



Jeff Hayden checks the ball washer on No. 17 tee, as seen from the tree-shaded cart path from No. 16 green. Not many courses can claim oaks as mature as these.

Photo by Larry Kieffer

FAIRWAYS:

Wide, rolling and tree-lined. Turf: Ormond bermudagrass cut to 1/2 inch; not overseeded.

GREENS:

Average 5,500 square feet (range 3,500 - 7,500). Stimpmeter averages 7.5-8.0. Turf: Tifton 328 bermudagrass cut to 3/16 inch; overseeded in winter with a mixture of rye and saber.

ROUGHS:

Ormond bermudagrass cut to about 1-1/4 inches; bahiagrass in some natural areas.

TREES:

Oak (several varieties) and pine.

WATER:

Four small ponds created during construction, each coming into play on only one hole. All are linked to drainage system.

OTHER HAZARDS:

67 bunkers filled with DOT sand; no transitional grasses.

IRRIGATION:

From deep wells out of Florida Aquifer through single-row system with laterals in landing areas; 288 sprinkler heads.

DRAINAGE:

Surface runoff into lake between golf course and Payne's Prairie.

MAINTENANCE STAFF:

9 full time, including one assistant superintendent and one mechanic; five part-time interns, including one mechanic, from Lake City Community College School of Golf Course Operations and the University of Florida.

EQUIPMENT:

Toro hydraulic valve & head system; 4 Toro triplex greensmowers; 1 Toro Parkmaster five-plex mower, 2 John Deere utility tractors; 2 Jacobsen utility tractors; 1 Massey-Ferguson back hoe; 1 Olathe sweeper.



Azaleas in bloom shows natural beauty of Gainesville Country Club.

(now five) to determine their professional goals and make sure they understood how to fit their goals with the goals of his department: to make each round of golf the most enjoyable round the member has ever had.

"I have a great crew," he says. "Once there is trust on both sides and each has confidence that the other guys will do their part, there aren't any employee problems.

All part-timers are student interns, either from Lake City or from nearby University of Florida. In addition, his assistant, Tom Grover, is completing his course work at Lake City.

"I enjoy teaching," Hayden says. "It's one of the nicest parts of the job. And working with the students has an added bonus -- it keeps me current with the latest developments in the field. I learn from them, too."

The opportunity to teach and take advantage of the two educational institutions are two of the side attractions of his current post.

"I like the atmosphere of a university town and all it has to offer," he says. "I haven't missed a Gator game in eight years."

Hayden's principal hobbies are golf and fishing. He hasn't had time to play since coming to Gainesville, even though he and his family have full membership privileges. (He and wife Sandra have two children, Stephanie, 16 and Benjamin, 8). He puts his game at "nine to 12" when he plays as often as he likes, which is once a week.

As for fishing, he likes to go after bass in natural lakes (as opposed to phosphate pits). He's taken in a seven-pounder. "I'm still looking for my first big one," he says. He recently was introduced to tarpon fishing, an activity he says could become habit-forming.

But maintaining the golf course occupies most of his time.

"I was raised on a golf course," he says. "The work ethic on the golf course is the way I grew up. I learned early how to be my own boss and establish a good

working relationship with the crew. This is really what I enjoy doing."

How is he going to handle the delicate problems with members as he sets about upgrading the maintenance level at Gainesville G&CC.

"There aren't any problems, really," he says. "Just challenges and solutions."

"The important thing is just to show them what I can do . . . just solve some little problems here and there. They know that some of the greens have to be redone. I think if I show them what can be done with the greens and tees on a couple holes, I won't have any problems setting up a long-term program."

"These are very easy people to get along with. You just have to remember that they paid their money to join this club to be away from their jobs and be with people they like. And they want to do it playing golf. It's my job to make golf pleasant for them."

"Nobody is going to get mad at me for doing that." 🍏

EUGENE, OREGON — Oregon-California Chemicals, Inc. (OR-CAL) has recently announced the availability of GAMMA-MEAN for the efficient control of over 35 turf and ornamental insect pests, including mole crickets, army worms, sod webworms and white grubs.

According to Dennis Morgan, spokesperson for OR-CAL, GAMMA-MEAN is unique because of its exclusive micro-coated formula which offers golf course superintendents many benefits when introducing it into their regular pest management programs.

"The micro-coating keeps our product from breaking down prematurely," says Dennis Morgan. "So more GAMMA-MEAN will reach your target pest — even elusive mole crickets — before losing its effectiveness."

Initial distribution is centered in the Southeastern United States, later becoming available throughout the country. Southeastern distribution is being handled by:

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GOLF INDUSTRY NEWS

Dr. Kenneth Diesburg, an honors graduate of the Iowa State University horticultural department, has joined the research staff of International Seeds, Inc., Halsey, Oregon, according to Research Director Craig Edminster.

He will manage breeding and agronomic service programs in turf and forage grass seeds.

Dr. Diesburg earned a B.S. in botany, a M.S. in plant breeding and cytogenetics as well as a Ph.D. in horticulture turf science.

He was a research agronomist and assistant turfgrass breeder for Northrup King Co. at Stanton and Eden Prairie, Minnesota from 1978 - 1982.

International Seeds, Inc. breeds and markets forage and turfgrass seeds, cereal crops and protein legumes. ♣

TYPOS

The typographical error is a slippery thing and sly; you can hunt it till you're dizzy. But it somehow will get by.

Till the forms are off the presses, it is strange how still it keeps;

It shrinks down into the corner, and it never stirs or peeps.

The typographical error is too small for human eyes

Till the ink is on the paper, when it grows to mountain size.

The boss just stares with horror, then he grabs his hair and groans;

And the copy reader drops her head upon her hands and moans.

The remainder of the issue may be clean as clean can be,

But the typographical error is the only thing you sea! ♣

LOFTS PAYS \$176,000 IN ROYALTIES — ALL FOR BETTER TURFGRASS

"Royalties are the lifeblood of continuing turf programs." That statement was made recently by Rutgers University's Dr. Henry Indyk. And that's what one leading seed company, Lofts, has committed itself to support.

For many years Lofts Seed Inc. has contributed hefty royalties to Rutgers University. Each year the increased sales of Lofts' proprietary turfgrass seed varieties allow the company to give proportionally more generous royalty checks to Rutgers. This year's payment of \$176,000 represents a good share of the 3/4 million Rutgers hopes to receive during 1988.

Royalties, in turn, help to perpetuate turf research. Much of the money paid by Lofts directly funds programs conducted by Dr. C. Reed Funk; the balance goes to other Rutgers research projects. Ultimately, this process results in the sale of new and improved turfgrass varieties, beginning the cycle again. Lofts conducts some of its research programs jointly with Rutgers University. During the many years of their association, Lofts and Rutgers have together introduced many turfgrass varieties. Three of Lofts' current proprietary varieties, Palmer and Prelude Turf-Type Perennial Ryegrasses and Rebel II Turf-Type Tall Fescue, have offered significant benefits to professional grounds people. These varieties have been so successful that they made up the largest share of this year's sales and royalties.

This year's ample royalties result not only from increased domestic sales, but also from expanded foreign markets. Lofts has developed as the world's largest marketer of turfgrass varieties. The global network includes Canada, Japan, Europe, South Africa, New Zealand and Australia.

Domestic markets include golf course overseeding, sod, parks, retail and unused areas such as roadsides. When turf professionals in these markets buy certified seed, more funding is available to further academic research of better turfgrass varieties for the future. ♣

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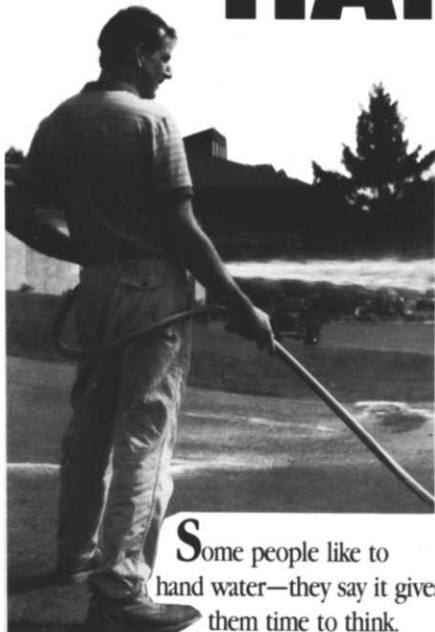
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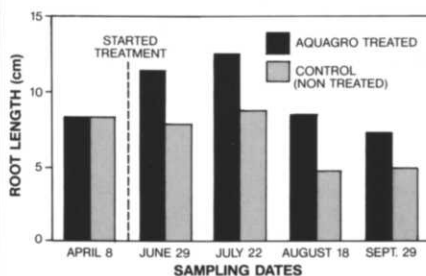
The Difference is Quality Turf

AQUAGRO helps you maintain peak turf quality all season long, while cutting irrigation time and costs. It's a fact that AQUAGRO makes the most efficient use of available water by allowing it to penetrate deep and uniformly into the rootzone, before it has a chance to run off or evaporate. AQUAGRO alleviates localized dry spots and quickly drains puddles. It moves water through both thatch and compacted soils. And it keeps berms and slopes from drying unevenly.

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AQUAGRO doesn't work miracles, but used as part of a complete turf management program, AQUAGRO can solve water related problems and promote deep root growth. This means good playing surfaces that stand up better against traffic and stressful summers.

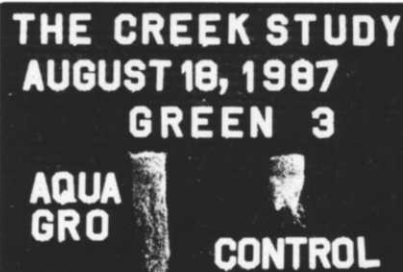
In trials on bentgrass greens treated with AQUAGRO, the recommended program helped maintain significantly deeper roots and better looking turf than the control, all summer long.



In addition to making more moisture available to roots, AQUAGRO improves the distribution and efficacy of water soluble fertilizers and pesticides. It helps move them through heavy thatch.

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The photo shown here is part of a research field trial where AQUAGRO reduced water related problems caused by soil layering conditions. AQUAGRO allowed deep root penetration by promoting water movement through the layers.



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To Your Health: Disease-Fighting Fiber

The message is loud and clear. "Eat foods with adequate fiber," say the USDA Dietary Guidelines. "Eat more high-fiber foods," urges the American Cancer Society.

What is fiber and why is everyone talking about it? Coming from plant sources only, dietary fiber is that portion of fruits, vegetables, whole grain cereals and other plant foods which is not broken down by the body during digestion.

Fiber is becoming one of the most important health and nutrition issues of the '80s simply because our convenience-oriented diet doesn't have much fiber left in it. But over the years, more refined foods, as well as more fats and sweets, have replaced many of the higher fiber foods our grandparents used to enjoy -- basic foods such as fruits, vegetables, whole grain breads, and whole grain cereals.

Although fiber doesn't supply any nutrients and we can live without it, diets without an adequate amount of fiber have been linked to a number of diseases. Among them are heart disease, stroke, diabetes, obesity, and cancer.

There are two types of dietary fiber: water-insoluble and water-soluble. The benefits of the former -- adding bulk, absorbing water, and decreasing the time it takes food to move through the digestive system -- are more well known. But it is the benefits of foods high in water-soluble fiber that are making the most recent news.

Studies show that water-soluble fibers may have a beneficial effect as a dietary component in the treatment of high blood cholesterol and certain kinds of

diabetes.

Dr. James W. Anderson, professor of medicine and clinical nutrition at the University of Kentucky College of Medicine, is among those who have found a favorable relationship between water-soluble fiber and cholesterol.

Dr. Anderson conducted a series of studies using his "HCF" diet, one high in complex carbohydrates and dietary fiber with an emphasis on whole grains, fresh fruits, and vegetables. Red meat, sugar, and fats are avoided when possible, with fish and poultry substituted.

A group of men between the ages of 35 and 62 with high cholesterol levels participated in the studies. Oat bran, a concentrated source of oat fiber and an excellent source of water-soluble fiber, was added daily to the HCF diet. On this oat bran-rich diet, cholesterol levels dropped 13%. When oat bran was continued, cholesterol levels dropped, totally, almost 20%.

Not all types of cholesterol perform the same function in the body. For this reason, it's important to note that the patients who participated in these studies experienced a significant drop in the type of cholesterol that is believed to deposit into body tissues, the low-density lipoprotein cholesterol that is believed to be more closely associated with heart disease.

The body's "good" cholesterol, high-density lipoprotein (or that which removes cholesterol from the tissues), was not adversely affected by the oat bran diet. For that reason, researchers believe that even a well-balanced "average" diet that includes foods high in water-soluble

fibers may help reduce "bad" cholesterol levels and, in turn, potentially reduce the risk of heart attacks.

"Our work has shown that water-soluble fiber lowers blood cholesterol levels. If you lower your blood cholesterol 10%, you're reducing your risk for heart attack by 20%", says Dr. Anderson.

Dr. Anderson also found that his HCF diet, which included generous amounts of oat bran, helped stabilize blood sugar levels, thereby lowering the insulin needs of many diabetics. When the HCF diet was used in the treatment of adult-onset diabetics, many were able to discontinue or reduce the amount of insulin needed.

Oats, barley, and dried beans are among the best sources of water-soluble fiber, followed by fruit and vegetables. Oats, in particular, are an excellent nutritional investment. In addition to the fiber, oats contain more protein than any other grain. They are also rich in vitamins and minerals, and contain no cholesterol or sodium.

Aside from hot cereal, here are some ways to use oats in everyday meals: instead of bread crumbs as a meat extender or in stuffings and fillings; as an ingredient in toppings for coffee cakes, fruit cobblers and crisps: ground into flours and substituted for one-third of all-purpose flour in muffins, breads, pastry, even cookies and cakes, or to thicken soups, stews, and sauces.

You can also use the oat flour as coating for poultry or fish.

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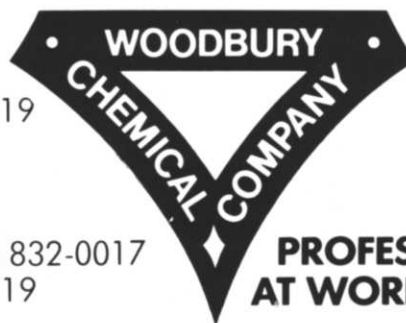
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CHIPCO® MOCAP® 5G REGISTERED FOR THE CONTROL OF MOLE CRICKETS (Southeast Version)

Rhone-Poulenc Ag Company announced the EPA registration of CHIPCO® MOCAP® brand 5G pesticide. The 5 percent granular product was registered for the control of mole crickets and other surface and sub-surface turfgrass pests on Home Lawns and on Commercial Turf such as Golf Courses and Sod Farms.

Andy Seckinger, Rhone-Poulenc Ag Company's Product Manager for CHIPCO® branded products, said "Years of testing by Universities and Rhone-Poulenc Ag Company of CHIPCO® MOCAP® 5G have consistently shown high levels of mole cricket control. The high efficacy levels are the result of the product's effectiveness and the increased ground coverage achieved by the 5 percent granule".

In addition to mole crickets, CHIPCO® MOCAP® 5G also was registered for the control of chinch bugs, black turfgrass Ataenuis beetle, blue grass billbug, sod webworm, white grubs and nematodes.

To control mole crickets, CHIPCO® MOCAP® 5G should be applied by a Certified Applicator at the rate of 4.5 lb/1000 sq. ft. or 200 lb/acre. Irrigate immediately after application to increase safety and efficacy.

CHIPCO® MOCAP® 5G will be available January 1989 in 50 pound bags from the nationwide network of CHIPCO product distributors.

For more information, write to CHIPCO/Specialty Products, Rhone-Poulenc Ag Company, P. O. Box 12014, Research Triangle Park, NC 27709.

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MANAGEMENT FAILURES OR HOW TO DEVELOP UNLIMITED INCAPABILITIES

by Gary Grigg, CGCS,
Heart of America GCSA

1. If a worker makes a mistake, chew him out real good, preferably in front of others.
2. Never accept responsibility for a decision if you can possibly avoid it.
3. Develop an ability to pass the buck.
4. Keep your nose to the grindstone; don't expose yourself to new ideas.
5. If a superior gives you advice, endear yourself to him forever by quickly letting him know you really don't need advice.
6. Keep your finger on every little detail of your job -- both past and present -- that way, you'll never have time to look ahead to future problems.
7. Never consult with others over problems.
8. Never teach a younger employee your job.
9. Never check up on your health, or if you do, pay no attention to your doctor's advice.
10. Be so impatient for advancement that you fail to learn your present job.
11. Be sparing of praise for a job well done.
12. Be sure to get involved in gripe sessions with your subordinates.
13. Always cover up your errors; it teaches your employees to do the same.
14. Get involved in company politics; if there aren't any, start some.
15. Develop a good management image to your employees. Always talk, but never listen.

---- THREE RIVERS GREEN ♣

BROUWER TURF EQUIPMENT DOUBLES ITS SIZE

Brouwer Turf Equipment has reached another milestone in its 17 year history.

After starting this business in a small building in 1972, it moved to the 50 acre site in Keswick in 1974, with a new 23,000 sq. ft. factory.

Since 1974, Brouwer has had three expansions resulting in a total of 66,000 sq. ft. by 1979.

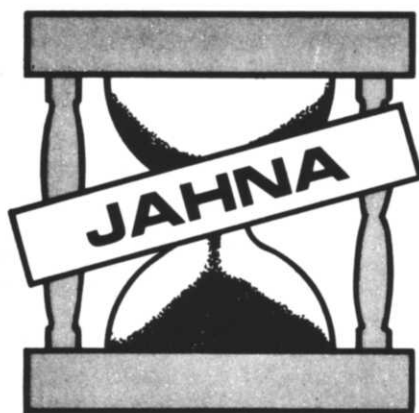
With the completion of their fourth expansion of the plant and offices, Brouwer has almost doubled their size to 124,000 sq. ft.

The company believes that this new expansion and other improvements, place Brouwer Turf Equipment Limited in an excellent position to compete and meet market demand for quality, innovative turf equipment world wide.

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Bermudagrass Mite

by CLYDE S. GORSUCH, Extension Entomologist
Clemson University, Clemson, SC 29634-0365

Recently I have received reports of infestations of the bermudagrass mite from golf course superintendents. Conditions this summer have apparently right for this pest to reach damaging levels. This pest is best recognized by the damage.

The damage is caused by the feeding of the mites beneath the leaf sheaths. First signs are a slight yellowing of the leaf tips and a twisting of the leaves with the margins rolling upward and inward. As damage progresses, shortening of the stem internodes occurs producing tufts or rosettes. When populations of bermudagrass mites are very high and rosettes are numerous, clumps that resemble cabbage heads develop, and the grass appears to have no internodes. Even-

tually, the leaves, stems and stolons will die. This damage is believed to be caused by toxins injected into the plant tissue by the mite during feeding. Damage is most pronounced during dry weather when the grass is under stress. In Florida, golf course infestations are higher where close mowing was not practical. The edges of bunkers, the lips of sand traps and areas around trees were the worst. Large areas of turf may become thinned or killed.

The bermudagrass mite belongs to a group of mites known as eriophyids. This group of mites attack a wide variety of plants. In almost all cases, some type of distortion of the plant or gall formation occurs due to the feeding activity of the mites. The bermudagrass mite is very small, only about 0.1 - 0.2 mm in length. They are creamy-white and worm-shaped with only four legs at the front of the body. The adult mites are barely visible with a 10X to 20X lens. As many as 200 mites may be found in a single leaf sheath. This pest feeds only on bermudagrass.

Mites are active primarily during late spring and summer. Only 5 - 10 days are needed to complete development from egg to adult. Optimum temperatures for development are 80 - 100 degrees Fahrenheit. Bermudagrass mites are spread through normal cultural practices such as mowing that spreads clips, and by hitchhiking on insects present in the grass. Wind and rain are major means of dispersal.

There are definite differences in the susceptibility of various bermudagrass cultivars. Studies conducted in Florida and Arizona have shown that "Tifway" and FB-141 have moderate resistance, "Midiron," "Tifdwarf," "Tifgreen (328)," and "Tifway (419)" are highly resistant, while FB-119 showed no infestation during 6 years of study.

The final question is how to control this pest. Unfortunately, diazinon is no longer labeled for use on golf courses and sod farms. At this time, I would suggest using MARVIK or DURSBAN for control. Bermudagrass mites are on the MARVIK turf label and mites are listed on the DURSBAN turf label. Another material to think about is SEVIN. SEVIN lists eriophyid mites in the ornamental portion of the label. In any case, addition of a good spreader sticker would probably be advisable since the material must get into the leaf sheath to do any good. Use ample water to ensure thorough coverage. A second application should be made within 7 days. Cut the grass and remove the clippings prior to application if possible.

It is important to do everything possible to keep the grass in good vigor. Apply water and fertilizer to stimulate good growth. ■

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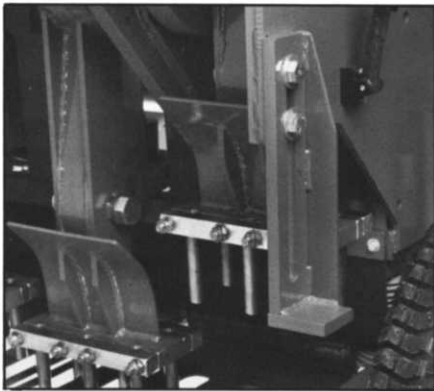
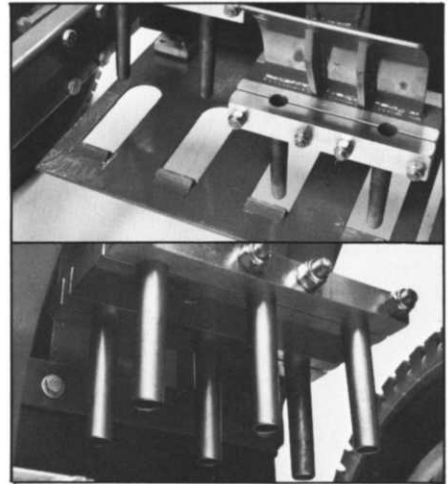
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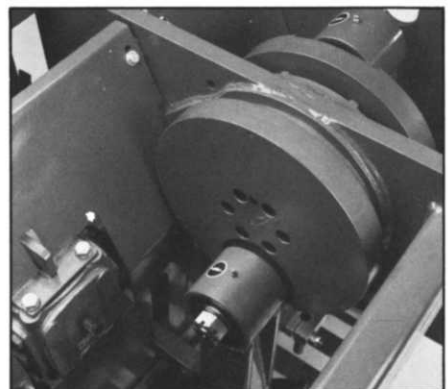
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Coring depth is controlled with adjustable brackets on each side of the unit. The coring unit depth can be easily adjusted up to 5" in depth with the two tine head (5" x 6" pattern) and, up to 3" in depth with the 6 tine head (3" x 3.5" pattern).

Maximum Durability

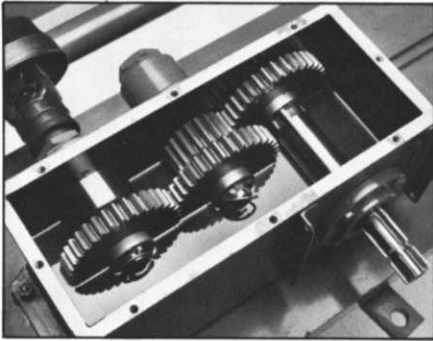
No belt or chains! With an all gear drive, this machine is built to withstand the punishment of high capacity aeration.

- All crank arms ride on heavy duty tapered roller bearings.
- All gears run in lubricated oil baths.
- Heavy duty, welded tubular and structural steel frame.
- Heavy duty, welded structural steel bar and plate coring head frame.



Operation Ease

- Front castor wheel provides easy maneuvering when backing or transporting.
- Hydraulic lift cylinder provides the operator the convenience to raise and lower the coring head from the tractor seat.



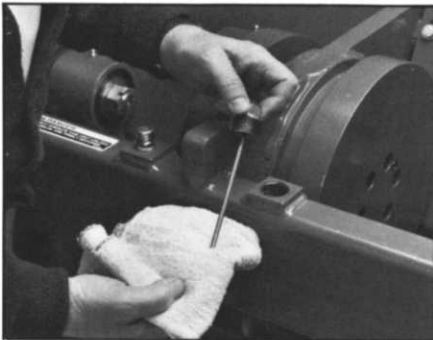
Fits Your Tractor

Durable gearbox with two pick-off gears allow for match-up to virtually all 35 to 45 horsepower universal tractors.



Large Floatation Tires

The Toro Fairway Aerator is designed with large floatation tires to minimize compaction.



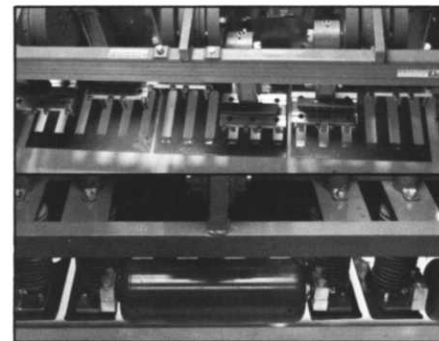
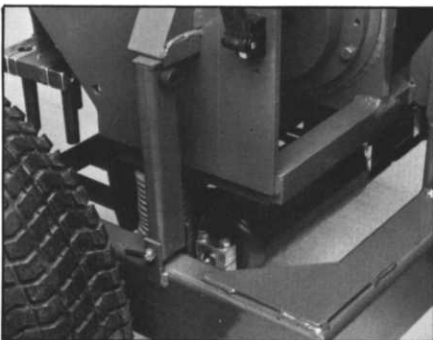
Single Fill Oil Port

All three crank arm gear cases are conveniently filled from one location.



Spring Loaded Roller Turf Guards

Heavy duty spring loaded roller turf guards are provided to help keep turf in place.



Coring Head Lock Up Stands

Coring head stands are provided so you can secure the coring head during transport. While servicing or when changing tines.

Toro has an aerator that's right for you.



Fairway Aerator Specifications*

FAIRWAY AERATOR (MODEL NO. 09500)		
TYPE	Tow behind, PTO driven, deep coring turf/fairway aerator.	
TRACTOR SIZE REQUIRED	35-45 hp at standard 540 PTO rpm.	
GROUND SPEED	1.8-2.2 mph (2.9-3.5 km/h).	
CONSTRUCTION	Frame: welded tubular and structural steel. Coring Head: welded structural steel bar and plate. Hitch: Bolt-on welded tubular and structural steel w/2" (5cm) ball coupler. Welded structural steel bar and plate.	
CRANKS	3 sets with 6 arms.	
TIRES	One each front: 23 x 8.50-12; tubeless and 4-ply rated. Two each rear: 18 x 9.50-8; tubeless and 4-ply rated.	
LIFT CYLINDER	Single acting cylinder hydraulically raises and lowers coring head. Connects to tractor hydraulics with a 1/2" quick coupler.	
DIMENSIONS	Length: 110" (279.4 cm) to 124" (315 cm) Width: 90" (228.6 cm) Height: 44" (111.8 cm) Wheelbase: 44.5" (113 cm) Weight: 2975 lbs. (1350 kg)	
WARRANTY	One year limited warranty. Refer to the Operator's Manual for further details.	
CORING MODE OPTIONS		
	7/8" TINES	3/4" TINES
CORING WIDTH	63" (160 cm)	63" (160 cm)
TOTAL # OF TINES	1 row of 12 tines	2 rows of 18 = 36 tines
HOLE PATTERN	5.25" x 6" (13.3 cm x 15.2 cm)	3.5" x 3" (8.9 cm x 7.6 cm)
CORING DEPTH	Up to 5" (12.7 cm)	Up to 3" (7.6 cm)
CAPACITY	61,000 sq. ft./hour (5,666.9 sq. meters/hour)	61,000 sq. ft./hour (5,666.9 sq. meters/hour)

*Specifications and design subject to change without notice. "Toro" is a registered trademark of The Toro Company, 8111 Lyndale Avenue South, Minneapolis, Minnesota 55420.

COMMERCIAL PRODUCTS



**THE PROFESSIONALS
THAT KEEP YOU CUTTING.**