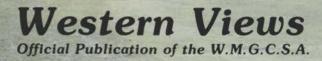
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PRESIDENT'S MESSAGE Fred Pastoor

I would like to thank Roger Barton for his fine job as President. His dedication to the association has been an inspiration to all of us.

Well, if we thought the 80s were a tough decade, the 90s are going to be worse. As they say, "You ain't seen nothin' yet." We will be under much more scrutiny in the years to come. One of the things to come will be more government regulations on chemicals and spraying procedures plus there probably will be reenter times after spraying. More and more chemicals will become restricted materials.

Also being talked about are water restrictions. We will be required to keep more records than ever before. These are just the very tip of the iceberg of what will be happening.

We, as turf managers, will have to work together to show others that we are responsible professionals, and are not out there raping the environment. We will need more education to keep up with all the changing practices. And we will have to give MSU, MTF, and GCSAA all of the support we can. Also, don't forget our WMGCSA chapter. A strong local chapter, with well attended monthly meetings and good educational speakers, will show others that we really care.

I would like to thank all of you for allowing me to serve you, and I would appreciate all the support you can give me. If you have any questons or suggestions for making our chapter stronger, please let us know.

Fred Pastoor

- LOCAL LOGGINGS -

Kevin Barton is now at Forest Hills Country Club as the Assistant Superintendent/Mechanic.

Jerry Person has accepted a new territory in Northern Illinois with Lesco...Dave Phillips will be back on the road serving golf courses in West Michigan with Lesco.

Jeff and Rhonda Hopkins — congratulations on the birth of Allysa, born New Year's Day, 1990.

Pete and Anne Ashe had a baby boy, Alexander Joseph, on September 19.

Welcome to new members: Richard Bay at Gull Lake View and Bob Janot at Oak Ridge.

Write your State Representative, let them know we are good guys. DO IT!...More Later.

DATES TO REMEMBER

February 19-26 61st International Golf Course Conference and Show, Orlando, Florida

March 22

WMGCSA Meeting, Green Ridge Country Club, Grand Rapids, Michigan *April 23* WMGCSA Meeting, Grand Haven Golf Club, Grand Haven, Michigan

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Boug Boys, many Condeman

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GCSAA NEWS

SUPERINTENDENTS FOCUS ON PROTECTING NATURAL RESOURCES

The environmental impact of golf courses will be a major topic of discussion when golf course superintendents gather at the 61st International Golf Course Conference and Show held in Orlando, Florida, on Feb. 19-26, 1990. Sponsored by the Golf Course Superintendents Association of America (GCSAA), the conference and show will feature seminars, speakers and forums for GCSAA members to enhance their understanding of environmental management. More than 15,000 professional turf managers and other industry leaders are expected to attend the conference and show.

Some of the environmental topics to be discussed are: water quality and conservation, integrated pest management, hazard communication, underground petroleum tanks and the storage, disposal and recycling of chemicals. Expert presentations on these and other topics will be made during the Friday session on "Managing Today's Environment".

A special government relations open forum will also be held at the conference. Attended by GCSAA members, federal regulatory officials and leading scientific researchers, the forum will detail ways to monitor regulation and inform and educate government personnel on the day-today management practices at golf courses.

WMGCSA AWARDS SCHOLARSHIPS

The West Michigan Golf Course Superintendent's Association presented two scholarships at the 60th Michigan Turfgrass Conferences. These awards were presented to Michigan State students Steve Fiorillo and Steve Jotzat.

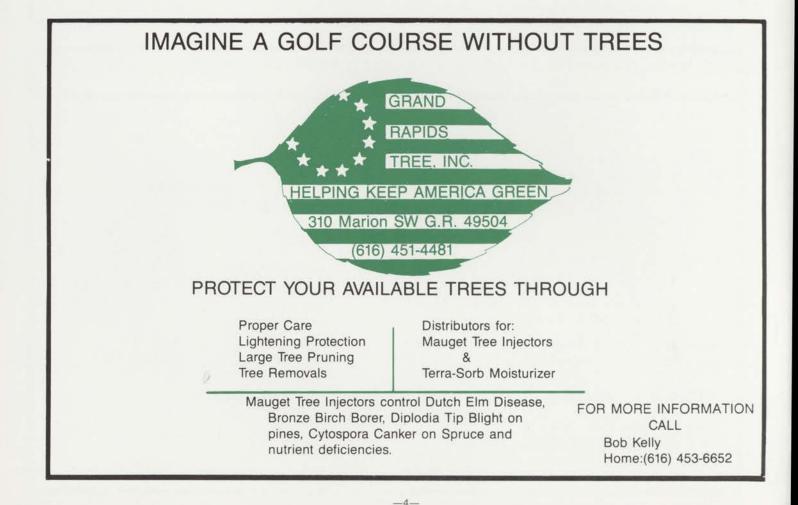
A four year Turfgrass Management student, Steve Fiorillo will be Bill Fountain's assistant superintendent at Timber Ridge Golf Course in Lansing following graduation.

Steve Jotzat, a two year Turfgrass Management student, has been employed by Steve Glasinger at Point O' Woods Country Club in Benton Harbor. After graduation in March, Steve will be employed as the assistant superintendent at Point O' Woods.

CONGRATULATIONS TO BOTH!



GOLF COURSE CONFERENCE & SHOW FEBRUARY 19-26, 1990



COUNTRY CLUB SUMMERS: REFLECTIONS BY 'THE MENACE'

by

Dale Brewer, Grand Haven Tribune Sports Writer

While watching the Masters' last weekend, I'm sure many viewers were reminded that spring is here and lazy days on the golf course are right around the corner.

For most golf enthusiasts, the game conjures up familiar images: early morning rounds on dewy, freshly cut grass; the tension of standing over a very makeable six-foot putt; the frustration of flinching and leaving the putt six inches short.

For myself, a groundskeeper at a country club for three summers while in high school and college, the images are slightly different: mowing over a brand new Titlist ball that happened to be in the way of my fairway mower; sculpting a sand trap in 100 degree heat while errant tee shots rained like hail out of the cloudless sky; watching and secretly laughing as the club president hooks one into the woods - and then tees it up again thinking nobody would ever know. I knew.

MY PERSPECTIVE of the game was as an observer, an outsider, with front-row tickets. I was only a kid at the time, so watching rich people golf was not foremost on my list of priorities. But I learned a few lessons about golf, about people, about life, and along the way there were some memorable moments.

Like the time Allan, a co-worker, got bonked on the head with a ball while spraying fertilizer on the fairway.

It was my first year at Lakeside Country Club, a small 18-hole private club nestled near the dunes of Lake Michigan in Berrien County. I started as a ditch digger laying drainage pipe and soon worked my way up to mowing tees and aprons.

I don't remember exactly what I was doing when he got hit. It was hot and sunny, probably in July. The news of the incident spread swiftly across the course.

"Man..hit...head...spraying...ambulance."

I DIDN'T SEE Allan for quite a while. Word was he was all right. Just sustained minor damage, and would soon be out of rehabilitation. The incident soon took on comic airs at the club. The course superintendent ordered yellow construction hard hats for all the workers to wear for protection.

I suggested we carry a 5-iron while on the course and shoot back if attacked.

The boss, fearing an employee rebellion, opted for the hard hats.

My view of golfers was, admittedly, tainted after the incident. As I progressed from low man on the totem pole to the cushy jobs of riding various machines, my opinion did not change. I myself was targeted on several occasions, although never hit.

Looking back, I can see where the club members took exception to the workers being in the way. Afterall, they were paying the big bucks to spend their mornings and afternoons relaxing on a private course, away from what they considered uncontrolled mayhem of the public courses in the region. To them, the only thing spoiling paradise were those young punks in yellow hats who created all that racket with those noisy machines. But what some of the members forgot is we were there to do a job and it is very hard to do that job with a lot of members on the course.

A little understanding on both sides would have helped ease tensions.

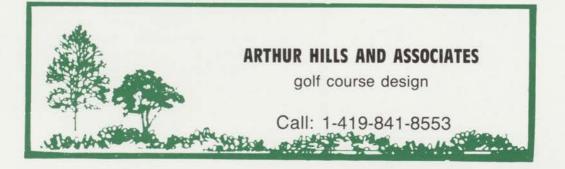
BY MY THIRD SUMMER, several members recognized me by sight, and I was known in some club circuits as "the menace." I could always tell when somebody was distracted, because they would turn their head, put the hands on the hips, and stare bullets at me. If the golfers had only realized I would then intentionally be more distracting just to get more of a reaction.

But for the people that treated me as human, you know, the ones who said "hi" or waved as they walked by - I would turn the machine off for them and they would play through in silence.

This may sound chauvinistic, coming from a man, but some of the ladies in general were harder to deal with than the men. On Ladies' Day, my boss used to get very nervous and warn us about disturbing any of the women golfers. I can't blame him for worrying. On several occasions irate ladies went to his boss, telling tales of persecution by those darned groundskeepers on those loud machines.

For some reason, my boss always found something quiet for me to do those particular days.

AS LONG AS I'm taking shots, I would also advise golfers to go easy on the alcohol consumption. It never ceased to amaze me how fairly good golfers would self-destruct after 18 beer-soaked holes. To add to the ludicrousy, these guys were given carts to drive. Now there's a good role



-5-

model for kids. Go to the country club, get blasted while driving a golf cart and then hop in the Audi and drive home.

I hope I haven't offended anyone because that is not the intent.

The point is, the country club is a microcosm of society itself. You have the class system - Porches and Rolls Royce's on one side of the parking lot. Toyotas and pickup trucks on the other. Those with the most money and the biggest house are destined to be club president.

Then there's the battle of the sexes. Men hold all the club positions and get the best tee off times. Women, Ladies' Day is Tuesday - too bad if you work during the week.

Where did I fit in? The generation gap.

ALTHOUGH I DID NOT realize it at the time, my resentment of the members stemmed from what I perceived as their indifference to me. Simple acknowledgement that I existed, like a smile or a wave goes a long way for a kid.

Behind the walkman, the blue jeans and baseball cap was a person, albeit a young, inexperienced one.

So the next time you see a rebellious teen, whether it be a skinny kid mowing greens on a golf course or your own son or daughter, remember what it is like to be 17. See you on the golf course.

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WATER QUALITY AND TURF GROWTH bv

Dr. A.E. Dudeck, University of Florida

What is water (H2O) that it is so important to all life on earth? Often we only think of the quantity of water needed for lawns and sports turf. But quality of water is often of critical importance. Dr. Al Dudeck has reviewed this topic of water quality and believes that we all should be aware of the following:

· Water is:

the most abundant compound on earth: a constituent of life; used in all industrial processes: there is no substitute for water.

 Young people are 90 percent water; old people are 75 percent water. Turf is composed of 75 to 80 percent water.

- · Water is used in/as:
 - photosynthesis: a solvent; transport systems; a catalyst
 - creating turgidity;
 - soil microbial systems.

 Evapotranspiration is loss of moisture from soil and plants.

· One pound of plant dry matter takes 1000 pounds of water to produce.

 One ton of steel takes 30,000 gallons of water to produce.

· Our water consumption is the highest in the world--up to 300 gallons of water a day per person.

· From water use, we are experiencing: salt water intrusion: land settlement: loss of atmosphere.

· A lack of water may be the most critical national problem in the years ahead.

. The amount of water on earth is fixed, but the demand on its use increases.

 Water uses vary from rural to residential urban to steam generation to agricultural. In the southwest the problem is quantitative. In the rest of the United States, the problem is qualitative.

· Seeding clouds is practiced in an attempt to obtain more rainfall.

· As fossil fuels are used as a source of energy, there is concern that use of oxygen and release of carbon dioxide and other gasses will create a "greenhouse effect" that will result in the world getting warmer.

 Acid rain is also of concern. Normal rain has a pH of about 5.6; acid rain has a lower pH - about 4.0.

· Ninety-seven percent of the earth's water is in the oceans.

 Three percent of the earth's water is fresh. Of that, 75 percent is in the form of ice and snow and 25 percent in rivers and lakes. 1.2 percent is surface water and 98.8 percent is groundwater. Overall, we are overpumping available water, and polluting surface and groundwater.

- The cost is still very high to get salt out of sea water.
- Contaminants in water include:

salt; SAR; sediments; nutrients; pesticides; element hazards; radionuclides; miscellaneous - gasoline.

· Highest quality comes from wells.

• Rivers and streams have lower quality water. Springs and small streams are a very limited source.

• Now consider use of waste water for growing plants. Some of this could be food processing waste water.

• Effluent could be liquid gold for the turf industry. There could be 70 to 100 gallons of waste water a day available per dwelling unit. Turf is a natural for effluent water. It is a perennial. It has a high water requirement. The turf can be used to clean the water and put it back in the subsoil.

 Waste water comes from: toilet - 40 percent; shower - 30 percent; laundry - 15 percent; kitchen - 10 percent;

other home areas - 5 percent.

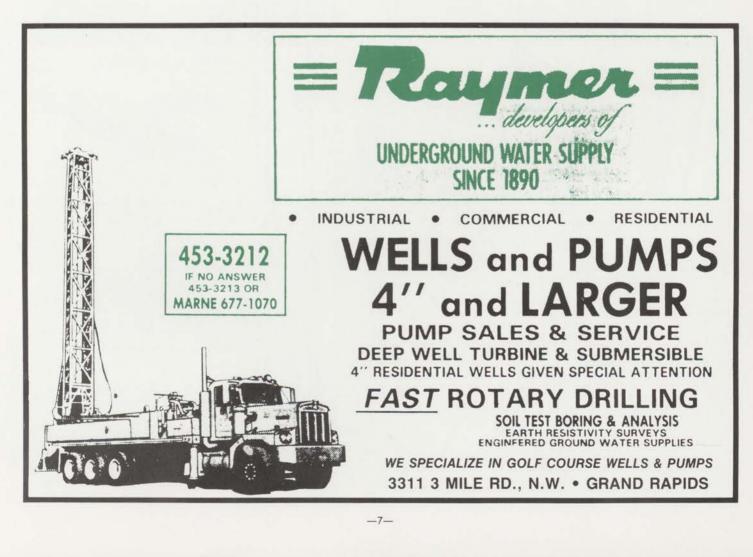
60 percent of this is gray water. The 40 percent from toilet needs to go to the treatment plant.

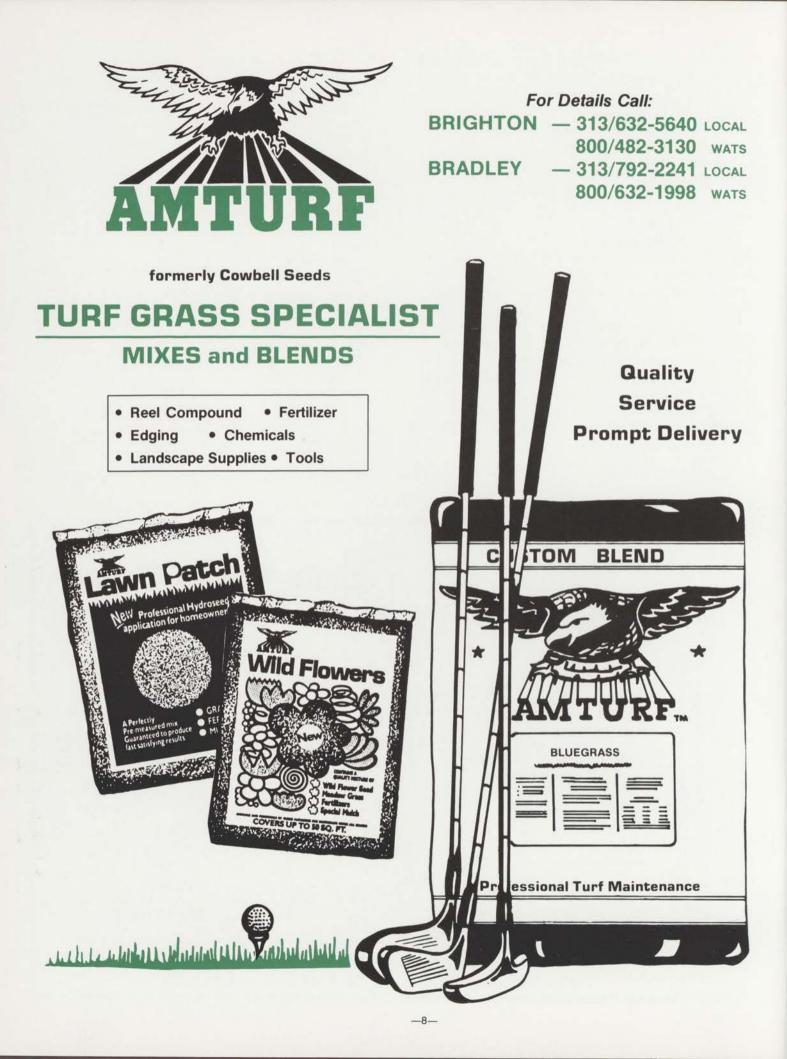
. Why should drinking water be used to flush the toilet?

• The Clean Water Act could change much in the United States, but politics gets in the way. State and local government involves a complex political system

•There must be a great appreciation of water resources management.







A SHORT WRAPUP OF THE 1989 GOLF SEASON

by

James M. Lathan, Director Great Lakes Region USGA Green Section

A recap of the 1989 golf turf season is difficult because it was so varied - from sheer disaster to disappointment to downright delightful, depending upon where you were at what time. It was a year of opportunity for many because of an apparent return to the usual Midwestern climatic patterns and for others because Mother Nature suddenly eradicated **Poa annua** in places few superintendents would dare to try.

At some time during the winter, golf courses from Michigan to Montana experienced classic winterkill of **Poa annua** and perennial ryegrass. This phenomenon can be expected locally in almost any year, but seldom has it been so extensive. The greater Chicago area, for example, missed the experience by less than 60 miles, but the six states to the north, east and west, were extensively blessed (?) with this cheap **Poa annua** control process.

It seemed to work this way:

The soil was frozen.

• There was a thaw and the meltwater was retained at the turf surface (even with sand greens) in depressions, on gentle slopes or even flat spots where **Poa annua** dominated in the past.

• The temperature dropped suddenly to well below freezing.

• Ice formed in the saturated crown tissue of the bunch grasses and destroyed cell structure.

To make matters even worse for some superintendents, the thin green cover materials **did not** prevent damage. The only escapes in the epicenters of winterkill were greens (etc.) which retained snowcover or those covered with thick, excelsior mats.

Comments by superintendents who used covers:

• The thin covers may have aggravated the situation by broadening the day/night temperature spread.

• The thick covers probably kept the green surfaces from thawing.

• Medium thickness covers on top of a rather heavy, late topdressing apparently gave enough insulation to prevent surface thaw or refreezing.

This situation was compounded by very poor growing conditions in early spring which defied attempts to reseed. Even **Poa annua** seed germination was minimal. The superintendents who persevered with multiple reseeding operations now have bentgrass in quantity where it has not been in a long time. By initiating maintenance operations which keep it competitive, they can use **Poa annua** suppressants to their best advantage. Otherwise, the spring miseries will return to plague them again and again.

Substantial losses of perennial ryegrass occurred in South Dakota and Wisconsin, underlining their unreliability as a primary golf turf species in this latitude. They apparently need backup by Kentucky bluegrass, fine fescues or some type of more winter hardy grass.

There are, of course, exceptions to these loss patterns, but they were rare at the courses visited during Turf Advisory Service tours this year. In some instances, I simply confirmed the superintendent's statements that it was impossible to predict the episode and that normal maintenance operations could not prevent this kind of winterkill. It became evident that agronomics must play a larger role in golf turf management so that bentgrass can become more competitive to help **Poa annua** controls become more effective. Now that we have the means to suppress **Poa annua** aggressiveness, it is possible to reestablish bentgrass and/or Kentucky bluegrass in key areas, but it is imperative that they **compete** or the cycle will begin again.

Some other strange events took place this season. The sudden appearance of mini-fairy rings on the greens at a couple of courses was one. At about the same time, similar rings elsewhere disappeared after a couple of years in residence. Why? How?

The black layer syndrome hasn't gone away, either. The sporadic rainfall pattern had a great deal to do with this - probably. Soil oxygen is still the key to prevention and cure. Internal drainage and the elimination of spongy organic layers by aeration and topdressing are necessities. And remember that black layers aren't new. O.J. Noer commented on black, odorous soil profiles in

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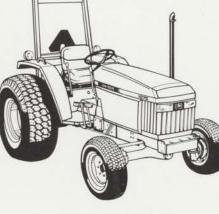
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greens over 50 years ago. They were just harder to see at that time.

Supplying the anaerobic organisms with oxygen by applying potassium nitrate or similar materials will help to reduce immediate damage, but that is simply treating a contributing factor and not the cause. The cause of black layer in sand, clay or stratified profiles is usually an excess of water. The noncapillary (drainage) pores or air spaces are filled with water. Buried thatch becomes a saturated sponge. Layers of anything restrict the downward flow of water which pulls air into the soil after it. And let's not forget that plant roots need oxygen, too.

It seems that more clubs are accepting their greens' Stimpmeter readings of 8 to 9 feet. A high percentage of the membership are enjoying that speed. There is also the realization that juicing the surfaces up to 11 feet from 9 for a member-guest event destroys the home course advantage. In other words, maybe speed-need is the figment of the imagination of would-be Tour-ists and not the will of the bill-payers.

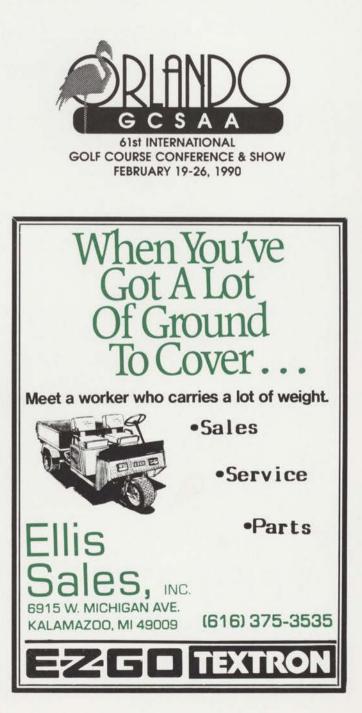
There are, of course, clubs in which the majority of the members want tournament class greens at all times and are willing to pay for them. That's fine with me as long as they realize that fast greens are, necessarily, firm and that fast, firm greens should be accompanied by fast, firm, fairways and the level of management they require. The bottom line is a golf course that equates to 18 very large greens, mown at several different heights of cut, but with the same general maintenance procedures throughout. That includes vertical mowing or brushing to minimize the tee toward the green grain which comes from golf car use on fairways. This applies to both bentgrass and bluegrass. Banning golf cars from the fairways usually destroys the intermediate roughs, so unless these vehicles are limited to roadways, be prepared for higher maintenance costs or lower quality playing conditions. Golf cars are like taxes - we do not like them but we do like the revenue they generate.

Speaking of golf car traffic, have you noticed the damage being done by the concentrated traffic of maintenance equipment? Some of the wear is in non-play areas, but certainly not all of it.

The traffic problem continues to mount on practice tees, where few golf operations have adequate space. Even fewer can do anything about it except recycle the available area they have. This brings ryegrass to the forefront even though it is no more than temporary turf that will be destroyed in a very short time. The best results have been attained by "using up" strips of turf across the width of the tees before moving play to another strip. The damaged strip is then double aerated and the cores broken up, followed by heavy (15-20 lbs. per 1,000 sq. ft.) seeding and topdressing or just mixing the seed with the soil from the cores. Rolling and fertilizing finish the job. Fungicide treated seed minimizes the danger of damping off until a systemic fungicide can be applied - at about the time of the first mowing.

If you want to turn green with envy, just see the creation at St. Andrews Golf Course in Chicago, under the care of John Lapp. Acres of bentgrass and ryegrass/bluegrass plus a 39-mat slab for night use. Real greens for targets and real sand in the bunkers. Or look at the Hinsdale Golf Club's sandbox practice area which provides such a wide variety of shots you won't miss using a driver. Bob Maibusch is rightly proud of this unique installation. There are other fine practice ranges throughout the Great Lakes Region, but these are tops in their size classes.

A closing thought: If we are to keep bureaucratic regulations off our back, we must make them unnecessary. The way to do this is to stay ahead of the game through safe storage and application of chemicals, employee training and protection and a close look at our own operation as if we were an inspector who had never seen the place before and had not issued enough citations recently.



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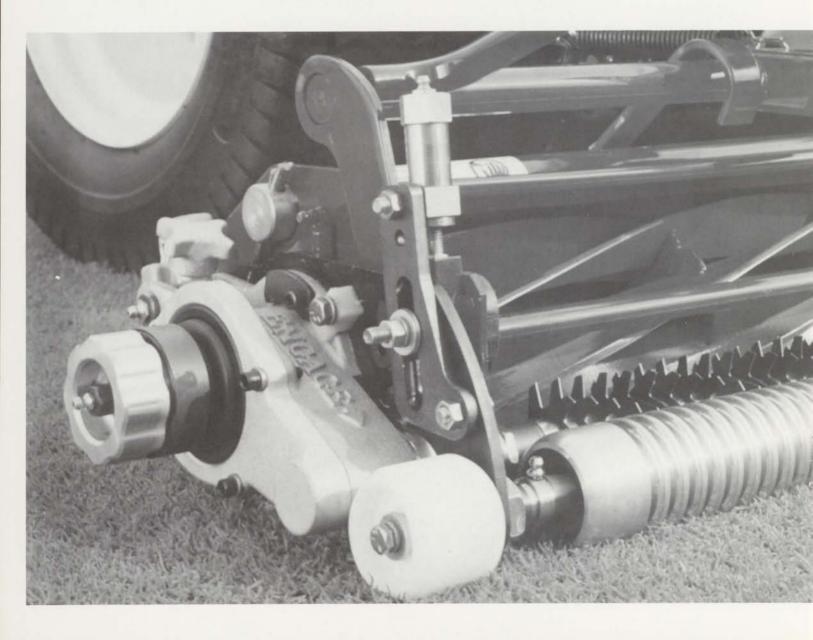
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SO TO SPEAK by Earl Knickerbocker Golf Magazine, January 1990

I put on my nails, hoist the hickories and head for the rock pile to beat some balls. I blade a few wedgies, spank a few licorice sticks and put a few fungoes into Smoke City. Everything is coming up bingo.

Over at the shack, I sign up with a sandbagger who rides a gas buggy with a bird dog; he's a renowned Dutch Harrison as well as an inchworm. The third guy is a Mr. Aerosol; he spends a lot of time pounding cabbage, but around the dance floor he's nothing but a plumber.

On one, I let the big dog eat from the tiger tees, and I blueprint it way out on the fluffy. Unfortunately, my second is a Hoover, which shorts me. I go for an up-anddown but hit a chili-dipper, which leaves me on the Brillo. I scuff the flat stick and yell, "Get legs!" but that doesn't help, and I am left with a kneeknocker for a booger. Cup city.

I overfade the chief on two and have to winnow the hay to get close, Meanwhile, Mr. Aerosol comes back from the toolies to make a 40-foot no-brainer for par, and The Dutch, after starting with a bugcutter, puts his whitee into the service entrance for a tweeter. The Dutch takes a look at my pill and sees that the bird might chirp twice. "You're in the throw-up zone," he says, immediately giving me the collar. I hit a stoney and shout, "Taxi!" but the cabbie is out to lunch.

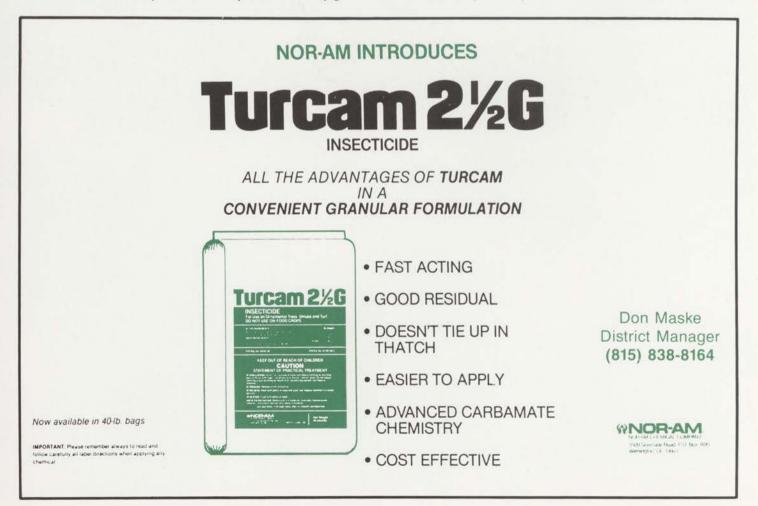
On three, I bend it, and I'm in jail. I'm sitting pretty and decide to green it by exploding a niblick. But I airmail it and have to bump-and-run for another swooner. On four, my second-in-command comes up with a worm-burner, but I put him to work again and hit a frozen rope to the flagstick. This time the big bird sings for me.

The fifth is a duck-soup five and I sit on one. From the short grass, I snap into the spinach. "Gonzo!" yells The Dutch who, I notice, has jacked his up in the hippy hair. After sleuthing the forest and solving the mystery, I noodle mine into the cat box. However, it isn't a fried egg, and I manage to feather a sandy to kick-in territory.

On the next few, The Dutch's needles don't help at all. But by bailing out regularly, staying away from Fat City and using enough stick, I make the turn with a Jerry Lee, which doesn't exactly put me with the choppers.

The Dutch watches me burn the cup on 10. "He's a blacksmith," I hear him say to his chauffeur. That's when I decide to let out shaft and play darts the rest of the way in.

On 11, I put the persimmon on it and smile inside as



-16-

The Dutch pops a rainmaker and Mr. Aerosol a quail high. My second is a stiff-a-roo with some chew on it that lands past the flag and zizzes back four feet. The great songster drops his glory-be on me again. As I jab my short stick into the sack, both my traveling companions are playing green hockey and carding doubles.

By 16, I begin to get the notion I can Van Gogh The Beast. I reason that even a 41 back would give me an around-the-world. From the blocks, I put a little Cutty Sark on it to amputate the dogleg but yank it.

"Morte!" yells The Dutch. "Oscar Brown. Reload!" My third off the tee is an Oral Roberts, then I get it wet trying to reach the ice rink. Meanwhile, The Dutch puts one off the screws and gets a member bounce, and Mr. Aerosol makes a downhill ocean liner. I leave 16 with a snowman.

Seventeen is a bowling alley with more H deuce. My wind cheater strays to the left and gets polluted, but my third bounds twice on the nap and slam-dunks. The great game bird has unloaded on me yet again. The Dutch lets out a groan, then lard-asses a beaver skin the size of a dinner plate.

So I end up standing in the blocks on 18, looking at a twoshotter with a rollercoaster dance floor. Like the masters say I pause at the top, get my knees through and lay smoke. Then I toss grass, take one more stick and come to rest on the postage jungle. To my satisfaction, The Dutch zeppelins out of the brown sugar and flies to a second nutmeg parlor.

When we're all aboard, I try to go to school on Mr. Aerosol's drain job. I try to put it on the pro side, but juice it eight feet past, and I'm dyin'.

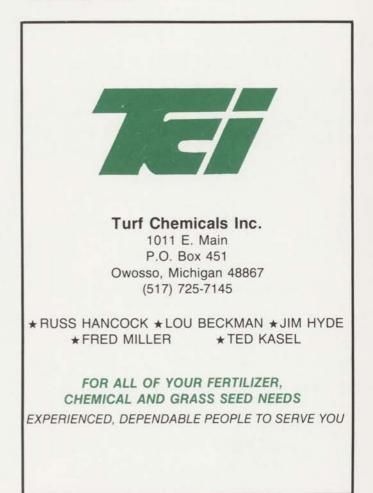
"Twenty you don't!" says The Dutch. "You always choke on field goals."

So I look at the long road to the barn and say, "You're on." I eyeball the nap, do some housecleaning and massage it. When the pill hits the back of the tin I don't hear the rattle in the house because Mr. Aerosol is cheering and The Dutch is muttering earthy words in my direction.

So we trundle to the Recovery Room, where I nab 28 green ones from the Dutch and 15 from Mr. Aerosol. I buy the foamies. "Seventy-nine?" says a four-plusser who comes in later. "I got a Red Ged Grange."

WHAT DID HE SAY?

Airmail it: hit a shot over the green Amputate the dogleg: cut the cover of a dogleg hole Around-the-world: shoot an 80 Back of the tin: back of the cup Bailing out: making successful recovery shots Bend it: hit a hook Bird dog: an excellent caddie Blacksmith: a player with a rough touch on the green Blocks: tee markers Blueprinted it: hit a good shot Booger: bogey Bowling alley: narrow fairway or landing area Brillo: short rough around a green Brown sugar: a sand trap Bugcutter: a poorly hit low shot; a ground ball Burn the cup: hit a putt that just misses Cabbage pounder: spends a lot of time in rough Carding doubles: making double-bogeys Cat box: sand trap Chauffeur: caddie who drives a golf car Chew: bite or backspin Chief: driver Chill-dipper: club hits turf behind the ball Chopper: a poor golfer Cup city: ball goes dead into the hole Dance floor: putting green Drain job: a successful long putt Duck-soup: easy Dutch Harrison: player with a reputation as a needler Exploding: swinging hard Eyeball the nap: read the line of a putt Fat City: 1) in good position or enjoying a large lead; 2) hitting shots fat Feather a sandy: hit a delicate sand shot Field goal: a longish short putt Foamies: beers Four-plusser: player with a plus-four handicap Fried egg: buried lie in sand trap Frozen rope: a straight shot Fungoes: practice shots Gas buggy: gasoline-powered golf car Get it wet: hit into a water hazard Give someone the collar: cause them to feel the pressure Go to school: learn the line from watching a similar putt Great songster drops his glory-be: make birdie Green hockey: taking a lot of putts Green ones: dollars



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H deuce: water Hickories: golf clubs Hippy hair: long rough Hoover: a "sweeping" shot Housecleaning: removing debris from the line of a putt Ice rink: a fast green Inchworm: a questionable marker of the ball In jail: in the woods or rough Jack it up: take a preferred lie Jerry Lee: a score of 39 for nine holes Juice it: hit it too far Kick-in territory: a short putt Knee knocker: a tough short putt Lard-ass a beaver skin: take a huge divot Lay smoke: hit a big drive Let the big dog eat: hit the driver hard Let out shaft: swing hard Licorice stick: graphite-shafted club Long road to the barn: a long, long putt Massage it: stroke a putt delicately Member bounce: a fortunate bounce Morte: French for "dead"; in big trouble Mr. Aerosol: a spray hitter Nap: the green Niblick: wedge No-brainer: a successful long putt Noodle: hit a curving recovery shot Nutmeg parlor: a sand trap Ocean liner: a long putt across the green Off the screws: on the sweet spot Oral Roberts: a "heeled" shot



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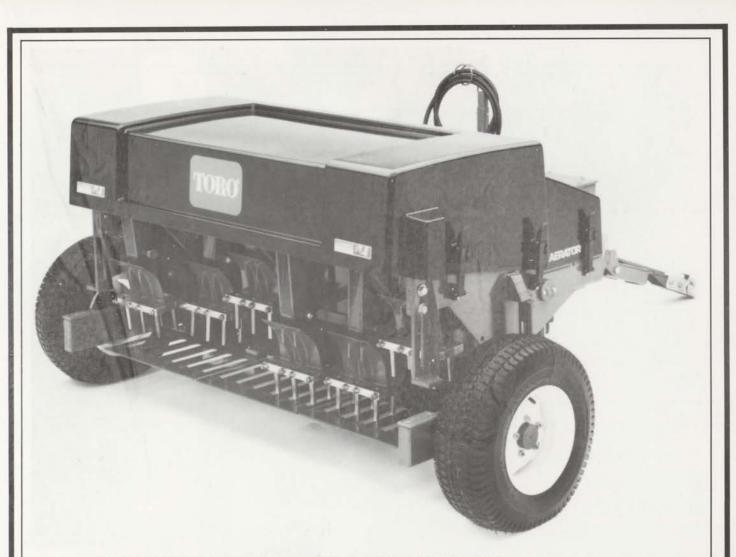
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Oscar Brown: out of bounds Overfade: hit a big slice Out on the fluffy: in the fairway Pill: golf ball Play darts: shoot at the pin Plumber: an excellent putter Polluted: to land in a water hazard Pop a rainmaker: hit a high shot Postage jungle: a small green Pounding cabbage: hitting from the rough Pro side: above the cup Put a little Cutty Sark on it: hit a "cut" shot for position Put the persimmon on it: hit a powerful drive Quail high: a very low shot Recovery room: the grill room; the 19th hole Red Grange: a score of 77 Reload: hit another ball Rock pile: practice tee Rollercoaster dance floor: a severely undulating green Sack: golf bag Sandbagger: a golfer with an unrealistically high handicap Sit on one: hit an extra-long drive Scuff the flat stick: hit a putt fat, scraping the grass Second-in-command: 2-wood Service entrance: side of cup Shack: starter's shed Shorts: less distance than needed on a shot Short stick: putter Sitting pretty: a good lie Slam dunk: hit the back of the cup hard and go in Sleuthing the forest and solving the mystery: finding an escape route from a bad lie or the rough Smoke City: long shots Snap into the spinach: hook into the rough Snowman: a score of eight on a hle Spank: hit the ball firmly Stiff-a-roo: a shot that finishes very close to the hole Stoney: a shot that finishes very close to the hole Swooner: an anxiety-producing, difficult shot "Taxi!": expression of dismay as putt moves by hole The big bird sings: the player makes birdie The bird might chirp twice: there may be two birdies Throw-up zone: a difficult six-foot putt Tiger tees: championship tees, or all the way back Toolies: the deep rough or woods Toss grass: check the wind Tweeter: birdie Two-shotter: a par-four hole Using enough stick: selecting the correct club Van Gogh The Beast: play well on a difficult course Wedgies: wedges Whitee: golf ball Winnow the hay: hit from the deep rough Worm-burner: a poor, ground-hugging shot Wind cheater: a low shot under the wind Yank it: hit a duck hook Zeppelin: a skied shot Zizzes back: spins back



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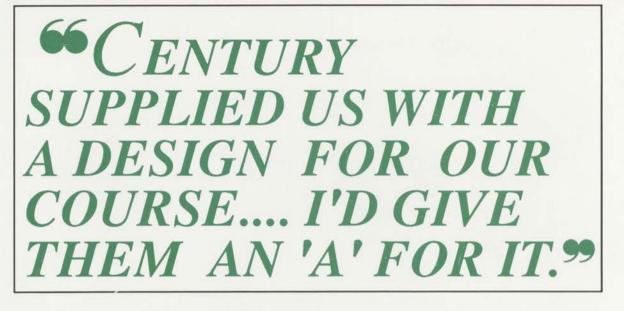
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TIPS FOR LAUNDERING PESTICIDE-CONTAMINATED CLOTHING

Clothing worn by people who use pesticides needs special laundering.

Home gardeners may not even realize that the clothes they wear when dusting rose bushes or the vegetable garden need special treatment.

Garments worn when using pesticides should not be put in the family wash, since the chemicals can migrate to other clothes in the same washload.

The following tips are offered by the Cornell Cooperative Extension, Department of Textiles and Clothing, New York State College of Human Ecology.

Clip this article and post it by the washing machine

Pre-rinse

Use one of three methods:

- 1. Hose off garment outdoors.
- 2. Rinse in separate tub or pail.
- 3. Agitate in automatic washer.

Pre-treat (heavily contaminated garments) Use heavy-duty liquid.

Washer Load

Wash garments separately from family wash. Wash garments contaminated with the same pesticide together.

Load Size

Wash only a few garments at once.

Water Level

Use full water level.

Water Temperature

Use hot water, 140° or higher.

Wash Cycle

Use normal 12 minute wash cycle.

Laundry Detergent

Use a heavy-duty detergent.

Use amount recommended on package or more for heavy soil/hard water.

Rinse

Use two full rinses.

Line Dry to avoid contaminating dryer.

Clean Washer

Run complete, but empty, cycle. Use hot water and detergent.

Other Tips

Wear waterproof gloves when handling highly contaminated clothing. Replace gloves periodically.

Wear a disposable overall over work clothes.

Remove contaminated clothing before entering enclosed tractor cabs.

Remove contaminated clothing outdoors or in an entry. If a granular pesticide was used, shake clothing outdoors. Empty pockets and cuffs.

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P.O. Box 290 Grand Haven, Michigan 49417 Contact: Roy Hanson (616) 842-5180 Save clothing worn while handling pesticides for that use only.

Keep separate from other clothing before and during laundering.

Wash contaminated clothing after each use. When applying pesticides daily, wash clothing daily.

Re-wash contaminated garments two or three times before reuse, for more complete pesticide removal.

Bury shoes and garments that were saturated with highly toxic/concentrated pesticides.

CREDIT: Northern Ohio Turf, 6/89

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The consumer wants quick turf cover, contributed by ryegrasses, and high turf quality, from bluegrasses.

Mowing at one and one half inch height, starting two weeks after planting, produced a fifty-fifty mixture of bluegrass and ryegrass at two months when the seed mixture consisted of ninety five percent bluegrass and five percent ryegrass. Mowing at a one half inch height, starting two weeks after planting, produced fifty-fifty mixture at two months when fifty percent bluegrass and fifty percent ryegrass were used.

Early close mowing favors bluegrass at the expense of the ryegrass. This makes possible the development of high quality turf using less bluegrass and more ryegrass in the seed mixture. Increasing the ryegrass results in more rapid development of lawngrass cover and greater consumer satisfaction.

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CENTURY RAIN AID NAMED TURFCO'S DISTRIBUTOR OF THE YEAR

Century Rain Aid was named Pipe Piper Distributor of the Year by Turfco Manufacturing Inc. at the 1989 Irrigation Association Show in Anaheim, California.

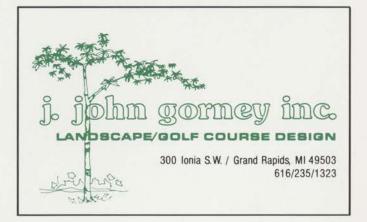
Century President Ernie Hodas and Vice President and Chief Administrative officer Wayne Miller accepted the award from Scott Kaercher of Turfco. The award was based on dollar volume and number of units sold.

Century Rain Aid designs and sells supplies for sprinkler irrigation systems, aerators, fountains, landscape lighting and sprinkler installation equipment and machinery to commercial, industrial, office, residential, golf and consumer sprinkler irrigation markets. The company, the largest in its field east of the Rockies, has locations in Michigan, Illinois, Indiana, Florida and Wisconsin.





Ernie Hodas, President (left) and Wayne Miller, Vice President and Chief Administrative Officer of Century Rain Aid accept the Pipe Piper Distributor of the Year award from Scott Kaercher of Turfco Manufacturing Inc. at the 1989 Irrigation Association Show in Anaheim, California.





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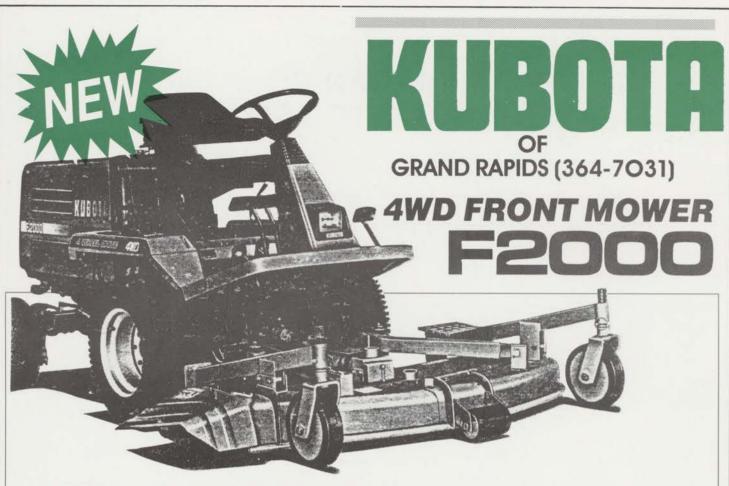
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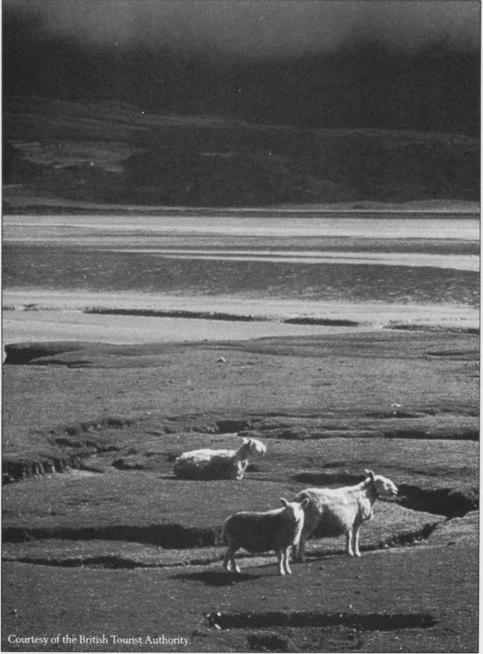
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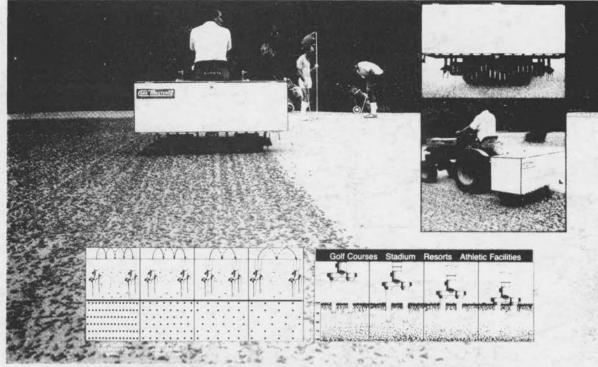
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