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M.A.G.C.S. September 21st meeting will be held at McHenry C.C. Harold Michels, Supt. will be our host. Bring your golf clubs, Harold will be waiting for you.

## A HAPPY HOME RECIPE

- 4 cups of love
- 2 cups of loyalty
- 3 cups of forgiveness
- 1 cup of friendship
- 5 spoons of hope
- 2 spoons of tenderness
- 4 quarts of faith
- 1 barrel of laughter

Take love and loyalty and mix it thoroughly with faith. Blend it with tenderness, kindness, and understanding. Add friendship and hope. Sprinkle abundantly with laughter. Bake it with sunshine. Serve daily with generous helpings.

-- copies from AMERICAN FARMER

### A CONCEPT OF A VOLUNTEER

- V is for Volunteer, a chosen task
- O is for Opportunity to do my best
- L is for Love I put into each day
- U is for Understanding in most every way
- N is for Need to be able to listen
- T is for Talk when something is missing
- E is for Everyone who needs some cheer
- E is for Everything true and sincere
- R is for Reward when I see a smile

Then I know that it was all worth while.

From the Minnesota Senior Spotlight

## NATIONAL CHEMSEARCH CORP.

222 South Central Ave. St. Louis, Missouri 63105

#### **EDITORIAL**

An opportunity to observe the improvement in design and construction of golf courses over the last fifty years is available at Arrowhead Golf Course, a fifty year old course at Wheaton, III.

Built originally as Antler's Golf Course for the Oak Park Elks in the 1920's, it has since become a privately owned 27 hole semi-private course with 150 members

and daily fee rates available.

The east and south nines were built in the 1920's; the west in '65 and '66, and was open for play in 1967. Perhaps, the most obvious difference is the greens. The greens on the old 9 are composed of Washington Bent and Poa Annua with the edge going to the Poa.

The size averages about 3500 sq. feet, with the majority either flat or tilted toward the tee. Three tile lines run down the length of the green and drain onto

the approach.

The west has C15 greens averaging 6500 sq. feet. They are composed of 50% sand, 30% peat, and 20% natural soil. Tile lines are herring-boned, and drain

into the rough.

After ten years, the biggest problem has been ball marks. In forty years of working on a golf course, I've yet to see a pro, while giving a lesson, show a pupil how to repair a ball mark. The other problem concerns the collars that average a scant 6 to 10 feet in width, and have to re-sodded each year. The course architect said to "maintain them the same as the greens, and they would hold up as well as the greens." He was wrong!

The tees on the old nines have been enlarged twice, and they are still on the small side. One of the original tees, no longer in use and never enlarged, measures 15 by 20 feet. At the present time, the tees are

re-sodded with A-20 whenever necessary.

The new tees have the same mix as the greens and measure 3000 to 7500 sq. feet. They are Penncross bent, and in ten years, only one tee has had to re-sodded. Dollar spot has been the problem on these tees.

The traps too have increased in size over the years. The old course has three or four tear drop traps around each green, while the new course may have from 2 to 6 huge traps around the green and in the fairway at strategic places. With the riding trap rakes,

the big traps are easiest to maintain.

The irrigation system on the original 18 consists of 180 G.P.M. pumps and a 200 foot run of 2½ inch pipes. After that, it goes to 2 inches, and in some places, 1½ to 1 inch. Most is on top of the ground or is buried 8 to 12 inches deep. There is a single valve at each green and tee. The valves at the green are quick couplers, with about 100 feet of hose needed to allow three sets a night. The pressure is such that we get 10 greens a night, and the tees in the early morning whenever possible.

The west nine has a Toro automatic system, with Griswold controllers. It is an always up hydraulic controlled system, with five heads on the green, three on the tees, and ten to twelve on the fairways. The mains are six inch transite and plastic, at four, three, and two inches. We have had two broken pipes in ten years. The pump is rated 480 G.P.M.'s. We have had an occasional accident with the switch in the controller sticking, or the filters plugging up and causing the head to pop up. All in all, it is a really good system.

These are the basic changes, with many more subtle things, such as the elimination of bunkers and quite a

bit less rough. The difference is mostly size; bigger greens, bigger tees, bigger traps and larger irrigation lines, along with improved soil mix on tees and greens.

Robert Breen Supt. - Arrowhead G.C.





Midwest Turf Field Day will be Monday, September 25, 1978. Purdue Agronomy Farm -- 9:30 a.m. to 3:30 p.m.

The 1979 Midwest Turf Conference is 12-14 March.



# GIVE A WEED AN INCH AND IT'LL TAKE AYARD! ..OR A FAIRWAY ... OR A TEE!

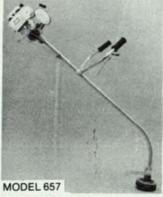


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Even the toughest, tallest weeds disappear in seconds when you're cutting with the WEED EATER\* Trimmer/Edger. WEED EATER\* trims, edges, mows, sweeps and scalps larger lawns and grounds - all with specially-treated fishing line.

WEED EATER\* MODEL 698 makes short work of lawn care problems with its big 17 inch cutting path. It's powered by a strong 22cc, 2-cycle Kioritz gasoline engine — yet weighs only 14 pounds. Other outstanding features include 2-exit cutting head with 40 feet of heavy-duty cutting line, new 1.4:1 gear reduction to give blade capability, allattitude carburetor, shield and line trimmer on shaft. Tri-Kut blade and tool kit.

WE MADE 'EM FIRST. WE MAKE 'EM LAST.® The Original WEED EATER®



# **WEED EATER** MODEL 657

- Weighs 25 lbs.
- 21" cutting path
- 85cc, 2 cycle Tecumseh engine
- · 4-exit cutting head with 80' of heavy-duty line
- Adjustable guide handles with fingertip throttle control
- . Shield & line trimmer on shaft
- Tool kit

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# **WEED EATER** MODEL 979

- · Weighs 17 lbs., 3 oz.
- 19" cutting path • 37cc, 2 cycle Fuji engine
- · 2-exit cutting head with 60' of heavy-duty line
- New lever-actuated, mechanical feed
- New 1.94:1 gear reduction
- · Shield & line trimmer on

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# NEEDIE MODEL 507

- Weighs less than 8 lbs.
- 16" cutting path 460-watt, permanent magnet motor
- 3-exit cutting head
- Spool holds 50' of cutting
- Adjustable finger-grip side assist handle for easier operation
- Double-insulated WE MADE 'EM FIRST. WE MAKE 'EM LAST.



MODEL 587

# IEEDIE MODEL 587

- Weighs less than 8 lbs.16" cutting path
- Heavy-duty 690-watt, permanent magnet motor
- 3-exit cutting head
- . Spool holds 40' of heavyduty cutting line
- Double-insulated

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Nursery on Rt. 60 between Rtes. 12 (Volo) and 83 (Ivanhoe)

Dear Ray:

At this time of the year, we all can say, "how good it is".

#### "REPLENISHMENT"

Like reaching the light
At the end of the tunnel,
September and Labor Day
Unfold that ensemble.
Soon the pressure will ease
And like a breath of fresh air,
Replenishment.
While the entire season is sublime,
How good it is to unwind.
Also Nature needs a helping hand,

To re-establish Herself for

next year's stand.

Superintendently, Kenneth R. Zanzig Supt. - Old Oak C.C.

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(800) 942-8610 Illinois Wats (800) 323-7042 Indiana-Michigan Wats G.C.S.A.A. golf tournament will be held on February 1 and 2, 1979 at Sea Island, Georgia. The 1979 preconference golf tournament will be played at The Cloister Hotel, Sea Island, Ga., Feb. 1 and 2. The location, approved by the Executive Committee, was chosen after consideration by the tournament committee of clubs in the Atlanta area and on Jekyll Island.

The 36 hole Sea Island Golf Club, where GCSAA member James M. Hildebrand is superintendent, is known as an excellent golf complex. The course is located on the south shore of St. Simon's Island, about five and a half miles from the hotel. The ladies' tournament will be at one of the other two courses on Sea Island or the nearby Brunswick Country Club.

Sea Island and St. Simons Island are a part of the beautiful semi-tropical Georgia coastal islands, about halfway between Savannah, Ga. and Jacksonville, Fla. The Cloister is the only hotel on Sea Island, and is an outstanding resort complex. In addition to its widely known golf course, it offers tennis facilities, a riding stable, skeet and trap shooting and excellent dining rooms and cocktail lounges.

Group rates, including all meals, will be offered to GCSAA players. In addition, the hotel will extend complimentary green fees to players staying at the hotel during the two tournament days, plus a practice round on Wednesday.

Sea Island and St. Simons Island are linked by a causeway to Brunswick and can be reached directly by air via Air South from Atlanta.

Complete information about the tournament will be distributed the latter part of October, along with conference and show information. Northern Mich. Turf Mgrs. Ass'n should field a golf team in this golf tournament as we have enough fine players. This would be a "FIRST" for our Association.

Following this tournament immediately will be the G.C.S.A.A. Conference and Show at Atlanta, Georgia, February 4 thru 9th, 1979. Following the Conference for those wishing to vacation further, a Caribbean cruise will leave Fort Lauderdale, Florida, February 10th. So--if you are looking for a vacation, this entire package might just fit into your plans and pocketbook. More details on everything will be forthcoming in future letters.

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# Introducing the all-new 1978 Otterbine aerator.

provide full flotation capacity even if float shell is punctured or severely damaged.

Smoothly molded flow chamber, integral with float, is unobstructed for more efficient pumping.

One-piece siliconaluminum water intake casting has integral bar screen to help prevent entry of fish or floating debris into flow chamber and protect impeller against damage. Screen omitted for waste treatment applications.

Combination of rotary and stationary shaft seals provides more effective double protection against water or oil leaks.

Molded-in ribbing helps stiffen float and provides convenient grips for easier handling

Motor winding (stator) wires are completely encapsulated in solid epoxy for better prevention of burnouts caused by damage to winding insulation.

More efficient submersible motor, available in 1, 2, 3 and 5 horsepower sizes, operates at lower (1750) rpm for cooler operation and longer bearing life.

Continuously lubricated upper and lower motor bearings have 10-year design life, are replaceable if worn.

Capacitors (used on single-phase motors only) are designed for more efficient performance and longer life in a transformer-oil environment.

Motor operates in a reservoir of continuously circulating transformer oil that lubricates bearings and transfers motor heat to the water more efficiently through the walls of the motor housing.

OTTERBINE

Silicon-aluminum bottom plate is quickly removed and replaced for faster oil changes or Motor lead wires are insulated with special materials that are more resistant to mechanical and chemical erosion by transformer oil, thus helping to avoid lead wire burnouts.

Special plug type (male-female) underwater connector is designed for more resistance to water leakage, even at greater depths. Plug of underwater connector is molded directly to end of underwater power cable by Rodale Resources Inc. for improved leak Seamless, one-piece
float. moided from highdensity polyethylene
plastic for greater
durability, has
improved resistance to
moisture, sunlight and
cracking.

Stainless-steel
impeller has greater
resistance to corrosion.
Blades are precisionpitched for closer
control of pumping
rates.

Shorter driveshaft minimizes whiplash, helping to prolong rotary shaft seal and bearing life.

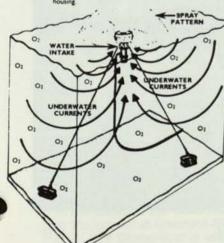
Molded-rubber O-ring nests in precisionmachined O-ring groove for more positive protection against leakage of water or oil.

Silicon-aluminum motor housing transfers heat to the water more effectively. Because it runs cooler, the motor may have longer service life.

> Dynamically balanced rotor runs with less vibration, thus minimizing rotary shaft seal and bearing wear

All fasteners are of stainless steel for greater resistance to corrosion in adverse environments.

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to 600 feet. has No. 12
copper wires for
reduced voltage drop,
plus a triple insulation
system designed for
greater resistance to
moisture, cracking and
softening in underwater service.



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The Dinelli family that participated in Frank's 75th birthday party. Bottom row, I. to r. - Mrs. Eva Dinelli, the birthday man, Frank. Standing - Jim and Joseph.



The gathering of the old guards at F. Dinelli's party. Front row, I. to r. - W. Saielli, R. Williams, J. Dinelli, Jim Dinelli, J. Johns, A. Meyer. Back row, I. to r. - B. Kronn, A. Bertucci, W. Stupple, F. Dinelli, R. Gerber, A. Lapp, D. Grotti, E. Stewart.



# Editor MIDWEST BREEZES

The Midwest Association of Golf Courses Superintendents' July 24th meeting was not as well attended as most of our meetings have been. The distance may have been the reason. Fifty members and guests played golf and reported that the course was in super condition. Supt. Craig Marfia is to be congratulated. Fifty-nine enjoyed a wonderful dinner. The door prize was won by Jerry Adank of Illinois Lawn Equipment. It is our hope that we have a better attendance at McHenry C.C. on Sept. 21 or Harold Michels will not be very happy. This meeting was scheduled for Sept. 12, but was changed due to a conflict with Illinois Field Day.

On July 28, 1978 sixty-five Northmoor Country Club members and twelve senior golf course superintendents honored retired Northmoor supt. Frank Dinelli on his seventy-fifth birthday. After a superb buffet was served, several senior members of Northmoor recalled some of the conditions and events that occurred fifty-three years ago when Frank became supt. His ability and dedication contributed very much to the fact that Northmoor is considered to be one of the better clubs in the Chicago area. One is always profoundly moved when he hears flowery remarks and witnesses a pat on the back in recognition of accomplishment. The members of Northmoor did not stop with words. They got together and made it possible to present to Frank a very generous check as an expression of their appreciation. Nice going, Frank! It could not have happened to a more deserving person.

Mrs. Ruth Burdett, wife of Paul E. and formerly of Swift Road in Lombard, has been visiting friends in the Glen Ellyn, Lombard and Wheaton area. Ruth feels fine and looks the same as she did when making a delivery of merchandise to your club. She reports that Paul is enjoying himself by swimming and participating in many other activities including being the head of the lapidary committee. If you are ever in the area of Green Valley, Arizona stop and say hello to the Burdetts. Paul may find time to teach you something about the art work that he is doing.

It was stated in our news media in the Chicago area that the greens at Oakmont Country Club during the P.G.A. Golf Championship were mowed at 5/64 of an inch. If my figures are correct, 5/64 of an inch is  $2\frac{1}{2}/32$  of an inch or  $1\frac{1}{4}/16$  of an inch. This editor has

been involved with putting green mowers for over sixty years and I have never seen a mower that could be adjusted to cut at a heighth of 5/64 of an inch. For my information I would like to know how one can cut grass at this heighth if the bedknife thickness exceeds 5/64. If you know, please let me know because I am always willing to learn.

**Supt's. Position Open** - Oak Hills C.C. 9 holes. Phone 312-448-5544 or 928-8500.

Present Supt. Don Hoffman has resigned and has accepted the Supt's. position left vacant by the former Supt. Bob Brame. Bob has accepted the supt. position at Lafayette C.C., Lafayette, IN.

## WASTEWATER CONFERENCE SCHEDULED

On November 13 and 14, 1978, a conference sponsored by the American Society of Golf Course Architects Foundation, the National Golf Foundation and the Green Section of the United States Golf Association will be held at the Arlington Park Hilton, Euclid Avenue & Rohlwing Road, Arlington Heights, IL 60006 (near O'Hare). The Theme of the 2-day conference is "Wastewater Irrigation of Recreational Turf Areas". The conference's objectives are (1) to produce "State of the Art" information and to document what is now known as it applies to recreational turf; (2) to generate additional information on wastewater uses; (3) to produce "Guide Line" information for publication.

Everyone interested in land disposal of wastewater (effluent and other) is cordially invited. A monumental bit of work has been done in this area. Interest in wastewater has quietly mushroomed due to concern for possible future limits on fresh, potable water for recreational purposes. Representatives of all recreation turf installations—golf, park and recreation, industrial, military, government, irrigation, landscape and water works are invited.

Mark these dates on your calendar now--plan to attend! Would you indicate your interest by detaching and mailing the following.

Yes, I plan to attend the November 13-14, 1978 conference.

(Name) (Address) (Number of guests)

Please mail to: USGA Green Section, P. O. Box 1237, Highland Park, NJ 08904 - Attn: A. M. Radko

The Toro Co., Minneapolis, hosted a 'roast' in honor of 'Babe' Brinkworth's retirement. He had been with the company for 30 years and, although he had been on the west coast, he had many friends here in our area, and sends his best wishes to all.

Lynne and Pete Nasen and Russ and I were at the buffet dinner on Saturday, August 5. Barbara and Pete McConkey were unable to attend because Barbara didn't feel well. There were about 125 in attendance.

**Ruth Reed** 

A fresh ball mark repaired by a player takes only five seconds

A freshly repaired ball mark will completely heal in twenty-four hours

A fresh ball mark left unrepaired for only one hour requires fifteen days

Before the ugly scar has satisfactorily healed, please repair all ball marks

## **BUYING SOD, CHECK CULTIVARS**

Sodding a lawn bypasses seedling care and so provides a mature turf quickly. But preparation of the soilbed should be as carefully undertaken for sod as for seeding. Sod cannot be laid on hard, packed ground, and be expected to thrive. These Kentucky bluegrasses make serviceable sod alone or blended: Adelphi, Arboretum, Baron, Birka, Bonnieblue, Enmundi, Fylking, Glade, Majestic, Merion, Nugget, Plush, Ram I, Sydsport, Touchdown.

#### FINE FESCUES FOR SHADE

Cultivars in the fine fescue group - Banner, Highlight, Koket, Ruby, among them - are well suited for persistance in shaded locations where soils dry out, as is typical of habitat under trees. When selecting a seeding mixture for a shady lawn, see that a goodly proportion of fescue is included, as well as whatever Kentucky bluegrasses and perennial ryegrasses are wanted for less strigent habitat.

## **NEW RYEGRASSES, REAL LAWN DANDIES**

The flood of new perennial ryegrass cultivars offers real opportunity for improved planting and renovation of lawns. Never before has it been so easy to get a good - and a good-looking - grass cover in so short a time.

Perennial ryegrasses are standouts for quick sprouting. A new seeding becomes a carpet of green in just a few days if kept moist and warm (about room temperature). In cool weather you could even presprout ryegrass seed indoors, by moistening it and keeping it in a plastic sack for a couple of days before drying it enough for sowing. However, this bother is seldom merited since ryegrass starts so quickly outdoors anyway, especially at this time of year when soils are residually warm.

Then there's the stepped-up attractiveness of the modern perennial ryegrass. It's had to pass muster at some of the most fastidious turfgrass "beauty pageants", where the judges have been the nation's most critical plant breeders with the proverbial hearts of stone. So ryegrasses are no longer tough and stringy nobodies, showing "gray hair" each time mowed. The new cultivars are denser, lower-growing, and catch fewer diseases than does their not-so-highly-thought-of common counterpart.

Some of the perennial ryegrasses you'll be hearing a lot about are: Blazer, Citation, Derby, Diplomat, Fiesta, Manhattan, NK-200, Omega, Pennfine, Regal, and Yorktown II. Manhattan and Pennfine are chiefly responsible for bringing acclaim to the modern perennial ryegrass, and extending its range of hardiness nationwide. Most of the others are also multiclone polycrosses (i.e. produced by interplanting several bloodlines), some utilizing Rutgers germplasm such as helped create Manhattan (collected mostly in Central Park).

The Lawn Institute

