

## 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.

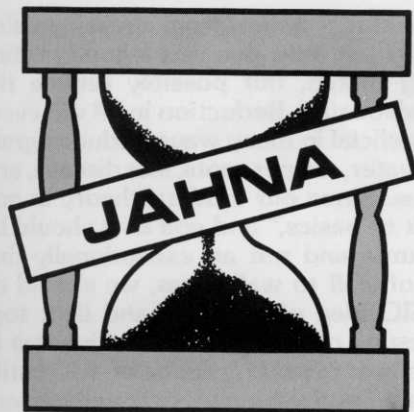
## Rhone Poulenc Names New Chipco Product Manager

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. ■



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(Continued from Page 14)

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<sup>2</sup> 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 every 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<sup>2</sup> now advocated. Reduction in N<sup>2</sup> 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. ■



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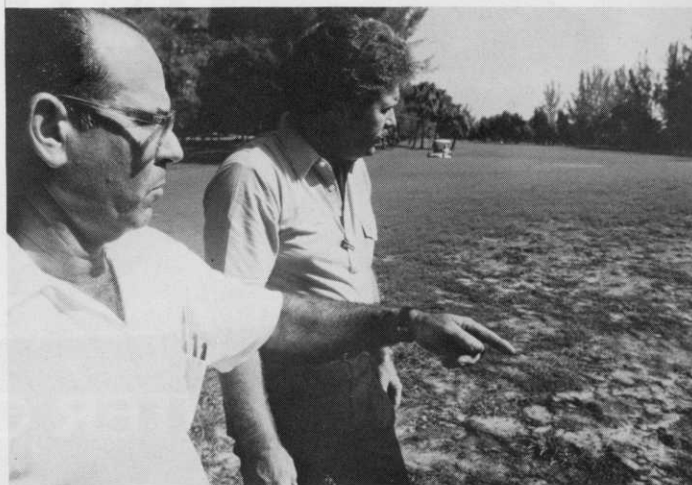
# MOLE CRICKETS: YOUR ENEMY BELOW

## 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.

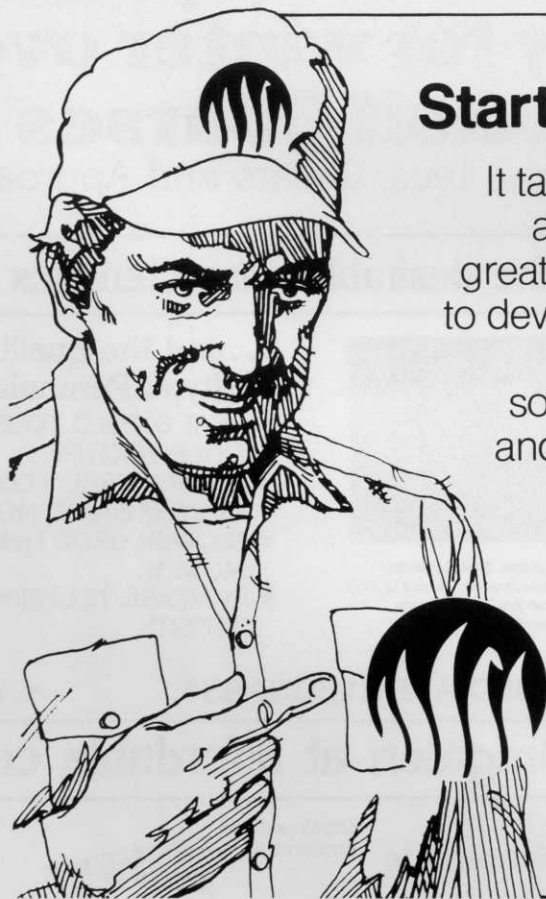
Superintendents and entomologists alike agree that this prolific, mysterious pest has become the state's major insect threat to turf. Yearly, the mole crickets' sphere of destruction reaches further southward: they are common in Jacksonville, Orlando and Gainesville and well-established on many courses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



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(Continued from Page 24)

## APPLY INSECTICIDES NOW

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."

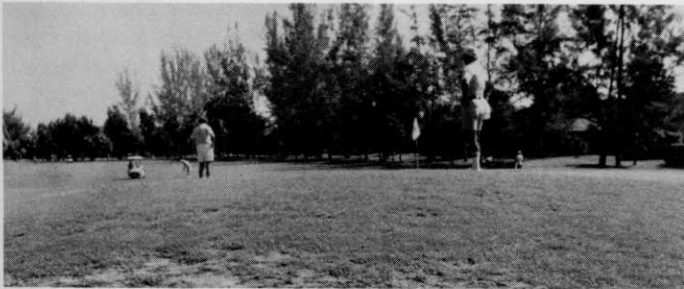
Caught on the horns of this insect dilemma are the superintendents, who are charged with keeping grounds healthy and playable while, at the same time, battling the one pest that can undo their best work. Golfers, concerned only with avoiding bogeys, expect well-kept tees, fairways and greens and invigorating 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)

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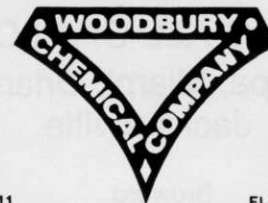
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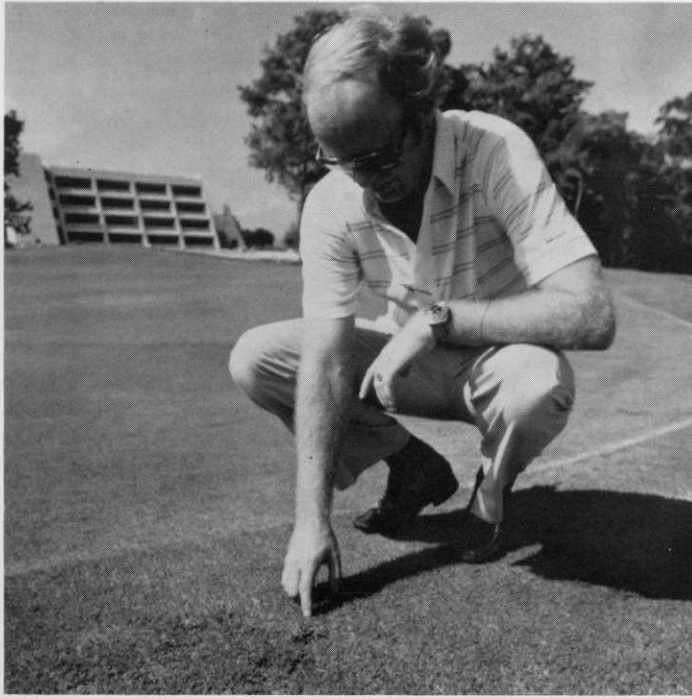
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3. **MOLE CRICKETS** prefer the shallower root systems of golf course turf, as Superintendent Brad Kocher learns while examining the edge of a green at Inverrary Golf Club, Fort Lauderdale. Besides maintaining desired levels of control, non-odorous 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." ■



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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.

(Continued on Page 27)

A decorative border of stylized green grass blades, drawn with simple, sketchy lines, frames the top and sides of the text.

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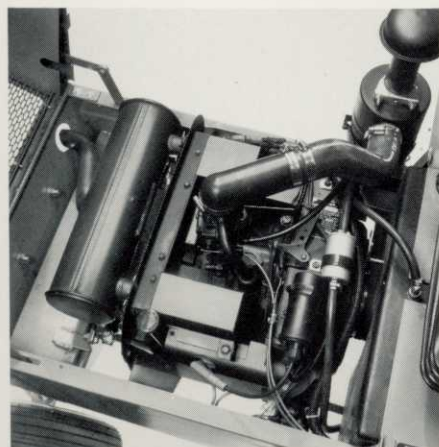
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# Team your Groundsmaster 52 or Groundsmaster 62 with any of these deck combinations.

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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 bladed, 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 10 $\frac{1}{4}$ " to the left for greater trimability. Capable of a 0" uncut circle with brake assist. Has a 51 $\frac{3}{4}$ " width of cut. Can cut from a height of 1" to 4" in  $\frac{1}{2}$ " increments and has simple adjustment without tools. 5" deep 12 gauge stamped steel Wind Tunnel<sup>®</sup> housing for easier cutting and clippings discharge 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 51 $\frac{3}{4}$ " width of cut with the three blade front mounted rotary deck. Deck offset 10 $\frac{1}{4}$ " to the left. Can cut a 0" uncut circle with brake assist. Can be adjusted easily for a height of cut, from  $\frac{3}{4}$ " to 4" in  $\frac{1}{4}$ " increments, without tools. Has 5" deep, 12 gauge stamped steel Wind Tunnel<sup>®</sup> 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 51 $\frac{3}{4}$ " deck can mow up to 2.3 acres/hour at 4.5 m.p.h. Three bladed front mounted rotary is offset 10 $\frac{1}{4}$ " to left for close trimming around obstacles and under overhangs. Adjusts from 1" to 4" in  $\frac{1}{2}$ " increments without tools. Lifts hydraulically for transport.





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**GROUNDMASTER 62  
PRIME MOVER.**

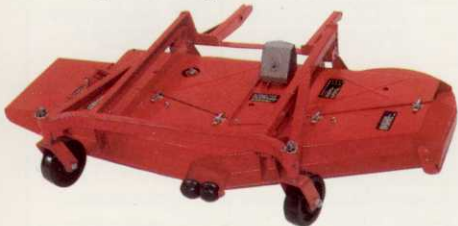
Shown with floating 62" deck. Driven by a rugged 20 HP, 47.7 cu. in., twin cylinder, air cooled Onan engine. Designed for mowing up to 3.4 acres/hour. Ideal for mowing small to medium sized open areas, and for trimming in medium to large areas. Variable ground speed up to 8.5 m.p.h. Hydrostatic drive 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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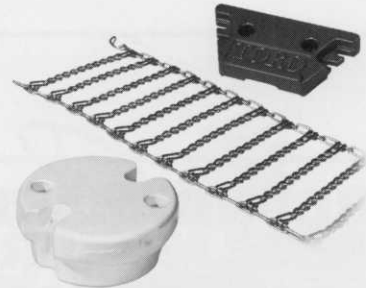
# These accessories make our Groundsmaster 52 and Groundsmaster 62 professionals for all seasons.



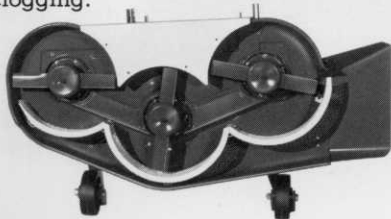
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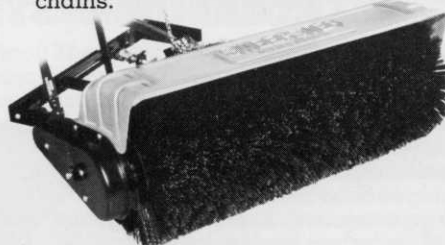
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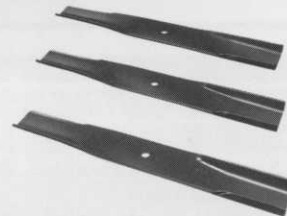
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## GROUNDMASTER® 52 PRIME MOVER (MODEL NO. 30775)

<b>ENGINE</b>	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, 1-beam alloy aluminum connecting rod, cast iron cylinder block, mechanical flyweight governor limits speed to 3200 RPM, vacuum fuel pump. Heavy duty remote mounted Donaldson Cyclopac air cleaner. Extra large muffler for reduced noise level. Optional spark arrestor muffler available from Briggs & Stratton.
<b>ELECTRICAL FEATURES</b>	12 volt, 66 plate, 57 amp-hour capacity battery. Dash-mounted ignition switch. 3.2 amp., 12 volt dual circuit alternator with 60-100 watt A.C. lighting circuit. Seat switch, PTO and traction interlock switches.
<b>WEIGHT</b>	770 lbs. prime mover with seat.
<b>CERTIFICATION</b>	Certified to meet ANSI specifications B71.1b. — 1977, and applicable Federal and State OSHA regulations based thereon.

## GROUNDMASTER® 62 PRIME MOVER (MODEL NO. 30790)

<b>ENGINE</b>	Onan twin opposed cylinder, 4 cycle, air cooled, 20 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 low oil pressure shut-off switch and high cylinder head temperature shut-off switch. Alloy aluminum connecting rods. Pearlitic iron cylinder liners cast into block. Mechanical flyball governor limits speed to 3200 RPM. Vacuum fuel pump. Heavy duty, remote mounted Donaldson Cyclopac air cleaner. Extra large muffler for reduced noise level. Optional spark arrestor muffler Part No. 46-2390.
<b>ELECTRICAL FEATURES</b>	12 volt, 42 plate, cold 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.
<b>WEIGHT</b>	810 lbs. prime mover with seat.
<b>CERTIFICATION</b>	Certified to meet ANSI specifications B71.4-1980 with 62" deck, ANSI B71.1b. — 1977 for all 52" decks, and applicable Federal and State OSHA regulations based thereon.

## SPECIFICATIONS COMMON TO GROUNDMASTER 52 AND 62

<b>FUEL CAPACITY</b>	6.0 gallons gasoline.
<b>TRACTION DRIVE</b>	Variable hydrostatic transmission mounted on Dana GT20 axle — 20.9:1 ratio. Single foot pedal control of forward/reverse ground speed. 25 micron replaceable filter. 5 qt. oil capacity.
<b>GROUND SPEED/CLEARANCE</b>	0-8.5 MPH, infinitely variable. Ground clearance 6"
<b>TIRES/WHEELS/PRESSURES</b>	Two rear steering tires 15 x 6.00 — 6, tubeless 4 ply rating. Two front traction drive tires 20 x 8.00 — 10, tubeless 4 ply rating. Demountable rims. Recommended tire pressure 10-15 P.S.I. depending on mowing conditions.
<b>MAIN FRAME</b>	All welded formed steel reinforced with square tubing.
<b>BRAKES</b>	Individual 7" x 1 1/4" drum type wheel brakes and parking brakes on front traction wheels. Dynamic braking through traction drive.
<b>STEERING</b>	Automotive steering gear assembly. 15" steering wheel.
<b>CONTROLS</b>	Hand operated throttle, choke, PTO, and hydraulic implement lift.
<b>GAUGES</b>	Hour meter and ammeter.
<b>SEAT</b>	Optional: Molded foam seat with leaf-spring suspension, Model No. 30765. Deluxe suspension seat, Model No. 30766. Both adjustable 4 1/2" fore and aft.
<b>IMPLEMENT DRIVE</b>	1" diameter splined PTO shaft clutched by two "HA" torque team section tight-slack V-belt.

### 52" STANDARD CUTTING UNIT (MODEL NO. 30545)

<b>TYPE</b>	51 1/4" width-of-cut, three blade, front mounted rotary.
<b>MOWING RATE</b>	Mows up to 2.8 acres/hour at 5.5 MPH depending on conditions.
<b>TRIMMING ABILITY</b>	Deck offset 10 1/4" to the left from center line; deck offset 10 1/4" to the left from outside of tire to trim side; 26" uncut circle left; 0" uncut circle with use of individual wheel brakes.
<b>HEIGHT OF CUT</b>	3/4"-4", adjustable in 1/4" increments in front and 1" increments in rear.
<b>CONSTRUCTION</b>	12 gauge stamped steel, 5" deep, Wind-Tunnel® housing.
<b>CUTTER DRIVE</b>	PTO driven spiral bevel gear box. "AA" section belt drive to all spindles. 3/4" regreasable spindles with two ball bearings.
<b>BLADES</b>	Three 18" long, 3/16" thick, heat treated steel blades.
<b>SUSPENSION</b>	Two 8" front wheels. Suspended off the prime mover at rear.
<b>LIFT</b>	Two hydraulic cylinders.
<b>WEIGHT</b>	190 lbs.
<b>CERTIFICATION</b>	Certified to meet ANSI B71.1b — 1977, and applicable Federal and State OSHA regulations based thereon.

### 52" FLOATING CUTTING UNIT (MODEL NO. 30555)

<b>TYPE</b>	51 1/4" width-of-cut, three blade, front mounted rotary.
<b>MOWING RATE</b>	Mows up to 2.8 acres/hour at 5.5 MPH depending on conditions.
<b>TRIMMING ABILITY</b>	Deck offset 10 1/4" to the left from center line; deck offset 10 1/4" to the left from outside of tire to trim side; 26" uncut circle left; 0" uncut circle with use of individual wheel brakes.
<b>HEIGHT OF CUT</b>	1"-4" adjustable in 1/2" increments by relocating four pins at each corner of cutting unit.
<b>CONSTRUCTION</b>	12 gauge stamped steel, 5" deep Wind-Tunnel® housing.
<b>CUTTER DRIVE</b>	PTO driven spiral bevel gear box. "AA" section belt drive to all spindles. 1" regreasable spindles with two tapered roller bearings.
<b>BLADES</b>	Three 18" long, 3/16" thick, 2.5" wide, heat treated steel blades.
<b>CARRIER FRAME SUSPENSION</b>	Two 8" phenolic resin front wheels with regreasable roller bearings. Suspended off the prime mover at rear. Front and rear deck rollers. Deck counterbalanced by spring between cutting unit and prime mover.
<b>LIFT</b>	Two hydraulic cylinders.
<b>WEIGHT</b>	220 lbs.
<b>CERTIFICATION</b>	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)

<b>TYPE</b>	51 1/4" width-of-cut, three blade, front mounted rotary.
<b>MOWING RATE</b>	Mows up to 2.3 acres/hour at 4.5 MPH depending on conditions.
<b>TRIMMING ABILITY</b>	Deck offset 10 1/4" to the left from center line; deck offset 10 1/4" to the left from outside of tire to trim side; trims on both sides; 26" uncut circle left. 0" uncut circle to left with use of individual wheel brakes.
<b>HEIGHT OF CUT</b>	1"-4" adjustable in 1/2" increments by relocating four pins, one at each corner of the cutting unit.
<b>CONSTRUCTION</b>	12 gauge welded construction, 3" deep.
<b>CUTTER DRIVE</b>	PTO driven spiral bevel gear box. "AA" section belt drive to all spindles. 1" regreasable spindles with two tapered roller bearings.
<b>BLADES</b>	Three 18" long, 3/16" thick, 2.5" wide, heat-treated steel blades.
<b>CARRIER FRAME SUSPENSION</b>	Two 8" phenolic resin front wheels with regreasable roller bearings. Suspended off prime mover at rear. Front deck rollers. Deck counter-balanced by spring between cutting unit and prime mover.
<b>LIFT</b>	Two hydraulic cylinders.
<b>WEIGHT</b>	230 lbs.
<b>CERTIFICATION</b>	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)

<b>TYPE</b>	61 1/4" width-of-cut, three blade, front mounted rotary.
<b>MOWING RATE</b>	Mows up to 3.4 acres/hour at 5.5 MPH depending on conditions.
<b>TRIMMING ABILITY</b>	Deck offset 10 1/4" to the left from center line; deck offset 16" from outside of tire to trim side; 18" uncut circle left; 0" uncut circle with use of individual wheel brakes.
<b>HEIGHT OF CUT</b>	1"-4" adjustable front and rear in 1/2" increments by relocating four pins at each corner of cutting unit.
<b>CONSTRUCTION</b>	12 gauge steel, 5" deep Wind-Tunnel® housing, welded construction.
<b>CUTTER DRIVE</b>	PTO driven spiral bevel gear box. "AA" section belt drive to all spindles. 1" regreasable spindles with two tapered roller bearings.
<b>BLADES</b>	Three 21.5" long, 2.5" wide, 3/16" thick, heat-treated steel blades.
<b>CARRIER FRAME SUSPENSION</b>	Two 8" phenolic resin front wheels with regreasable roller bearings. Suspended off prime mover at rear. Front and rear deck rollers. Deck counterbalanced by spring between cutting unit and prime mover. Deck includes one 35 lb. rear weight.
<b>LIFT</b>	Two hydraulic cylinders.
<b>WEIGHT</b>	335 lbs.
<b>CERTIFICATION</b>	Certified to meet ANSI B71.4 — 1980, and applicable Federal and State OSHA regulations based thereon.



**IMPLEMENT AND ACCESSORY COMBINATIONS**

	30545 CUTTER	30555 CUTTER	30560 CUTTER	30562 CUTTER	30570 SNOWTHROWER	30750 V-PLOW	ROTARY BROOM	CAB W/ROPS	ROPS	30765 STANDARD SEAT	30766 DELUXE SEAT	SPARK ARRESTOR MUFFLER
<b>PRIME MOVER MODEL NO. 30775</b>	Opt.	Opt.	Opt.	—	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
<b>PRIME MOVER MODEL NO. 30790</b>	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
<b>GRASS COLLECTING SYSTEM MODEL NO. 30557</b>	—	Opt.	—	—	—	—	—	—	—	—	—	—
<b>LEAF MULCHER MODEL NO. 30700</b>	Opt.	Opt.	—	—	—	—	—	—	—	—	—	—
<b>LEAF MULCHER MODEL NO. 30792</b>	—	—	—	Opt.	—	—	—	—	—	—	—	—
<b>V-PLOW MOUNTING KIT MODEL NO. 30755</b>	—	—	—	—	—	Req.	—	—	—	—	—	—
<b>SNOWTHROWER ADAPTER KIT MODEL NO. 30572</b>	—	—	—	—	Req.	—	—	—	—	—	—	—
<b>TIRE CHAINS PART NO. 28-5470</b>	—	—	—	—	Opt.	Incl.	Opt.	—	—	—	—	—
<b>WHEEL WEIGHTS PART NO. 28-1270</b>	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	—	—	—	—	—
<b>REAR WEIGHT KIT PART NO. 24-5780</b>	Opt.	Opt.	Opt.	Opt.	Req.	Opt.	Opt.	—	—	—	—	—
<b>HIGH LIFT BLADE PART NO. 44-5480</b>	—	Opt.	—	—	—	—	—	—	—	—	—	—

**LEAF MULCHER**

Optional attachment of 12 gauge steel with 1/2" diameter staggered holes. Mounts under side discharge deck. Model No. 30700 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 16" diameter; three piece welded construction. The blower assembly attaches to the discharge port of Model #30555 cutting unit. Impeller speed is 1650 RPM max. @ 3200 RPM engine speed.

**Chute** is one piece, made of black, high density polypropylene material used to direct debris into bag.

**Hinged hood**, Mounted to bag support assembly, is made of black high density polypropylene. Air exhausted through riveted metal screen in hood.

**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.

**Bumper** of steel tubing is bolted to deck suspension frame to protect blower housing. Includes deck baffling and mounting bracket.

<b>CAPACITY</b>	Polyester bag 20" dia. x 46" high — approximately 7 bushels. Optional dry condition polyester bag 24" dia. x 46" high — approximately 10 bushels. Part No. 43-0980.
<b>OPTIONAL ACCESSORIES</b>	18" high lift blades for improved wet grass bagging. Part No. 44-5480. Elastic retaining cord allows use of 30+ gallon plastic trash bags, Part No. 36-7770.
<b>DIMENSIONS</b>	57" high, 120" long, 68" wide, installed.
<b>WEIGHT</b>	123 lbs. — grass collecting system only.
<b>CERTIFICATION</b>	Certified to meet ANSI B71.1b. — 1977 and applicable Federal and State OSHA Regulations based thereon.

**V PLOW (MODEL NO. 30750)**

<b>CONSTRUCTION</b>	48" heavy gauge steel construction with front skid and reversible/replaceable scraper blades.
<b>WEIGHT</b>	210 lbs.

**V PLOW MOUNTING KIT (MODEL NO. 30755)**

<b>CONSTRUCTION</b>	Consists of push arm attaching brackets. Required for mounting V Plow.
<b>WEIGHT</b>	50 lbs.
<b>ACCESSORIES</b>	Tire chains included (Part No. 28-5470).

**SNOWTHROWER (MODEL NO. 30570; 30572 ADAPTER KIT)**

<b>TYPE</b>	48" two stage with adjustable side skids and discharge chute.
<b>WEIGHT</b>	340 lbs.
<b>ACCESSORIES</b>	Two optional rear weight kits required (Part No. 24-5780).

**ROTARY BROOM**

<b>TYPE</b>	48" wide. Consult with your Toro distributor for manufacturer's specifications.
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**CAB WITH ROPS**

<b>CONSTRUCTION</b>	4 post ROPS all steel tubular frame construction with contrasting steel canopy. Includes seat belt, seat retention kit and perforated foam headliner. <b>OPTIONAL</b> Vinyl enclosure kit consists of reinforced heavy duty vinyl fabric with left side heavy gauge wire frame door. Enclosure kit includes tinted safety glass windshield, velcro fastening kit, latching door handle, and floor mat.
<b>CERTIFICATION</b>	Certified to meet OSHA standard 1928.51(b)(1).
<b>ELECTRICAL FEATURES</b>	<b>OPTIONAL</b> Light kit includes front headlight rear work light, and roof-mounted flashing amber beacon. <b>OPTIONAL</b> Single speed windshield wiper and defroster fan for cab installation.
<b>WEIGHT</b>	4-Post ROPS with canopy-110 lbs.; enclosure kit — 60 lbs.

**OVERALL DIMENSIONS AND WEIGHTS (APPROX.)**

	LENGTH	WIDTH	HEIGHT	WEIGHT
<b>TRACTION UNIT #30775</b>	74"	42"	48"	770 lbs.
<b>W/30545 CUTTING UNIT</b>	95"	65"	48"	960 lbs.
<b>W/30555 CUTTING UNIT</b>	97.5"	65"	48"	990 lbs.
<b>W/30560 CUTTING UNIT</b>	97.5"	53.5"	48"	1,000 lbs.
<b>W/GRASS COLLECTING SYSTEM</b>	97.5"	68"	57"	
<b>W/SNOWTHROWER</b>	102"	51"	48"	
<b>W/V-PLOW</b>	99"	48"	48"	
<b>W/BROOM</b>	119.5"	53"	48"	
<b>W/ROPS</b>	N/A	42"	74.5"	
<b>W/CAB</b>	N/A	42"	74.5"	
<b>TRACTION UNIT #30790</b>	78"	42"	48"	810 lbs.
<b>W/30562 CUTTING UNIT</b>	106"	74"	48"	1,145 lbs.
<b>W/30545 CUTTING UNIT</b>	99"	65"	48"	1,000 lbs.
<b>W/30555 CUTTING UNIT</b>	101.5"	65"	48"	1,030 lbs.
<b>W/30560 CUTTING UNIT</b>	101.5"	53.5"	48"	1,040 lbs.
<b>W/GRASS COLLECTING SYSTEM</b>	101.5"	68"	57"	
<b>W/SNOWTHROWER</b>	106"	51"	48"	
<b>W/V-PLOW</b>	103"	48"	48"	
<b>W/BROOM</b>	123.5"	53"	48"	
<b>W/ROPS</b>	N/A	42"	74.5"	
<b>W/CAB</b>	N/A	42"	74.5"	

**ACCESSORIES**

DESCRIPTION	MODEL/ PART NO.	DESCRIPTION	MODEL/ PART NO.
<b>TIRE CHAINS — 20 LBS.</b>	28-5470	<b>STANDARD SEAT</b>	30765
<b>WHEEL WEIGHTS — 100 LBS.</b>	28-1270	<b>DELUXE SUSPENSION SEAT</b>	30766
<b>REAR WEIGHT KIT — 70 LBS.</b>	24-5780	<b>SPARK ARRESTOR MUFFLER — MODEL NO. 30775</b>	See Briggs & Stratton 46-2390
<b>HIGH LIFT BLADE (ONE BLADE)</b>	44-5480	<b>MODEL NO. 30790</b>	

\*Specifications and design subject to change without notice.

**COMMERCIAL PRODUCTS**



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(Continued from Page 26)

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 any of 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 (cont)

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. ■



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# GCSAA

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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.

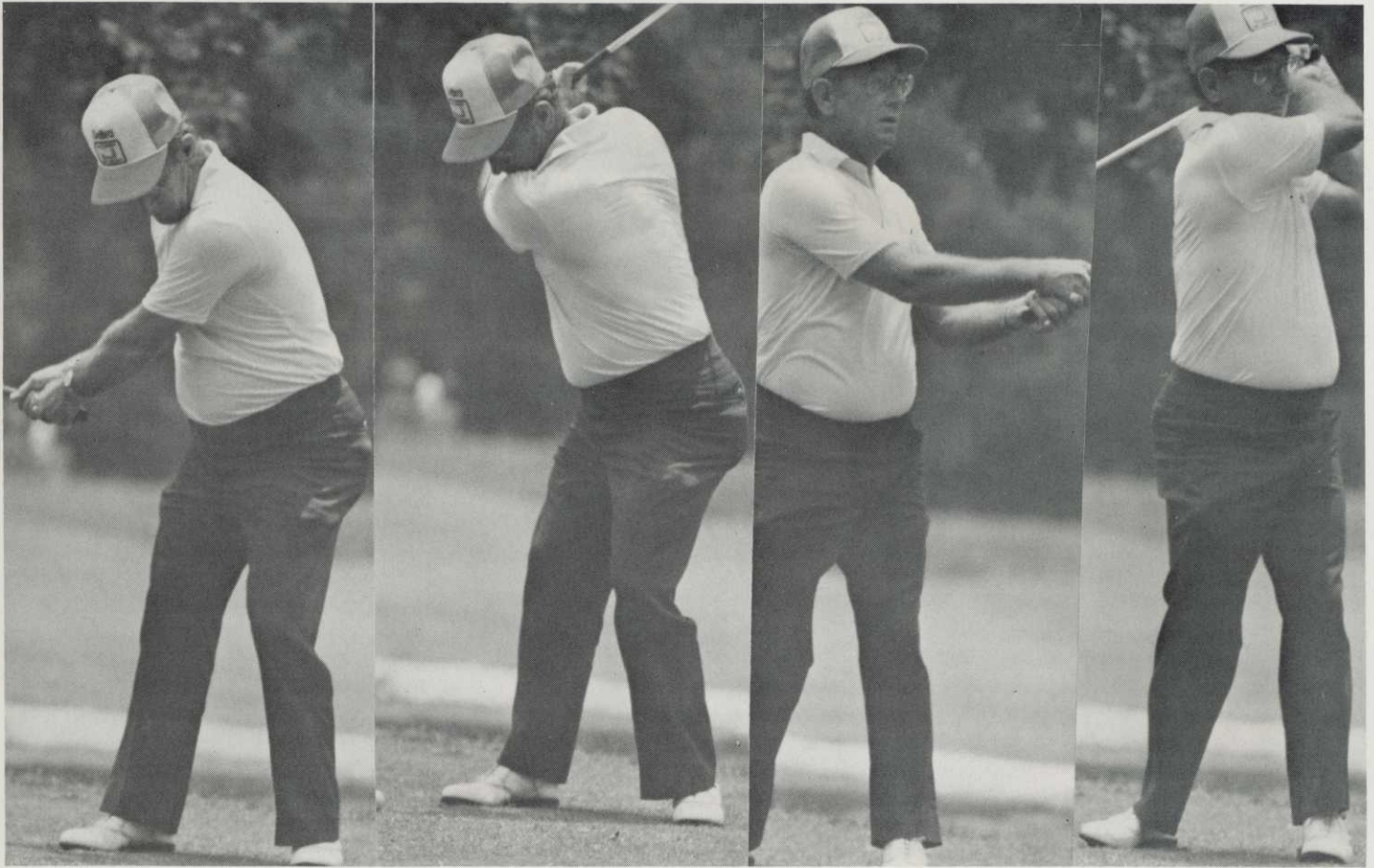
Sincerely,

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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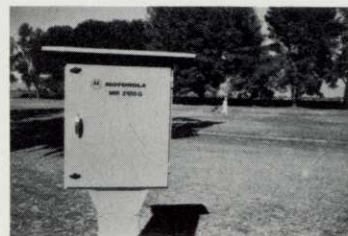
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