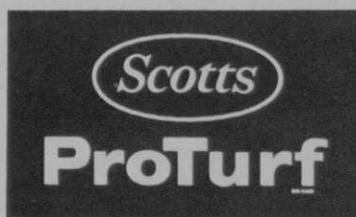


***A friend in need!*** Few other professional people must live through the frustrations of the man responsible for golf course turf. Not only must he deal with the daily problem of nature, he must also battle inherited problems affecting maintenance, along with increasing pressure from players for conditions contrary to good maintenance.

Is it any wonder many golf course superintendents welcome the helping hand of Scotts Turf Consultants? These men are familiar with regional problems from their daily contacts and gladly pass on research information and ideas others have found successful.

Would you care to have one of these men exchange ideas with you? If so, just drop us a line—there is no charge or obligation, of course.



**Scotts  
Golf Course  
Division**

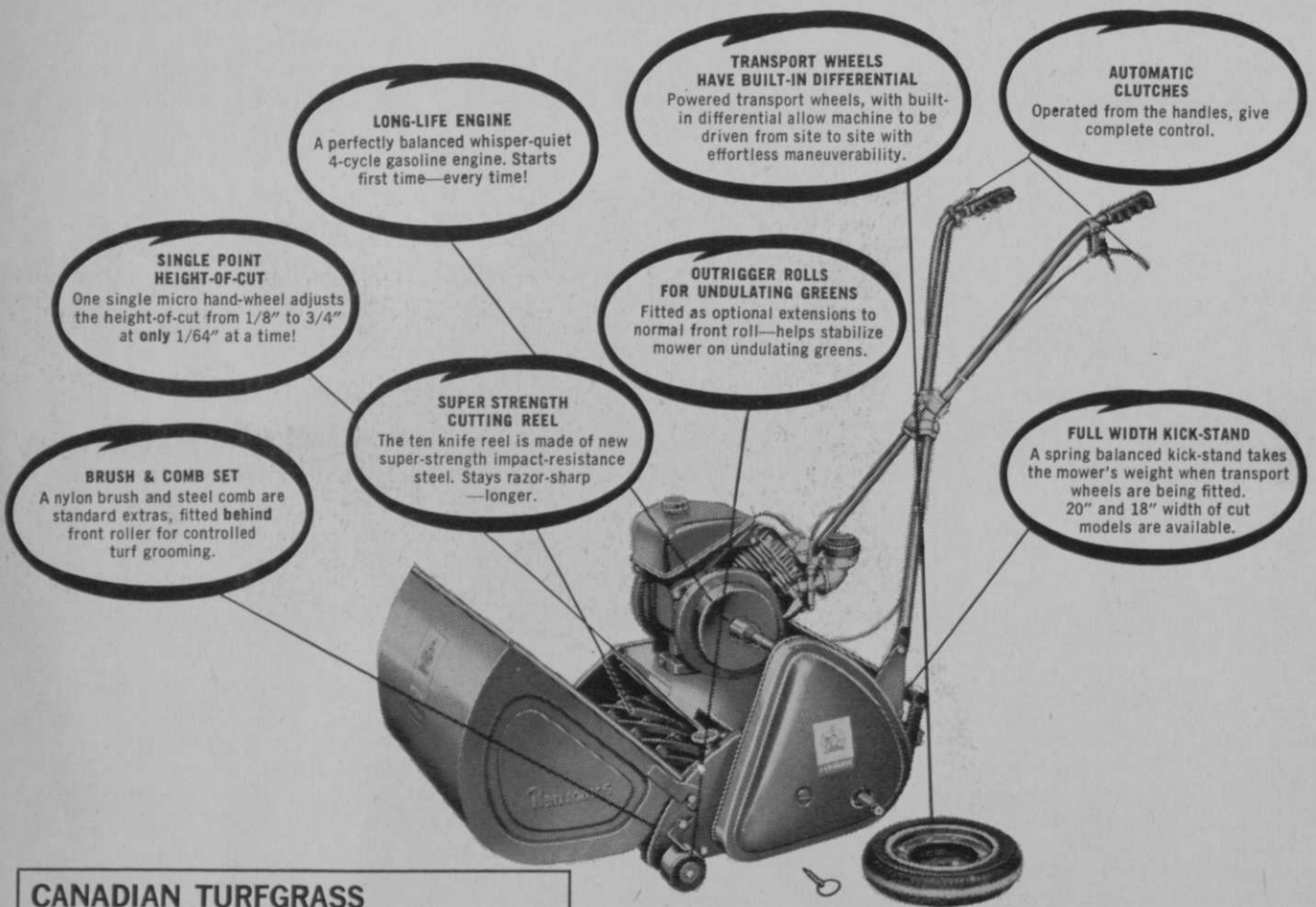
**O M SCOTT & SONS** *the grass people* **MARYSVILLE, OHIO**

# **NEW**

# Large capacity greens mower

## \* Two widths of cut to suit your requirements

Tailor-made for North American conditions the new Auto-Certes will give a perfect cut to golf greens. Cuts at variable speeds to suit you and your greens—saves time • Light and maneuverable—saves operator fatigue. Replaceable engine parts—saves maintenance costs.



### LONG-LIFE ENGINE

A perfectly balanced whisper-quiet 4-cycle gasoline engine. Starts first time—every time!

### SINGLE POINT HEIGHT-OF-CUT

One single micro hand-wheel adjusts the height-of-cut from 1/8" to 3/4" at only 1/64" at a time!

### BRUSH & COMB SET

A nylon brush and steel comb are standard extras, fitted behind front roller for controlled turf grooming.

### SUPER STRENGTH CUTTING REEL

The ten knife reel is made of new super-strength impact-resistance steel. Stays razor-sharp—longer.

### TRANSPORT WHEELS HAVE BUILT-IN DIFFERENTIAL

Powered transport wheels, with built-in differential allow machine to be driven from site to site with effortless maneuverability.

### AUTOMATIC CLUTCHES

Operated from the handles, give complete control.

### OUTRIGGER ROLLS FOR UNDULATING GREENS

Fitted as optional extensions to normal front roll—helps stabilize mower on undulating greens.

### FULL WIDTH KICK-STAND

A spring balanced kick-stand takes the mower's weight when transport wheels are being fitted. 20" and 18" width of cut models are available.

## CANADIAN TURFGRASS CONFERENCE — MONTREAL

See a selection of Ransomes famous grass-cutting equipment on the combined stands of DUKE LAWN EQUIPMENT LTD., and MORIN EQUIPMENT INC.



# RANSOMES

*for a cut above the average*

TOPS IN EVERYTHING—EXCEPT PRICE

Demonstrations of this mower can be arranged by:

HEAD OFFICE

Warrens Turf Nursery

8400 West 111th Street, Palos Park, Illinois, U.S.A.

HEAD OFFICE

Duke Lawn Equipment

1184 Plains Road East, Burlington, Ontario

HEAD OFFICE

Morin Equipment Inc.

2075 Branly (Centre Industriel STE-FOY), Quebec 10

For more information circle number 263 on card

# A unique and courageous program for greens management



Last August Marvin Ferguson, then United States Golf Assn. consulting agronomist for the Southwest, made his final visit to Boulder (Colo.) CC in that capacity.

His later report concluded: "... the greens are very interesting. They appear to be hungry, but they are easily the best putting surfaces I saw in Colorado. Leaf blades are finer textured and there appears to be no mat nor grain."

Dr. Ferguson's opinion confirmed a belief that Boulder CC superintendent Stanley Metsker has held for some time and has been implementing in his maintenance program at Boulder. This, despite the fact that the maintenance program needed to achieve

**By Jerry Claussen**

the excellent putting surfaces described by Dr. Ferguson, had to be both different and courageous.

Briefly, Metsker believes that trouble comes from overfeeding. Therefore, less fertilizer and less frequent watering encourage deeper roots and discourage coarse leaf blades (grain).

Boulder CC was founded in 1918 and is now at its fourth site. The present regulation 18 holes and par-three nine were opened in 1964 and are part of a residential development. The course was designed by J. Press Maxwell. Stan

Metsker helped in the building and stayed on as superintendent.

The cover of the greens has been Penncross bentgrass since the course's beginning. Green profiles consist of an 8-inch layer of gravel, topped by an 8-inch soil layer and then a 12-inch seedbed layer. The top mix included 60 per cent coarse sand, 20 per cent native clay loam and 20 per cent peat moss.

From the outset Metsker was conservative on his greens feeding program. In 1964 Dr. Ferguson recommended minimum nitrogen applications to discourage "fluffiness" with Penncross.

Metsker has put the theory into

*Continued on page 92*



**Great weather for ducks.**

**But what if  
your weed control  
lays an egg?**

**Better apply Balan™ granular.  
It's dependably waterproof.  
Clings to soil particles despite rainfalls  
and irrigation. Stops Poa annua  
and most other annual weed grasses.**



As a professional whose place of business is in the open, you expect variable conditions. Near-drought weather. Cloud-bursts. Prolonged rainy spells. And you put up with them. On top of this you're probably irrigating heavily. But why put up with herbicides that can't take these variables in stride? That leach out of the weed-control area and lose effectiveness.

**FORMS PROTECTIVE ZONE.** Apply pre-emergence Balan with full confidence. It won't be leached away. Balan has a unique ability to cling to soil particles, forming its protective zone where weed grasses germinate. That's as far as they get.

**STAYS PUT.** Maybe you've tried some herbicides and found they failed. Excessive moisture from heavy rainfalls or repeated irrigations washed them clear out

of the picture. Not with Balan. It's barely soluble in water. Ignores the weather, ignores irrigations, and stays put... keeps working month after month.

**NO RESIDUE.** When its job is done, Balan breaks down gradually and naturally in the soil. No fear of residue to cause problems later.

On northern (cool season) turfs, one application handles your weed control. On southern (warm season) turfs, two applications at a heavier rate may be required because of the longer growing season.

Dependable, economical Balan Granular. The waterproof way to stop crabgrass, Poa annua (annual bluegrass), goosegrass (silver crabgrass or crowfoot)—and all your worst weed grass problems. See your distributor now.



(Balan™—benefin, Elanco)



One of Elanco's dependable weed-control crew.



# **GCSAA annual father and son luncheon**

A cherished tradition of the Golf Course Superintendents Assn. annual meeting is the Father and Son luncheon sponsored by GOLFDOM. Begun in the early days of GCSAA meetings by Herb and Joe Graffis, seen presiding over the affair with publisher Bob Abramson (to Joe's right) and Ben Chlevin.





Bolens GK with 10 ft. Roseman Reel Mower

# Improve Groundskeeping

with  
**BOLENS**

# GK

Unique. Powerful. Versatile. Bolens GK can solve your groundskeeping problems with the greatest maneuverability ever in a high-performance utility tractor. The GK's versatility saves money on operating costs and equipment outlay by replacing as many as three units formerly needed to do the variety of jobs necessary for top-notch groundskeeping.

The secret to the GK's superior brand of performance is a Bolens principle called Center Pivot Steering. With the GK's maneuverability and outstanding flotation, you

can mow in a tight 24" radius under almost any surface condition.

Designed and built primarily for large groundskeeping chores, the Bolens GK fills the gap between conventional tractors in the 14 to 30 hp range. Center Pivot Steering and the powerful 18 hp engine let the GK outwork many larger size tractors.

The GK. It's the tractor designed for year-round grounds care for commercial, industrial and institutional use. It's difference designed, with performance in mind.

## *Hitch up these year-round work savers*

Rotary mower with 6 ft. cutting width



Reel mower cuts 10 ft. wide swath



54" snow/grader blade

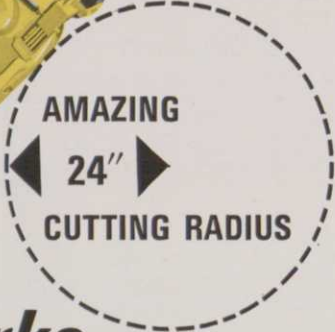


Two-stage snow caster, with 18" auger, clears 48" path





***Here's how  
center pivot  
steering works***



As the operator turns the steering wheel, the entire front and rear sections of the GK move together as a hinge, with the wheels forming an arc. Rear wheels track front wheels, exactly, so the operator working from the front module never needs to look back over his shoulder to see if he's missed something.

The GK also has hydraulically controlled power steering and two speed ranges for a total of six forward and two reverse speeds. Top forward speed is 10 mph.



**VEHICLE CAB**  
Fiber-glass cab has all around visibility, removable doors, sliding glass windows.



**BOLENS**

BOLENS DIVISION, FMC CORPORATION, PORT WASHINGTON, WISCONSIN

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Port Washington, Wisconsin 53074

Gentlemen:  
Please send a Bolens GK and your representative to the address below. I'd like to see how a GK can cut my costs with a FREE WORK TEST on my grounds. Give me a call before coming, for the right time.

Name \_\_\_\_\_  
Company \_\_\_\_\_ Title \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_  
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COMPACT TRACTORS • RIDING AND WALKING POWER MOWERS • TILLERS  
SNOW CASTERS

***FREE WORK TEST***

See for yourself! Put one of your men on the GK. Your Bolens dealer will be happy to arrange a free work test. You will never want to go back to your conventional tractor again.



## Wife in the pro shop? You bet!

Continued from page 45

most of the 20 odd years he's operated a pro shop. His opinion of the wife in the shop? "A great asset. My wife is a tough customer, or to be more accurate I should say tough with my customers, in a good way. For instance, we sell tees at a quoted price of a penny each but neither I nor the other salespeople ever count them when we give a handful to a customer for our usual price of a dime. We just reach into the tee container, pull out a handful, take the dime and hand the customer the tees.

"One customer gave his dime to my wife and when she gave him a somewhat smaller handful of tees than what he was used to, he complained. She counted the tees, found that she'd given him 12 instead of 10, and took back the two she felt were being given above the posted price."

Seriously, Mr. Thomas recognizes that a large part of the success of his business is due to the help he's received from Mrs. Thomas over the years. "In the early days it was awfully difficult for her to spend too much time in the shop with the youngsters and all. However, it's probably then that the young pro needs help from his wife and she probably finds it most difficult to get away from her household chores and help out. Somehow my wife managed."

A kind of reverse twist was achieved by Irene Koennecker of Canyon Hills CC in Palm Springs, Calif., who started as a helpmate with her husband in his early days as a pro and wound up running the four shops they now operate while he takes care of lessons and other areas of golf activities at the club.

Continued on page 112

## Beauty Reflects Their Performance



HILLERICH & BRADSBY CO.

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Sold exclusively in pro shops

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## HUNDREDS OF (PRE-OWNED) CUSHMAN GOLFSTERS

Electric Models Only



Over 500 Sold — Only 200 Remain

THREE & FOUR  
WHEEL MODELS  
1965 - 1966 - 1967  
PRICED LOW  
\$275.00 - \$800.00

Internally Reconditioned  
9.50 x 8 Tires  
Steering Wheels  
Automatic Chargers  
New Batteries  
Warranty

## CHICAGOLAND E-Z-GO SALES

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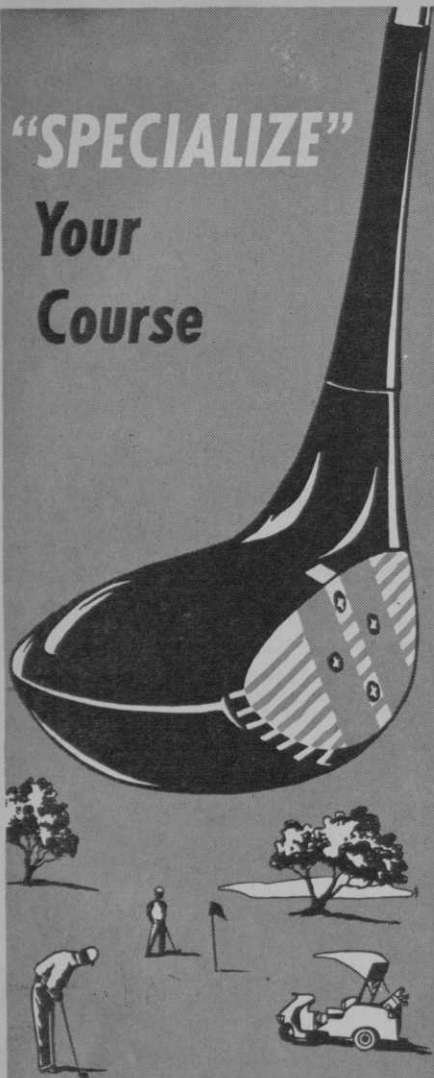
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# "SPECIALIZE"

## Your Course



As distributors of perhaps the finest lines of turf maintenance equipment for the past fifteen years B. Hayman has a veritable wealth of experience. Our compounded knowledge in this field seems to catalogue us as specialists in most phases of golf course and municipal turf planning, and irrigation design. So let us "specialize" your project, assist in planning, and otherwise lend you our knowledge. It could very well be most economical in the long, or short run. Let's talk.

Since 1876  
**B. HAYMAN CO. INC.**  
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 HONOLULU, HAWAII 96813

For more information circle number 253 on card

### Carpet

Continued from page 63

a non-spike-proof carpet. It's merely personal preference.

#### UNDERPADDING

Every carpet expert agreed that there must be underpadding. The underpads provide a cushion, but more important, prolong the life of the carpet. Underpads, however, should not be confused with a carpet that has its own backing.

There are various types of underpads, and two recommended ones were an all hair (animal hair)

type and a combination of animal hair and jute with a rubber coating. The latter, to give an idea of weight and depth, has a 56-ounce per square yard weight and a three-eighths-inch thickness.

#### COST

There is no average cost that can realistically be projected because, again, there are too many factors coming in to play. One expert, however, ventured to say that he felt the minimum payment a manager should invest, no matter what the size of the area to be covered, should be no less than \$14 a square yard, which would include padding and installation.

Last but not least, make sure you have a reputable dealer and a reputable mill. Go to someone in your local area whom you know well and is in that business. Check to see if the company has been in business a long time, and buy a brand name.

#### MAINTENANCE

Naturally, you can expect longer wear from your carpet if you practice proper maintenance. Surprisingly, little care is needed (for spike-proof types). A steady program of vacuuming—once a day, once every two days, depending on each club's traffic—is sufficient. If sand is allowed to remain imbedded, it cuts the fibers and the carpet's longevity is greatly reduced. Shampooing once a year (again, frequency depends on usage) is also suggested as a rule of thumb.

As previously stated, these considerations are only meant to be guidelines. The main purpose is to help you choose the right carpet so that you get mileage from your investment. □

### Put LIQUID LUSTRE® Golf Ball Wash in Your Ball Washers



COSTS AS  
 LITTLE AS 2¢  
 PER WASHER  
 PER WEEK

- Keeps golf balls sparkling white
- Pays off in player satisfaction
- Helps stop rust in washers
- No unpleasant odor—ever!

### Reduce costs with other DBA maintenance aids . . .

#### DBA GENERAL PURPOSE MACHINE CLEANER

Speed shop maintenance work by quick, easy removal of oil, dirt and grease from metal parts. Easy to use—available in 1 or 5 gal.



#### DBA SEALSTONE®

A real work saver—dries to hard semi-gloss finish to give long-lasting beauty to stone, slate and similar type flooring. Easy to apply—available in 1 or 5 gal.

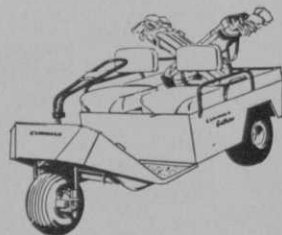
Order from your Dealer or write direct

**DBA PRODUCTS CO., INC.**  
 22 Skokie Hwy. Lake Bluff, Ill. 60044

For more information circle number 168 on card



**FAIRWAY TESTED**  
 Gas and Electric  
**\$175.00 - \$595.00**  
 and many more to choose from  
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**USED GOLF CARS**



We specialize in reconditioned Cushmans. All reconditioned cars fully warranted.

We also have a large selection of used Walkers, gas and electric.

**ROBISON'S**  
 Lawn and Golf Inc.

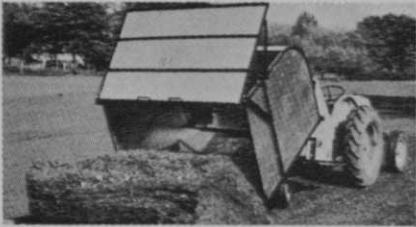
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 MISSOURI 64111

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# GROUNDS MAINTENANCE and TURF EQUIPMENT

## TURF SWEEPER - 720



IN DUMPED POSITION  
5 CUBIC YARD HOPPER  
3 POINT HITCH - 5 FOOT WIDTH

## AERATOR

#590

7' Swath  
3-Point or  
Universal Hitch



## SWEEPER - 154

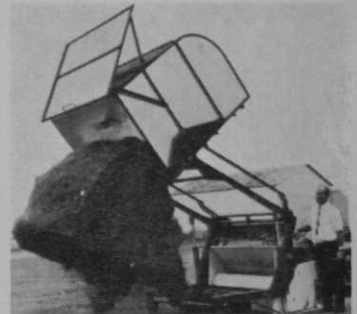


SELF PROPELLED  
1 CUBIC YARD CAPACITY

## SELF POWERED TURF SWEEPER 720E HL

HYDRAULIC LOADER  
Lifts To 8 1/2'

Dump Controlled For Truck Loading  
Thatcher and Aerator Attachments are  
available for all Rogers Sweepers.



## AERO-BLADE - 509



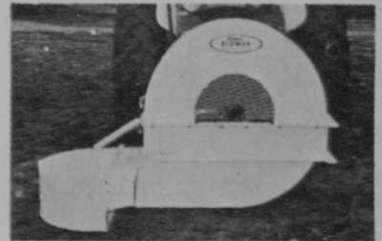
DEEP SHATTER AERIFICATION  
VERTICAL CUTS - SPIKES

## POWER AERATOR - 580



PTO DRIVE  
7' AERATING WIDTH

## BLOWER - 40



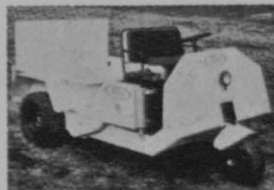
250 MPH BLAST - OPERATOR CONTROLS  
BLOWER DIRECTION - 3 POINT HITCH

## AERO-BLADE-548-WITH SEEDER



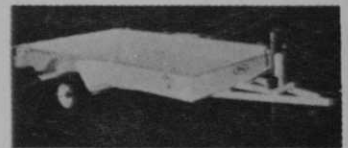
PTO DRIVE - 4' CUTTING WIDTH  
REMOVE THATCH, AERATE, RENOVATE,  
TILL, PLANT, OR SPIKE.

## TRUCK - 12



1000 LB. CAP. - 12 HP  
DIFFERENTIAL - TRANSMISSION  
SPEEDS: 0 TO 15 MPH

## TRAILER - 70 1000 TO 2500 LB. CAP.



EASY LOAD - EASY UNLOAD  
LIGHTS, JACK, TILT BED  
STANDARD EQUIPMENT.

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## NOW Warren brings you Warren's A-20™ Bluegrass

The ideal grass for tees, approaches and collars. Takes short cut. Grows upright, gives better support to ball. Resistant to leaf spot, mildew, rust and stripe smut. Develops less thatch. Greens up earlier, stays green later.

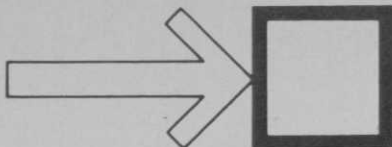
Golf courses from coast to coast for years have planted Warren's Creeping Bent stolons for the finest greens in America. Clean, pure strain Warren's stolons provide perfect, even texture and color. Greens planted with seed do not hold their uniformity of color and texture as well as greens planted with stolons.

And Warren research has now made available the new grass, A-20, with the same high quality, for tees and aprons of greens. A-20 has been tested and rated by leading universities.

Write for specific information about A-20 Bluegrass and Warren's stolons.



For more information circle number 232 on card



### COMING EVENTS

**Rocky Mt. Management Seminar,** Pinehurst CC, Littleton, Colorado, March 10.

**34th Annual Iowa Turfgrass Conference,** Hotel Roosevelt, Cedar Rapids, Iowa, March 10-12.

**Canadian Turf Conference,** Queen Elizabeth Hotel, Montreal, Quebec, March 10-12.

**Michigan Turfgrass Conference,** Kellogg Center, Michigan State University, East Lansing, Michigan, March 12-13.

**Northern California Turfgrass Exposition,** Santa Clara County Fairgrounds, San Jose, California, March 14-20.

**University of Maine Mid Winter Turf Conference,** Steer Inn Motor Lodge, S. Portland, Maine, March 19-20.

**Australian Trade Show,** Civic Auditorium, San Francisco, California, March 24-29.

**Georgia Golf Course Superintendents Assn. Meeting,** Callaway Gardens, Pine Mountain, Georgia, May 13.

**National Hardware Show,** Coliseum, New York, New York, September 29-October 2.

**Eighth Annual Chicago Golf Show,** Sheraton-Chicago Hotel, Chicago, Illinois, April 21.

**Turf Research Field Day,** Rutgers University, New Brunswick, New Jersey, June 11.

#### 1970

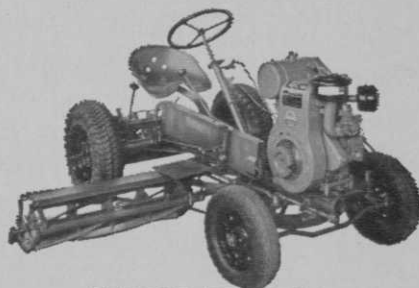
**Ten-Week Winter Turf Course,** Rutgers University, New Brunswick, New Jersey, January 4-March 13.

**Two-Day Turf Courses,** Rutgers University, New Brunswick, New Jersey, January 19-23.

**Club Managers Assn. of America Conference,** Freemont Hotel, San Francisco, February 2-8.

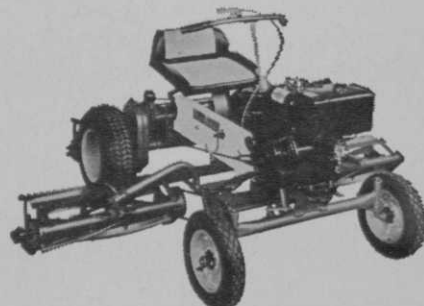
GOLFDOM would like to publish a complete and accurate Coming Events calendar. If your organization or association is planning a meeting, please notify us as far in advance of the event as possible. Send the information to: GOLFDOM, 235 East 45th Street, New York, N.Y. 10017.

## Dependable, long-life precision-cutting! NATIONAL MOWERS



### 7-FOOT TRIPLEX

Goes and mows... anywhere grass grows. Low center of gravity. Climbs like a mountain goat... up 40-degree grades with power to spare. Big, 8 1/4-inch power-driven reels are free floating to follow ground contour, handle heavy growth that chokes most mowers. Cuts at speeds from 3 to 5 miles per hour; transport speed up to 14 miles per hour. Wing mowers fold for traveling. Automotive-type differential. All gears machined from solid steel. Ruggedly built throughout.



### NEW 68-INCH TRIPLEX

Same rugged construction and same dependable performance as National's big Triplex, but smaller and lower-priced. Three power-driven, free-floating reels cut an acre in 30 minutes. Forward and reverse speeds up to 4 miles per hour. Wings fold for transport. Welded tubular steel construction. All gears machined from solid steel. Clutches for traction, wing mowers and rear mower. A rugged, fine-cutting mower for grooming clubhouse lawns and spots too cramped for fairway mowers.

Write for brochure.

Respected for quality...over 50 years

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