Nine Functions of a Consultant

Have you ever thought of becoming a consultant, for your present company or others, now or sometime in the future? It’s a common daydream—one that comes true for a great many people.

Dr. Jeffrey Lant, a professional consultant and author, has looked at the consulting business and concluded that true consultants, as contrasted with those given that title by former employers who wanted to let them down gently, traditionally perform one or more of nine basic services for their clients:

- They bring to an operation knowledge or skills not held by the permanent staff.
- They supplement talents of the permanent staff for a special assignment or limited period.
- They indoctrinate or teach the staff a new skill.
- They supervise or oversee an operation, possibly without getting personally involved in carrying it out.
- They serve as a catalyst — causing things to happen that would not otherwise occur or would not come about so quickly.
- They bring to bear an objective, impersonal, third-party point of view, providing fresh insights into a situation.
- They serve as troubleshooters, putting a finger on a weakness or deficiency not otherwise fully perceived.
- They exercise political pull or bring other special influence to bear.
- They perform unpleasant chores, such as wiping out a department or firing a popular employee, which if performed by a permanent member of the staff might lessen the long-term effectiveness of that individual.

Rhone Poulenc Names New Chipco Product Manager

Rhone-Poulenc Inc., Agrochemical Division, announces the appointment of Jerry Garnett as the Product Manager for Chipco® 26019 fungicide and the Chipco range of phenoxy herbicides.

Jerry brings 14 years of turf and horticultural industry experience to his post at Rhone-Poulenc. He was previously Market Development Manager for the May & Baker Garden Products and Environmental Products Department in Brentwood, England. (May & Baker, the United Kingdom’s leading turf chemical manufacturer, is a wholly-owned subsidiary of Rhone-Poulenc.) Prior to joining May & Baker, Jerry was Technical Sales and Marketing Manager for a large United Kingdom distributor and specialist turf contractor, where he gained considerable experience designing and installing Toro irrigation systems in golf and landscaped areas. Before that he held the positions of Technical Salesman and National Accounts Manager with Fisons Corporation. Jerry earned a National Certificate in Turf Culture at the Teachers Training Colleges of Bristol, England, while serving as Superintendent of Grounds and Gardens at the institution.

In addition, Jerry is editorial consultant to THE OFFICIAL JOURNAL OF BRITISH GOLF GREENS KEEPERS ASSOCIATION and its special correspondent to the new TURF MANAGEMENT journal.

Jerry is married and he and his wife, Christine, have two children.

Your Sand Man

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I remember years ago when this controversy was at its height, Drs. O.J. Noer, Al Radko, and Fred Grau, all used to show slides of some of the old timers who had never gotten away from a frequent and light topdressing program and always used the slides as an example of a fine appearing as well as a true putting surface on minimum N\textsuperscript{2} feedings. The main secret was the same materials were always used frequently and there were never any layers in the soil profile.

Dr. Noer had slides of E.B. Steiniger's Pine Valley in New Jersey, showing the most beautiful soil profile you could ever want. “Doc” used to say, “the USGA would never approve of this mix;” but Eb’s grass has liked it for 50 years, and the grass doesn’t know the USGA, but it sure as hell knows the loving care Eb and his staff put in the aging, mixing, and applying the mix and has responded to this care all these years and after all, “the grass tells the story.” Never could truer and more prophetic words have been spoken. The last time I saw the slide, the profile was over 2 feet thick with roots all through the profile.

Proof of topdressing’s many benefits has now and again come to the fore-front. The stimpmeter has proven the results of the mechanics of properly applied dressing, and many fine courses have gone back to the old means how be it with modern ways. Had the equipment been available in past years that we have today, we would have probably topped the greens EVERY MONDAY or EVERY OTHER MONDAY at the least.

So the basics of good dressing has not changed that much over the years:

A. Use materials closest to that of your existing soils you can purchase or create.

B. NEVER CHANGE THE MIX.

C. Do it lightly.

D. Do it frequently.

E. Do it well so that the end results, even that day, are apparent to both the eye and the roll of the ball.

F. NEVER CHANGE THE MIX.

The stimulation of bacterial action from dressing using the above formula can not only give you a good putting surface, by reducing thatch, but possibly reduce the amounts of N\textsuperscript{2} now advocated. Reduction in N\textsuperscript{2} will eventually prove most beneficial in many ways; reduced grain and thatch, reduced water, deeper roots, less disease, and fewer insect problems. Since our modern theory in golf maintenance is “back to basics,” and golf as it should be played on a golf course and not an exceptionally fine manicured expanse of wall to wall grass, we should all reconsider this BASIC idea of frequent and light topdressing. The end results of its use and effectiveness in giving our golfers the best of putting surfaces, will justify any expenses involved. Topdressing is back, and personally I feel this time, to remain one of our primary tools in fine putting surface production.
Through breeding we have combined the desirable characteristics of

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Turf-Seed, Inc.
MOLE CRICKETS: YOUR ENEMY BELOW
How To Keep These Prolific Insects From Destroying Your Grass

During the next three months, many Florida golf course superintendents will find their grounds invaded by hordes of destructive visitors—insects barely more than an inch long with shovels for forelegs. Mole crickets are not strangers to Florida, but, more than ever, superintendents are becoming personally acquainted with these pests that chew and tunnel recreational turf to the tune of millions of dollars in damage annually. Golf courses, owing to grasses with shallower root systems, apparently rate highest on the crickets’ menu.

Superintendents and entomologists alike agree that this prolific, mysterious pest has become the state’s major insect threat to turf. Yearly, the mole crickets’ sphere of destruction reaches further southward: they are common in Jacksonville, Orlando and Gainsville and well-established on many courses in the Fort Lauderdale and Miami areas.

“Next to water problems, insects are our biggest headache. And insects, to us, now mean mole crickets, above all,” says Brad Kocker, superintendent at Inverrary Golf Club, Fort Lauderdale. Adds Al Jewett, Vice-President for landscaping and maintenance at Miami Lakes: “Mole crickets keep us alert, and they’re our biggest insect problem. We’ve been fighting this battle from the time the course opened in 1962.

1. MOLE CRICKET DAMAGE at Miami Lakes is pointed out by Al Jewett, Vice-President for Landscaping and Maintenance, left, and Richard Bilyard, technical representative, Woodbury Chemical Company. Jewett says mole crickets, a problem ever since the course opened in 1962, require prompt attention to control. He uses Sevin 20% Bait because “it is less erratic” and gives “better uniformity of control.”

(Continued on Page 25)

Start at the top and stay there

It takes a blending of skill, experience and attention to the fine points to become a great golfer. The same qualities are needed to develop and maintain a great golf course.

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University of Florida entomologist Dr. James Reinert points out that mole crickets complete their spring flights in April or May and have set up "housekeeping" in turf. Thus, he says, July is the best time for applying insecticides, because the newly-hatched nymphs are smaller and near the soil surface. While the immature crickets are not yet capable of doing extensive damage, if left unchecked the larger nymphs will soon begin chewing and tunneling, resulting in areas that can appear "roto-tilled."

Caught on the horns of this insect dilemma are the superintendents, who are charged with keeping grounds healthy and playable while, at the same time, battling the one pest that can undo their best work. Golfers, concerned only with avoiding bogeys, expect well-kept tees, fairways and greens and invigorating air not contaminated by insecticide odors.

Not every course has experienced mole crickets, says Dr. Reinert. But he adds that, with cricket populations on the rise, the likelihood of infestations developing on courses with no history of infestation is very probable. Inverrary's Kocker points out that, while "most superintendents are aware of the problem," once it strikes, no part of the course is immune. "We have had large turf areas that were just annihilated. When you see the start of some damage, a week later you find no turf remaining. It's incredible."

Jewett finds the fairways at Miami Lakes hardest hit, with less activity on the dryer slopes. He keeps a close check on the crickets' progress by riding the course each morning, while Miami Lakes superintendent Sam Green goes on cricket patrol once a day. Jewett and Green are especially watchful on their shorter 18-hole par 3 course, because its lights serve as a nighttime lure.

RESEMBLES MOLE, GOPHER DAMAGE

The tunneling leaves mounds of soil resembling miniature ground mole or gopher damage, Reinert notes. He says the loosened soil uproots plants and promotes killing of exposed grass. Damaged turf appears to be cultivated, and crickets sometimes physically drag the uprooted grass into the ground and make a nest of it. The industrious insects can tunnel 10 to 20 feet in a single night.

2. FAIRWAY OR ROUGH? In a short time, mole crickets can transform a section of well-maintained fairway into a "rough," as shown by this damage at Miami Lakes. Al Jewett, Vice-President for Landscaping and Maintenance, says "mole crickets keep us alert."

(Continued on Page 26)
3. MOLE CRICKETS prefer the shallower root systems of golf course turf, as Superintendent Brad Kocher learns while examining the edge of a green at Inverrary Golf Club, Fort Lauderdale. Besides maintaining desired levels of control, non-odorous and safe pesticides should be used to prevent players’ discontent, says Kocher. The Inverrary superintendent says Sevin 20% Bait can “pull mole crickets out of the ground in 30 minutes to one hour.”

Crickets also put additional strain on weed control programs and increase the need for herbicide investments, Kocher points out: “If you get crickets into an area and you start losing healthy grass, watch out. Before you know it, weeds will start creeping in.”

Close-cropped Bermuda grass, with shallower root depths, are especially susceptible to feeding, says Reinert. Bahia grass also invites damage, owing to its open growth habit, he adds. St. Augustine grass can also be attacked, but doesn’t show damage as readily because of its more canopy-type growth habit, says Reinert. Pastureland, football fields, baseball diamonds, home lawns and vegetable gardens and farms also can become targets of mole crickets, says Reinert.

**SPOT TREATMENT BEST**

The university of Florida researcher says insecticide treatments usually produce desired results, once superintendents have ascertained the extent of infestations.

“I discourage anything but spot treatment,” says Reinert. “It makes no sense to treat wall-to-wall for mole crickets. Eighty to ninety percent of the population is confined to the area where you are seeing the damage.”

One way to test for crickets’ presence, he says, is to use a soap flush; mix one fluid ounce of liquid detergent in two gallons of water and apply over four square feet of turf. If the irritant drives more than two mole crickets to the surface within three minutes, then control probably is needed, he says. The entomologist stresses that this method is only an indicator. A more accurate method, but one not usually practiced on golf courses, he says, is to physically remove a soil ball, go through it and get an accurate count of crickets. A single cricket per square foot is indicative of a dangerous infestation, says Reinert.

The seriousness of the problem has wrought havoc with budgets. “I’m spending thousands of dollars trying to control crickets,” says Kocher. “I can no longer say that I have so many dollars for a chemical budget. You have to spend what it takes to control the pest, even if it means cutting out something else.”

Kocher and Jewett say they have obtained best control of mole crickets with Sevin carbaryl 20 Percent Bait at the maximum recommended label rate of 10 pounds per acre (four ounces of bait per 1,000 square feet). The label for Sevin 20 Percent Bait specifies treatment of two to four ounces of bait per 1,000 feet (five to 10 pounds per acre.)

Kocher suggests a thorough watering of the area 15 to 20 minutes before application. “Let it dry just a little before putting out the Sevin bait and hope it doesn’t rain that night. Rain is our biggest problem during our control season, so it helps to keep an eye on the weather forecast.”

Reinert points out that an insecticide bait applied when the soil is dry will not be consumed, because the crickets are deep in the soil and not feeding at the surface. “So, irrigate before the bait goes on to draw them to the top. However, a sudden heavy rain after treatment can leach the bait and render it ineffective,” he warns.
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present...
These durable midsize 52" and 62" rotaries mow like garden tractors, trim close like walk mowers, and let one man do both faster. That's the productivity of professionals.
Toro engineering makes our Groundsmaster 52 and Groundsmaster 62 deliver superior performance. And Toro durability keeps them that way longer.

**DURABILITY FEATURES:**

**POWER TO SPARE FROM ENGINES PAINSTAKINGLY TESTED AND SELECTED BY TORO ENGINEERS** to fit the machine and its applications:

- **a.** Groundsmaster 52 has a 16 hp, 32.4 cu. in., cast-iron, air cooled Briggs & Stratton engine.

- **b.** Groundsmaster 62 is powered by a 20 hp, 47.7 cu. in., twin cylinder, air cooled Onan engine for strong, quiet performance.

**HYDROSTATIC DRIVE** provides single pedal operation for forward/reverse speeds. Easy, smooth maneuverability with no clutch to wear out. Also, your operator gets superb speed control for all conditions. Infinitely variable speed up to 8.5 mph.

**HEAVY DUTY DONALDSON AIR CLEANER** is industrial type. Keeps your engine running longer by filtering out dirt and other contaminants before they can cause excessive wear. Allows dirt to be removed easily at the end of each day.

**RUGGED ROTARY BLADE SPINDLE** to stand up to bombardment of rocks and other debris. Toro uses a cone rather than a cylinder housing, and splines rather than keys, to better absorb shock loads. Timken "SS" bearings also used. All for greater durability.
PERFORMANCE FEATURES:

P.T.O. DRIVE SHAFT with mechanical engagement for decks or accessories. Avoids belt misalignments and makes changing from one accessory to another a breeze.

OFFSET DECK OUT FRONT AND REAR WHEEL STEERING for superior maneuverability. And the 52" and 62" decks are just right in size. Big enough to get the job done quickly and small enough to get into those tight spots. Both decks are offset 10½ inches to give you one pass trimming around trees and obstacles. It's also ideal along curbs and beneath overhanging shrubs.

CUTTING HEIGHT ADJUSTS EASILY from 1 to 4 inches without tools. Simply pull four pins.

FLOATING DECK means more consistent cut, even over irregular terrain, because the cutting unit floats free of the prime mover. And, the entire deck raises hydraulically for fast, easy transport over obstructions like curbing.

OPERATOR STATION features adjustable, molded cushion seat, or deluxe suspension seat for a smooth ride all day long. 15 inch steering wheel, hour meter and ammeter, all located for maximum comfort, convenience and efficiency. Safety interlock stops engine when operator leaves seat with PTO or traction pedal engaged.

EXCELLENT STABILITY comes from 4 wide stance wheels plus low center of gravity. Front drive wheels and rear wheels are equipped with 4 ply rated tires. Both drive wheels have drum brakes controlled by individual pedals.
Team your Groundsmaster 52 or Groundsmaster 62 with any of these deck combinations.

**GROUNDMASTER 52 PRIME MOVER.**

Shown with floating 52" deck. Driven by a 16 HP, 32.4 cu. in., cast iron, air cooled Briggs and Stratton engine. Designed for mowing up to 2.8 acres/hour. Ideal for mowing small areas, or as a trim mower when maneuverability is most important. Offers variable ground speed up to 8.5 m.p.h. Hydrostatic drive for single pedal operation of forward and reverse. Excellent stability from 4 wide stance wheels plus low center of gravity. Front drive wheels and rear wheels are equipped with 4 ply rated tires. Both drive wheels have drum brakes with individual pedals for greater trimability that reduces an uncut circle to 0". Operator station has adjustable, molded cushion seat or a deluxe suspension seat for smooth ride all day long. PTO drive shaft makes accessory changes a snap.

**GROUNDMASTER 52 FLOATING DECK.**

This three blade, front mounted rotary unit offers full flotation in all directions, with rollers in front and back for reduced scalping. Ideally suited to cutting situations that involve hilly, uneven terrain. The Groundsmaster 52 with floating deck is capable of mowing up to 2.8 acres an hour at 5.5 m.p.h. Deck offset 10¾" to the left for greater trimability. Available in a 0" uncut circle with brake assist. Can be easily adjusted for a height of cut from ¾" to 4" in ¼" increments, without tools. Has 5" deep, 12 gauge stamped steel Wind Tunnel® housing for easy cutting even on wet grass.

**GROUNDMASTER 52 STANDARD DECK.**

The Groundsmaster 52 with standard deck is capable of mowing up to 2.8 acres an hour at 5.5 m.p.h. Unit has 51¾" width of cut with the three blade front mounted rotary deck. Deck offset 10¾" to the left. Can cut a 0" uncut circle with brake assist. Can be adjusted easily for a height of cut, from ¾" to 4" in ¼" increments, without tools. Has 5" deep, 12 gauge stamped steel Wind Tunnel® housing for easy cutting even on wet grass.

**GROUNDMASTER 52 FLOATING REAR DISCHARGE DECK.**

Designed for controlled discharge of clippings to the rear center between wheels. Has full flotation design with front rollers to reduce scalping. Constructed from 12 gauge steel and is 3" deep. The 51¾" deck can mow up to 2.3 acres/hour at 4.5 m.p.h. Three bladed front mounted rotary is offset 10¾" to left for close trimming around obstacles and under overhangs. Adjusts from 1" to 4" in ½" increments without tools. Lifts hydraulically for transport.
**GROUNDMASTER 52**
- 52" floating cutting deck
- 52" standard cutting deck
- 52" floating rear discharge cutting deck

**GROUNDMASTER 62**
- 62" floating cutting deck
- 52" floating cutting back
- 52" standard cutting deck
- 52" floating rear discharge cutting deck

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**GROUNDMASTER 62 PRIME MOVER.**
Shown with floating 62" deck. Driven by a rugged 20 HP, 47.7 cu. in., twin cylinder, air cooled Onan engine. Designed for mowing up to 3.4 acres/hour. Ideal for mowing small to medium sized open areas, and for trimming in medium to large areas. Variable ground speed up to 8.5 m.p.h. Hydrostatic drive for single pedal forward/reverse. Four wide stance wheels with 4 ply rated tubeless tires. Front wheel traction drive. Rear wheel steering for greater maneuverability. Individual drum brakes for left and right traction wheels to allow for brake assist steering that makes possible trimming up to a 0" uncut circle. Operator controls designed for easy access and operation. Molded foam seat or deluxe suspension seat offer operator comfort even on the toughest terrain. Donaldson air cleaner standard. Tough commercial strength construction. PTO drive shaft for easy interchangeability of decks and accessories.

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**GROUNDMASTER 62 FLOATING 62" DECK.**
Capable of mowing up to 3.4 acres an hour at 5.5 m.p.h. Front mounted, three bladed, rotary deck has 61 5/8" width of cut. Deck is offset 10 1/4" to the left for greatly increased trimability. Capable of 0" uncut circle with brake assist. Deck easily adjusts without tools for a height of cut from 1" to 4" in 1/2" increments. Rugged 5" deep 12 gauge steel welded construction for greater durability even in tough mowing conditions.

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**GROUNDMASTER GRASS COLLECTING SYSTEM.**
Designed to fit the Groundsmaster 52 floating deck, the Grass Collecting System allows on-the-unit bagging of grass clippings. Utilizes a separate 16" diameter blower attached to the deck's discharge port that virtually eliminates clogging. A durable one-piece, high-density polypropylene chute directs the grass clippings back through a hinged hood mounted to the bag support system. A rear-mounted polyester bag for clippings is positioned inside the path of the cutter deck for easy maneuverability. Hinged hood on top of bag support opens easily for quick removal of grass bag. The grass collecting system comes standard with a polyester bag capable of holding 7 bushels of grass clippings. An optional dry condition polyester bag that will hold up to 10 bushels of clippings is also available.
These accessories make our Groundsmaster 52 and Groundsmaster 62 professionals for all seasons.

**SNOWTHROWER.** Big 48" two stage snowthrower with adjustable side skids and discharge chute. Electric chute rotator comes standard. Driftbreaker auger and oversized second stage clears snow in a hurry and prevents clogging.

**CAB WITH ROPS.** Completely enclosed vinyl cab turns your Groundsmaster into an all-weather vehicle. Includes ROPS. Heater and light kit available.

**WHEEL WEIGHTS/REAR WEIGHTS/TIRE CHAINS.** Toro offers wheel weights and tire chains for better traction when using accessories. Rear weights will help counterbalance front mounted accessories for better operation.

**LEAF MULCHER.** Made of heavy gauge steel, the leaf mulcher mounts under side discharge decks allowing blades to vacuum and pulverize fallen leaves.

**V-PLow.** Rugged, 48" V-plow for snow has front skid and reversible/replaceable scraper blades for low cost snow removal. Requires special mounting kit which includes tire chains.

**SPARK ARRESTER MUFFLER.** Minimizes spark emissions.

**ROLL OVER PROTECTION SYSTEM.** Certified roll over protection system (ROPS) for greater operator safety conforms to OSHA regulations, includes seat belt for greater safety.

**ROTARY BROOM.** Tough 48 inch rotary broom sweeps parking areas, paths and walkways, saves hand labor.

**HIGH LIFT BLADES.** Provides additional lift for improved appearance in wet or heavy grass.

**SEAT OPTIONS.** Choose from adjustable, molded foam seat or deluxe suspension seat for operator comfort on your unit.

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When you need reliable maintenance and repair service, turn to your full service Toro distributor. He has highly trained people ready to serve you fast. A complete inventory of replacement parts. Plus other valuable services, like technical training for your operators. Whatever your needs in professional turf equipment, call your full service Toro distributor.
GROUNDMASTER® 52 PRIME MOVER (MODEL NO. 30775)

ENGINE
- Briggs & Stratton, 1 cylinder, 4 cycle, air cooled, 16 HP @ 3600 RPM, electric start. 32.4 cu. in. displacement. Splash oil system. 2 qt. oil capacity. I-beam alloy connecting rod, cast iron cylinder block, mechanical fan weight governor limits speed to 3600 RPM, vacuum fuel pump. Heavy duty remote mounted Donaldson Cyclocap air cleaner. Extra large muffler for reduced noise level. Optional spark arrestor muffler available from Briggs & Stratton.

ELECTRICAL FEATURES
- 12 volt. 66 plate, 57 amp-hour capacity battery. Dash-mounted ignition switch. 3.3 amp. 12 volt dual circuit alternator with 50-100 watt A.C. lighting circuit. Seat switch, PTO and traction interlock switches.

WEIGHT
- 770 lbs. prime mover with seat.

CERTIFICATION
- Certified to meet ANSI specifications B71.1b — 1977, and applicable Federal and State OSHA regulations based thereon.

GROUNDMASTER® 62 PRIME MOVER (MODEL NO. 30790)

ENGINE
- Onan twin opposed cylinder, 4 cycle, air cooled, 30 HP @ 3600 RPM, electric start. 47.7 cu. in. displacement. Gear driven oil pump for full pressure lubrication, remote mounted replaceable oil filter, and remote mounted engine oil cooler. 2 qt. oil capacity. System also incorporates oil pressure shut-off switch and high cylinder head temperature shut-off switch. Alloy aluminum connecting rods. Forging iron cylinder liners cast into block. Mechanical fan weight governor limits speed to 3600 RPM. Vacuum fuel pump. Heavy duty, remote mounted Donaldson Cyclocap air cleaner. Extra large muffler for reduced noise level. Optional spark arrestor muffler Part No. 46-2390.

ELECTRICAL FEATURES
- 12 volt. 42 plate, gold cranking 300 amperes at 0°F, 50 minute reserve capacity at 80°F, maintenance free battery. 15 amp. alternator with regulator. Seat switch, PTO and traction interlock switches.

WEIGHT
- 810 lbs. prime mover with seat.

CERTIFICATION

SPECIFICATIONS COMMON TO GROUNDSMASTER 52 AND 62

FUEL CAPACITY
- 6.0 gallons gasoline.

TRACTION DRIVE
- Variable hydrostatic transmission mounted on Dana GTO30 axle — 20:1 ratio. Single foot pedal control of forward/reverse ground speed. 25 micron replaceable filter. 5 qt. oil capacity.

GROUND SPEED/CLEARANCE
- 0-8.5 MPH, infinitely variable. Ground clearance 5/2".

 TIRES/WHEELS/PRESSURES
- Two steering tires 18 x 6.00 — 6, tubeless 4 ply rating. Two rear traction drive tires 20 x 8.00 — 10, tubeless 4 ply rating. Denountable rims. Recommended tire pressure 10-15 P.S.I depending on mowing conditions.

MAIN FRAME
- All welded formed steel reinforced with square tubing.

 BRakes
- Individual 7 x 1/4" drum type wheel brakes and parking brakes on front traction wheels. Dynamic braking through traction drive.

STEERING CONTROLS
- Automotive steering gear assembly, 15° steering wheel.

GAUGES
- Hour meter and ammeter.

IMPLEMENT DRIVE
- Optional: Molded foam seat with leaf-spring suspension, Model No. 30765. Deluxe suspension seat, Model No. 30766.

Both adjustable 4 1/4" fore and aft.

1" diameter splined PTO shaft clutched by two "HA" torque team section tight-sack V-belt.

52" STANDARD CUTTING UNIT (MODEL NO. 30545)

TYPE
- 51/4" width-of-cut, three blade, front mounted rotary.

MOVING RATE
- Mows up to 2.8 acres/hour at 5.5 MPH depending on conditions.

TRIMMING ABILITY
- Deck offset 10/4" to the left from center line; deck offset 10/4" to the left from outside of tire to trim side. 36" uncircl circle left. 6" uncircl circle with use of individual wheel brakes.

HEIGHT OF CUT
- 9/4", adjustable in 1/4" increments in front and 1" increments in rear.

CONSTRUCTION
- 12 gauge stamped steel, 6" deep, Wind-Tunnel™ housing.

CUTTER DRIVE
- PTO driven spiral bevel gear box. "AA" section belt drive to all spindles. 1/4" regreasable spindles with two tapered roller bearings.

BLADES
- Three 18" long, 3/16" thick, heat treated steel blades.

SUSPENSION
- Two 8" front wheels. Suspended off the prime mover at rear.

LIFT
- Two hydraulic cylinders.

WEIGHT
- 335 lbs.

CERTIFICATION
- Certified to meet ANSI B71.1b — 1977, and applicable Federal and State OSHA regulations based thereon.

52" FLOATING REAR DISCHARGE CUTTING UNIT (MODEL NO. 30560)

TYPE
- 51/4" width-of-cut, three blade, front mounted rotary.

MOVING RATE
- Mows up to 3.8 acres/hour at 4.5 MPH depending on conditions.

TRIMMING ABILITY
- Deck offset 10/4" to the left from center line; deck offset 10/4" to the left from outside of tire to trim side. 36" uncircl circle left. 6" uncircl circle with use of individual wheel brakes.

HEIGHT OF CUT
- 7 1/4" adjustable in 1/4" increments by relocating four pins, one at each corner of the cutting unit.

CONSTRUCTION
- 22 gauge welded construction, 3" deep.

CUTTER DRIVE
- PTO driven spiral bevel gear box. "AA" section belt drive to all spindles. 1/4" regreasable spindles with two tapered roller bearings.

BLADES
- Three 18" long, 3/16" thick, 23 1/2" wide, heat treated steel blades.

CARRIER FRAME SUSPENSION
- Two 8" phenolic resin front wheels with regreasable roller bearings. Suspended off prime mover at rear. Front deck rollers. Deck counterbalanced by spring between cutting unit and prime mover.

LIFT
- Two hydraulic cylinders.

WEIGHT
- 230 lbs.

CERTIFICATION
- Certified to meet ANSI B71.1b — 1977 Safety Specifications, and applicable Federal and State OSHA regulations based thereon.

62" FLOATING CUTTING UNIT (MODEL NO. 30562)

TYPE
- 61/4" width-of-cut, three blade, front mounted rotary.

MOVING RATE
- Mows up to 4.4 acres/hour at 5.5 MPH depending on conditions.

TRIMMING ABILITY
- Deck offset 10/4" to the left from center line; deck offset 10/4" from outside of tire to trim side. 36" uncircl circle left. 6" uncircl circle with use of individual wheel brakes.

HEIGHT OF CUT
- 7 1/4" adjustable in 1/4" increments by relocating four pins at each corner of the cutting unit.

CONSTRUCTION
- 16 gauge steel, 8" deep Wind-Tunnel™ housing, welded construction.

CUTTER DRIVE
- PTO driven spiral bevel gear box. "AA" section belt drive to all spindles. 1/4" regreasable spindles with two tapered roller bearings.

BLADES
- Three 21 1/4" long, 2 1/8" wide, heat treated steel blades.

CARRIER FRAME SUSPENSION
- Two 8" phenolic resin front wheels with regreasable roller bearings. Suspended off prime mover at rear. Front deck rollers. Deck counterbalanced by spring between cutting unit and prime mover.

LIFT
- Two hydraulic cylinders.

WEIGHT
- 335 lbs.

CERTIFICATION
- Certified to meet ANSI B71.14 — 1980, and applicable Federal and State OSHA regulations based thereon.
LEAF MULCHER

Optional attachment of 12 gauge steel with 1/4" diameter staggered holes. Mounts under side discharge deck. Model No. 30790 fits cutting units #30545, 30555; Model No. 30792 fits cutting unit #30562.

GRASS COLLECTING SYSTEM (MODEL NO. 30557) FOR 52" FLOATING CUTTING UNIT

CONSTRUCTION
Blower assembly housing is 18" diameter; three piece welded construction. The blower assembly attaches to the discharge port of Model #30553 cutting unit. Impeller speed is 3500 RPM max. @ 3200 RPM engine speed.
Chute is one piece, made of black, high density polypropylene material used to direct debris into bag.
Rectangular bag support is welded to frame of steel tubing. Bottom pan is black high density polypropylene riveted to a welded tubular steel frame. The bag support assembly mounts to the right side of traction unit and supports a polyester grass bag.

ACCESSORIES
Tire chains included (Part No. 28-5470).
Two optional rear weight kits required (Part No. 24-5780).

OVERALL DIMENSIONS AND WEIGHTS (APPROX.)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LENGTH</th>
<th>WIDTH</th>
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<th>WEIGHT</th>
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<tbody>
<tr>
<td>TRACTION UNIT #30775</td>
<td>74&quot;</td>
<td>42&quot;</td>
<td>48&quot;</td>
<td>770 lbs.</td>
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<tr>
<td>W/30545 CUTTING UNIT</td>
<td>98&quot;</td>
<td>65&quot;</td>
<td>48&quot;</td>
<td>960 lbs.</td>
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<tr>
<td>W/30555 CUTTING UNIT</td>
<td>97.5&quot;</td>
<td>65&quot;</td>
<td>48&quot;</td>
<td>990 lbs.</td>
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<tr>
<td>W/30545 CUTTING UNIT</td>
<td>97.5&quot;</td>
<td>63.5&quot;</td>
<td>48&quot;</td>
<td>1,000 lbs.</td>
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<tr>
<td>W/GRASS COLLECTING SYSTEM</td>
<td>97.5&quot;</td>
<td>68&quot;</td>
<td>57&quot;</td>
<td></td>
</tr>
<tr>
<td>W/SNOWTHROWER</td>
<td>105&quot;</td>
<td>51&quot;</td>
<td>48&quot;</td>
<td></td>
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<tr>
<td>W/V-PLow</td>
<td>99&quot;</td>
<td>48&quot;</td>
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<tr>
<td>W/BROOM</td>
<td>119.5&quot;</td>
<td>53&quot;</td>
<td>48&quot;</td>
<td></td>
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<tr>
<td>W/ROPS</td>
<td>N/A</td>
<td>42&quot;</td>
<td>74.5&quot;</td>
<td></td>
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<tr>
<td>W/CAB</td>
<td>N/A</td>
<td>42&quot;</td>
<td>74.5&quot;</td>
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ACCESSORIES

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>MODEL/ PART NO.</th>
<th>DESCRIPTION</th>
<th>MODEL/ PART NO.</th>
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<tbody>
<tr>
<td>TIRE CHAINS</td>
<td>28-5470</td>
<td>WHEEL WEIGHTS - 20 LBS.</td>
<td>28-1270</td>
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<tr>
<td>W/ROPS</td>
<td>24-5780</td>
<td>DELUXE SUSPENSION SEAT</td>
<td>30766</td>
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<tr>
<td>W/CAB</td>
<td>N/A</td>
<td>SPARK ARRESTOR MUFFLER -</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>MODEL NO. 30775</td>
<td></td>
</tr>
</tbody>
</table>

COMMERCIAL PRODUCTS

*Specifications and design subject to change without notice.

THE PROFESSIONALS THAT KEEP YOU CUTTING.

"Toro" is a registered trademark of The Toro Company, 8111 Lyndale Ave. So., Minneapolis, Minnesota 55420.
Jewett stresses that prompt attention is necessary: “You can’t say, ‘I’ll get this area on the way back’—you have to get it in now. Something may happen that keeps you from returning.” The Miami Lakes superintendent says he likes Sevin 20 Percent Bait’s control because “it is less erratic. You get better uniformity of control.”

GOLFERS DISLIKE ODORS

Kocker says respect for the playing members cannot be overemphasized: “We have a lot of traffic at Inverrary and that always creates problems in pest control. You try to use treatments during times that won’t interfere with golfing. I don’t want players smelling pesticides or tracking through it, safe as it may be. Some insecticides labeled for crickets pose an odor problem. Sevin has no odor. What’s more, with Sevin, it takes 15 times less material (at the 10 pound rate) to cover the same space as Dursban. In a heavily infested area, I’ve seen Sevin pull mole crickets out of the ground in 30 minutes to one hour. You see dead ones all over the place, but, more importantly, you know there are many more dead ones underground that won’t come up.”

“The baits all do a good job in certain situations,” says Reinert. “There will always be failures, no matter what. Sometimes you get a good treatment, at other times not so good. It just happens. Spray applications using high-pressure injections have been used successfully by several people, but we have no research experience to support this method of application.”

While cricket populations are typically higher in late summer, a lesser peak of egg-hatching occurs in late January to mid-February, says Reinert. This is the result of a second flight, usually in September to November, he adds. Thus, golf course superintendents who may enjoy a late fall respite may experience a return of their problem in springtime. But in many cases, says Reinert, the cycle appears unbroken: Nymphs of crickets can be found year-round.

MOLE CRICKETS: YOUR ENEMY BELOW

Fortunately, all hatchlings do not survive, Reinert says: The insects are cannibalistic and often are preyed upon by fire ants, ground beetles, earwigs, spiders, birds and small animals. A parasitic wasp, credited with reducing mole cricket populations in Puerto Rico, has been introduced to Central and Southern Florida, but several years of testing remain before its controlling effect will be known.

The bad news is, Florida probably has not seen the worst of its mole cricket problem, says Reinert. He points out that, as an “imported” insect, no natural predator sufficient for ideal levels of control exists in this country. Also, pastures, gardens, lawns and local ball fields may continue to “warehouse” future generations owing to lack of adequate control information or resources.

But the good news is, Florida’s golf course superintendents, by addressing the seriousness of the problem, can continue to keep their grounds in enviable shape—with help from insecticides, their weatherman and the club treasurer. ■
June 7, 1982

William G. Wagner  
22 Pinetree Circle  
Tequesta, FL 33458  

Dear Bill:

Just a brief note on behalf of the Golf Course Superintendents Association of America to thank the Florida GCSA for donating bound copies of its magazine, THE SOUTH FLORIDA GREEN, to the GCSAA library. We are honored and pleased to accept these books with the expectation that they will contribute handsomely to an expanding Association library concept.

Should it be possible, we would appreciate receiving future bound copies of THE FLORIDA GREEN. As always, your members and key Chapter Chairmen continue to represent the game and the profession so well. Best wishes for continued success and a good summer.

Sincerely,

[Signature]

James E. McLoughlin  
Executive Director  

JEM/mr  

cc: Dan Jones  
John Hayden, CGCS  

EDITORS NOTE: President Bill Wagner reports that all future issues of "The Florida Green" will be bound and made a permanent addition to The GCSAA Library.
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