

# Proof that the best fungicide costs less.

There's no doubt why Daconil 2787® flowable fungicide is the preferred fungicide on America's tees and greens. It consistently delivers superior control of 9 major turf diseases.

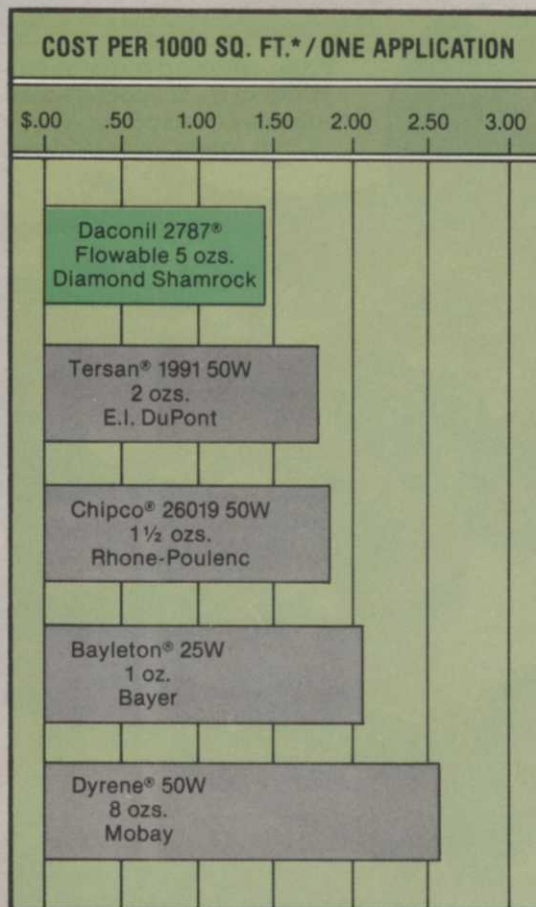
But what you may not know is that Daconil 2787 is more economical to use than the other leading fungicides.

Using a typical 14-day schedule, Daconil 2787 gives you greater savings on a per 1000 sq. ft. basis when it comes to controlling your most serious diseases — dollar spot (including benomyl-resistant dollar spot), *Helminthosporium* (leafspot and melting-out) and large brown patch.

Take a look at the chart. See for yourself how the cost of Daconil 2787 compares with the other leading fungicides on tees and greens.

Here are more reasons why it pays to use Daconil 2787. There's no need to add a costly spreader/sticker. Daconil 2787 already has it built in to assure full and even coverage for maximum disease protection.

And Daconil 2787 resists wash-off, so it keeps on working during heavy rains or watering.



\*Costs based on manufacturer suggested retail unit price as of January, 1983.

What's more, in 15 years of continuous use, there has never been a documented case of resistance with Daconil 2787. Even on courses where it was applied at weekly intervals over many years.

The facts speak for themselves. You can't buy more effective, more consistent disease control on tees and greens than Daconil 2787.

Add to that the important cost savings you get spray after spray, and you'll see why Daconil 2787 gives you more for your fungicide dollar.

So this season go with Daconil 2787 from Diamond Shamrock. Because the best costs less.



**Diamond Shamrock**

Agricultural Chemicals Division  
Diamond Shamrock Corporation  
1100 Superior Avenue  
Cleveland, Ohio 44114

Always follow label directions carefully when using turf chemicals.

Circle No. 113 on Reader Inquiry Card

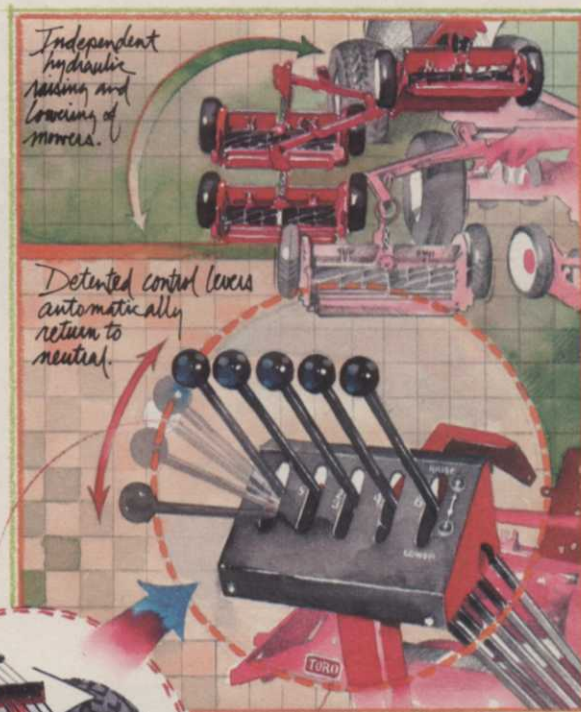
# EASY COME. EASY GO. EASY MOW.

## INTRODUCING OUR REELMASTER™ TRANSPORT FRAME.

Just hitch this Toro professional to your tractor and it's ready to keep you cutting. In more ways than one.

Because we engineered our Reelmaster Transport Frame to move from job to job as easily as it moves about the job.

We started with 7 reel mowers that hydraulically lift on command, in various combinations, to give you cutting widths of 6' 9" to 14' 4".



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through gateways, wherever you want up to 9.4 acres an hour of formal cutting. With an excellent quality of cut.

We put on high flotation tires to reduce marking of turf, create more stability on hillsides.

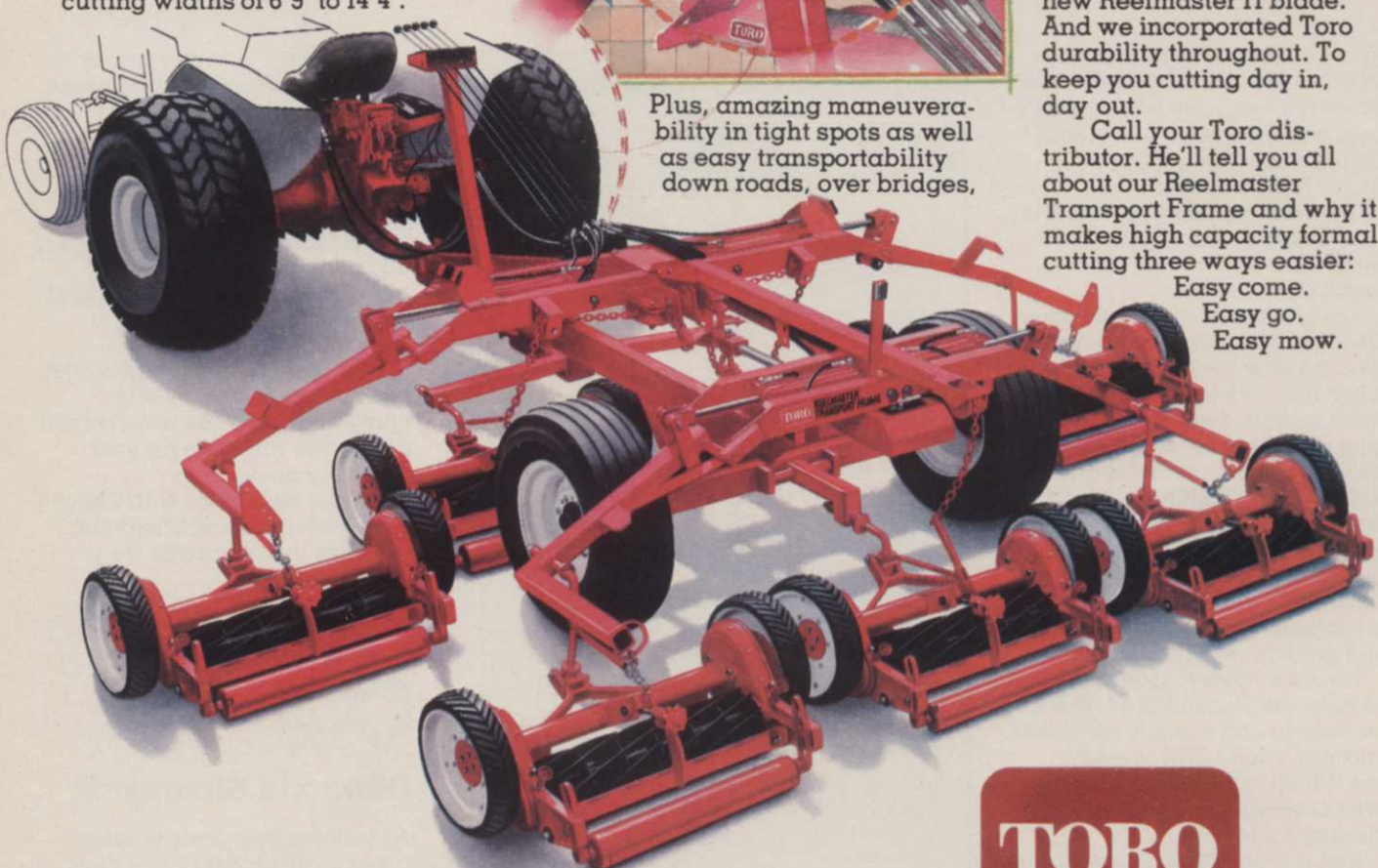
We built in adaptability. With an adjustable control tower for easy to reach lift controls. With adjustable hitch height to fit most turf tractors ranging upwards of 30 PTO HP and 3,000 lbs.

We made hitching a snap. With quick connect hydraulic couplers that free your tractor for other jobs.

We gave you a choice of three great mowers. Our Spartan 5 or 7 blade. Or our new Reelmaster 11 blade. And we incorporated Toro durability throughout. To keep you cutting day in, day out.

Call your Toro distributor. He'll tell you all about our Reelmaster Transport Frame and why it makes high capacity formal cutting three ways easier:

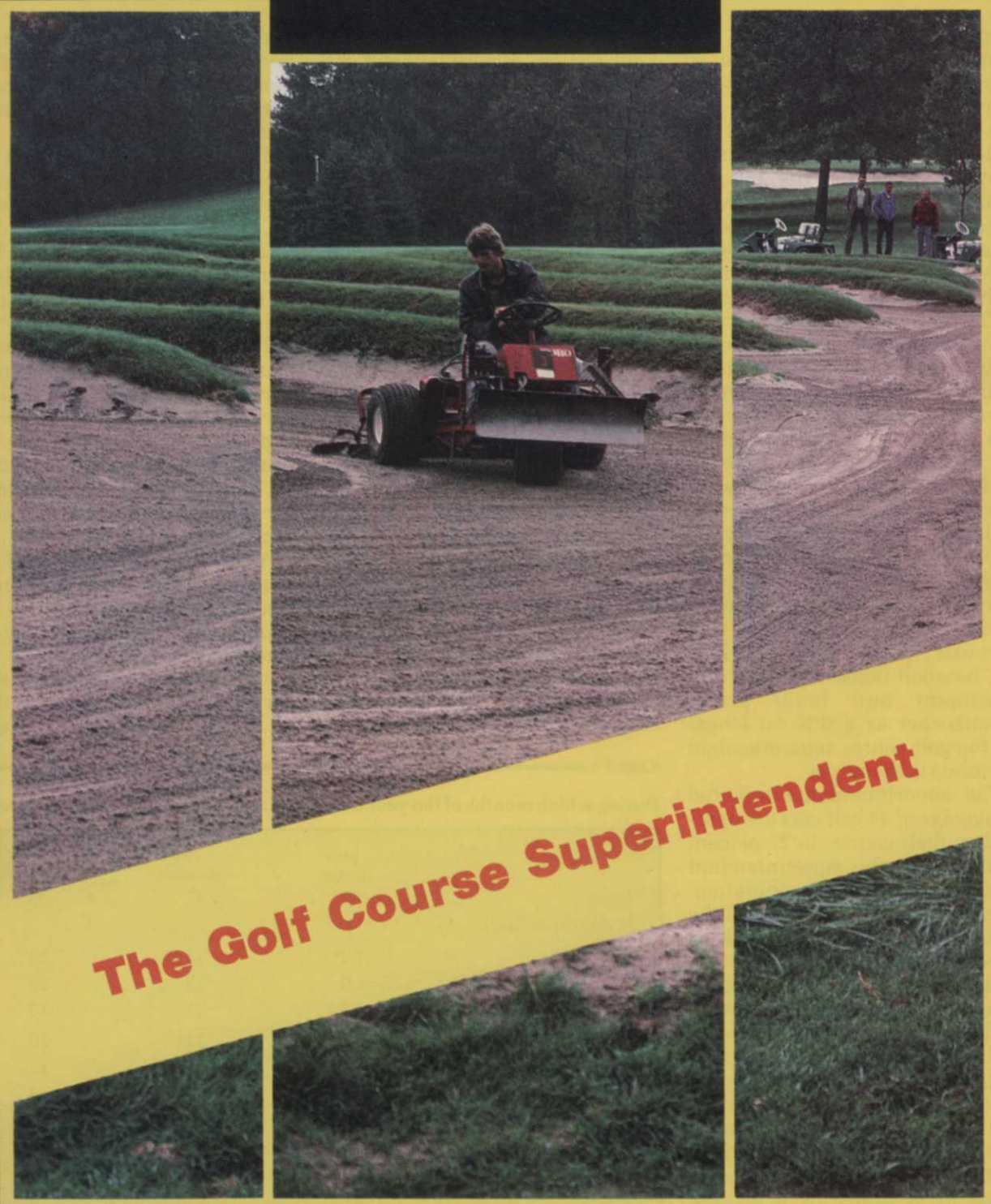
Easy come.  
Easy go.  
Easy mow.



**THE PROFESSIONALS  
THAT KEEP YOU CUTTING.**

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# LANDSCAPE MANAGEMENT



**The Golf Course Superintendent**

**WEEDS TREES & TURF**

# GOLF: THE BLUE CHIP OF THE GREEN INDUSTRY

More than 20 percent of the golf course superintendents polled by *Weeds Trees & Turf* magazine in November say their course is part of a real estate venture. Recent National Golf Foundation statistics show 80 percent of the 150 golf courses opened in 1982 were linked to real estate developments. Clearly the future of golf is highly dependent upon fairways lined with homes and condominiums.

The property of the golf course is being realized for its value. The superintendent's role in the management of the property may have increasing significance as a result. The survey showed 80 percent of the superintendents are responsible for the clubhouse landscape, 28 percent in charge of the clubhouse building, 22 percent responsible for tennis courts, and 21 percent in charge of the Pro Shop. Responsibility extended for some superintendents to pools, sod and tree nurseries, picnic areas, parking lots, baseball fields, a marina, and apartment and hotel areas. Greenkeeper as a title no longer fits the golf course superintendent according to the survey.

The superintendents reported an average of 44 golf cars are operated on their course. In 27 percent of the cases the superintendent manages the golf car operation. Pros do the job in 48 percent of the cases. Others perform the task on 25 percent of the courses.

The salesman for the turf supply company is the superintendent's leading advisor on maintenance problems, being consulted twice as frequently as the extension agent, 61 to 30 percent. Following extension agents are other superintendents as advisors in 25 percent of the cases. The technical staff of associations are consulted by 15 percent of the superintendents for maintenance problems.

Nevertheless, participation by superintendents in associations is extremely high. Nearly half the su-

perintendents belonged to both the Golf Course Superintendents Association of America and their local association. A third indicated some involvement with the United States Golf Association Green Section.

Superintendents do most of their budgeting and planning from October through December. Chemical buying is heaviest in March through May. Equipment buying is greatest in January through April.

The survey indicated a greater percentage of private and semi-private courses than NGF's figures. The percentage of municipal courses, 17 percent, agreed with NGF. Our survey respondents represented private courses in 53 percent of the cases and daily fee/semi-private in 35 percent. This may account for the 22 percent attached to real estate developments. But, the dominance of real estate venture courses may tip the scales toward private and semi-private in the future.

Two thirds of the superintendents manage 18-hole courses, 23

percent manage 9-holers, and 10 percent manage courses of 27 or more holes. On an average, the superintendents oversee 132 acres of course area.

The average crew consists of 1 foreman, 4 year-round employees and 5 seasonal workers. A fourth of the superintendents had no foreman whereas 10 percent have 2 or more foremen, a figure aligned to the percentage of 27 or more hole courses.

The message that cart paths are management assets has been received by the superintendents participating. Eighty-eight percent had cart paths of some type. Asphalt was the construction material for two-thirds of the group, gravel for 45 percent, and cement/concrete for 9 percent.

An average of 60 acres of golf course is irrigated. Greens are irrigated by 94 percent of the superintendents, tees by 92 percent, and fairways by 68 percent. Another 11 percent said some fairways are irrigated. Only three

*Continued on page 26*

**TABLE 1** During which months of the year do you .....(Multiple answers)

	plan budget	buy chemicals	buy equipment
Base: (total reporting)	91	97	92
January	15%	15%	23%
February	9	22	28
March	2	33	38
April	4	34	29
May	3	25	11
June	8	16	4
July	3	19	5
August	9	14	2
September	18	20	2
October	31	20	13
November	33	22	17
December	27	9	18
As needed	-	1	9



The Ditch Witch 350SX, a 35-HP-class lawn plow that's compact enough to go through a 36-inch gate.

## Ditch Witch Vibratory Plows . . . **INSTALL PIPE UNDERGROUND *WITHOUT* DIGGING TRENCH!**

By reducing installation and restoration time, Ditch Witch vibratory plows can be the fastest, most economical way to install pipe for underground sprinkler systems.

And since you don't have to dig trench, there's none to fill in. Damage to expensive turf is minimal; restoration is quick — usually all that's needed is to drive over the small slit left by the plow's blade.

Ditch Witch has a full line of vibratory plows — from compact models for residential work to bigger machines for golf courses and parks. They all let you put in plastic pipe without trenching, as well as control wire and electrical and communications cable, too.

Find out more from the Ditch Witch dealer in your area. Or write The Charles Machine Works, Inc., P.O. Box 66, Perry, Oklahoma 73077.



**Ditch Witch.  
Don't settle for less!**



# **Ditch Witch**

percent said the entire course was irrigated.

To gauge the activity of golf courses we asked for rounds played each month throughout the year. Approximately half of the superintendents reported no rounds played in December, January, and February. A third reported no activity in March. But nearly half reported activity year round.

The busiest months for superintendents nationally are June, July and August with more than 4,000 rounds per month each as an average. The slowest months are December and January with an average of roughly 725 rounds played each month.

Superintendents have a high regard for education with only 5 percent saying a turf, agronomy or horticulture degree was unnecessary. Nearly 60 percent felt such a degree was a great help and more than a third felt it was helpful. Compare this to a 16 percent figure for landscape contractors who indicated such education was some-

TABLE 2

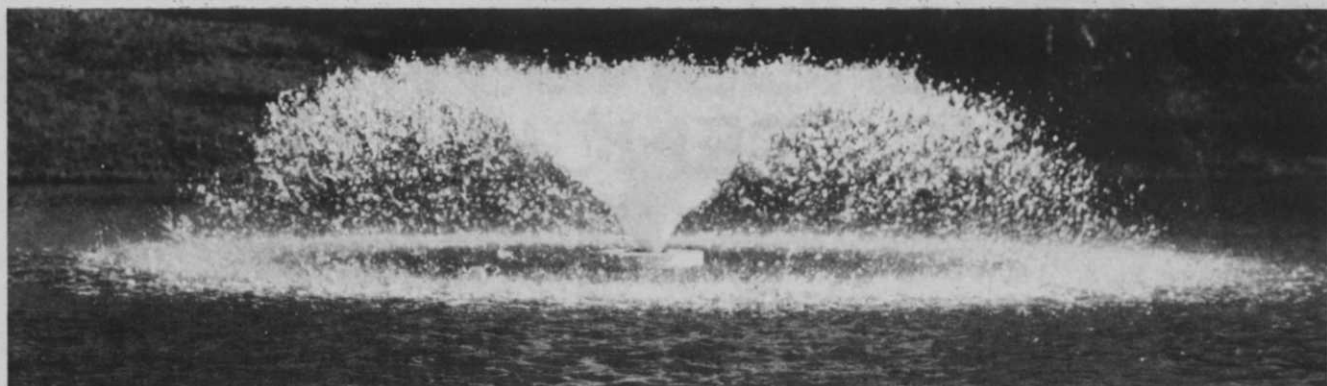
Please list by month the estimated number of rounds played on your course.

	Base: 72 (total reporting)	Number of rounds played:				
		Mean	0	1 — 1000	1001 — 3000	3001 — 5000
January	698	51%	35%	7%	3%	4%
February	793	50	35	6	6	4
March	1274	33	36	17	10	4
April	2109	7	38	31	17	8
May	3271	-	24	36	24	17
June	4018	-	15	33	28	24
July	4336	-	14	28	35	24
August	4137	-	14	31	33	22
September	2987	1	22	36	31	10
October	2017	3	40	38	11	8
November	1220	22	46	19	10	3
December	711	46	36	11	4	3

thing they look for in hiring.

Between the National Golf Foundation's figures, the GCSAA and USGA educational support, and now a forum of organizations determined to protect the vitality of the game of golf, this prime Green

Industry is in good hands. It may not be experiencing the same phenomenal growth of the 1960's, but it's foundation is so strong it enjoys a security not found in other fields. It's the blue chip stock of the Green Industry. **WTT**



# OTTERBINE

## DAY OR NIGHT...SUMMER OR WINTER



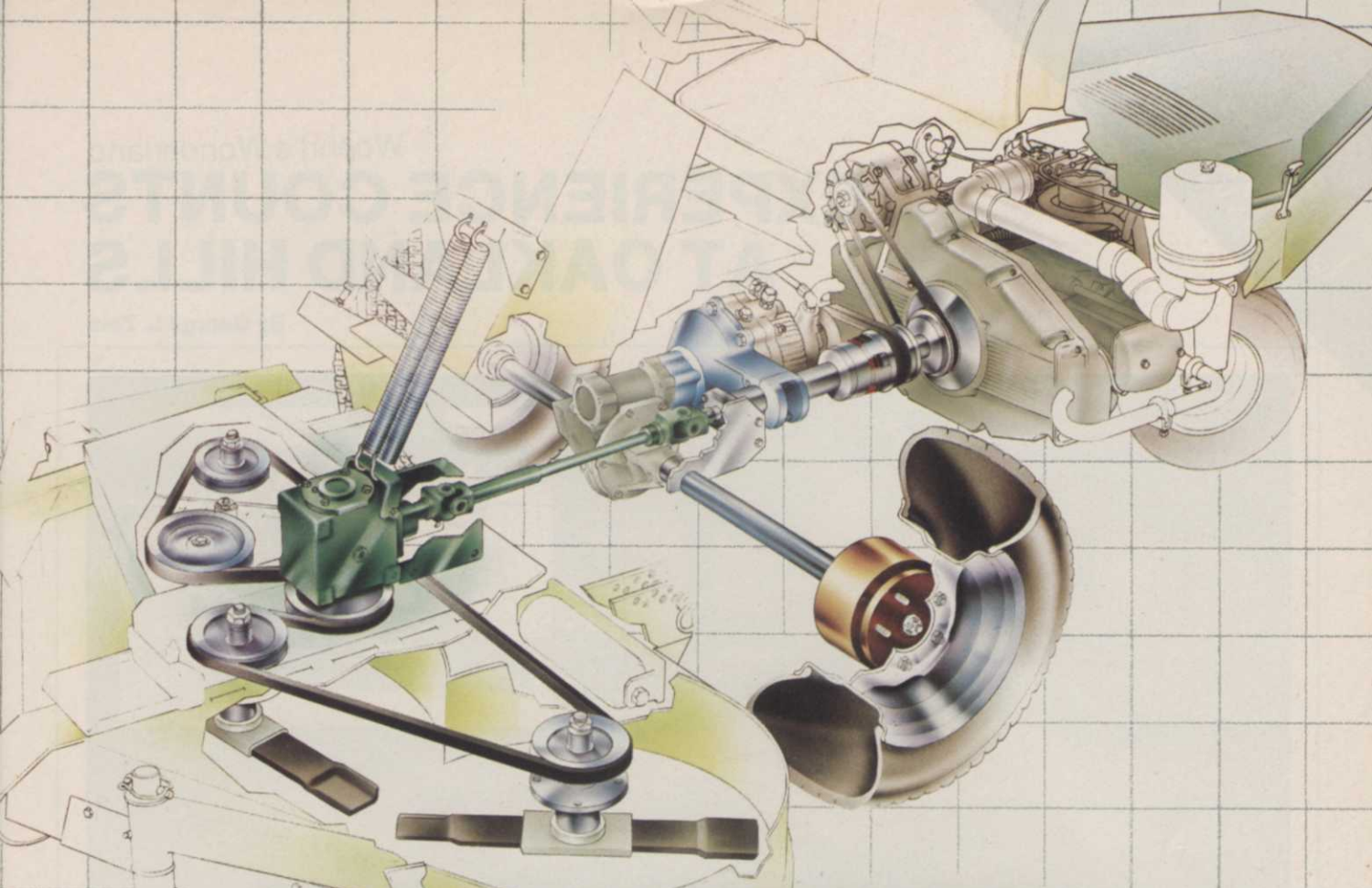
OTTERBINE® Aerators can help you keep unsightly algal growth and objectional odors under control naturally. The fact that OTTERBINES also create beauty — is just one of the many benefits of using our Spray Sculpture™ Floating Fountains.

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# CUSHMAN FRONT LINE: THE MOWER THAT'S OVERPOWERED THE COMPETITION.

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Just 3 years after it was introduced, the Front Line has been put to work on more parks, more campuses and more golf courses than all other mowers but one.

And in what really counts, the Front Line is second to none.

## THE ONE-OF-A-KIND CUSHMAN POWER TRAIN.

It starts with the awesome 18-hp OMC gas engine.\*

While other mower engines are built for constant speed use, our air-cooled engine was designed for the multi-speed work mowing demands—lugging power at low speeds, agility at faster speeds.

Move down the power train, and you'll appreciate one thing more—each major component was designed specifically for that engine.



Everything works together smoothly and efficiently.

## ONE STEP AHEAD IN FEATURES.

However else you may judge a mower, the Front Line gives more than you might expect.

Long life engine parts. A torsion-reinforced deck. Traction assist. Optional antiscalp rollers. A

\*Optional 4-cycle diesel engine with water separator available.

choice of 60" or 72" decks, side or rear discharge. And a full range of accessories for year 'round maintenance work.

For a free demonstration on your grounds, contact your Cushman dealer or call us toll-free at 1-800-228-4444.

Once you see it in action, the Front Line will overpower you, too.

See us in Booth 1032 at the GCSAA Show

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FEBRUARY 1983/WEEDS TREES & TURF 27

Circle No. 111 on Reader Inquiry Card

# Woehrle's Wonderland **EXPERIENCE COUNTS AT OAKLAND HILLS**

By George L. Zeis



**The latest mower** at Oakland Hills is hydraulically and electrically operated and used extensively on fairways and greens. (Inset) **Communication** is the only way to make sure members know how you maintain and improve their course. Woehrle keeps in touch with members.

Experience counts in the business of golf course management. Each day Oakland Hills Country Club, 20 miles north of Detroit, draws from the experience of Ted Woehrle, former president of the Golf Course Superintendents Association of America.

Woehrle started his career with a degree in agriculture from Purdue University and then built his base through superintendent positions at Chicago's Beverly Country Club, The Country Club of Florida in Delray Beach, and Point-O-Woods in Benton Harbor, Michigan. He has held the head job at Oakland Hills for 14 years.

The posh club was completed in 1919. There are currently 300 acres

under his care. The two courses, one par 70 and the other par 72, contain 118 sand traps. The longest fairway is 577 yards.

Woehrle reports directly to the Oakland Hills Country Club's General Manager. He operates on a job description basis. In other words, all his major responsibilities are spelled out in writing and have been approved by the Board of Directors.

There is also a Greens Committee which functions as a monitoring, recommending and advisory group responsible to the Board of Directors only. This committee is appointed by the Board to serve at the pleasure of the Board of Directors. It consists of a chairman, eight

Class A members, two lady golfers, Greens Superintendent and the Club Golf Professional. The Club Manager and one member of the Board of Directors are officio members of the Greens Committee. The committee meets each month from March through October.

Woehrle is a firm believer in communicating with all groups involved. "I cannot assume that Club Board members are fully aware of the maintenance and improvements being made," he pointed out.

"For example, work was needed on our large water hazard. Pictures were taken before improvement

*Continued on page 32*





## When water bills are out of sight, take a closer look at **Citation**.

**Citation** perennial ryegrass cuts your watering bill without cutting corners on turf quality.

**Citation** is a hard-use turfgrass that stands alone or mixes well with other varieties when a dark green surface is desired. From home lawns to golf courses, cemeteries to athletic fields, **Citation** is an

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Turf-Type Perennial Ryegrass

*It deserves a closer look.*

exceptionally rugged turfgrass with improved mowability. **Citation** is resistant to *Rhizoctonia* brown patch and *Fusarium* blight, with moderate resistance to red thread and dollar spot.

**Citation's** all season performance has been proven year after year in actual service in the North *and* South. With professional supervision and careful cost monitoring, considerable savings in water and fertilizer have been realized. This can mean a better looking bottom line for your operation.

With **Citation** you'll be praised for what you've raised, and raved for what you've saved.

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