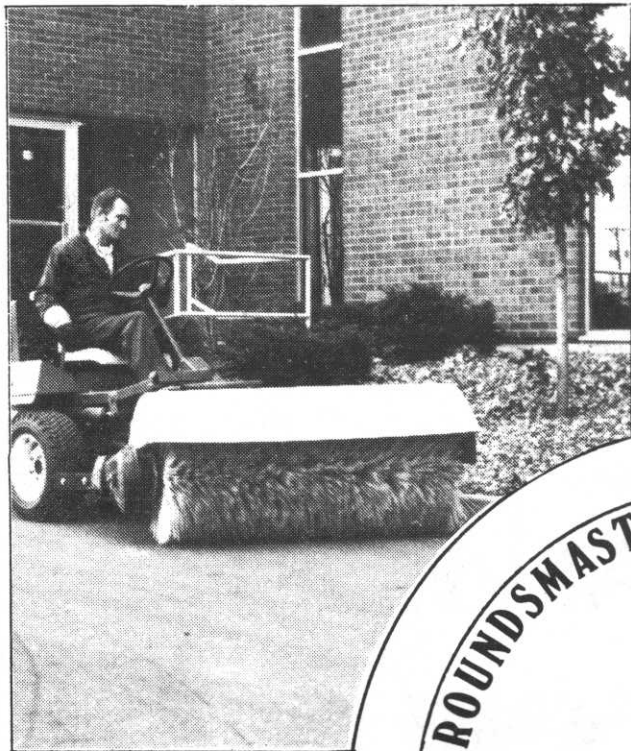


GROUNDMASTER 72

IN ACTION

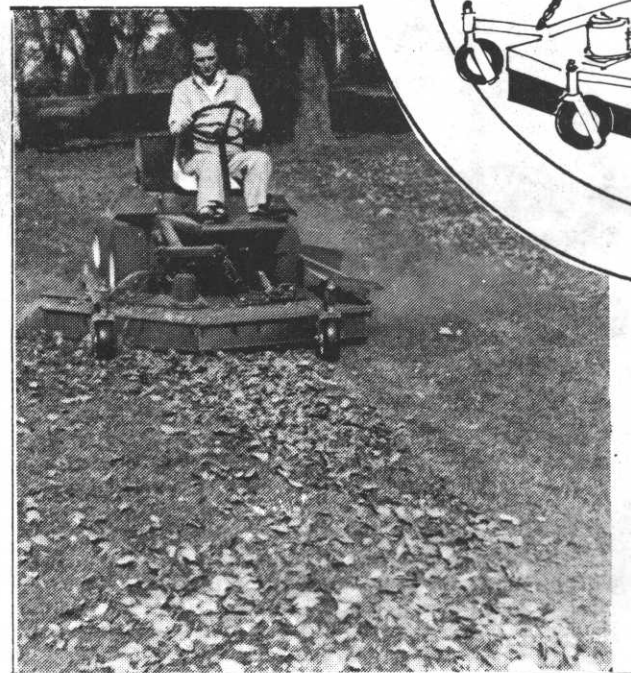


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FALL



WINTER



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Green Clippings

CLIP 1: Perfect weather greeted each and every member as they entered into Northern Minnesota on June 14 for what has become almost an annual affair of a monthly meeting at the Cloquet Country Club. John Lightfoot hosted this very delightful day for about 70 wives and members of the M.G.C.S.A. and Arrowhead Association. John, as usual, had his course in nice shape which always makes for great golf. No casualties were reported even by those who had to make the treacherous walk up cardiac hill which is another name for the spectacular 5th Hole at Cloquet. That evening everyone was treated to an excellent buffet dinner in the clubhouse.

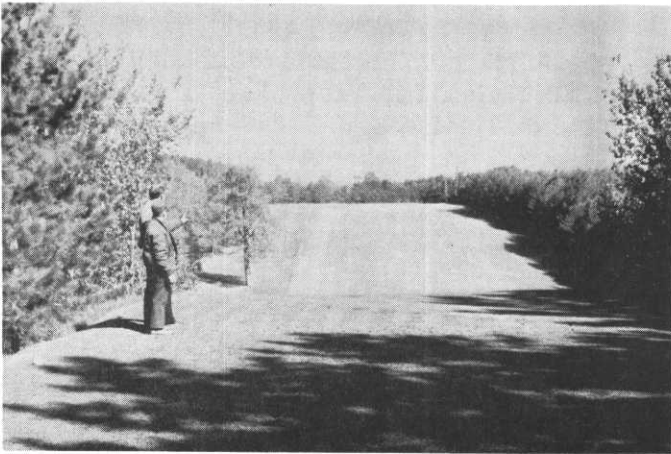
John's club president and green chairman were present for dinner and it is very gratifying to hear nothing but praise from them for the job John is doing. That is what really keeps us all going. Again, our thanks to John and all the staff at Cloquet for a very pleasant day.

CLIP 2: For Sale: Toro Sand Pro: The hydraulic pump and the motor have just been re-conditioned. A steal at \$900.00. 1971 Jacobsen Greensking: Reels are in good condition. Motor will need some work, also has verticut attachments. Greensking and cutting units \$900..verticuts \$300. If you are interested in any of the above items, contact Jim Lindblad at Wayzata Country Club, 473-8846.

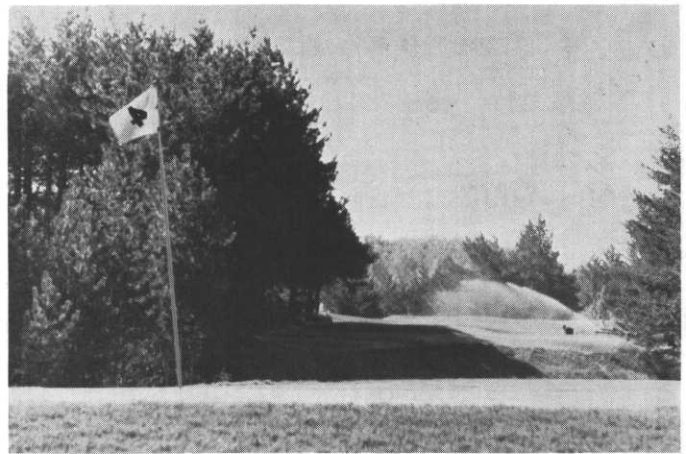
CLIP 3: HOLE NOTES has received information concerning the Mid-Continent Recreation and Park Conference. It will be held August 15-18 in Fargo, North Dakota. You do not have to be a member of Mid-Continent to attend. For further information contact Vern Hansen, (701) 235-8234.

CLIP 4: Jim Lindblad, Chairman of the Scholarship and Research Committee, reports that personal contributions have been received from Dick DeSplinter, Dale Hendrickson and a very generous check from Austin Country Club's superintendent, Leif Erickson. Thank you very much, gentlemen, for your concern and we only wish there were some way we could get more involved in this important program that now more than ever needs our support.

CLIP 5: MEETING DATE CHANGED. The August meeting of the M.G.C.S.A. to be held at the Forest Hills Golf Club has been changed to August 16, 1976.



CARDIAC HILL. Superintendent Lightfoot points out the steep fairway on the 520 yard 5th Hole on the Cloquet C.C. where the word Cardiac is an understatement.



SHORT BUT DEADLY. A view from green to tee of the 133 yard, Par 3, 4th Hole at Cloquet which plays over a deep ravine that comes up to the right edge of the green.

CAN OUR ELM TREES BE SAVED?

By Dr. David French, Department of Plant Pathology
Institute of Agriculture, St. Paul, Minnesota

It seems that the Dutch elm disease has descended on Minnesota and has unleashed its full fury. We knew this would happen and, in fact, had predicted sharp increases in numbers of diseased trees for 1976. It appears, on the basis of preliminary observations, that the losses are going to exceed what we had predicted. The losses predicted for 1975 for five cities in Minnesota are as follows:

Bloomington	3,587	North St. Paul	878
Minneapolis	2,070	St. Paul	10,410
Northfield	31		

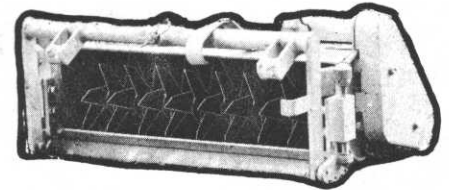
What is even more impressive are the accumulative losses and projected costs of removing and replacing these trees. The losses by 1985 will amount to:

	<u>Elms Killed</u>	<u>Removal & Replacement Costs</u>
Bloomington	392,800	\$ 97,596,750
Minneapolis	130,000	31,692,000
Northfield	7,335	1,822,750
St. Paul	130,489	29,429,250

We wonder if people even realize how extensive and expensive these losses will be.

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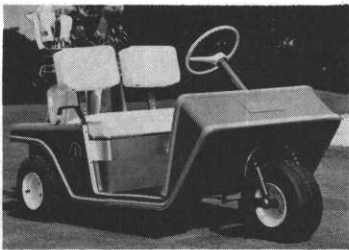
PHONE 612-472-4167

Unless these trends are altered by improved control programs, 99% of the elms will be lost in St. Paul by 1985. In Bloomington by 1985, 98% of the elms will be lost and in Minneapolis 76% will be gone by 1985. Such losses will considerably alter the appearance of these cities and destroy much of their beauty. Many golf courses have relied on the American elm to a large extent with large elms surrounding club houses, lining fairways and as back drops for greens. It will be a battle to save these trees. If these elms are killed it will take many years to replace them and decades will pass before large shade trees can provide the natural beauty afforded by the elms.

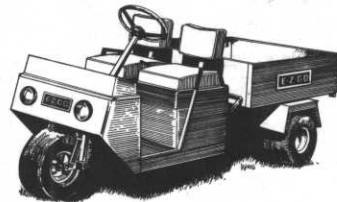
Undoubtedly many people have the impression that one of the new systemic fungicides such as Lignasan BLP will save our elms. It would be most unfortunate to discontinue or even divert any effort from the sanitation program. Actually the effort put into sanitation should be greatly increased. If a community's Dutch elm disease program fails, it will be because of a poor sanitation effort, not because of lack of Lignasan injections. Hopefully people in Minnesota will concentrate their efforts on established control measures and not reach out for a miracle which has not been proven.

Future of the Elms in Minnesota. As matters stand now in this state, it will not be possible to stop Dutch elm disease but it is reasonable to think about slowing the process of the disease; thus allowing time to replace the diseased trees. More important, if the disease can be slowed, it is then easier to keep pace with the tree removal operations. If sanitation programs are intensified, the accumulated losses projected for 1985-1990 could be delayed until 2020. Some elms will survive in spite of what happens but they will never again be the dominant feature they now are in our cities, parks and golf courses.

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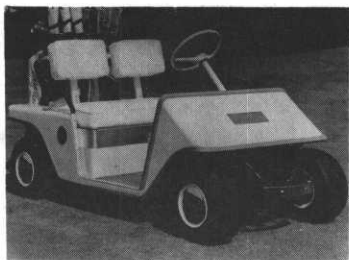


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Control Measures. A good program for saving our elms consists of effective detection of disease and diseased elms, complete elimination of these trees as places for the bark beetles to build their populations and disruption of common root systems between infected and healthy trees. The failure of some control programs can be traced to inefficient detection of diseased trees. It's important to have survey people who are concerned about the trees and will locate a high percentage of the infected trees. Elms damaged by salt or other factors should not be condemned unless sections of the trees have been killed. It is essential to locate trees which are in obscure places and yet easily available to the bark beetles. Wild areas including river vallies, industrial areas and inaccessible places are often sources of tremendous numbers of beetles. We are hopeful that an aerial detection system can be developed but very likely we will always need to rely to a large degree on ground surveys. On golf courses there is no excuse for allowing any diseased tree to escape unnoticed.

The best means of sanitation is to utilize the elm logs either by sawing them into useful products or chipping them. It's unfortunate that disposal systems have been so slow in developing. Every community would have a better control program if disposal systems had been developed more fully. In our opinion there are other techniques which can be used to prevent increases in beetle populations, but there has been little support for such attempts. In wild areas it would be far more sensible to chemically treat trees in such a way that beetles could not colonize them, rather than declare that it costs too much to handle these trees. Both potassium iodide on standing trees and pentachlorophenol on down trees are effective, but unfortunately have not been accepted as recommended procedures. Improvement of sanitation procedures is where a significant part of the research efforts should have been directed.

Even though chemical barriers using vapam are not completely effective, they do work. Often the reason for failure is because of the applicator rather than the chemical. Frequently the fungus has already moved to the next tree. Symptoms are not yet apparent and thus the barrier is placed in the wrong place, behind the fungus. One must be out in front of the fungus to stop it.

Lignasan BLP, which is benomyl solubilized with phosphoric acid, has shown promise in protecting elms from infection. In some instances it has cured trees in early stages of the disease. It will not work when the fungus has become established in the main stem. Trees invaded through common root systems can not be cured with Lignasan. We have observed trees with what we interpreted as symptoms involving less than 5% of the crown, only to find that the fungus was already well established in the main stem. Such trees can not be saved with Lignasan.

Based on our studies to date, we have found that removal of the fungus by pruning is more effective than treating with Lignasan. We also have observed that pruning (leaving large freshly cut surfaces) apparently attracts beetles to these trees; thus resulting in infection. If trees need to be pruned when beetles are active, such pruning wounds should be painted.

Golf Courses are well maintained and it is much easier to control Dutch elm disease in such places. Therefore, it should be possible for golf courses to have reasonably effective control programs...especially if not surrounded by areas where control is not practiced. We have no choice but to increase our efforts to control Dutch elm disease. We should attempt to obtain maximum return for money invested in such programs.

FROM THE NATIONAL OFFICE

"50 YEARS OF PROGRESS" IS THEME FOR THE GOLDEN ANNIVERSARY CELEBRATION*****

We hope that all GCSAA members have marked September 13, 1976, as a very special day on their calendars. Sylvania Country Club will be the focal point for the many activities associated with GCSAA's 50th Anniversary Celebration and it is hoped that many members will be in attendance to participate in the day long festivities. Registration materials for the anniversary activities and annual tournament are in the process of being printed and will be mailed to all members in the near future.

During the day there will be demonstrations of some of the old equipment which will be on display at the club. Several of these items will come from GCSAA's permanent collection housed at Michigan State University, with other pieces from private collections of members and commercial firms in business at the time of founding of the Association. Historical photographs and several audio/visual presentations, including a Ray Gerber film, will also be part of the daytime activities.

The high point of the afternoon's events will be the presentation of a GCSAA plaque to the Sylvania Country Club. The plaque, cast in bronze, will be permanently mounted on a large stone to commemorate GCSAA's founding at Sylvania Country Club. The inscription will read, "Birthplace of Golf Course Superintendents Association of America. Founded as National Association of Greenkeepers of America. September 13, 1926, Sylvania Country Club." Plans call for association and club officials to be "piped" from the clubhouse to the presentation site by a Scottish bagpiper.

Among the honored guests expected to be in attendance will be Charter Members, Past Presidents, Outstanding Service Award recipients, governmental officials, representatives of the several allied associations, and reporters from the major turf and golf publications.

After the day long activities, the Anniversary Celebration will conclude with an evening banquet and ceremony keynoted by Arnold Palmer. Chapter members, Past Presidents and the eleven (11) Outstanding Service Award recipients will be honored at the evening affair. Due to the limited seating at the banquet ceremony, advanced registration and purchase of tickets will be mandatory. The banquet is the only activity for which there will be a charge. However, all members planning to attend the days celebration will be encouraged to pre-register to give the Committee and GCSAA staff a better opportunity to plan for transportation, parking facility requirements, and the 50th Anniversary souvenirs.

Practice rounds will also be played in preparation for the GCSAA Golf Tournament to be held September 14 and 15. Details concerning the tournament appear in this month's Member Newsletter.

Again, the Golden Anniversary Committee urges members to begin making plans now to attend and participate in the anniversary activities of their Association on September 13, in Sylvania, Ohio.

FOLLOW THE SUN TO HAWAII AFTER THE PORTLAND CONFERENCE AND SHOW*****
GCSAA will offer a week long trip to the "Pearl of the Pacific - Hawaii" February 12-19, 1977, as a Post Conference Tour from Portland. All GCSAA members, their families, and friends of the Association are eligible to take advantage of this first-class quality tour.

Through the services of Maupintour, respected the world-over for outstanding first-class tours, those participating will:

Fly aboard Continental's 747 or DC-10's special "Aloha Spirit" flight from Portland to Honolulu -

Receive a happy "Aloha" and flower lei welcome upon arrival in Honolulu -

Spend three (3) nights at the fabulous Kuilima Resort Hotel and Country Club where the feel of the famous "Outer Island atmosphere" of Hawaii is unsurpassed. Guests will have golf and tennis privileges as well as the opportunity to participate in snorkel and scuba lessons, tennis clinics, contract bridge instruction, hula lessons and more -

Tour by air conditioned motor coach to view the lush landscape panoramas for which Hawaii's North Shore is world-famous. Sites will include volcanic mountains, sugar and pineapple plantations, fishing villages, Makapuu Point, Sea Life Park and Honolulu -

Spend four (4) nights at the world-famous Sheraton - Waikiki, where every room's balcony brings to view the blue Pacific and the most famous beach in the world -

Celebrate with native dancers the ancient rite of the Luau -

Have the time to take advantage of the many optional tours and activities which include Pearl Harbor Cruise, Circle Island Tour, Sunset Dinner Cruise, Don Ho Dinner Show, Sea Life Park Tour, tour of Polynesian Cultural Center, tours to other islands, and many more -

Tour some of Hawaii's finest golf courses -

CONGRATULATIONS

Life Member Carl Anderson has been awarded the G.C.S.A.A. Distinguished Service Award for his outstanding contributions to the advancement of the profession of Golf Course Superintendency. Carl will receive an expense paid trip to Sylvania Country Club in September for acceptance of the award during G.C.S.A.A.'s Golden Anniversary Celebration.

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MGCSA ANNUAL GOLF TOURNAMENT

Hazeltine National Golf Club

Chaska, Minnesota

MONDAY, SEPTEMBER 20th, 1976

Registration must be received by Carl Johnston, 799 11th Ave. S.W., Apt. #111, Forest Lake, Minn. 55025 by September 13, 1976. (Late entries cannot be accepted.) The same deadline applies for dinner only. Dinner only reservations must be made at the same place.

There will be a double shotgun start, 8:30 a.m. and 1:30 p.m. The first 30 foursomes will play at 1:30 p.m. and the rest will play at 8:30 a.m. You will be notified of starting time and which hole you will be starting on. NO EXCEPTIONS WILL BE MADE SO PLAN EARLY. IF YOU NEED TIME TO FILL YOUR FOURSOME INDICATE ON ENTRY FORM AND SEND THE MONEY TO COVER THE GROUP. YOU THEN CAN FILL IN YOUR ENTRIES' NAMES THE DAY OF THE TOURNAMENT.

Only one foursome per club will be excepted. If an assistant is not included in the Superintendent's foursome, he will be assigned a starting time and foursome. He cannot bring guests. Associate members may not bring guests. (Exception) All members may bring a guest to dinner but must make reservations with Carl Johnston by Monday, September 13, 1976 as outlined in the first paragraph.

The entry fee is \$19.00 per person and will include golf, dinner with tax and gratuities included. Prize money is also included in the entry fee.

PRIZES WILL BE AWARDED AT THE DINNER

Lunch will be available at the Hazeltine National Golf Club. The cost of the lunch is not included in the entry fee.

Cocktail hour will be from 6:30 p.m. to 7:30 p.m. with dinner to follow.

RESERVATION FORM

I will be unable to play golf but will be there for dinner and I will have _____ guests. Dinner tickets \$15.00 per person. MGCSA Member's Name _____

Registration for Golf:

MGCSA MEMBER NAME _____ Title _____ Hdcp. _____

Name of Guest _____ Title _____ Hdcp. _____

Name of Guest _____ Title _____ Hdcp. _____

Name of Guest _____ Title _____ Hdcp. _____

Number of Carts Preferred _____ Number of Carts You Must Have _____

Cart rental will be \$6.00 per cart. Please include this amount in your entry registration. REMEMBER YOUR CHECK FOR THE FULL AMOUNT MUST ACCOMPANY YOUR ENTRY FORM. PLEASE indicate morning or afternoon tee times.