James B. Beard



# A PATCH of GREEN

BEARD.

Official Publication of the Michigan & Border Cities Golf Course Superintendents Association

Join the growing number of golf courses that have discovered the most unique method of reclaiming balls from ponds and lakes . . .

Reclaimed balls — Washed, Sorted and Striped — ready for use. Supply your driving range and pro shop with retrieved balls.

### We Buy Used Golf Balls



discover . .

## RAVEN

golf ball company today!

Raven Golf Ball Company 6148 Thornycroft Street Utica, MI 48087 (313) 731-3469

PLEASE SEND FOR PRICE BROCHURE AND ADDITIONAL INFORMATION

## **Turfgrass Clipping Uses**

by **Dr. A Martin Petrovic**Dept. of Floricultural and
Ornamental Horticulture
Cornell University, Ithaca, NY 14853

What are turfgrass clippings?
Basically, they are leaf blades which

normally contain 75-85% water. What isn't water is 3-6% nitrogen, 0.5-1% phosphorus and 1-3% potassium (a 4-1-3 fertilizer) along with calcium and a few other nutrients. There is little or no lignin or cellulose in turfgrass clippings. Because they are nostly water, clippings do not lead to thatch accumulation, thatch is composed mainly of stems, crown tissue, leaf sheathes, roots and rhizomes, but not leaf blades. Collecting clippings? From putting greens and other specialty surfaces, clippings have to be removed. On other areas, one solution to the "what to do with clippings" problem is to leave them there. Collecting clippings is more than a waste of precious energy for you, it is also a waste of energy for the plant. As clippings break down, the "recycled" 4-1-3 fertilizer is returned to the turf. You have eliminated the dumping cost, and have also saved the time of emptying catchers of bags and hauling the clippings to the dump by returning clippings to the turf.

More nitrogen needed. research at Michigan State University has shown that turf requires up to 2 extra pounds of nitrogen per 1000 sqm ft. where clippings are removed. These studies showed that turf needs 20-30% more fertilizer if clippings are removed, to match the quality of turf plots where clippings are not removed. Thus fertilizer costs can be cut by returning clippings to the turf.

Research at the Connecticut Agricultural Experiment Station showed comparable result. Turf specialists there found that 1.8 pounds of nitrogen per 1000 sq. ft. were removed when grass clippings were collected. In some cases, they fond that clippings could return over 50% of the nitrogen that was added as fertilizer. The turf was greener and growth was more vigorous where the clippings remained. Ten years ago, similar studies at Cornell University and at Eisenhower Park in Nassau County showed that turf was greener, more vigorous and more disease tolerant when clippings were left CONTINUED PAGE 13

No synthetically produced fertilizer can compare with MILORGANITE



**TERMINAL SALES CORP.** 

12871 EATON AVE. DETROIT, MICH. 48227 (313) 491-0606 Great Lakes Minerals Co.

## Topdressing Sands



TDS - 50 CONTROLLED TO USGA SPECIFICATIONS

 $\mathsf{TDS}-\mathsf{50}$  is a Free Flowing, Sterilized sand . . . proven ideal for topdressing and tee and green construction.



Great Lakes' TopDressing sand is available in truckload quantities.

Also available — Trap and Specialty Sands.

2855 COOLIDGE HWY. • TROY, MI 48084 Telephone: 313/649-3700



MICHIGAN & BORDER CITIES GOLF COURSE SUPERINTENDENTS ASSOCIATION

### PRESIDENT

BRUCE WOLFROM, CGCS Barton Hills Country Club 435 Stein Road Ann Arbor, Michigan 48103 Off. 662-8359 - Res. 663-9213

#### VICE PRESIDENT

MICHAEL EDGERTON Meadowbrook Country Club 3066 Sesame Howell, Michigan 48843 Off. 349-3608 - Res. (517) 546-5927

### SECRETARY-TREASURER

KEVIN DUSHANE, CGCS Bloomfield Hills Country Club 159 Willards Way Union Lake, Michigan 48085 Off. 642-0707 - Res. 698-2924

#### BOARD OF DIRECTORS

CLEM WOLFROM Detroit Golf Club 530 Kendry Bloomfield Hills, Michigan 48013 Off. 345-4589 - Res. 334-0140

THOMAS MASON Jr. Birmingham Country Club 3640 Oriole Rd. Troy, Michigan 48084 Off. 644-6320 - Res. 362-3201

CHARLES GAIGE Lakelands Golf & Country Club 7390 Rickett Brighton, Michigan 48116 Off. 231-3003 - Res. 227-4617

CRAIG ROGGEMAN St. Clair Shores Country Club 22185 Masonic Blvd. St. Clair Shores, Michigan 48082 Off. 294-6170 – Res. 774-1394

DANIEL UZELAC
Dominion Golf Club
RR No. 1
Oldcastle, Ontario, Canada NOR 1LO
Off. (519) 969-4350 - Res. (519) 969-4350

THEODORE WOEHRLE, CGCS Oakland Hills Country Club 3390 Witherbee Troy, Michigan 48084 Off. 644-3352 - Res. 649-6849

### PRESIDENT EMERITUS

JAMES TIMMERMAN, CGCS Orchard Lake Country Club 7183 Buckhom Orchard Lake, Michigan 48033 Off. 682-2150 — Res. 360-0238

### "A PATCH OF GREEN"

Published monthly by the
MICHIGAN AND BORDER CITIES GOLF
COURSE SUPERINTENDENTS ASSOCIATION

Circulation: 1,250

Ted Woehrle, CGCS, Oakland Hills C.C.
EDITOR

Printed At

BLAKEMAN PRINTING COMPANY 31823 Utica Road Fraser, Michigan 48026 Phone: (313) 293-3540

#### MONTHLY ADVERTISING RATES

| Double Page Spread                   |
|--------------------------------------|
| Back Outside Page                    |
| FullPage 65.00                       |
| Half Page 40.00                      |
| Quarter Page                         |
| Eighth Page 15.00                    |
| Sixteenth Page 10.00                 |
| Classified Ad (per column inch) 7.50 |
| DISCOUNT RATE: One Year 10%          |

Note: Advertising fees may not be deducted from the above rates.

This Month's Advertisers...

Century Rain-Aid Great Lakes Mineral Incom Equipment & Supplies Co. Lakeshore Equipment Corporation Lawn Equipment Corporation Lebanon Chemical Corporation W.F. Miller Garden & Equipment Oxford Peat Company Raven golf Ball Company Rhone-Polenc, Inc. O.M. Scott & Son, Inc. Wm. F. Sell & Son, Inc. **Terminal Sales Corporation** Tire Wholesalers, Inc. Turfgrass, Inc. Turf Supplies. Inc. USS Agri-Chemicals Wilkie Turf Equipment Division, Inc. Scotts most successful product is not available for sale...

only for advice and support... your ProTurf Tech Rep.

> Jim Bogart Executive Technical Representative

Jim Brocklehurst Technical Representative



ProTurf Division O.M. Scott & Sons

66 Gibralter Road Rockford, Michigan 49341 Telephone: 616/866-9389

ProTurf Division O. M. Scott & Sons

1964 Catalpa Street Berkley, Michigan 48072 Telephone: 313/547-9632





PAYLOAD:

1500# on service bed

MOTOR-

18HP Briggs & Stratton Twin 4 cycle, gasoline engine

DRIVE:

**Eaton-Peerless Hydrostatic Drive 20HP Unit** 

BODY:

Semi-Unitized Construction, 10 ga. Interior body, 14 ga. exterior metal, Dump Bed 1/8"

Checked or Smooth Plate SUSPENSION:

STEERING: CONTROLS

Front Axle Rocker Arm with spring shocks. Rear spring shocks to transaxle. Hydraulic Power Steering.

One Control for both forward and reverse by Hydrostat, Emergency and Hand Park Brake

BATTERY:

Disc type. 12 volt automotive type. Hi-Range 22MPH, Low-Range 9MPH

SPEED: TIRES:

Terra Tires 23 x 10, 5-12 2 ply nylon.

SIZE-

Overall 44" x 122", Dump Bed 44" x 72".

Standard Black and White, Industrial Tan.

Headlight, two Tail and Stop Lights, Horn, Vinyl-Foam Bucket Seats with Arm Rest, Front Bumper, Towing bracket in rear. Full Dump Bed with Twin Rams. INCOM EQUIPMENT AND SUPPLY CO.

P.O. BOX 624 Utica, Michigan 48087 (313) 739-7760

# HELPFUL PESTICIDE INFORMATION

Did you know that:

A. The personell on your crew who handle pesticides should be monitored on a regular basis to determine whether your safety pratices are effective. The monitoring can be accomplished by 2 simple blood tests which are fairly inexpensive. There are two testing facilities in our area which are set-up to handle cholinesterase tests.

Woodland Medical Group, P.C. 41935 West 12 Mile Rd. (next to 12 Oaks Mall) Novi, MI 48050

Contact: Dr. Manuel Sklar, M.D. (348-8000)

Cost: Approximately \$25 for each of 2 tests. BC/BS will cover completely or in part depending on coverage.

Michigan Industrial Clinic 1701 Baldwin, Pontiac, MI Contact: Dr. Blau, M.D. (362-4616)

Test Intervals: Base test done in offseason followed by monthly or quarterly tests, depending on exposure.

B. The DNR has been monitoring ground water and surface water for polutants and determined that these waters have high levels in many area which border golf courses. There is a battery of tests recommended by the EPA which can be done by any number of local laboratories to determine whether your well-water or surface water is free of harmful contaminants. Be a step ahead of the DNR, relieve worry on your part or your members

part as to whether past chemical use or misuse has left high levels of heavy metals or pesticides in your water.

Analytic & Biological Laboratories, Inc. 29079 Ford Rd. Garden City, MI 48135

contact: Francis B. McLaughlin, FAIC (422-7474)

Detroit Testing Laboratory Inc. 8720 Northend, Oak Park, MI (398-2100)

Method of Analysis Gas Chromatograph: "Methods for Organic pesticides in Water & Wastewater." U.S. Environmental Protection Agency, National Environmental Research Center.

Cost: Approximately \$425/sample for battery

C. Your local fire department may have a town ordinance which requires that you submit a diagram of your maintenance shop which identifies where your chemical room is and a listing of the chemicals which are stored there. This room should also be properly labeled on the door for the firemen and others safety. Toxic fumes from a fire could result in serious injury. Contact your local township or fire department to determine what's required.

D. Signs for pesticide storage and other safety signs can be obtained from many sources. To determine which

CONTINUED PAGE 14

### **GRASS**

Grass is one of the largest & most varied families in the plant kingdom. Some kind of grass can be found on almost all the land surfaces of the earth. Grasses grow in swamps & deserts; in subzero polar regions & hot tropical areas; on rocky land; and on cold, snowy mountains. Grasses range from short kinds found in lawns to woody, tall bamboos from which cane fishing poles and furniture are made. Cereal grasses such as wheat, oats, barley, and corn are used to make bread, pastes, plastics, and many other products. Most sugar we eat comes from a grass plant called sugar cane. Brewers and distillers (liquor makers) use corn & barley (for malt) in making alcoholic beverages. Paper can be made from the leaves & stems of some grasses.

Grass also beautifies the landscape & plays an important part in conservation. It forms an attractive surface of lawns, parks & playgrounds. It also helps to save fertile soil from erosion. Grass covers the surface of the soil, and its roots hold the soil particles together so that wind cannot easily blow the particles away & water cannot wash

them away.

Grass, like other plants, is usually green because it contains a green-colored substance called chlorophyll. Through photosynthesis, this material helps change sunlight into energy that

plants can use.

Grasses can be classified in six main groups: grazing & forage grasses, turfgrasses, ornamental grasses, cereals,

sugar cane & woody grasses.

Grazing and forage grasses provide most of the feed that animals eat. It is the principal source of food for cattle, goats, horses & sheep. During the winter these animals eat grass in the form of hay & straw.

Turfgrasses are used to cover athletic fields, golf courses, lawns & play-grounds. Some turfgrasses such as colonial bent, creeping bent & Ken-

tucky Bluegrass, grow better in colder climates. Bahia grass, bermuda grass, carpet grass, centpede grass, St. Augustine grass and zoysia grass are grown in warmer climates. Buffalo & blue grama grasses can best withstand hot, dry weather. Putting greens are usually covered with bent or bermuda grass.

Ornamental grasses have beautiful, plumelike flower clusters, common varieties include Chinese Silver Grass.

pampas & uva grasses.

Cereals are one of the world's most important food crops. They provide seeds of grain that are ground into flour. The cereal grasses or grains include - wheat, rice, corn, oats, sorg? hum & millet. Wheat is a major food source. It is used for grazing livestock, wheat germ, bran, malt & macaroni which in turn make bread, irolls, crackers, breakfast cereals, noodles, etc. Rice has been a basic food for millions of people throughout the world for hundreds of years. The two major types of rice are lowland, for flooded land, & upland, which depends on rain for moisture. Corn provides over half of the grain fed to livestock & poultry. It is eaten by people in the form of sweet corn, popcorn, meal, oil & flour. The spikelike tassel at the top of the stalk holds the male flowers. while female flowers are in the branchlike ears. Oats is grown mainly for feeding livestock. Only about four per cent of the U.S. oats crop is used for oatmeal. Other cereal grains include sorghums & millets. In the U.S., they are grown mainly for livestock feed. Sugar cane provides more than half of the world's supply of sugar. It also produces a fiber called bagasse that is used in making wallboard, plastics & fuel to heat homes, woody grasses include the bamboos. Bamboo is used for building homes, rafts, bridges & furniture.

Excerpted from World Book Encyclopedia, Vol. 8, Pgs. 314-316



crabgrass.

But if you treat your turf with Chipco RONSTAR G

herbicide, it makes no difference.

RONSTAR gives excellent control of both, season-long... and it's convenient to use, because there's no leaching problem, no root pruning, and no problems with ornamental plantings.

So, for the best control of grassy weeds, use RONSTAR. Rhône-Poulenc Inc., Agrochemical Division, Monmouth Junction, NJ 08852. PRHÔNE-POLILENC



# ARE YOU INTERESTED IN JOINING THE MICHIGAN AND BORDER CITIES GOLF COURSE SUPERINTENDENTS ASSOCIATION?

FILL IN THE QUESTIONAIRE BELOW AND MAIL TO:



CLEM WOLFROM DETROIT GOLF CLUB 530 Kendry Bloomfield Hills, MI 48013 Off. 345-4589, Res. 334-0140



P.O. Box 1685, Atlanta, Georgia 30301

|                   | DATE  |     |
|-------------------|-------|-----|
| NAME              |       |     |
| ADDRESS           |       |     |
| CITY              | STATE | ZIP |
| 00 4011114 001151 |       |     |

OR YOU MAY CONTACT THE NEXT GOLF COURSE SUPPLIER WHO CALL ON YOU AND GIVE HIM THE INFORMATION NEEDED FOR APPLICATION.



# SEPTEMBER 15TH

MARK THIS DAY ON YOUR CALENDAR FOR

### "THE GREATEST SHOW ON TURF"

- WHEN: SEPT. 15TH, 1983, 11:00 A.M. 5:00 P.M.
- WHERE: THE NEW "PHOENIX CENTER" PARKING STRUCTURE ROOF-TOP PARK, DOWNTOWN PONTIAC, MICHIGAN
- WHY: TO SHOW YOU OUR APPRECIATION, AND TO SHOW YOU MANY NEW PRODUCTS FOR NEXT SEASON
- WHO: THE WILKIE TURF EQUIPMENT DIVISION, INC.

FOOD, BEER, ENTERTAINMENT EVERYBODY'S WELCOME!!!



WILKIE

Turf Equipment Division, Inc.

TORO

1050 Opdyke Road • P.O. Box 749 • Pontiac • Michigan • 48056 • 313/373-8800

Did You Know That: Employees at golf courses are required to wear safety shoes and that you can make that a prerequisite to employment.

There is a minimum lighting requirement for your work shop, which is dependent on size.

No Smoking signs should be prominently posted in areas containing combustibles and flammables.

It is illegal to remove deflection guards on any type of equipment including reel or rotary mowers.

Fire extinguishers should be mounted in readily accessible locations, the wall background should be painted red and fire extinguishers sign should be posted overhead.

When lunches are eaten on the premises, the lunch area should be located

so there is absolutely no exposure to chemicals or toxic materials.

The OSHA work place poster is **required** to be displayed in your shop in plain view for employees.

Harold A. Lange died last May 15 after a courageous three year fight against cancer. He was 57.

The Garden Supply Industry in South-East Michigan has lost one of its long-time supporters, and Harold was involved in it literally since birth. His father, grandfather and uncles owned and operated F.W. Lange & Sons on Michigan Avenue in Detroit, which was probably the first garden supply distributor in the state. After four years as a sales representative for Agrico, he joined Turf Supplies, where he worked as sales manager for twenty-three years, and where he is sadly missed by all. His wife, Frances, and three married daughters survive him.



Turfgrass Clippings, cont.

(dollar spot in particular was reduced). Nutrients recylcled. When clippings are short, they fall down between the blades and decompose quite quickly. tests at Michigan State and Connecticut showed that the clippings are recycled and the nutrient elements are utilized as soon as 7 to 14 days. This was determined by visual observation and at Connecticut by tracing the heavy isotopes of a form of nitrogen. Mulching mower useful. if the clippings are very long, wet or heavy, they should be removed. an alternate to raking is to re-mow the area after the clippings are dry, or to use a mulching mower. A few things should be remembered when using a mulching mower: 1) the turf must be relatively dry before mowing to help prevent machine clogging and the formation of large clumps of clippings; 2) You will need to now more often in the spring and fall because of the faster growth rate. If more frequent mowing is not possible during these periods, you may need to switch to conventional mowers; 3) Mulching mowers produce up to 30% finer clippings than conventional rotary mowers which means faster clippings breakdown, deeper and faster penetration of the clippings into the turfgrass canopy and clippings that are less noticeable. Clippings as mulch. Turfgrass clippings can be used as a mulch around ornamentals, reducing weed competition, conserving soil moisture, supplying nutrients as they breask down and help to improve soil conditions especially in fine textured soils. Clip-



# With 27 field-proven formulas we may have more solutions than you have problems.

Distributed by:

### LAWN EQUIPMENT CORPORATION

46845 W. 12 MILE ROAD NOVI, MICH. 48050 P.O. BOX 500 (313) 348-8110

SERVING ALL OF MICHIGAN!

the professional's partner



Lawn Fertilizer Division P.O. Box 119 Maumee, Ohio 43537 Ohio: 800-472-3220 Outside Ohio: 800-537-3870



Pesticide Information, cont.

signs are needed refer to your pesticide certification manual or call the Department of Agriculture, Plant Industry 368-2230. Listed below are a number of sources for any sign which you might need:

Averill Equipment Co. 1233 Combermere St. Troy, MI 48099 961-0819

Associated Specialties Co. 24555 W. 8 Mile Rd. Detroit, MI 535-6211

E. You can obtain all your safety equipment needs from one local source. Products which are handled include: Approved boots, gloves, respirators, (replacement filters and cartridges), headgear, ear protection, first aid kits, eye protection, gas cans, safety eyewash basins and showers, signs, raingear, rope & climbing gear, etc. Listed below are a few of those sources:

Orsco Industrial & Safety Inc. 31731 Sherman Dr. Madison Heights, MI 48071 Contact: Dave Farris (588-4600)

Argus Supply 15075 11 Mile Roseville, MI 774-8900

Averill Safety Equipment 1233 Combermere St. Troy, MI 48099 961-0819

Safety Sales Inc. 20731 Robinson Farmington Hills, MI 477-0030 The best in Turf Supplies-LESCO 100% Sulfur-Coated Fertilizers, Golf Course Accessories, Chemicals including

### LESCOSAN'

A Highly Effective Pre-Emergence Crabgrass and Poa Annua Control \*Lescosan (Betasan-Reg. TM of Stauffer Chemical, Co.)

(800) 321-5325 NATIONWIDE Available From: (800) 362-7413 IN OHIO

Lakeshore Equipment & Supply Co.
"Home Of LESCO Products"
300 South Abbe, Elyria, OH 44035

If you have changed your address, please let us know so we can keep our addressing plates up to date. **Present Address:** ADDRESS ZIP CITY STATE Fill In New Address: NAME ADDRESS STATE CITY Mail this form to: A PATCH OF GREEN 31823 Utica Road Fraser, Michigan 48026

"For Land's Sake-'Use Peat"



### OXFORD PEAT CO.

1430 E. Drahner Rd. Oxford, Michigan 48051

PROCESSED PEAT Top Dressing Blends Custom Blending

FRED LATTA

313/628-5991

### JOINING PVC PLASTIC PIPE IN HOT WEATHER

Paul W. Bando & Associates 626 Pleasant Glen Ellyn, IL

There are manyoccasions when solvent cementing plastic pipe in 95°F temperatures and over cannot be avoided. If special precautions are taken, problems can be avoided.

Weld-On solvent cements for plastic pipe contain high-strength solvents which evaporate faster at elevated temperatures. This is especially true when there is a hot wind blowing. If the pipe is stored in direct sunlight, surface temperatures may be 20° F to 30° F above air temperature. Solvents attack these hot surfaces faster and deeper, especially inside a joint. Thus it is very important to avoid puddling inside socket and to wipe off excess cement outside.

By following our standard instructions and using a little extra care, as outlined below, successful solvent cemented joints can be made in even the most extreme hot weather conditions.

### TIPS TO FOLLOW WHEN SOLVENT CEMENTING IN HIGH TEMPERATURES

1. Store solvent cements and primers in a cool or shaded area prior to use. 2. If possible, store fitting and the pipe, or at least the ends to be solvent welded, in shady area before cement-

ing.

3. Cool surfaces to be joined by wiping with a damp rag. Be sure that surface is dry prior to applying solvent cement.
4. Try to do the solvent cementing in

cooler morning hours.

5. Make sure that both surfaces to be joined are still wet with cement when putting them together. Whith large size pipe, more people on the crew may be necessary.

6. Use one of our heavier, high viscosity cements since they will provide a

little more working time.

As you know, during hot weather there can be a greater expansion-contraction factor. We suggest you follow the CONTINUED NEXT PAGE

Turf Supplies, Inc.

> Let's Talk Weed Killers!

We stock the Proven Best.

Roundup 1-5 gal — No Residue in Soil
Sideswipe HHS-100—Roundup Applicator
Dow Formula 401-55 gal — 46% 2-4-D Acid
MCPP-K-45-55 gal — Clover Chickweed cntl.
Banvel 4S 1 gal — Dicamba-creeping weeds
Trimec 1-30 gal — Synergistic Effect
Trimec (Bent) 1-5 gal — Bentgrass Formula
Super D Weedone 1-55 2-4-D plus Dicamba
Adjumec 1 gal — Increased Weed Control
Foam Fighter 1 qt — 2 squirts control foam
Vapam5 gal — Soil Fumigant
Dacthal 75 WP 24# — Crab, pre-emerge
Hyvar X.L. 1-30 gal — All vegetation kill

BRUCE, DAVE & GEOFF
WOULD LIKE TO TAKE YOUR ORDER

6900 Pardee Rd. Taylor, MI 48180 (313) 291-1200

### Night Lighting May be Harmful To Trees

The energy crunch may provide a hidden blessing for trees sensitive to night lighting. After the introduction of high-pressure sodium lighting in the 1960s, architects and designers rushed to include bright exterior lighting in new building designs. However, the rising cost of electricity is forcing a trend toward fewer lights or the use of more energy-efficient lighting systems.

USDA research horticulturist H. Marc Cathey surveyed 54 species of trees and shrubs for their response to all-night lighting. He found that continuous light forces sensitive trees into continuous growth, which causes stress and makes them more susceptible to air-pollution damage. It also delays dormancy in the fall, exposing new growth to a killing frost. These effects are dependent on several factors including light intensity, color and night temperature, Cathey reported.

Elms and sycamores are the most sensitive. A single foot-candle of incandescent or sodium light on the leaves of dogwoods, birches and some maples also interferes with the natural darklight cycle of those trees. Oaks, evergreens and many fruit trees are sensitive to night lighting, and holly, rhododendron, linden and most maples are only moderately sensitive.

If your club uses less efficient light sources, such as metal halide or mercury vapor lighting, you may be doing your trees a favor. These lamps emit less of the red part of the spectrum, which triggers continuous growth.

Joining PVC, cont.

advice of the pipe manufacturer re-

garding this condition.

By using our high-quality Weld-On products as recommended and by following these hot weather tips, you can be assured of producing strong, leak-proof joints even during very hot weather conditions.

ALL YEAR LONG . . . YOU CAN DEPEND ON . . . WELD-ON

## COUNTRY CLUB



**PRODUCTS** 

Homogenous Granulation

-High UF (W.I.N.) -Balanced Feeding

—Fits Your Budget

Distributed by

SOUTH LYON, MICHIGAN 48178 Phone: Areo 313 437-1427

GENE JOHANNINGSMEIER

Lebanon Chemical Corporation P.O. Box 847, Danville, Illinois 61832

# Wm.F.Sell on,Inc.

**SINCE 1923** 

RENTAL SALES - SERVICE



- **★ TRENCHERS★ MOWERS** \* ROTARY CUTTERS
- ★ BACK HOE DIGGERS
- \* BACK FILL BLADES \* POST HOLE DIGGERS

Complete Line of Material Handling & Farm Equipment JOB TAILORED EQUIPMENT

16555 TELEGRAPH RD. — TAYLOR 1 MILE SOUTH OF EUREKA

### Are You Tired?

We have run across some absolutely irrefutable statistics that show exactly why you are tired. And brother, it's no wonder you're tired either! There aren't as many people actually working as you may have thought, at least not according to this survey recently completed.

The population of this country is 200 million, 84 million over 60 years of age, which leaves 116 million to do the work. People under 20 years of age total 75 million, which leaves 41 million to do the work.

Then there are 22 million who are employed by the Government, and that leaves 19 million to do the work. Four million are in the Armed Forces, which leaves 15 million to do the work. Deduct 14,800,000, or the number in the state and city offices and that leaves 200,000 to do the work. There are 188,000 in hospitals, insane asylums etc., so that leaves 12,000 to do the work.

Now, it may interest you to know that there are 11,998 people in jail, so that leaves just two people to carry the load. That's you and me – and brother, I'm getting tired of doing everything by myself!

Source: Progress Reporter

YOU DON'T buy a newspaper - you buy news.

YOU DON'T buy life insurance - you buy security for others.

YOU DON'T buy flowers - you buy sentiment and service.

YOU DON'T buy eyeglasses - you buy vision.

YOU DON'T buy awnings - you buy shade.





CHICOPEE Upjohn
FOX VALLEY Chipco
DIAMOND SHAMROCK
Yankee CYCLONE

PBI Gordon Aquatrols

Turfgrass Products PanaSea



SOUTH LYON, MICHIGAN 48178 Phone: Area 313 437-1427

GENE JOHANNINGSMEIER

Turfgrass Clippings, cont.

pins can be used as a straight mulch, but are better if they are allowed to airdry first. They can be composted with or without leaves, but either way should be applied at last 1" thick and should be turned under in the fall to help supply nutrients for the next year. as with any mulching material, be on the loolout for slugs. Two things should be avoided when using clippings as mulch: avoid clippings from areas with stolons such as creeping bentgrass since clippings of this type can form into new plants and infest the ornamental beds; and do not use the first several batches of clippings after applying broadleaf heribicides to the turf to prevent injury to ornamental plants.

Clippings as animal feed. You must answer NO to this question before considering turfgrass clippings as an animal feed: "Have any pesticedes been applied to the turf? If you answered YES, strongly consider other alternative for clipping utilization. dried pellatized clippings have been shown to be an excellent poultry feed; however, large acreages are needed to produce enough clippings for this process. sod farmers with limited pesticide usage, have been able to do this to a limited degree.

So, what are you going to with your clippings? You leave them, dump them or use them as animal feed. Remember that clippings DO NOT create or add to the thatch layer of the turf.

Reprinted from the Proceedings of the 34th Annual New York State Turfgrass Conference, Volume 4 – 1980

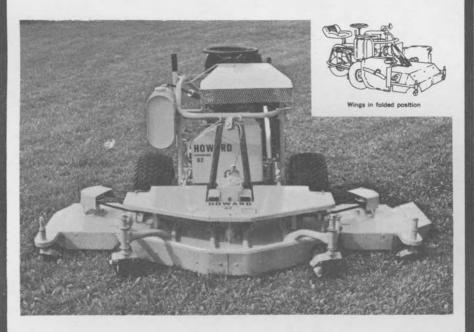
Nothing increases your golf score like witnesses.

Only as you know yourself can your brain serve you as a sharp and efficient tool. Know your own failings, passions, and prejudices so you can separate them from what you see.

BERNARD M. BARUCH

# HOWARD

### **COMMERCIAL TURF EQUIPMENT**



### **COMMERCIAL 82" MOWER**

The Howard 82" allows you one of the largest cuts for commercial mowers but without the scalping you receive from single plane cutting tables. The center unit is 48" with the two wings being 18" each. The forward mounted cutting head affords maximum visibility, non-tracking performance and unparalleled trimming capabilities around and under bushes,



chains, guard rails, picnic tables, etc. By having your cutting head out in front, independently attached, you can actually see the mower following the contour of the ground, not the tractor. The Howard Commercial Mower with hydrostatic transission enables you to set your cutting speed to an infinite range, between the speeds of 0 and 6.2 M.P.H., depending on your mowing conditions. The heavy duty transmission and differential allows for a responsive, yet smooth, operating forward

and reverse action in open or congested areas. The transmission is backed by the strongest warranty in the field. The outstanding versatility of our tractor is evidenced by the attachments which are available. The attachments are quick change and may be run off our live P.T.O.

### LAWN EQUIPMENT CORPORATION

520 W. 11 MILE ROAD ROYAL OAK, MICH. 48068

TELEPHONE: (313) 398-3636

### Jacobsen Hydraulic Pull Behind Gangs.

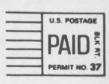


## W.F. Miller Garden & Lawn Equipment Company

1593 S. WOODWARD AVE. BIRMINGHAM, MICHIGAN 48011 TELEPHONE: (313) 647-7700

"A Patch of Green"
31823 UTICA ROAD
FRASER, MICHIGAN 48026





DEPT, SOIL & CROP SCIENCES TEXAS A & M UNIVERSITY COLLEGE STATION, TEXAS 77840 ATTN: DR. JAMRS BEARD

