

Coghill Country Club is also adding 18 new holes to their present courses. The new course is designed by Dick Wilson. It should be one of the finest new courses in the Midwest.

The new nine hole course in Lansing was dedicated on September 16. A plaque was placed on the course in memory of the late Ben Hagge, the General Manager.

The Kankakee Country Club is building nine new holes this fall.

River Woods Country Club is nearing completion.

In a recent statistical review of the operations of 50 clubs the firm of Harris-Kerr-Forester and Company report that the average maintenance cost per hole was \$3,307 for 1961-62 and this is 3.9% greater than 1960-61. The past ten years also shows a steady rise in golf course maintenance costs and the 1961-62 average of \$3,307 per hole exceeded 1952-53 by 45%.

Our last monthly meeting was held at the beautiful Racine Country Club, Racine, Wisconsin. This is one of the most attractive courses I have ever seen. The natural beauty of the course cannot be surpassed. The course was in excellent condition. The Wisconsin chapter is to be congratulated for making the arrangements at such a fine club.

Warren Bidwell and his Education Committee have been working hard during the past two weeks making

up a very enticing program. This is to be our 10th Annual Fall Clinic. An anniversary is certainly in order. In order to make this a success we should have a large attendance. Try to make this program. The dates again are Tuesday and Wednesday November 27th, and 28th. The complete program will appear in the November Issue of the *Bull Sheet*.

The October monthly meeting will be held at the Edgewood Country Club. Troy Menees will be the host Superintendent. The Club is located in La Grange, Illinois.

There is no Educational program scheduled for this meeting because of our Annual Golf Tournament. Paul Voykin the Chairman of the Golf Committee promises us that there will be prizes for everyone playing in the tournament. Come early and have fun.

SOIL COMPACTION

DONALD V. WADDINGTON

University of Massachusetts

I. General Considerations

Compaction is a term used to designate the condition of being pressed or packed closely together. Compacted soils are a major problem to turf growers, because herein lies the cause of many undesirable conditions.

A look at some of the symptoms or indications of compaction will bring into light some of these undesirable conditions. Some of the most common conditions which are associated with compaction are:

1. Platy soil structure

THE SEQUESTERED FERTILIZERS



"Can't stop now, I have to get the cup in before this Fertil-Ade green closes the hole."

FERTIL-ADE and AQUA-SOL

For 15 years Golf Course Superintendents have relied on Fertil-Ade or Aqua-Sol for Better Greens that stay Better.

FERTIL-ADE, LIQUID

- No. 1 10-8-6
- No. 2 10-8-6 with extra chelated iron.
- No. 4 15-0-7½
- No. 5 15-0-7½ with extra chelated iron.

INSTANT AQUA-SOL

25-10-20 This ratio of analysis scored "Most Likely for best growth of lawns, trees and flowers."

Distributed by: George A. Davis, Inc. - R. L. Ryerson

SMITH EQUIPMENT and SUPPLY CO.
1615-21 N. Central Ave. • Chicago 39, Illinois



MORE AND MORE MID-WEST GOLF COURSE SUPERINTENDENTS ARE SWITCHING TO IMC FERTILIZER PRODUCTS. YOU, TOO, CAN ENJOY OUTSTANDING RESULTS AT NO INCREASE IN COST.



Our Turf Specialists Are At Your Service!

INTERNATIONAL MINERALS & CHEMICAL CORP.

Skokie, Illinois

--

Phone YO 6-3000

2. Hard soil
3. Dry spots
4. Standing water and wet spots
5. Shallow root systems
6. Tolerant plants such as knotweed and clover

Any one of these conditions is a good reason for one to suspect compaction in that particular area.

The causes of compaction are well known and, unfortunately, often well practiced. Some of the most mentioned causes are:

1. Traffic by man and machinery
2. Excessive tillage
3. Rolling wet soils
4. Raindrop action

Some of these causes cannot be eliminated because they are an important part of the operation of turf areas. Maintenance equipment cannot be eliminated

Established 1930 **NELS J. JOHNSON** Tree Expert
 Reliable, economical Tree Service for Private Estates,,
 Parks, Municipalities, Golf Courses, Cemeteries,
 Schools, Industrial Areas.
 All phases of Arboriculture — Pruning, Treating, Fertilization, Transplanting large trees. Hydraulic and Mist Spraying.
 Correct Diagnosis and Cost Estimates
 Graduate Arborists and Foresters — also
MIDWEST POWER TOOLS INC.
 "Top Tree Tools" — Imported and Domestic
 Increment Borers, Tree Calipers, Pruning Saws, Knives,
 Pioneer Powersaws, Kieken Whirlwind Mistblowers and
 Sprayers, Mitts & Merrill Wood Chippers.
SALES & SERVICE
 Main Office—912 Pitner Avenue—Evanston, Illinois
 Phones: Greenleaf 5-1877 — Greenleaf 5-5255
 "Five Ellums Arboretum"—Walnut Ave.—Libertyville, Ill.
 Phones: Libertyville 2-1121 — Barrington 1088

Proper Feeding Produces Top Turf

ARMOUR PRODUCES A PLANT FOOD FOR EVERY TURF FEEDING PROBLEM

VERTAGREEN 10-8-6 For Professional Use

VERTAGREEN 10-6-4 For Turf & Trees,
Containing Organics

VERTAGREEN 12-3-6 Turf Formula
With U-F and Natural
Organic Nitrogen

VERTORGANIC 8-5-7

Choose the one that's best for your needs, and you can be sure of healthy, well fed turf.

ARMOUR AGRICULTURAL CHEMICAL COMPANY

Chicago Heights, Illinois

-:-

East St. Louis, Illinois

NOW--for the FIRST Time in the Chicago Area!

Soil for Topdressing or for Topsoil on New Greens. Sand, Soil, and Humus mixed to your specifications and delivered on site.

TAMELING BROS. **PEAT HUMUS AND RICH BLACK DIRT**

7400 SOUTH MADISON STREET

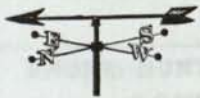
HINSDALE, ILLINOIS

FA culty 3-7171

from any turf area. Players are necessary in order to fulfill the objectives of areas such as athletic fields, playgrounds, and golf courses. Although equipment and players cannot be eliminated as causes of compaction, it is possible to minimize the compaction from these two sources. Soils are more susceptible to compaction when they are wet. Traffic should be restricted on wet soils. Only essential maintenance operations should be performed, and if possible, some regulatory action should be taken on the amount of player traffic.

The roller, especially when improperly used, can be one of the most severe compaction devices available to us. Rolling should not be done when soils are wet. Using a heavier roller than is necessary for the particular job adds to the compaction problem. Tillage operations usually increase the total porosity and air space of a compacted soil, but extreme pulverization and rolling may lead to a decrease in total porosity and air space.

The small raindrop is a most effective compacting



North - South - East - or West
(IN NORTHERN ILLINOIS)

FALL means AERIFICATION

Check your needs now & order
new West Point Turfgrass Products — New for '62
Goodall & Devere Commercial Rotary Power Mowers

— Specializing in Turfgrass Equipment —

FOR INFORMATION - DEMONSTRATION - PARTS & SERVICE — CONTACT

R. G. HOWE DISTRIBUTING COMPANY

7318 West Route 120

Box 487 Mc Henry -- Phone 385-0825

LIQUID MOR-LIFE

12-4-8



KAHN BROS. CO. Boulevard 8-0640

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

LEMONT PAVING CO.

(RAY MURPHY TRUCKING)

115th & Archer Ave. (Rt. 4-A) — Lemont, Illinois
RAY MURPHY CL earwater 7-8701

MILLBURN Peat Moss

SAVES TIME! SAVES MONEY!

PROMPT DELIVERY ON BULK TRUCKLOADS

Write, wire or phone CENTral 6-4246 for details

MILLBURN PEAT CO., INC., 111 NO. WABASH AVE., CHICAGO 2, ILL.

WASHINGTON and TORONTO (C15) STOLONS

SOD FOR ANY SITUATION

MERION AND KENTUCKY BLUE GRASS,

CREEPING BENT, FESCUE OR

MEYER (Z52) ZOYSIA

WARREN'S TURF NURSERY

8400 W. 111th STREET :-: Phone: Gibson 8-7200

PALOS PARK, ILLINOIS

JACOBSEN

FIRST ON THE GREEN —

— FIRST ON THE TEE

ILLINOIS LAWN EQUIPMENT, INC.

14750 La Grange Road - U.S. 45

Orland Park, Illinois

FI eldbrook 9-8484

Bob Johnson

Jim Raines

ROSEMAN

2620 CRAWFORD AVE. UNIVERSITY 4-1842

EVANSTON, ILLINOIS

TURF EQUIPMENT HEADQUARTERS

ROSEMAN GANG MOWERS

ROSEMAN TILLER RAKES

LITTERLIFT SWEEPERS

WOODS LEAF MULCHERS

SOD MASTER SOD CUTTER

PAR AIDE PRODUCTS

STANDARD PRODUCTS

FORD TRACTORS

TRENCHERS

SEEDERS

AERO-THATCH

ROYER COMPOST SHREDDERS

COOPER GREENS MOWER

LELY SPREADERS

SALES

● SERVICE

● PARTS

● RENTALS

FOR THE FINEST IN TURF MAINTENANCE SPECIALTIES

Manufacturers of Liquid Fertilizer Since 1939

"LIQUA-VITA" 15-10-5

15-3-8

12-4-12

The Original Liquid Plant Food for Turf
Does a Fine Job — Costs Less

FUNGICIDES

HERBICIDES

INSECTICIDES

WETTING AGENTS

AMERICAN LIQUID FERTILIZER CO., INC.

and

ROKEBY CHEMICAL COMPANY

P.O. Box 267 - Marietta, Ohio - Phone: FR 3-1394

agent at the soil surface. A thin compact layer is formed by the raindrop action from either irrigation water or natural rainfall. Upon drying, this compacted layer is called a "crust". The impact of the drops disperses soil aggregates, positions soil particles into a close arrangement, and pack them tightly in their new location. The soil pores may be further blocked and reduced in size by inwashing of soil particles carried by the infiltrating water.

The effects of rainfall are most severe on newly prepared seedbeds and young turf areas. The foliage of mature turf greatly minimizes these effects by reducing the energy of the falling drops.

(Continued in the next Issue)

TA lcott 5-1495 Have Stumper - Will Travel

STUMP CUTTER

From Stump To Shavings At Real Savings

No stump to dig or pull No large hole to fill
No stump to haul

Otto E. Georgi 516 N. Northwest Highway
State Licensed Tree Expert Park Ridge, Illinois

PHONE: HUNTLEY 2452

LOUIS SCHACHTNER

Distributor

BLACK DIAMOND HUMUS SOIL

HUNTLEY, ILLINOIS

Merion Blue * Zoysia * Kentucky Blue * Bents
— Penn Cross Bent Sod Now Available —

DEARIE AND STRUD SOD NURSERY, INC.

Route 2 - Box 100 - ELGIN, ILLINOIS

SHerwood 2-5030

GERALD DEARIE
LEhigh 7-4394

JULIAN STRUD
TErrace 2-7513

MILORGANITE

USED AND PREFERRED BY
GOLF COURSES EVERYWHERE

H. & E. Sod Nursery, Inc.

191st St. (Flossmoor Road) & Crawford Ave.
P.O. Box 140, Tinley Park, Ill. - Phone: SY 8-2210

Merion & Kentucky Blue Grass Sod
Toronto C-15 Bent Stolons & Sod at 1/4" height
Sure-Gro Lawn Food 12-6-6

PAUL E. BURDETT

Seeds - Fertilizers and Golf Course Supplies

MYERS SPRAYERS — AGRICO FERTILIZERS

E. I. DU PONT & CHIPMAN CHEMICALS

P. O. Box 241, Lombard, Illinois - MA yfair 7-0232
Paul W. MA 7-0282 Jim MA 9-0223

CLEARY PRODUCTS for BETTER TURF

"PMAS" - Crabgrass & Disease Control

"CADDY" - Economical Liquid Cadmium Fungicide

"SPOTRETE" - 75% Thiuram Fungicide

"C-531" - The old reliable Cadmium, Zinc, Calcium Fungicide

"PM2,4-D" - The all around weed Killer including Silvercrabgrass control.

"ALL-WET" - Added to water it allows quicker and deeper penetration... enables soil to retain needed moisture.

"THIMER" — A broad-spectrum wettable powder fungicide and crabgrass killer containing phenyl mercury and thiram.

"CAD-TRETE" a broad-spectrum wettable powder fungicide containing cadmium and thiram.

"SUPER METHAR" — the new "AMA" liquid crabgrass killer.

DISODIUM METHYL ARSONATE

PRODUCTS FOR CRABGRASS CONTROL

METHAR 80	METHAR 30	METHAR 30
-----------	-----------	-----------

Powder	Powder	Liquid
--------	--------	--------

80% DSMA	50% DSMA	18.9% DSMA
----------	----------	------------

American Research Associates Inc., - Subsidiary

W. A. CLEARY CORPORATION

NEW BRUNSWICK, N. J.

MILORGANITE...



**THE NON-BURN
FERTILIZER
that has
EVERYTHING!**

DO YOUR
STUFF, BOY -
I'M NOT
BOTHERED!

GEORGE A. DAVIS, INC.

5440 Northwest Highway - Chicago 30, Ill.