

✓ file

November 1972



# A Patch of Green



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

LET THE EXPERTS AT J. J. DILL HELP YOU  
**MAKE IT**  
*"a green year"*

**BUY DIRECT • SAVE MONEY  
GET FAST DELIVERIES**

Your budget will buy more — in chemicals and equipment to apply them — when you deal direct with Dill. As manufacturer, formulator and/or distributor, Dill can save you money. Consistently.

Dill offers the most complete line of quality turf chemicals in the midwest . . . complete with application instructions.



Call Dill collect for information, prices, and to place orders. (616) 349-7755

**TURF CARE**  
**TIP OF THE MONTH**

**FREE**

**VALUABLE CATALOG**

Latest edition, up-dated in all respects. Contains a wealth of information. Lists and describes **hundreds** of chemicals, pesticides and equipment for maintenance of grounds and waters of golf courses, parks, recreation areas and resorts.



Dill is headquarters for complete lines of: • Fungicides • Herbicides • Algaecides • Insecticides • Foggers • Sprayers.

**PROMPT DELIVERY** throughout southern Michigan and northwestern Ohio, including weekly shipment via our trucks covering the Detroit, Flint, Lansing and Toledo areas.

**FOR FALL AND EARLY WINTER . . . . .** Order your snow mold control chemicals now! Don't wait until it's **DECEMBER**. Call us for newest developments and recommendations.

**J. J. DILL COMPANY** Box 788 KALAMAZOO, MI 49005 Dept. PG-4

Gentlemen: Please send your latest Turf Care Catalog.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

## "A Patch of Green"

31823 Utica Road, Fraser, Michigan 48026  
(313) 293-3540

Published monthly by the Michigan and  
Border Cities Golf Course Superintendents  
Association

Circulation 750

Ted Woehrle, Oakland Hills CC  
Editor

Blakeman Publications  
Graphic Arts/Circulation

### ADVERTISING RATES

Double Page Spread.....	\$100.00
Back Outside Page.....	65.00
Full Page.....	55.00
Half Page.....	35.00
Quarter Page.....	25.00
Eighth Page.....	12.50
Sixteenth Page.....	7.50
Classified Ad (per inch).....	5.00

### DISCOUNT RATES

One Year 10 %

## THIS MONTH'S ADVERTISERS

American Research Corp.  
Century Supply Corp.  
Certified Laboratories, Inc.  
J. J. Dill Company  
Gunter Co., Inc.  
Lakeshore Equipment  
Lawn Equipment Corp.  
W. F. Miller Garden  
Miller Sprinkling Systems  
National Chemsearch Corp.  
O. M. Scott & Sons Company  
Turfgrass, Inc.  
Turf Supplies, Inc.  
Terminal Sales Corp.  
Wilkie Turf Equipment Co.

## MICHIGAN AND BORDER CITIES GOLF COURSE SUPERINTENDENTS ASSOCIATION



### PRESIDENT

**TED WOEHRL**  
OAKLAND HILLS COUNTRY CLUB  
Birmingham, Michigan  
Off. 644-3352, Res. 646-8512

### VICE PRESIDENT

**GERALD GILL**  
TAM-O-SHANTER COUNTRY CLUB  
3466 Walnut Lake Road  
Orchard Lake, Michigan  
Off. and Res. 626-8325

### SECRETARY-TREASURER

**BOB HOPE**  
KNOLLWOOD COUNTRY CLUB  
6330 Inkster Road  
Birmingham, Michigan  
Off. and Res. 626-6062

### BOARD OF DIRECTORS

**C. H. WOLFROM, JR.**  
DETROIT GOLF CLUB  
Detroit, Michigan  
530 Kendry (Res.)

**ROBERT PRIESKORN**  
WESTERN GOLF & COUNTRY CLUB  
721 Venoy Road (Res.)  
Detroit, Michigan  
Off. KE 1-1549, Res. 721-6648

**ALBERT KALTZ**  
MAPLE LANE GOLF CLUB  
Sterling Heights, Michigan  
Off. 268-2130, Res. 463-2892

**DAVID S. MOOTE**  
ESSEX GOLF CLUB  
P.O. Box 130  
Sandwich, Ontario  
Off. 734-7815, Res. 966-1617

**GARY BARTSCH**  
PINE LAKE COUNTRY CLUB  
P.O. Box 216  
Orchard Lake, Michigan  
Off. 681-1322, Res. 476-5852

**ROGER GILL**  
ROYAL OAK GOLF CLUB  
Royal Oak, Michigan  
Off. 549-7125, Res. 573-6859

**PRESIDENT EMERITUS**  
**WARD SWANSON**  
PLUM HOLLOW GOLF CLUB  
29642 Westfield (Res.)  
Livonia, Michigan  
Off. 352-2436, Res. 421-8049

# The President's Message

Association interest continues high. We averaged over 85 members and guests per meeting. The educational programs were well received and appreciated. We intend to continue these fine programs on a local level next year plus an end of year clinic of a one day duration. Keep this in mind so you will be ready to suggest subject material and a name of a speaker or two as well.



The National Association has also been providing us with some much needed educational material in business management. To date, we have only had three members of our local chapter participating - True Professionalism cannot be obtained until we all improve ourselves in turf grass management. The National Association also has a program of Certification to establish some basic standards so that we can judge ourselves in comparison to a set standard.

Our meetings this year were held at many of our outstanding clubs. We thank these clubs for the use of their facilities and a special thanks to the Host Superintendents that so graciously gave of their time and talents to make this one of the real fine years in our

history.

The 7th Annual Turfgrass Field Day was a huge success. The members of this Association should be proud of themselves. Over 52% of our Class A members participated in the fund raising day. This is really outstanding when you consider that last year we only had 40% participation. I guess we would be dreaming if we thought we could reach 75% next year. We still have members that refuse to help themselves. They expect the other guys to do all the work. No wonder we haven't moved faster towards our goals. There are still too many guys holding onto the shirt tails of the front runners. Congratulations anyway to the guys that really worked hard to make this event such a huge success.

Turf wise this has been an excellent year. There were a few poorly drained areas show up on all golf courses because of all the rain, but generally speaking it was a pretty good year. With all the new chemicals and new equipment available, we are finding our jobs a little more bearable. Or perhaps we are maturing a little bit and the problems are not affecting us as much as in the past.

Your president,  
Ted Woehrle

**RAIN  BIRD** IRRIGATION SYSTEMS.  
SPECIFICALLY DESIGNED TO MEET THE MOST  
DEMANDING WATERING REQUIREMENTS OF  
ANY GOLF COURSE.

**Century**  
Supply Corp.

WHOLESALE DISTRIBUTORS  
(313) 543-7730

3890 WEST ELEVEN MILE ROAD  
BERKLEY, MICHIGAN 48072

# Can You Forecast the Weather?

Golf Course Superintendents have always been good weather prophets. Are you one of them?

We hope you enjoy some of these tried-and-true ways of forecasting the weather. I'm certain you will recognize some of them. If you know of others, please forward them on to us.

I can remember Grandma and her corns hurt or Dad's rheumatism bothered him. It was a sign of changing weather.

The groundhog has always been an important part of predicting when spring would arrive. If he sees his shadow on February 2, we will have six more weeks of cold weather. Watch this one next year.

Some old timers always said that we never have good weather until after Easter. When it was late we would have a late spring. We can usually expect snow flurries the week of Easter.

Remember this one? If March comes in like a lion the month will go out like a lamb - The opposite is also true.

You all know how important rain is to us. Here are a few ways to forecast rain. We can look for signs that will tell us when it is going to rain or storm and how much to expect.

If the sun sets behind a bank of clouds, it usually rains the next day.

It will rain shortly after you see a ring around the moon.

Did you ever have a dog that was afraid of storms? Most animals can sense approaching storms. Cats usually rub themselves behind the ears before bad weather. Teachers claim that children become restless before a storm.

If it rains on Easter, it would rain the following seven Sundays. If it rained on the 1st of June, it would rain for 21 days in June. (This one was true this year.) If it rained on Monday, we can expect it to rain three more days that week, but Friday would be the fairest or the foulest of them all. If a rain started before 7 o'clock, it would stop before 11 o'clock.

If a rain started with big drops, it wouldn't last very long (about as long as a snowball in a hot oven).

If the horns of the new moon are vertical, it indicates dry weather.

Being able to predict the coming winter is also important.

The color of the woolly worms is an important indicator. The fall of the year is the time to judge them. If they are very dark, the winter will be cold. If they are light colored, the opposite is true. If the worms are striped, we can predict warm and cold spells alternating.

If the squirrels bury their nuts, we can expect warm weather with very little snow. If they store their nuts, look out for a cold blustery winter.

For each day in August, we will have a snow in winter (that should make eleven). Also the date of the first snowfall denotes the number of snows we will have this winter.

Thunder in February means frost in May.

Some old timers claim that for every day the snow stayed on the trees after a storm that would indicate the number

Continued on Page 10

## **CHRISTMAS PARTY** **Friday, December 8, 1972** **EDGEWOOD COUNTRY CLUB**

*Host Superintendent, Ken McRae and his wife, Elizabeth, have promised us a great dinner and good music to dance to. It's never too late to call and make reservations.*

## More <sup>golf</sup><sub>day</sub> Photos



Andy Bertoni, left, Master of Ceremonies and Dan Uzelac, Supt. Dominion Golf Club, Windsor, Ontario, winner of trip for two to Las Vegas.



Three hard workers at the registration desk: Left to Right; Doug Forier, Chairman of the Golf Committee, Dave Forier, Registration Committee and George Prieskorn, selling raffle tickets for the prizes.





Don LaFond proudly stands in front of his display of prizes, Ward Swanson, not shown, helped obtain funds for the prizes.



George Prieskorn, Chairman of the Ticket Committee, spins the tumbler so one of the lovely hostesses from Bay Pointe could make an occasional drawing for prize winners.



**GOLF COURSE  
CONSTRUCTION**

**GUNTER CO., INC.**

**D-12495 DIXIE HWY.**

**HOLLY, MICHIGAN**

**313-634-4812**

— O —  
COMPLETE GOLF COURSE CONST.  
REMODELING EXISTING COURSES  
IRRIGATION SYSTEM INSTALLATION  
CONVERSION OF EXISTING SYSTEMS



Bill Freehan, All Star catcher of the Detroit Tigers and Jim Northrup, centerfielder of the Tigers, chatting with Bob Mauck, Supt. of Franklin Hills.



CHOW TIME — Delicious steaks, baked potatoes and corn on the cob.

***No synthetically produced fertilizer can compare with  
MILORGANITE***

Golf Courses Use More

**MILORGANITE**

Than Any Other Fertilizer



**TERMINAL SALES CORP.**

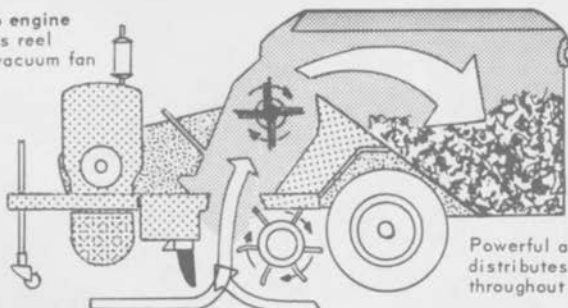
12871 EATON AVE.  
DETROIT, MICH. 48227  
(313) 491-0606



# RAKES TURF AND VACUUMS IT CLEAN



18 hp engine  
drives reel  
and vacuum fan



Powerful airstream  
distributes litter  
throughout hopper

# RAKE-O-VAC FROM TORO

*To Arrange For A Free Demonstration Call:*

**Wilkie Turf Equipment Company**  
**The Anderson Division**

23455 TELEGRAPH RD., SOUTHFIELD, MICH. 48075 • PHONE: 353-5300

### Weather Forecasting Cont.

of weeks the snow would stay on the ground.

Remember these?

Red sky at night, sailors delight;  
Red sky in the morning, sailor  
take warning.

When the wind is in the East, 'tis  
neither fit for man or beast.

If the leaves on the trees still  
hold,

the coming winter will be cold.

If Christmas day is bright and  
clear;

we'll have two winters in the year.

The fishermen had a few rhymes  
too.

When the wind is from the east,  
the fishing is the least. When the  
wind is in the west, the fishing  
is the best.

Keep some of these in mind and  
notice how accurate they are. Let's  
talk about them sometime.

*From an article by Ruth Kirkpatrick  
Goodwin, Prairie Farmer, November,*

1972. James Bertoni's formula for  
weather forecasting can be found on  
page 11 in case you missed the wooley  
worms this fall.

— NEXT MONTH —

Winners of the Annual Golf Tournament  
at Stoneycroft.

## Roster Questionnaire

Secretary Bob Hope is gathering  
information for our new Roster for  
1973. You will be getting a question-  
naire soon and we would like to have  
your answers as soon as possible so  
we can get it printed early next year.

Please cooperate. If you want  
correct information printed about you  
and your family - we will need your  
help.

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



**ALBERT KALTZ**  
Maple Lane Golf Club  
Sterling Heights, Michigan 48077  
Phone:  
Off. 268-2130, Res. 463-2092

Fill in the questionnaire below and mail to:

DATE \_\_\_\_\_

NAME OF INTERESTED PERSON \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**Or you may contact the next golf course supplier who calls on  
you and give him the information needed for application.**

# "Weather" or Not - You Care!

by JAMES BERTONI, Editor of "VERDUE",  
The Newsletter of The Chicagoland Golf Course Superintendents' Association

The golf course superintendent could be much more effective if he could only predict the weather and anticipate oncoming storms or obnoxious conditions. Weather forecasts through newspapers, national weather bureau and even radio and TV are very helpful, but seem to leave a lot to be desired. They report only what probably will happen while leaving out the other conditions that may happen under conditions other than the probable.

With the help of an encyclopedia, we will try and become our own "Back Yard" weathermen.

First we must understand weather. Weather is the instantaneous state of the atmosphere. The definition implies much more than it says since it is the weather that makes us hot or cold, wet or dry and even happy or unhappy. It is

also the most influential part of our environment.

When a portion of the atmosphere develops, a constant profile of factors such as temperature and humidity, it is classified as an air mass. These large segments of air are classified by the regions from which they obtain their basic properties, their paths of travel, and by such modifications as they undergo because of their path and their age.

Air masses originate either as dry (Continental) or moist (Maritime) as cold (Polar) or warm (Tropical), depending upon their source region. When air masses of markedly different properties clash, bad weather or changeable weather usually develops. The zones of separation between different air masses are called

Continued on Next Page

## WIND AND BAROMETER INDICATIONS FOR FORECASTING

Wind Direction	Barometer Pressure	Weather Indicated
SW to NW	30.10 to 30.20 & steady	fair, little temp. change for 1-2 days
SW to NW	30.10 to 30.20 & rising rapidly	fair, followed within 2 days by warmer and rain
SW to NW	30.20 & above & steady	continued fair - no marked temp. change
SW to NW	30.20 & above & falling slowly	fair with slowly rising temp. for 2 days
S to SE	30.20 & falling rapidly	wind increasing, rain with 12 to 24 hrs.
SE to NE	30.10 & 30.20 & falling slowly	rain within 12 to 18 hrs.
SE to NE	30.10 to 30.20 & falling rapidly	increasing wind and rain within 12 hrs.
E to NE	30.10 & above & falling slowly	In winter, rain within 24 hrs. In summer, with light winds, rain might not occur for several days
E to NE	30.10 & above & falling rapidly	In winter, rain or snow with increasing winds. In summer, rain probably within 12 to 24 hrs.
SE to NE	30.00 or below & falling slowly	rain will continue for 1 - 2 days
SE to NE	30.00 or below & falling rapidly	rain with high winds followed in 36 hrs. by clearing and cooler
S to SW	30.00 or below & rising slowly	clearing within a few hrs. and fair for several days
S to E	29.80 or below & falling rapidly	severe storm followed within 24 hrs. by clearing and in winter, cooler
E to N	29.80 or below & falling rapidly	severe NE gale and heavy precipitation. In winter, heavy snow followed by a cold wave.
going to west	29.80 or below & falling rapidly	clearing and colder

# GOLF COURSE CHEMICALS

**Donald Benham**  
**NATIONAL CHEMSEARCH CORP.**  
5589 Abington Road  
Birmingham, Michigan  
626-1111

You Can  
RELY ON



LABORATORIES, INC.

**FOR TURF CHEMICALS CALL  
ARNIE COLLENS**

27848 KENDALLWOOD  
FARMINGTON, MICH 48024  
PHONE: (313) 477-4595

see

- Borden's G & F Fertilizers
- NEW DuPont Tersan 1991 (Benlate)
- The 3 other Tersan Fungicides, plus Daconil 2787, Acti-Dione & Forel
- The Best in Bulk Grass Seeds
- Weed Killers, Insecticides, Sprayers and One Inch Hose.

**TURF SUPPLIES INC.**  
6900 Pardee Rd., Taylor, Michigan  
(313) 291-1200



**TURFGRASS, INC.**

365 WOODLAND DR.  
SOUTH LYON, MICH. 48178  
PHONE: 437-1427

## PROGRAMS FOR FINE TURF

Top-Dressing	Chemicals
Fertilizer	Grass Seed
Fungicides	Sod
Herbicides	Stolons
Insecticides	General Supplies

**EUGENE D. JOHANNINGSMEIER**  
CONSULTING AGRONOMIST

"Fronts". A cold front is the leading edge of a cold mass of air. A warm front is the leading edge of a warm mass of air.

The unique gas called water vapors, contained in such small amounts in the atmosphere, has a profound effect upon the weather we experience. Because of various cooling processes within the air (lifting of air parcels, contact cooling etc.), water vapor may condense into visible moisture to result in the many types of fog and clouds. When the moisture within a cloud falls to the earth, the process is called precipitation and may take the form of water (rain, showers, drizzle) or ice (snow, hail, sleet), depending upon the temperatures of the air layers through which the precipitation is falling. When visible moisture changes into water vapor, the process is called evaporation. The vast cycle of evaporation, condensation and precipitation, so precious to life, hinges on the existence and spreading of water vapor throughout the world. Without water vapor, the earth would be a lifeless, dust-stormed planet.

All thunderstorms usually come about as a result of the lifting of a large volume of moist air which expands and cools as it ascends. When the temperature of the parcel of air has dropped, sufficiently, it no longer can hold the water vapor in gaseous form and condensation occurs which gives to the air parcel the heat which was used to evaporate the water originally. Thus, although the air continues to cool as it rises, it cools more slowly than before. Fierce, turbulent currents of air within the cloud may carry water droplets to all levels. Particles of hail may form at the upper levels and be tossed about in the cloud until they become too heavy to be supported. By a process not as yet known, electric charges are built up in different portions of the cloud to be discharged as lightning. As the lightning streaks through the air, there is a tremendous ripping apart and heating of the air in the

lightning path, producing what we call thunder. Thunderstorms may form when warm moist air is lifted by the advancing wedge of a cold front.

The mechanically ascending air will expand and cool to form clouds and produce thunderstorms along the entire front line. A thunderstorm may also form within a single air mass when a segment of air heats up from being in contact with a very hot part of the earth's surface. In either case the ingredients must include the raising and cooling of a large volume of moist air to form a cloud which contains both water droplets and ice crystals, and favorable conditions for strong vertical currents within the cloud.

The newspaper weather map is a simplified form of one of the forecaster's principal charts. Wind, temperature, amount of cloudiness, and pressure are shown for representative cities, providing a survey of surface weather conditions around the nation.

One of the most effective ways of using the daily newspaper map is to keep three or four consecutive maps on hand up to the current one. Select any given point (Chicago) on the map. Since the map shows the movements of highs and lows with the attending cold and warm fronts, and weather associated with these systems, it is more useful to make the point the center of a high or low, or a point on a warm or cold front. Keep track of how this point is moving on the map by placing an onionskin overlay on the maps and marking the progress of the point. When the point has been charted up to the current map, you will be ready to anticipate or forecast where the point will be 24 hrs. from the current maps' time. This can be generally done by using the "Path Method" which is based upon the movement of a point in relation to a given time. For example, if the point has moved directly from west to east 100 miles in 24 hrs., then has continued another 100 miles the next 24 hrs. from west to east, you may assume that 24 hrs. from now, the point will be displaced 100 miles to

**CALL LAKE SHORE COLLECT**  
**(216) 651-1600**

**FOR ALL YOUR  
TURFGRASS SUPPLIES**

- CHECK OUR PRICES -  
- QUOTATIONS ON REQUEST -

**LAKE SHORE**  
**EQUIPMENT & SUPPLY CO.**  
10237 BEREA ROAD  
CLEVELAND, OHIO 44102

**YOU'RE ENTITLED TO THE BEST**

**golf course  
CHEMICALS**

**(You'll get it - and more!)**

**HERB CARSON**

**AMERICAN RESEARCH CORP.**

11840 MAYFIELD AVE.  
LIVONIA, MICHIGAN 48150  
(313) 522-2400 - EXT. 2401/2402

## **Turf Care the GRANULAR WAY**

**Controlled Release Fertilizers  
Fertilizer - Pesticide Combinations  
Fungicides/Herbicides/Insecticides**

—●—  
**Granular Spreaders**

**LELY / SCOTTS / GANDY**

—●—  
**Turfgrass Seed**  
**High Quality / Wide Selection**



**Charles Croley**  
1120 Jefferson Street  
Lapeer, Michigan 48446  
Phone: 313/664-8266

# PROBLEMS

at "Your Patch of Green"?



**MILLER CENTRAL CONTROLLER**  
Call 398-2233

**For A Mobile Demonstration  
At Your Golf Course**

**Truly Automatic  
Irrigation  
by**

**Miller  
Sprinkling  
Systems**

ROYAL OAK

398-2233

Since 1925

the east. As another example of the path method, if a point has moved 300 miles to the southeast the first day, then 150 miles changing to due east the second day, and moved 75 miles to the northeast on the third day, you can assume that on the fourth day it will move about 37 miles to the north. Essentially, then, the path method is based upon the continuance of a pattern of movement.

Other aids are available to us through the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service. Through this department 2 publications are available. First of all, the average monthly weather outlook which predicts conditions 2 weeks in advance charting the probable temperatures and precipitation expected for any given area. It also gives the predicted pattern of air flow as well as charts on the weather experienced for the past 2 weeks. The other circular available is the local climatological data. This gives a record of exact weather information in our area of what was experienced the previous month. Giving hourly and daily temperatures, precipitation, barometer reading and wind speeds, then makes a comparison of average experienced for that month in previous years.

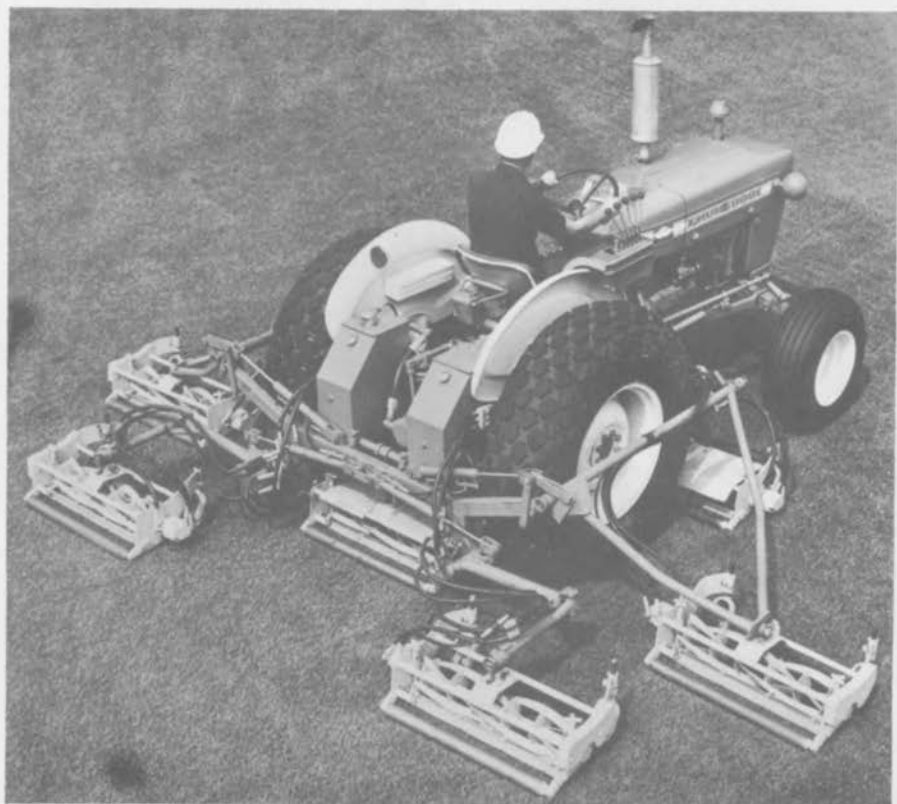
Subscriptions may be obtained by sending \$1.00 (Local Climatological Data) to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 or \$3.50 (Average Monthly Weather Outlook) to the same address.

The following chart may also be useful to those wishing to predict the weather. You may want to photostat yourself a copy for reference during weather forecasts to help make your own estimates of what might be expected.

NOTE: A NW wind blows from the Northwest. A rapid rise or fall in pressure would be equal to or greater than .045 to .09 inches in 3 hrs. A slow rise or fall in pressure would be less than this amount.



# Roseman Hydra-Gang Mower



## Model HG 7

The Roseman 7 unit Hydra-Gang Mower utilizes the tractor hydraulic system to power the cutting reels and provides hydraulic lift for each mower unit. The Hydra-Gang mounts on Ford 2000 and 3000 All Purpose model tractors, equipped with live power take-off.

Drive power for reels taken directly from the tractor engine eliminates need for excessive draw bar pull and minimum weight for traction. Hills and banks can be mowed easily regardless of soft or wet turf conditions. Individual mower units follow ground contour with unlimited flexibility without scalping.

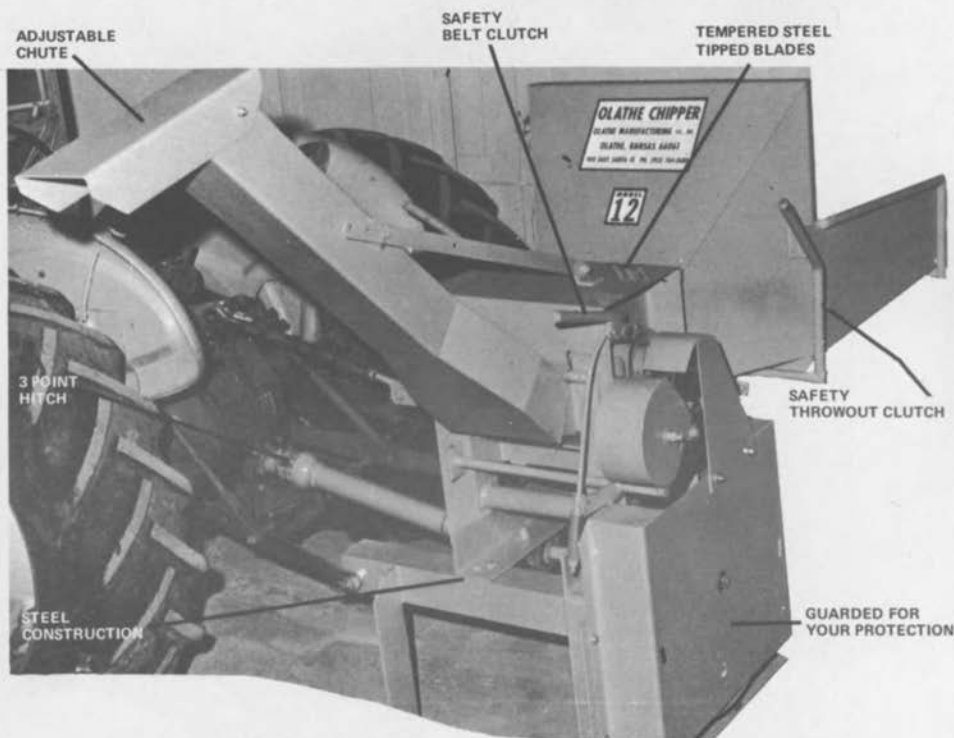


### LAWN EQUIPMENT CORPORATION

520 WEST 11 MILE ROAD, ROYAL OAK, MICHIGAN 48068 (313) 398-3636

# OLATHE CHIPPER MODEL 12

**RUGGED CHIPPING WITH GREATER SAFETY**  
**Designed for Hard Work with a Minimum of "Downtime!"**



***W. F. Miller***

GARDEN AND LAWN EQUIPMENT COMPANY

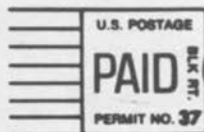
1593 S. WOODWARD AVE. BIRMINGHAM, MICHIGAN 48011

TELEPHONE: (313) 647-7700

**"A Patch of Green"**

31823 UTICA ROAD

FRASER, MICHIGAN 48026



Dr. James H. Beard  
Department of Crop Science  
Michigan State University  
East Lansing, Mich. 48823

