

be ideally located when an additional nine holes have been installed.

The clubhouse exterior is constructed of quarry stone and concrete block relieved by white pine that has been stained a dark brown.

Built in the shape of an "H," the building's two wings are separated by a spacious main lounge. The east wing houses an ample-sized kitchen with the ladies' lockerroom located in the rear and separated from the kitchen by a small storage room that can double as a cloak room when the necessity arises. The women's lockerroom is finished in white and contains adequate shower and locker space. A comfortable three-room apartment for caretaker's quarters occupies the second story above the east wing.

The men's lockerroom, decorated in yellow and green, contains 85 lockers and is situated in the west wing, behind the bar. Flooring in the bar as well as in the lockerrooms and kitchen is of concrete with master plate finish. An intercommunication system for ordering golf clubs is installed between the pro shop and the clubhouse with loud speakers in each lockerroom.

Quarry stone used on the exterior forms one side of the bar, the other side being of concrete block and knotty pine, a design which achieves an unusual "outside-inside" effect. The effect is enhanced by drapery with a cherry branch pattern. Both the bar and bar stools are constructed of knotty pine. A liquor storage room lies between the bar and the men's lockerroom.

### **Rustic Theme Emphasized**

The main lounge affords a striking view of beautiful Lake Superior through large sliding-type picture windows or from sturdy log-type chairs on the plain front veranda. Measuring 53 by 30 feet, the lounge has knotty pine walls and ceiling and an oak floor. It is furnished with "sophisticated rustic" lounges, chairs and tables of smoky pine. The furnishings, manufactured by Habitant, have been grouped so as to form several separate "visiting units." The lighting scheme includes lamps hung from the ceiling and table and floor lamps, all of which have matching deep green shades. Emphasizing the general rustic theme is a large quarry stone fireplace built against the east side of the lounge.

Green, yellow and red comprise the color scheme in the lounge and throughout the building. The upholstery pattern in the lounge is deep green with a pheasant print. Drapes surrounding the windows have been cut from the same pattern. Grass type rugs are used for

carpeting. A feature of the lounge is an oversized coffee table in which has been sunken a bas-relief model of the course. There are seven entrances to the clubhouse: the main entrance, two rear entrances to the lounge, caretaker's entrance and separate entrances to the bar, men's lockerroom and ladies' lockerroom.

When the new building was opened, the small former clubhouse was converted into a pro shop and caddies' shelter. Pre-



Lounge that can be converted to dining room is central feature of Marquette (Mich.) G&CC new clubhouse.

viously, the pro shop and clubhouse were crowded into the single building.

A landscape project will put the finishing touches on the new clubhouse. Included in the plans is a terrace in front of the kitchen wing. At present the terrace extends the length of the main lounge only. Half-log steps will be set into the slope leading to the main entrance and a tanbark path will be laid through the small grove of trees along the incline leading down from the ninth green to the rear of the clubhouse.

### **Local Firms Cut Costs**

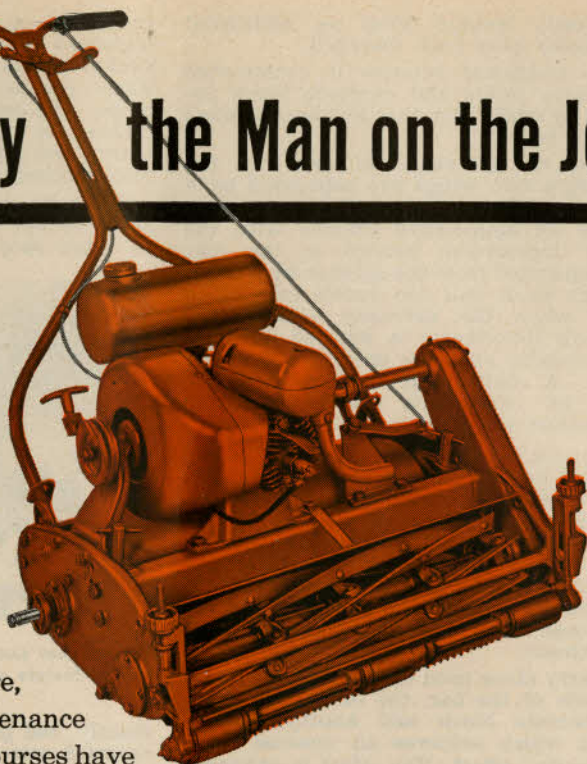
The club's cash outlay for the building, which would ordinarily run to something like \$33,000, amounted to only \$28,000, the low figure being made possible by the wholehearted generosity and interest of local merchants and individuals as well as club members. Several firms in Marquette and nearby Ishpeming made liberal donations of services or materials to the clubhouse. Contractors for the building were MacDonald & Kaake, of Marquette.

The large main lounge figures prominently in plans to defray operating expenses. Two hundred persons can be accommodated comfortably in the lounge, making it an ideal site for banquets and other social events. An oil heating system makes it possible to keep the building open during winter months for such

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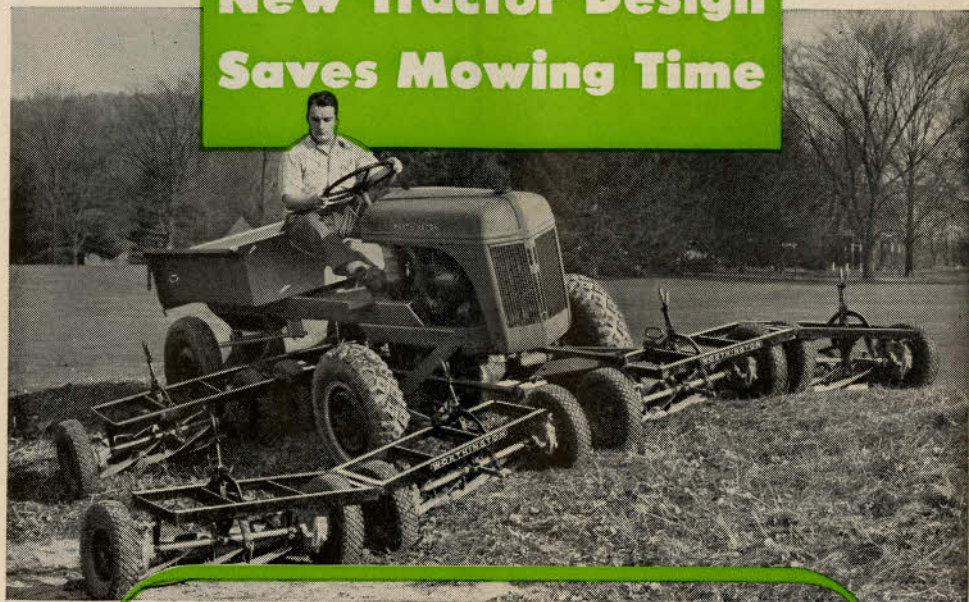
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Subsidiaries: Worthington Mower Company, Stroudsburg, Pa.  
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## New Tractor Design Saves Mowing Time



### Worthington Model F Chief

THE design of the new Model F Chief represents a big step in the development of better golf course mowing equipment. Here's what puts this unit so far ahead.

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With drive wheels in front under the engine, 75 percent of the Chief's weight is on the traction wheels. On any terrain, this machine handles more gang units — 5 instead of 3; 7 instead of 5; 9 instead of 7 — with far less scuffing.

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## WORTHINGTON MOWER COMPANY

Stroudsburg, Pennsylvania

SUBSIDIARY OF JACOBSEN MANUFACTURING COMPANY, RACINE, WISCONSIN

January, 1950

events and the club intends to rent the building for these special occasions. Proximity of the clubhouse to Marquette (it is located one mile southwest of the city) and its inviting setting increase its appeal for social gatherings.

Membership increased above 200 during 1949, the largest in the club's 21-year history, and club officials believe the new clubhouse played no little part in attracting new members, both in the playing and the social classifications. What's more, an even greater membership is anticipated next season, which is causing officials to focus their attention now on expansion of the course to 18 holes. If they get the same enthusiastic support they received on construction of the new clubhouse, theirs should be a readily realized goal.

### Jim Standish Named for USGA Presidency

James D. Standish, Jr., widely known veteran Michigan amateur, has been nominated to be president of the USGA. Nomination is tantamount to election at the association's annual meeting, Waldorf-Astoria hotel, New York, January 28. Standish as a Williams college student, was president of the Intercollegiate Golf Assn. in 1912. He was Michigan Golf Assn. president from 1937 to 1947. He has won the Michigan, North and South, and Austrian amateur championships. He was on the USGA Executive committee from 1927 through 1937 and again since 1946. He became first chairman of the Public Links committee in 1922 and donated the Amateur Public Links championship Cup. He has been a vp of the USGA since 1948 and is chairman of its Green committee. Standish was president of the U.S. Squash Racquets Assn. in 1938-39. He also was vp of Western GA in 1924-25 and is a director of the Michigan Seniors' GA. He was a quarter-finalist in the 1915 National Amateur and runner-up in Western Amateur championships of 1914 and 1915.

Isaac B. Grainger, former sec., USGA, has been nominated for a vice presidency. Totton P. Heffelfinger will be re-elected a vp. John D. Ames, sec. of the Ball and Implements committee, will become treasurer. Richard S. Tufts, chairman of the Championship committee, will become secretary.

New members of the Executive committee will be J. Frederick Byers, Jr., Sewickley, Pa.; Frederick L. Dold, Wichita, Ks.; T. R. Garlington, Atlanta, Ga., and Lewis A. Lapham, San Francisco. Fraser M. Horn, New York, will become General Counsel, succeeding James H. Douglas, New York, who has served in that capacity since 1942.

### Pinehurst's Frank Maples Dies



Frank Maples

Frank Maples, Pinehurst (N.C.) CC greenkeeper for nearly a half century, died at Pinehurst Nov. 9, following an extended illness. He was 63 years old. Regarded as the mid-south's foremost course maintenance expert, Pinehurst's famous courses and others in the Carolinas are living memorials to his ability as a golf architect and builder. Mr. Maples never left Pinehurst from the day, shortly after the turn of the century, when he walked from his home at Southern Pines and began construction of the Pinehurst courses. Richard S. Tufts, president of Pinehurst, Inc., paid the following tribute to the man who had given so freely to the advancement of golf turf throughout the mid-south district:

"The professions of greenkeeper and golf course architect call for a blend of many exceptional qualities; Frank Maples had them all to an unusual degree. These attainments made him a leader in this country in his chosen profession and, at the same time, a man of great personal character. Golfers the world over are indebted to him for the pleasure his work here has afforded them and his influence on greenkeeping and architectural work elsewhere."

Mr. Maples is survived by his wife, a son, Henson, now in charge of Pinehurst's courses, a son, Ellis, pro-greenkeeper at Raleigh, N.C., and a daughter, Mrs. Harold McAllister who lives with Mrs. Maples.



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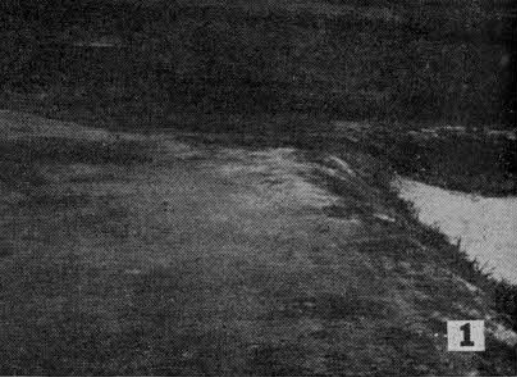
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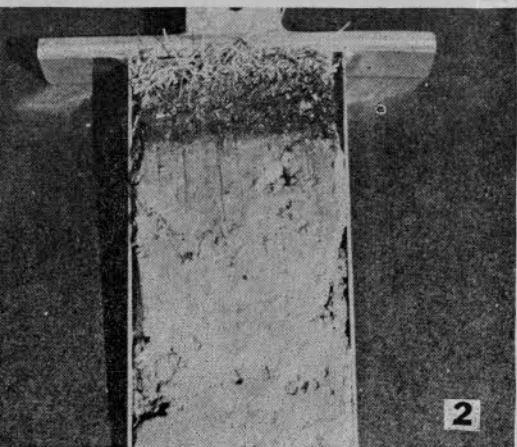
# Modern Machines --Cut Costs of



1

The quick and plainly visible benefits of turf aerification justified the heavy expense of considerable manual labor in the past. But, it was the low cost of the operation made possible by the recent development of speedy, efficient machinery that has moved aerification high up on the list of essential continuing maintenance operations throughout golf and other sports turf fields. Many undesirable conditions can be corrected through aerification and better turf, more economically maintained.

The vast majority of American courses are considerably over 20 years old. Soil compaction, resulting from years of play and equipment traffic, inadequate drainage, etc., has been generally recognized as one of the most common, and perhaps most costly handicaps to natural turf development. When soil is compacted, water and air cannot move through it, plant food



2

1—Turf is going out due to lack of moisture because water runs off compact ground. Aerification to open up soil and admit water would correct this. 2—A layer of undecomposed organic material on the surface prevents penetration of air, water and fertilizer. Aerification breaks through such surface layers so materials can enter soil. 3—Uniformly good root growth on lawn which has been aerified regularly. 4—Deep roots spread out in Aerifier hole due to presence of air, moisture and plant foods beneath the surface. 5—A poor



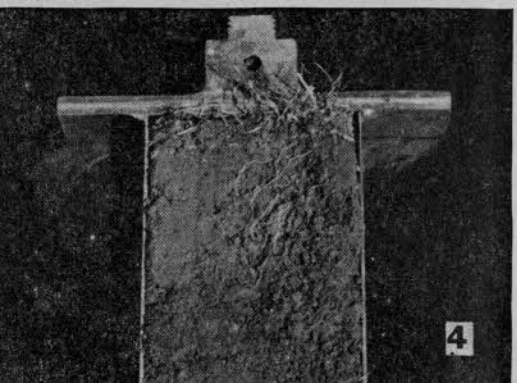
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## New England Turf Association Holds First Field Day

The New England Turf Association held its first field day at the Univ. of Mass. October 21, 1949 to give members an opportunity to inspect turf research they have partially financed.

Prof. Lawrence S. Dickinson opened the meeting in the morning by outlining the progress made since turf research was resumed at the University in 1948. He gave some idea of the program to be followed next year, stating that considerable attention to watering problems is justified. Closely allied to this subject is an investigation into foundations for putting greens, a project which is being started this autumn at the University. Variety tests will be continued and expanded together with the study of fertilizer treatments for flat areas and



4

# Broaden Benefits Aerification

cannot get down to the root zone and the resultant shallow-rooted turf cannot stand up under adverse weather conditions.

The existence of thatched layers and matting at the surface of the soil also prevents efficient entry of elements essential to the turf's healthy growth. Turf is more susceptible to disease when compacted or thatched conditions are permitted to exist.

Uniformly good establishment of grass has been obtained by aerifying several times to prepare a seedbed in existing turf.

Water efficiency and conservation are important benefits of adequate aerification which helps the soil to capture the water without run-off, and hastens its penetration through the usually 2 in. to 3 in. upper compacted layer.

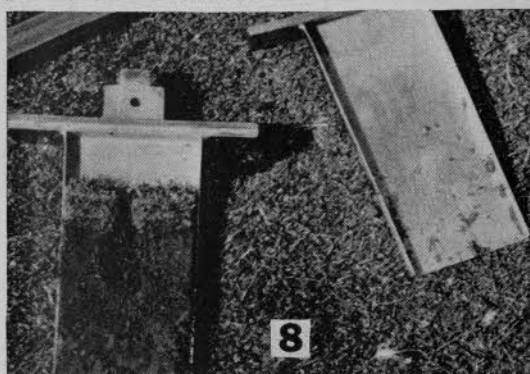
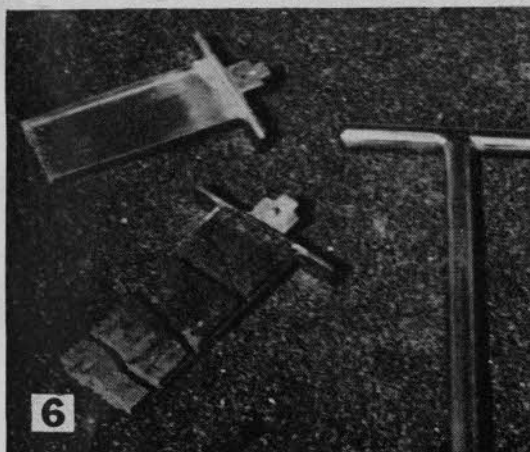
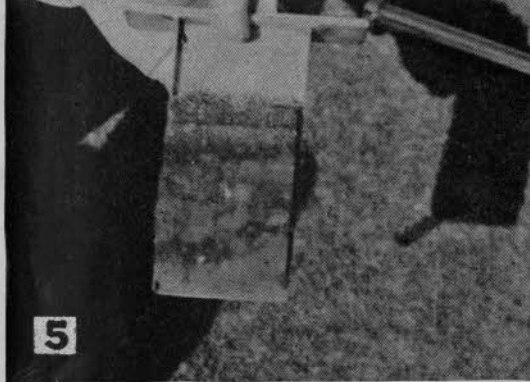
The accompanying illustrations show some of the reasons for, and benefits of, aerification.

mixture of soil in this green has resulted in poor turf. With regular aerification, soil will become mixed and new materials can be added to it. 6—Compact, heavy soil breaks apart. Roots will not penetrate. Regular aerification to loosen soil and help introduce coarser material will bring improvement. 7—Localized dry spots need aerification so water can penetrate well down into soil. 8—Cross-section shows how the cultivation action of the Aerifier loosen the under surface soil with but a small opening left at the surface.

slopes. This experiment involves fertilizing of a putting green on which flat areas receive different fertilizers than the slopes.

Prof. Dickinson mentioned the large enrollment in turf courses. 105 students were enrolled in courses under himself and Mr. Cornish, 25 majoring in the two year turf course; others were students majoring in Landscape, Ornamental Horticulture and Arboriculture, who are taking one course in turf. This figure did not include students to be enrolled in the ten weeks Winter School commencing January 1 which is already oversubscribed.

Prof. G. Cornish reported on results he had obtained in a comprehensive experiment conducted over the last two years on the control of clover in turf. He stated that he had verified quantita-





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Members and officials of the New England Turf Assn. gather at Univ. of Mass. for first Field Day. Group shown above inspected turf plots and research work resumed in 1948 at the Univ. under direction of Prof. Lawrence S. Dickinson. Special emphasis has been placed on study of watering problems in 1950 because of unusual drouth conditions experienced in 1949 in most of New England area.

tively by direct count under controlled conditions, that the long established sulfate of ammonia practice by greenkeepers to reduce clover was justified. But for complete eradication, he found that applications had to be very heavy, and he feared that the use of nitrogen at these excessive rates might cause conditions equally as bad as the clover. However, the treatment need not be so drastic if the greenkeeper resorted to aeration in some form at the same time as the nitrogen application and also checked overwatering. The time of season of application is also important.

Prof. Dickinson conducted the group over the experimental putting greens, demonstrating to the visitors, the results of fertilizer practices.

On a nearby area, he showed the group the start of an experiment to determine the tolerance of various grasses to a deficiency of either nitrogen, phosphorus, or potash. These plots are on a dry sandy side hill. They were seeded in May and received no water other than rainfall. This year the value of a no nitrogen fertilizer for seedlings was clearly shown by the varied growth of grass on these plots. Some grasses under nitrogen treatment were practically wiped out, while others despite the drought, had formed a good even turf.

### **Western Canada Pros Withdraw From Canadian PGA**

Western members of the Canadian PGA irked because the dates for the CPGA tournament and the Canadian Open did not follow one another last summer as reportedly had been agreed upon withdrew from the organization and formed the Western Canada PGA. Officials of

the two tournaments which were held in Eastern Canada apparently did not see fit to schedule both events close enough together to allow the western boys to play in one without laying over in Montreal or Toronto for a week to play in the other. This coupled with the fact U.S. pros take a sizeable chunk of the top prize money in the Open leaving little more than experience for the Western Canadian boys to play for helped bring the rift between the Eastern and Western groups into the open and the break which resulted in formation of the new group. The new organization includes Manitoba, Saskatchewan, Alberta and British Columbia.

### **Stanley Van Dyke New Chicago District GA Head**

At the annual meeting, Dec. 6, 225 members of the Chicago District Golf Association's 87 member clubs applauded the reports of out-going pres. Frank Whiston and his officers on one of the most successful years in the district group's history and welcomed the well qualified Stanley Van Dye (Beverly and South Shore CC), as their new pilot for 1950. During 1949, 13,483 handicap cards were distributed, 1,992 golfers participated in the CDGA 66 day event schedule and 11 new clubs joined the fold. Report of chrmn. John Garrow of the Club Management Committee, having to do with group cooperation and action in helping solve district club's operating problems, indicated considerable progress made in important big business of golf club management. Increasing willingness of clubs to exchange their hard earned do's-and-don'ts promises more rapid headway in 1950, according to Garrow.

# Chemical Application Guide

Originated by Robert Williams and Developed by the Practical Turf Research Committee of The Midwest Association of Golf Course Superintendents

WESTMORELAND C.C.  
LAGRANGE C.C.  
NORMAN JOHNSON  
NORTHWOOD C.C.  
PINEHURST C.C.  
PINEHURST C.C.  
PAUL BURETT  
LOMBARD, ILL.

TREATMENT FOR	DISTINGUISHING CHARACTERISTICS	MATERIALS	1000 Sq. Ft.	RATE	5000 SQ. FT. GREEN	METHOD OF APPLICATION	SOLUTION 5000 SQ. FT.	WASH IN	TIME OF APPLICATION	LOCAL DATA	REMARKS
Dollar Spot	Stew colored circular spots 1/2" to 1 1/2" in diameter. Affects bent grass	Crag or Du Pont 531 Purford 177 Cate-Chlor Special Smanen Teran	3 oz. 1 1/2 oz. 3 oz. 3 oz. 3 oz.	1 lb. 1/2 lb. 1 lb. 1 lb. 1 lb. to 2 lbs.	1 lb. 1/2 lb. 1 lb. 1 lb. 1 lb. to 2 lbs.	Dry Mix of Spray " " " " " " " "	25 to 50 gals. 25 to 50 gals. 50 to 100 gals. 50 to 100 gals. 25 to 50 gals.	None None Light Light None	Every 2 weeks during growing season " " " " " " " "	Can use safely anytime during the year Use with caution during hot weather Use with caution during hot weather Use with caution during hot weather Safe anytime, do not water for 24 hrs.	
Large Brown Patch	Brownish colored circular areas from 6" to several feet in diameter, dark ring around perimeter. Affects bent grass	Special Smanen Cate-Chlor Pliers Teran	3 oz. 1 1/2 oz. to 3 oz. 3 oz. to 6 oz. 3 oz. to 6 oz.	1 lb. 1/2 lb. to 1 lb. 1 lb. to 2 lbs. 1 lb. to 2 lbs.	1 lb. 1/2 lb. to 1 lb. 1 lb. to 2 lbs. 1 lb. to 2 lbs.	" " " " " " " "	75 to 100 gals. 50 to 100 gals. 50 to 100 gals. 25 to 50 gals.	None Light Light None	Weekly during hot humid weather, and/or at time of attack " " " " " "	Use with caution in hot weather Use with caution in hot weather Use with caution in hot weather Safe anytime, do not water for 24 hrs.	
Snow Mold	Stew colored circular areas 6" to several feet in diameter. Affects bent grass	Teran Cate-Chlor Aminate of Lead Chlorinate (Actual Tonicant) D.D.T. (Actual Tonicant)	1 1/2 lb. to 1 lb. 3 oz. to 5 oz. 1 lb. to 2 lbs. 1 lb. to 2 lbs. 2 1/2 lb. to 5 lbs.	2 1/2 lb. to 5 lbs. 1 lb. to 2 lbs. 1 lb. to 2 lbs. 1 lb. to 2 lbs. 2 1/2 lb. to 5 lbs.	" " " " " " " " " "	" " " " " " " " " "	25 to 50 gals. 50 to 100 gals. 50 to 100 gals. 25 to 50 gals. 25 to 50 gals.	None None None Yes Yes	About December 1st. " " " " " " " "	Additional treatment may be applied in early spring Additional treatment may be applied in early spring	
Chworm Webworm	Chworm Webworm	Aminate of Lead Chlorinate (Actual Tonicant) D.D.T. (Actual Tonicant)	1 1/2 lb. to 1 lb. 3 oz. to 5 oz. 1 lb. to 2 lbs.	2 1/2 lb. to 5 lbs. 1 lb. to 2 lbs. 1 lb. to 2 lbs.	" " " " " "	" " " " " "	25 to 50 gals. 50 to 100 gals. 50 to 100 gals.	None None None	" " " " " "	Not to be confused with Stinkworm	
Earworm	Earworm	Aminate of Lead	5 lbs.	25 lbs.	Dry	Dry	25 to 50 gals.	Yes, well	Spring and/or fall	Use 3 lbs. actual D.D.T. and 4 oz. Lysol. Will definitely prevent hedge	
Ant Flies and Moleworms Grubworm	Ant Flies and Moleworms Grubworm	Chlorinate (Actual Tonicant) D.D.T. and Lysol D.D.T. (Actual Tonicant) Chlorinate (Actual Tonicant) Aminate of Lead	Ant D.D.T. and Lysol D.D.T. (Actual Tonicant) Chlorinate (Actual Tonicant) Aminate of Lead	Ant D.D.T. and Lysol D.D.T. (Actual Tonicant) Chlorinate (Actual Tonicant) Aminate of Lead	Spray Wet or Dry Wet or Dry Wet or Dry Wet or Dry	Spray Wet or Dry Wet or Dry Wet or Dry Wet or Dry	25 to 50 gals. Any None None None	Heavy Heavy Heavy None None	As needed In early stages or at first appearance of damage. During growing season As desired	Do not use on grass in hot weather Treat bent in Spring only, with caution. Do not seed for 4 weeks after application	
Broadleaf Weeds (Mustard, Sorrel, etc.)	Broadleaf Weeds (Mustard, Sorrel, etc.)	2,4-D (Actual Acid) Sodium Arsenite	1 lb. per ACRE 1 oz. to 4 oz.	5 lbs.	Dry	Spray	40 to 100 gals. 100 gals.	None None	Late May, June 15th and early July Best results in the seedling stage Seedling stage Spring and early Summer	Taken from practical reports Check manufacturers data Do not use on grass. Check manufacturers data Use weekly until under control Do not use on grass	
Crab Grass	Crab Grass	Aminate of Lead Sodium Arsenite PMAS (Liquid) Anionic Acid	5 lbs. 1 oz. to 2 oz. 3/4 gal. per ACRE	25 lbs.	Dry	Spray Spray Spray	None 100 gals. 25 to 50 gals. 100 gals.	None None None None	Late May, June 15th and early July Best results in the seedling stage Seedling stage Spring and early Summer	Taken from practical reports Check manufacturers data Do not use on grass. Check manufacturers data Use weekly until under control Do not use on grass	
Incompatible Insecticides	Incompatible Insecticides	Acetone and Special Se- minal and Crag 531 Lime and Fertilizer								Generally speaking, chemicals should not be mixed	

THIS CHART IS COMPILED FOR THE BENEFIT OF OUR MEMBERS AND IS THE RESULT OF PRACTICAL RESEARCH EXPERIENCE BY SUPERINTENDENTS OF THE MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS. THE MATERIALS AND RATES ARE NOT TO BE CONSIDERED AS A RECOMMENDATION BY THE ASSOCIATION. THE ASSOCIATION DOES NOT GUARANTEE THE RESULTS OF THE APPLICATION OF THE MATERIALS AND RATES. INFORMATION OF THIS CHART WILL BE PERFORMED IN A SENSIBLE AND FLEXIBLE MANNER. ALL RATES INDICATED SHOULD BE DOUBLE CHECKED FOR USE UNDER INDIVIDUAL LOCAL CONDITIONS.

The above guide, first of several charts to be prepared by Practical Turf Research Committee of Midwest Assn. of Golf Course Supts., will be available for first time at NGA National Conference and Show, Boston, Mass., Feb. 6-10. The 20" x 30" chart printed on durable paper for hanging on wall or placing under glass top of desk for ready reference was prepared primarily for members of Midwest group. It can be obtained by any greentkeeper at small cost through secretary of his local turf assn. Direct mail orders cannot be accepted. Quantity orders by assn. sec'ys. should be addressed to Donald Strand, Greentkeeper, Westmoreland CC, 2601 Glenview Road, Wilmette, Ill.