



VELSICOL

FOR WEED CONTROL:

BANVEL® 4-S

Effective in both warm and cool weather. Attacks weeds through 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 dandelions, wild garlic and others.

2,4-D AMINE

The all purpose economical herbicide.

FOR INSECT CONTROL:

CHLORDANE 10G, 25G, 40WP, 72EC, 5D, 10D

America's finest turf insecticide. Controls grubs, wireworms, ants, etc.

HEPTACHLOR 2.5D, 5D, 10D

For convenience and economy.

FOR SPRAY CONTROL:

ACCUTROL AIR EMULSION SPRAY SYSTEM

A totally new system - spray adjuvant and special spray nozzles. Air emulsion allows your water to go farther. Spray adjuvant provides greater plant absorption, better spray visibility, and lessens spray run-off.

**ORDER FROM YOUR DISTRIBUTOR
TODAY!**

VELSICOL CHEMICAL CORPORATION
341 East Ohio Street • Chicago, Illinois 60611

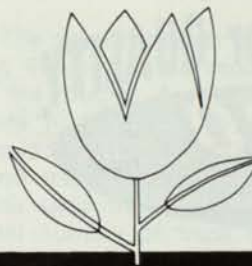
FOR THE FINEST IN IRRIGATION

SPRINKLER IRRIGATION SUPPLY COMPANY

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

1738 Armitage Court
Addison, Illinois 60101
312-629-7730

1316 Campbell Road
Royal Oak, Michigan 48067
313-398-2233



*April showers
May flowers
and a lot of
fungal activity*

start spring disease control NOW
with **TUCO Acti-dione TGF®**



The same conditions that promote spring growth can open the door to leafspot, dollarspot and melting-out. Start right after first mowing to apply Acti-dione TGF regularly. See us for help in spring disease control.

Available from
BURDETTS INC.

or
TURF PRODUCTS LTD.

CLEARY PRODUCTS for BETTER TURF

3336 TURF FUNGICIDE — A broad spectrum systemic fungicide that prevents and controls all 6 major turf diseases. Non-toxic, non-mercurial.
BROMOSAN TURF FUNGICIDE — The newest broad spectrum systemic fungicide for those persistent problem areas or areas that have gotten out of hand.
CADDY — Economical Liquid Cadmium Fungicide.
PMAS (10%) — Crabgrass and Disease Control.
SPOTRETE — 75% Thiram Fungicide.
CLEARY'S GRANULAR TURF FUNGICIDE — For snow-mold, spring and summer diseases.
CAD-TRETE — Broad spectrum fungicide containing Thiram and Cadmium.
MCPP — Control of chickweed, knotweed, clover on bentgrass greens and fairways, bluegrass and fescues.
MCPP-2,4-D — Controls chickweed, knotweed, dock, dandelion, plantain, ragweed, pigweed, etc.
METHAR 80 — Controls Dallisgrass and crabgrass. Water soluble.
METHAR 30 — A super crabgrass killer.
AMA PLUS 2,4-D — Control of Dallisgrass, silver crabgrass, plantain, dandelion, knotweed, chickweed, and other broad-leaf weeds.
AMA (SUPER METHAR) — The new "AMA" liquid crabgrass killer.
ALL-WET — Added to water, it allows quicker and deeper penetration...enables soil to retain needed moisture.
CLEAR-SPRAY — Liquid Hygrostatic Sticker to protect against wilt and winter kill.
TRU-GREEN — Liquid Chelating agent.
GRASS-GREENZIT — Permanent green pigment, restores green color to dormant or discolored grass. Not a dye.

U-A-CLEARY
CORPORATION

P. O. Box 10 Somerset, N. J. 08873

HEADQUARTERS for QUALITY
DACO Davis
 QUALITY LAWN PRODUCTS

Blue Grasses:

Baron
 Fylking
 Pennstar
 Prato
 Sodco
 Sydsport
 Ken Blue
 Nugget
 Bonnie Blue
 Kentucky
 Delta
 Newport
 Park
 Merion
 So. Dakota
 Arboretum

Fescues:

Pennlawn Fescue
 Illahee
 Creeping Red
 Alta Fescue
 Kentucky 31
 Chewings
 Highlight

Ryegrasses:

Perennial
 Annual
 NK 100
 Manhattan

Bents:

Seaside
 Astoria
 Highland
 Exeter
 Penncross

Miscellaneous:

Red Top
 Poa Trivialis
 White Clover
 Timothy

GRASS SEED



George A. Davis, Inc.
 5440 Northwest Highway, Chicago, Illinois 60630 312-763-6363

F. D. CLAVEY RAVINIA NURSERIES, INC.

Roy F. Clavey, Pres.

Established 1885

TREES SHRUBS EVERGREENS

Introducers of

CLAVEY'S DWARF HONEYSUCKLE

BEVERLY FLOWERING CRAB

Rte. 2, Box 582, U.S. 45 & Knowles Rd.

Lake Villa, Illinois

312 - 223-8616

- All Major Turf Supplies
- Par-Ex
- Bean Sprayers
- DuPont
- Chipco
- Vertagreen

Quality -

- Service

PAARLBERG CHEMICALS

172nd & Paxton, So. Holland, Ill.

GR 4-3086

747-0630

**PRECISION BLENDED
 TOP DRESSING**

Custom blended to your specifications
 by our modern equipment.

*Buy when you need —
 Eliminate costly storage*

We sell an air dried, uniform and
 free flowing top dressing.

ASK THE MAN WHO HAS USED IT.

HUMUS - BLACK SOIL

HENRY FRENZER

Area Code 312
 658-5303

620 Webster St.
 Algonquin, Ill.
 60102

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

FOR THE FINEST IN SOD

THORNTON'S TURF NURSERY

312 - 742-5030

Rt. 2 Box 72

Elgin, Ill.

ARTHUR CLESEN INC.

Turf Chemicals

Country Club & Vertagreen
 Fertilizers

Soil Conditioners — Bark — Mulches

"Easy Markers" & Paints

611 So. Wolf Road

Wheeling, Illinois

(312) 537-2177



IRRIGATION SETUP

Bill Krafft, Pro-Supt. at Valparaiso Golf Club, is shown at control board of new automatic irrigation setup which was recently installed at golf course. The \$160,000 unit automatically irrigates greens, tees, and fairways. It is operated by two 50-horsepower pumps using water from small lake located near 13th hole.

VALPARAISO GOLF CLUB, INC.

Bill Krafft, Professional and Superintendent

Ray Gerber, Editor

Dear Ray:

I would like to inform you of new, exciting happenings at Valparaiso Golf Club, Valparaiso, Indiana.

First, a completely automatic irrigation system has been installed on all greens, tees, and fairways. Miller Sprinkling Systems, of Royal Oak, Michigan, started installation on June 1, 1973 and completed work on September 21, 1973.

The \$160,000 irrigation system is composed of 6 miles PVC rigid pipe (8 inch main down to 1½ inch pipe) 275 miles of wire, 300 Moody valves, Moody-Miller Central Programmer (with automatic rain shut-off), and 550 Buckner heads. Gear driven rotary pop ups are used for greens, tees, and approaches. Rotary impact pop ups are used in the fairways. All sprinkler heads on the greens, tees, and fairways are operated by 24 volt Moody valves. Bell and ring type connections were used for the PVC pipe and transite couplings used for pipes 3 inches and larger. The system requires four controller locations installed at points of visibility on the golf course. These stations are equipped with controllers operated from a Moody Central Programmer, located in my office. The programmer is set up for a syringe (1.5 min. to 5.5 min.) and normal (10 min.) cycle. The entire irrigation system is fed by a small lake near #13 green. The lake, in turn, is supplied by a 150 ft. deep, 12 in. gravel packed well which was dug by Perless Midwest Well. The well supplies the lake with 600 GPM and the system uses water at a rate of 1000 GPM. The well automatically fills the lake when water is drawn. The well pump is powered by a 20 H.P. General Electric motor. Water is pumped from the lake by two 50 H.P. centrifugal pumps.

The irrigation system was fully tested by October 1, and turned on in perfect working order.

The second project at the Golf Club was constructing 40 green area sand traps and 4 bunkers located in the roughs. Areas around greens and on fairways were first stripped to shape and then bulldozed. The ground-crew cleared and shaped the edges of the sand traps. The traps were then filled and leveled with sand from Lake Michigan. This now brings the total number of traps on the course to 65.

Renovation of old tees and addition of new tees has been our third major project. In the late summer and fall of 1972, 7 tees were enlarged. After completion, the tees were rectangular in shape and 4000-6000 sq. ft. in size. A-20 Bluegrass sod was used for the teeing area and 721 Bluegrass sod for the sides. These tees have withstood golfer traffic well, and we are very proud of them. Currently a ladies tees are under construction. These are being built in front of old tees and raised slightly. 721 Bluegrass sod is being used to top them.

I might also bring to your attention that two new equipment sheds have been built and 60 trees added to the course. One shed is used to house the irrigation pumps plus has additional room for miscellaneous equipment. It is 20 x 32 in size. The second shed is used for heavy equipment and is 30 x 64 in size.

Valparaiso Golf Club has progressed a long way in the past few years. All new additions have been highly successful and I am looking forward to the future of our course with much enthusiasm.

Yours Sincerely,
Bill Krafft, Pro - Supt.

Dear Ray:

I enjoyed the chat that I had with you while having lunch at the Turf Show. Your talk and slides that you presented was one of the highlights of the conference for me.

I do know for sure that I worked very hard for Mike Bavier, I really wanted him on the National Board to help guide our association into the future. That's the faith and trust that I have for Mike. Mike is a dedicated man for Turf, Golf, our Association and our Image.

I will begin to work in Mike's behalf now and be ready for 1975.

Your friend,
Bill Krafft

The Oldest and Largest Tree Service in the World

— COMPLETE TREE CARE —

Pruning	Tree Planting
Spraying	Tree Removals
Feeding	Inspections

DAVEY TREE EXPERT CO.

GEORGE HILLMAN

PAUL MALLORY

District Mgrs.

Mt. Prospect Office

Hinsdale Office

1901 W. Algonquin Rd., Mt. Prospect, Ill. 60056
437-4080

C. E. STEWART
and Associates
Civil Engineer

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



From left to right: Don Boes, Superintendent St. Boniface Golf Club; Dr. Houston B. Couch, Virginia Polytechnic Institute and State University; Paul Voykin, Superintendent of Briarwood Country Club; Mike Bavier, Superintendent of Inverness Golf Club. Picture was taken at the Royal Canadian Golf Conference at Winnipeg.

THE CONFERENCE TOUR ENDED IN SPLENDID STYLE by Mike R. Bavier

Attending seven conferences the past six months gives me a feeling of being a conference "carpetbagger". The last conference I attended was with Paul Voykin—the Royal Canadian Turfgrass Conference and Exposition, March 19th - 21st, in Winnipeg, Manitoba. Paul was on the program and I had the honor of gathering material for an article to be used in the **Golf Course Superintendent** magazine.

We arrived in Winnipeg along with an early spring snow and cold spell. The weather bureau recorded a record cold of **minus 20** degrees and wind up to 30 m.p.h. one day during our stay. Our friends across the border tried to tell us that last year at the same time they were playing golf in Winnipeg!

The weather may have been cold but the warm feeling of friendship that was extended to us seemed to warm up the "cool" outdoors. The Royal Canadian hospitality room was open Monday and Tuesday evenings for conference attendees, and they had plenty of firewater to warm up the people that may have ventured out into the cold Can-nuck night. John Steele Sr., along with many other local superintendents, greeted the people as they arrived. Any of you who have had the good fortune of meeting John

GOLF COURSE DRAINAGE

By

GEORGE'S LUMBER COMPANY

Downers Grove, Illinois 60515
312-968-4071 or 312-969-4937

knows the evening seemed to pass quickly and the next morning sessions seemed only a few hours away.

The sessions were well attended and the program was excellent with many outstanding speakers. Paul Voykin was the highlight speaker the first day. He gave his "Overgrooming is Overspending" talk, which was well received and was the coffeehouse and pub room conversation for the remainder of the meeting. As much snow as there was, one wondered if they would ever play golf this summer let alone be able to groom their courses!

The second day Dr. Houston B. Couch gave an interesting and informative talk on systemic fungicides. He spoke of the "Golden Era" of the early sixties when we had a panacea of fungicides. Then we came into the systemic era of the late sixties. We are presently in that era but by far not in an era of cure-alls. We must use systemic fungicides, Dr. Couch explained, as just another one of the many "tools" we have for maintaining our turf today.

The last day of the conference was a day for many of the Canadian superintendents to speak, as well as GCSAA President Charlie Baskin. Charlie gave a detailed talk on his home course upkeep and his daily routine. The Canadian super Gordon Wittveen and superintendent manager Don Campbell gave interesting talks on their golf course operations. The conference came to an end with the Royal Canadian Golf Association reception and dinner. Sid Puddicombe officially assumed the duties of the new president of RCGA from the outgoing president David S. Gourlay.

The final day of the conference passed and we were scheduled to fly home the next day. However, to our surprise, we were unable to make airline connections. We had told Paul's sportswriter friend, Dallas Beck, we could not stay to see the Winnipeg Jets and Houston Aeros play hockey. Guess who was on the phone looking for tickets Friday morning! We were fortunate to get two tickets next to a couple of pigeons in the rafters. To a couple of guys that don't attend too many hockey games, the location of our seats didn't matter. We were happy to see the game and be able to watch Bobby Hull and Gordie Howe play hockey. After the game, Mr. Beck arranged for us to attend a small 1976 Winter Olympic promotional party put on by Postmaster General Andre Ouelett with special guests Bobby Hull and Gordie Howe. Well, to say the least, I was impressed, especially at having them autograph a special commemorative stamped envelope given out by the Postmaster General. Paul had played softball with Gordie and Andy Voykin had played hockey with Bobby, so, needless to say, Paul was not quite as exuberant over our good fortune. One would imagine that we would have talked hockey. Actually, Gordie wanted to know what grass to plant on his yard in Texas and Bobby was worried about his grass and cattle on his farm north of Winnipeg. To close the evening out, Paul convinced both Bobby and Gordie they should read his book, **The Perfect Lawn the Easy Way** and, of course, Gordie Howe insisted Paul autograph the book before mailing.

What was left but to pack our bags the next morning and leave for good ol' Chicago. Along with our bags, we had an extra package under our arms—smoked Winnipeg goldeye, which to you fish-loving Chicagoans is a gourmet's delight. All in all—a splendid conference not soon to be forgotten.

Once you use a
Chipco® something.

- Chipco® Chip-Cal®
- Chipco Spot Kleen
- Chipco Microgreen
Liquid
- Chipco Turf Herbicide "D"
- Chipco Spreader
Activator
- Chipco Thiram 75
- Chipco Crab Kleen
- Chipco Turf Herbicide
MCP
- Chipco Buctril
- Chipco Turf Kleen

You'll be using
Chipco® everything.

CHIPMAN DIVISION OF RHODIA INC.
New Brunswick, N.J. 08903



AIR-WATER RATIO IN PRESSURE TANKS

The time will soon be with use when it will be necessary to put pumping plants and irrigation systems into operation. For those who have automatic pumping plants incorporating a pressure tank it is suggested that the air-water ratio in the tank be 60½ air and 40% water. This ratio permits the pump to operate within the desired pressure limits.

To obtain the above air-water ratio it is suggested that WHILE THE TANK IS STILL EMPTY the air compressor be started and the air pressure in the tank raised to 60% of the regular operating pressure of the system. For example, if the system operating pressure is 100 lbs., then the air pressure in the tank should be raised to 60 lbs., i.e. 100 x 0.60.

After the tank is charged with the correct air pressure, as indicated above, the compressor can be stopped and the water pump started, when the tank becomes 40% filled with water it will be noted that the correct water working pressure has been reached. In other words the original air in the tank has been compressed into 60% of its former volume by the water and the pressure rises accordingly.

C. E. (Scotty) Stewart

FOR SALE

Two Jacobsen Riding Greens Mowers — 70 & 71 model.

Thuron Sprayer — 400 gallons, Kohler engine, and spray boom. Inquire on prices.

Terry Turnquist, Superintendent
Hickory Hills Country Club
Phone 598-3073

M. A. G. C. S. MONTHLY MEETINGS 1974

- 11 June, 1974 — Host: Cliff Behrendt
Turnberry Country Club
Bard Rr., Crystal Lake, Ill. 60014
- 15 July, 1974 — Host Carl Hopphan
Aurora Country Club
Prairie and Western, Aurora, Ill. 60507
- 12 August, 1974 — Host: Leonard Berg
Village Greens of Woodridge Country Club
1575 W. 75th Street, Woodridge, Ill. 60515
- 16 September, 1974 — Host: David Meyer
Indian Lake Country Club
232 W. Schick Rd., Bloomington Ill. 60108
- October, 1974 — Host: Robert Siebert
Naperville Country Club
25 W. 570 Chicago Ave., Naperville, Ill.
- 2 November, 1974 — FALL DINNER DANCE
Host: Dudley Smith
Silver Lake Country Club
147th St. & 82nd Ave., Orland Park, Ill.
- 3 December, 1974 — Host: John Jackman
Medinah Country Club (Fall Clinic)
Medinah, Ill.

SUPPORT YOUR ADVERTISERS

IF IT WERE NOT FOR THEM. THERE WOULD
BE NO BULL SHEET.