312-629-1123

**Uramite and NuGreen****Nelson****Sprinklers and Valves****Myers Sprayers and Pumps****All Insecticides and  
Fungicides****Weed Killers —****Soil Sterilents****PROMPT SERVICE**



**AQUA-GRO** QUALITY BLENDED WETTING AGENT  
**AQUA-T** LOW COST BLENDED WETTING AGENT  
**STOMA-SEAL** CHEMICAL CONTROL OF WILT  
**AQUA-GRO GRANULAR** CONVENIENCE OF APPLICATION

## MILORGANITE

USED AND PREFERRED BY  
 GOLF COURSES EVERYWHERE



### for PROFESSIONAL TURF MAINTENANCE

- Fumigants
- Insecticides
- Fungicides
- Herbicides
- Plant Foods
- Soil Conditioners
- Soil Structure Builders

Swift Agricultural Chemicals Corp.  
 1919 Swift Drive  
 Oak Brook, Ill. Phone 312-325-4330

**PATRONIZE  
 OUR  
 ADVERTISERS**

## TURF PRODUCTS, LTD.

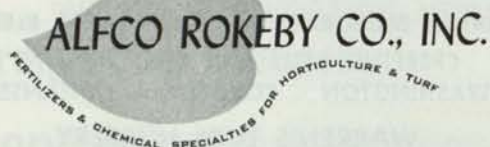
- 711 East Parkway Drive
- Wheaton, Illinois 60187
- Telephone 668-5537



**TURF PRODUCTS, LTD.**

## FOR YOUR GOLF COURSE NEEDS

WRITE OR PHONE



phone 373-1394 p. o. box 267 MARIETTA, OHIO 45750

now available . . .

### SCOTT'S WINDSOR SOD

- also - • Merion - Kentucky - Shade Blends
- C-15 Sod and Stolons
- Penncross Bent Sod

### THORNTON'S TURF NURSERY

a/c 312-742-5030  
 Rt. 2 Box 72 Elgin, Ill.

### SPRINKLER SERVICE AND REPLACEMENTS

### RAINBIRD BUCKNER SKINNER

CONTACT TODAY

### ILLINOIS LAWN EQUIPMENT, INC.

14750 La Grange Road  
 Orland Park, Illinois  
 349-8484 (312)

### The Oldest and Largest Tree Service in the World

— COMPLETE TREE CARE —

- Pruning
- Spraying
- Feeding
- Tree Planting
- Tree Removals
- Inspections

### DAVEY TREE EXPERT CO,

L. F. IRVINE — H. J. OTTO  
 District Mgrs.

Arlington Heights P. O. Box 325 437-4080



**ANOTHER  
GREAT  
PRODUCT  
FROM**

**ILLINOIS LAWN  
EQUIPMENT, INC.**

**14750 La Grange Rd.  
Orland Park, Ill.  
60462**



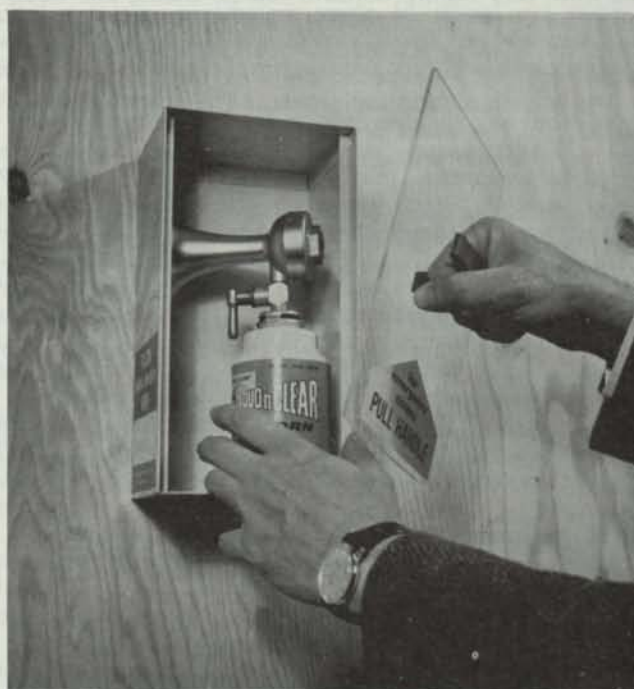
### **ROYER SHREDDERS**

**Call us to arrange for a  
Demonstration**

**(312) 349-8484**

### **NEW EMERGENCY ALARM STATION HAS NO WIRES, IS EASY TO INSTALL AND USE**

A new fire and emergency alarm station is introduced by Falcon Alarm Division of Falcon Safety Products, Inc. This alarm consists of: a steel box designed to fasten to any wall, a self-powered (Freon), trigger actuated horn (powerful enough to be heard within a one-mile radius), a special breakable plastic retaining bar (a padlock and key are provided for authorized inspection) and complete instructions for use and installation. The Emergency Alarm Station has no wires, therefore it can be mounted anywhere to provide a positive means of calling for emergency aid in out-of-the-way places (storerooms, warehouses, vaults, etc.) where there's no built-in alarm box. In any emergency help can be summoned simply by breaking the plastic bar, removing the self-powered horn and squeezing the trigger. The powerful horn is loud enough to be heard over the noise of machinery, traffic and shouts. The Freon power/pak will sound up to 300-two second blasts before a refill is required. Examples of uses are: schools, office buildings, factories, nursing homes, hospitals, stadiums, subway stations, warehouses, barracks, homes and cottages. The bright yellow Station can be nailed or bolted to any wall, the padlocked retaining bar is tamper-proof (assuring instant readiness of the horn and its propellant) and the entire unit meets most safety regulations for emergency alarm stations. Refills are available at small cost. For more information write to: Falcon Alarm Division, Falcon Safety Products, Inc., 1137 Route 33, Mountain-side, N. J. 07092.





# MOSQUITO CONTROL

by Stanley Rachesky  
Entomologist, University of Illinois

Have you ever been arrested for killing mosquitoes? Just the other night, after one of our many rainstorms I was attempting to relax in the backyard in my favorite lawn chair. However, it turned out to be a very bad choice. The mosquitoes were just awful! I decided to try fogging the yard using a new electric hand-fogging unit. It really laid down a good thick fog. Our police department didn't know what I was doing and they thought the house and garage were on fire. They're extra cautious in our town because last year they demolished a police car — it became lost in the fog of a commercial fogger hired by the town. Next time I'm supposed to tell them when I fog — did you ever!

It's quite easy to recommend what to do for mosquito control — but does it work? Light traps have been making a splash on the shelves of some garden centers; they don't work. We tested one using what I call "the slap count method." One evening we sat out in the backyard slapping mosquitoes every time they'd land on one of us. We did this with and without the trap. No relief at all was achieved — both slap counts being almost equal.

The first thing each individual homeowner can do for mosquito control is to eliminate all standing water on your property e.g. rain gutters, old tires, tin cans, the kid's toys, etc. Don't forget to change the bird bath regularly! Next, hook up the little bottle that fits on the end of your garden hose (hose-end sprayer) and apply according to label directions, 0.5% Malathion (1 oz. of 50-57% concentrate Malathion to 1 gallon of water). Spray your grass and shrubbery. This should be done every 5 days. It does a great job if applied about 4-5 hours before a Sunday evening cookout. Also purchase a pressurized spray can containing 1% Pyrethrin or 0.5-1% DDVP. Spray the mist very lightly beneath tables, chairs, etc. Keep it on hand if the mosquitoes are numerous. Repellents do a good job and should be used on arms, legs, neck, etc — exposed parts of the body.

The Malathion application should knockdown about 40-60% of the insect problem. A small hand fogger for very temporary control will immediately knockdown the flying insects and "clear the air of mosquitoes" for a short while. DDVP (Dichlorvos), Pyrethrin, or Dibrom (Naled) are the insecticides already prepared for use in home fogging units and are readily available at your local garden center. Fogging units are also available for use on your lawn mower. Make sure your lawn mower is the type on which a fogging unit can be adapted.

For control of mosquitoes, gnats or flies inside the house keep your screens in good repair. The plastic resin strips advertised do an excellent job in the house. They contain 20% DDVP (Dichlorvos). One strip should be used for every 1000 cubic feet of room space (Length x width x height). The insecticide vaporizes very slowly killing mosquitoes and other flying insects without harming people or pets. They are effective from two to three months. The strips have a tendency to drip in hot weather. Keep them out of reach of the kids, away from fishbowls and food counters. They must be used only in a closed room.

Once again pressurized spray cans containing either Pyrethrin or DDVP are excellent for quick knockdown in the house.

Water is necessary for mosquito breeding. The adult female mosquito will lay eggs on standing water or in places that will later become flooded. Egg hatch will occur 2-5 days. It takes only a week for the larva to become full grown. The pupae (cocoon stage) transforms to adults in about 2 days. Once again two days later the female adults are ready to chowdown. Male mosquitoes do not bite man. They feed on plant juices and flower nectar. Adult mosquitoes will migrate several miles from outlying breeding sites into urban areas.

Local government agencies spend a great deal of money in an **attempt** to control mosquitoes to provide a more comfortable and healthier place to live for the people.

Organized countrywide mosquito abatement districts are the most effective means of combating mosquitoes in and around an urban area. Trained and experienced personnel with an adequate budget and support of both public and local governments can effectively control mosquito problems. The understanding and cooperation of the general public is necessary if the program is to be a success.

Plan insecticide usage and apply properly.

1. Use only those insecticides, dosages, intervals, and methods of application approved by the Illinois Department of Public Health or the University of Illinois. Do not contaminate the environment.

2. Prehatch treatments should be applied in late winter or early spring to breeding areas known to produce a spring generation of mosquitoes.

3. Apply treatments to breeding areas that cannot or have not been permanently eliminated during the warmer seasons. This is done to kill the mosquito larvae before they become biting and egg laying adults.

4. Residual spray applications or mist applications should be applied when needed to kill adults that come from outlying areas. Fogs, because of their visibility, can be seen better than sprays or mists and therefore possess a psychological benefit that is not necessarily proportional to biological effectiveness.

Community officials considering mosquito or other insect control program should be well **informed**, usually they are not. They should first consult with the State Department of Public Health in Springfield, or the University of Illinois for advice and suggestions.

## C. E. STEWART

Civil Engineer

Irrigation, Drainage, Water Supply, Pumping Plants  
Design — Reports — Consultation — Supervision  
18357 Homewood Ave. Homewood, Illinois

### EVERSPRAY CO.

• UNDERGROUND LAWN SPRINKLING SYSTEMS

### IRRIGATION EQUIPMENT AND SUPPLIES

GEORGE WELLES

9250 GOLF ROAD  
DES PLAINES, ILLINOIS  
296-5555

ASPHALT DRIVEWAYS — PARKING LOTS — ETC.  
"Golf Course Work a Specialty"

### LEMONT PAVING CO.

SAND & STONE

115th & Archer Ave. (Rt. 171) — Lemont, Illinois  
RAY MURPHY 257-6701