



# INCREASE YOUR FLEET PROFITS?

SIMPLY MULTIPLY WITH CLUB CAR

APPROXIMATE ELECTRICAL AND BATTERY COSTS PER GOLFING ROUND FOR MOST ELECTRIC GOLF CARS.

	RESERVE LEFT IN BATTERIES	HOW MANY OF THE 400 CYCLES IN THE BATTERIES ARE EXPENDED?	HOW MANY CHARGES BEFORE BATTERIES MUST BE REPLACED?	ELECTRICAL COST OF CHARGING BATTERIES	COST OF LIFE REMOVED FROM \$20.00 BATTERY (\$120.00 A SET)
1 GOLFING ROUND (18 HOLES)	50%	1/2 cycle	800 charges	13.6 cents	15.0 cents
2 GOLFING ROUNDS (36 HOLES)	0%	2 cycles	200 charges	27.2 cents	60.0 cents
3 GOLFING ROUNDS (54 HOLES)	THE HEAVY GOLF CAR WILL NOT GO THREE ROUNDS ON ONE CHARGE				

Approximate electrical and battery costs per golfing round for CLUB CAR.

	RESERVE LEFT IN BATTERIES	HOW MANY OF THE 400 CYCLES IN THE BATTERIES ARE EXPENDED?	HOW MANY CHARGES BEFORE BATTERIES MUST BE REPLACED?	ELECTRICAL COST OF CHARGING BATTERIES	COST OF LIFE REMOVED FROM \$20.00 BATTERY (\$120.00 A SET)
1 GOLFING ROUND (18 HOLES)	83%	1/6th cycle	2400 charges	04.5 cents	.05 cents
2 GOLFING ROUNDS (36 HOLES)	66%	1/3rd cycle	1200 charges	09.1 cents	.10 cents
3 GOLFING ROUNDS (54 HOLES)	50%	1/2 cycle	800 charges	13.6 cents	.15 cents



The name of the game is PROFITS. The above charts document a cost of 87.2 cents in electricity and battery drain for two rounds of golf with any electric golf car other than CLUB CAR. Two rounds with CLUB CAR costs only 19.1 cents. This is a savings of 68.1 cents.

Only CLUB CAR can give both a second and third round without deep-cycling batteries to the critical point below which no golf car should be operated (1.210 specific gravity — 50% reserve) and the cost of electricity and battery drain on CLUB

CAR for three rounds is the same as for one round with any other golf car.

Are you tired of having to deep-cycle batteries to get a second round of golf, pulling them off the course at the end of the day or buying batteries too frequently? CLUB CAR will go 2-1/2 times further on a battery charge than will any other golf car and the batteries in CLUB CAR will last 2-1/2 times longer than they will in any other golf car. Move up in the profit picture. Call or write us for a CLUB CAR demonstration.

## Club Car INC.

P.O. BOX 897 • AUGUSTA, GA. 30903

- ☐ Send technical bulletins: "How to Predict Golf Car Electricity and Battery costs per Golfing Round", "Care and Feeding of Golf Car Batteries", etc.
- ☐ We'd like a CLUB CAR demonstration.

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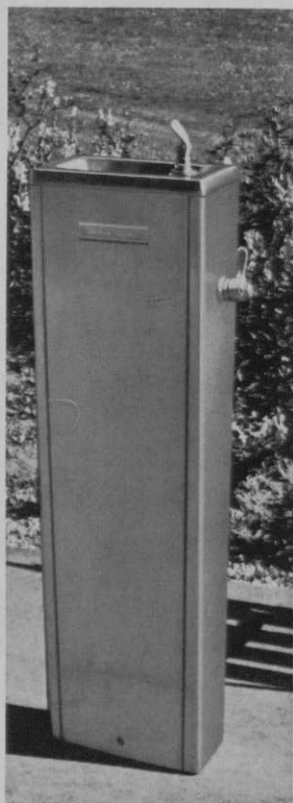
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For more information circle number 185 on card



## LETTERS TO THE EDITOR

### Boros' secret weapon

Could I be permitted a wee bit of dissent from Armand Boros' recipe for Hungarian stuffed cabbage, featured in your April issue?

She says four to five heaping tablespoons of Hungarian paprika. This just might be the clue as to how Gyula Bácsi was able to win his second United States Golf Assn. Open and last year's Professional Golfers' Assn. tournaments. At his age he might need all that ammunition to keep him fired up.

Would Armand settle for four or five teaspoons?

*Carl J. Baumgartner  
Sun City, Ariz.*

## GOLF PROFESSIONALS



Are you interested in added revenue during the cold "Off Season" of Winter? — Sell your members Golf Nets for indoor or outdoor home practice —

Do you know that 50,000 Golf Practice Nets are sold each and every year? — Are you "Missing" these profits? —

Wittek has all size nets available — To fit all price ranges — With or without frames — Install a net in the clubhouse — The added revenue from lessons and club sales enhance your profits — If room will not allow a practice range, install a practice net at the first tee.

Write to Wittek for further details—

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### Kit unobtainable

I read with considerable interest your article entitled "Bee Stings Can Be Fatal" in the August issue of GOLFDOM. Being somewhat allergic to stings myself, I was particularly interested in the emergency kit you mentioned in the article. I think you would be interested to know that I wrote to Hollister-Stier Laboratories, Spokane, Wash., regarding their Ana Kit. I received a very prompt reply from Hollister-Stier Laboratories indicating that this emergency kit has been off the market for approximately three years because of a stability problem with the ingredients used in the kit. To the best of their knowledge, there are at the present time no emergency kits of any type available on the commercial market.

*John C. Harper II,  
extension agronomist  
Pennsylvania State University  
University Park, Pa.*





**Put your ear to this page.  
That's how quiet our gasoline car is.**

A Harley-Davidson gasoline golf car never speaks loudly. Or out of turn. Running, it's quieter than a voice in normal conversation. And fifty per cent quieter than any other gas car. When you want absolute silence, you get it.

And you get it fast. Just take your foot off the accelerator. All you hear is silence. There's no distracting idling to cause you to lose the line on your thirty-foot putt. And no unnecessary revving to put up with. To start our

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**...when it's  
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TURF FUNGICIDE

This is an April photo. **CALO-CLOR** applied once during previous November has prevented snow mold . . . not only on putting surface, but even accidentally in path (foreground) where last remaining **CALO-CLOR** —sewage sludge mixture was emptied during spreader's exit from green.

**Order CALO-CLOR® from your Mallinckrodt distributor today!**

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## Turfgrass research review

by Dr. James B. Beard

**Seed production  
and maturation in  
annual bluegrass**

**Breeding systems in annual bluegrass, *Poa annua* L.**

T. K. Koshy. 1969. *Crop Science*. 9:40-43. (from the Department of Genetics, Macdonald College, McGill University, Montreal-2, Canada).

The purpose of this work was to investigate the breeding systems of annual bluegrass. Plants utilized for this study were collected from northeastern England. Apomixis was not operative in the plant materials evaluated. Seed production and viability was good after both self- and cross-fertilization.

Seed maturation was very rapid. Annual bluegrass is able to mature viable seeds on panicles which are removed from the plant only one or two days after pollination. In some cases viable seeds were formed from panicles or seed heads cut from the plant

*continued on page 18*

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# THE COMPLETE LINE

OF QUALITY IRRIGATION EQUIPMENT



16 Controllers  
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54 Valves,  
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98 Sprinklers  
1/2" - 1-1/2"



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Febco has a complete line of quality-constructed irrigation equipment — sprinklers, valves, couplers, automatic controllers and vacuum breakers — and they work, first time, everytime. Reduce service call backs. Install Febco, the quality-constructed irrigation equipment at competitive prices.

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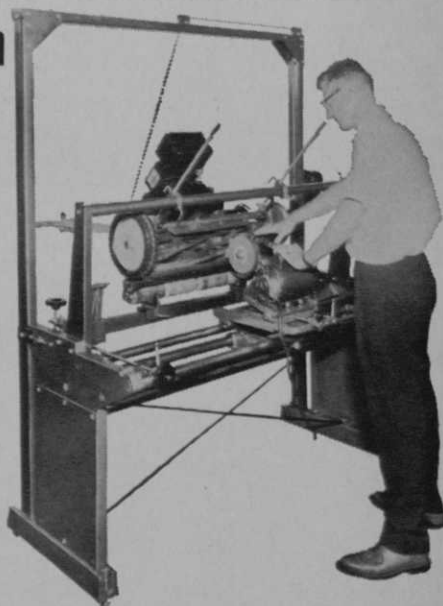
## Precision Sharpen All Reels and Bed Knives without dismantling MOWERS

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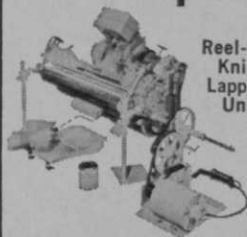
**Foley**

### Lawn Mower Grinder

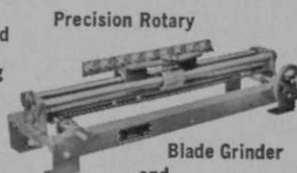
Easy to operate. Restores reel roundness, gives precise, smooth cutting edges quickly and simply. Grinds entire blade in one pass. Powerful winch lifts heaviest mower into place with ease; one man handles any sharpening job. No special training necessary.



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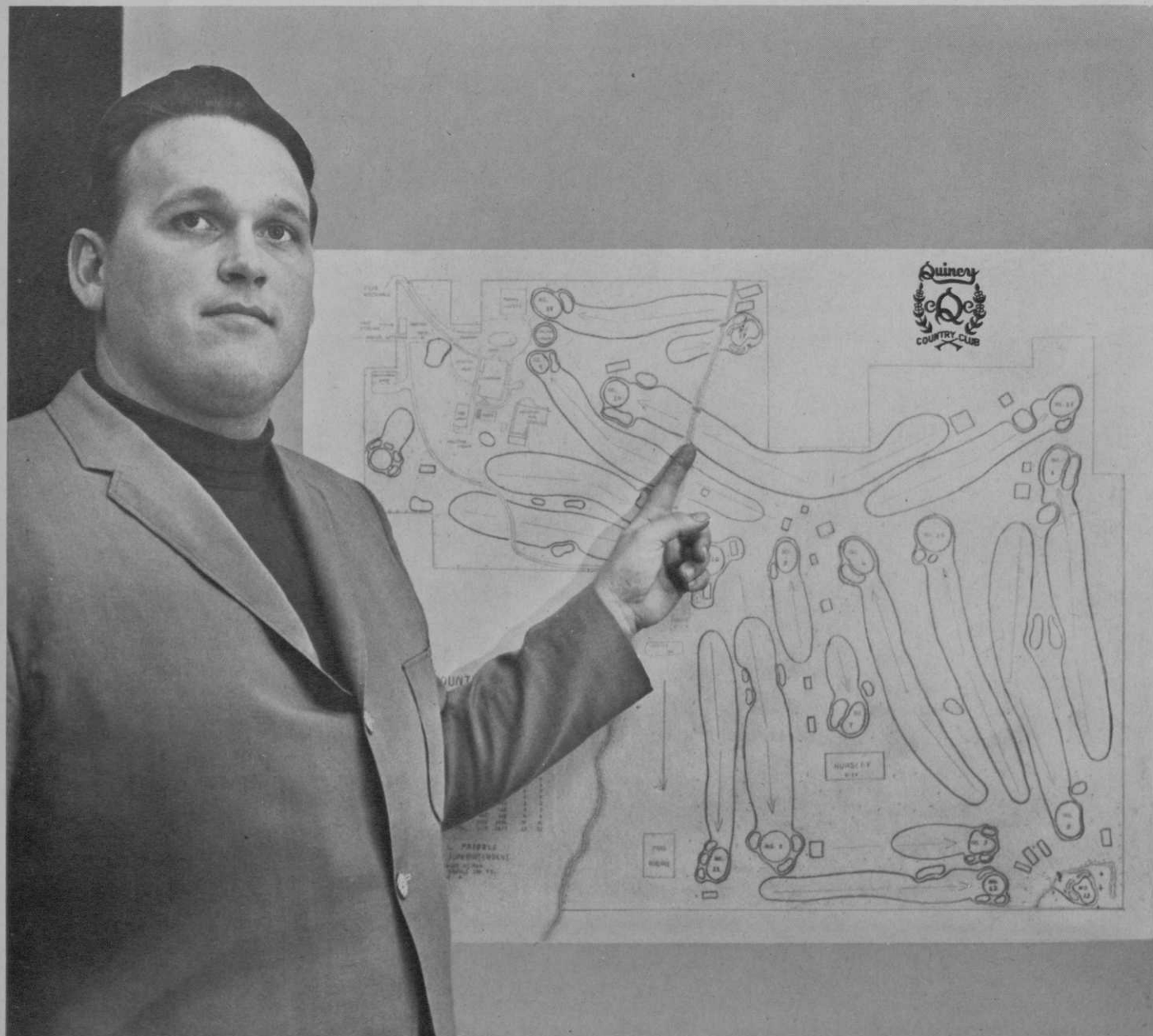
**Manufacturing Co.**  
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For more information circle number 134 on card

# How we spruced up for the Illinois State Women's Amateur

BY CHARLES PRIBBLE

Superintendent, Quincy Country Club, Quincy, Illinois



We keep Quincy Country Club in top shape for our members all through the playing season. For we have a club reputation to maintain—as well as the course.

Quincy Country Club was organized in 1897. It has always been in the same location even though the course has been rebuilt three times. We have a tournament history almost as long as any in the country—dating back to 1902. Today, Quincy is regarded as one of Illinois' top playing courses—and most appealing to women players. That's one reason we had the Illinois Women's Amateur match play tournament back for the fourth time the end of June, 1968.

There are some great golfers in this group—and we are anxious to give them the best playing conditions. Therefore, about a month before this event we accelerated our maintenance pace.

#### Special Touches for the Ladies

Our plans included rebuilding four tees, enlarging them and resodding. Two holes were lengthened in the process.

For the tournament we dropped the fairways to 1" and went on a daily mowing schedule.

The program also called for bringing down the heights of the roughs to 3" from 4½" to 5" since the ladies don't like to hack out of the deep stuff.

Our 45 sand traps were carefully edged and raked just prior to the event.

Everything looked good as the 106 women arrived for the one-day qualifying round. Up to now, the weather was cooperating fine. However, tropical storm "Candy" hit the area and caused a 4½" rain during the night following Monday's qualifying round match. This forced postponement of play for one day with the resultant shortening of the match play schedule to maintain a Friday conclusion. The course was eminently playable the remainder of the week.

Winner of the event was Mrs. Paul Dommers of Belvidere, Illinois. Mrs. Raymond Vaughn of Bloomington in a practice round sank a hole-in-one on the 17th, where a new green had been put in play only a month before. We had a gallery of over 500 people each day.



#### Watering Plan

Our course is well irrigated. All eighteen tees and greens are supplied with water from the city. Some of our cast iron pipe has served fifty years. We try to water the greens every other night, depending on moisture. The tees are usually watered every third day. Normally we use six-hour sprinkling on the greens.

Our new greens are Old Orchard bent. Overseeding of old greens is with Penncross. Fairways are bluegrass. All new collars and tees are Merion. Roughs are bluegrass. We have brown, sandy loam soil here.

Our fertilizing of fairways utilizes 4 lb. of actual nitrogen per 1,000 square feet. This is made up of 1 lb. in the spring and 3 lb. in the fall. The collars and tees receive 6-8 lb. per year.

#### This series is sponsored by Cast Iron Pipe Research Association

Cast iron pipe is preferred for the irrigation systems of golf courses throughout the country. Its superior strength, corrosion-resistance, quick-handling push-on joints and easy tapping, plus its recognized long life, make it by far the smartest investment your club can make. What's more, Cast Iron Pipe doesn't absorb water and isn't porous, so it can't freeze and break.

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## The finest greens are planted with Warren's STOLONS

Perfect even texture and color are maintained with clean, pure-strain WARREN'S STOLONS. Greens planted with seed do not hold their uniformity of color and texture as well as greens planted with stolons. They are apt to develop a "patchwork" look after a few years.

The cost of STOLONS over the cost of seed is insignificant compared to the overall cost of the establishment of a golf course. Why be satisfied with anything less than perfect greens only obtainable from pure-strain STOLONS?



For more information circle number 232 on card

## BEARD

*continued from page 15*

on the same day that pollination occurred.

*Comments:* This ability of annual bluegrass to produce viable seed so rapidly is unique. The ability to form seed heads at a cutting height of one-quarter inch is already well known. These two characteristics are important factors in the ability of annual bluegrass to produce an abundance of viable seed under normal putting green maintenance and contributes to its success as a weed. One annual bluegrass plant was found to produce over 350 viable seeds in a single growing season. This rapid, abundant seed producing ability results in a high population of annual bluegrass seeds in the greens soil. Injured, damaged or thinned areas in the green provide an ideal avenue for the germination and establishment of annual bluegrass from seeds lying at the soil surface.

### Response of seedlings of *Festuca Rubra* varieties to environmental conditions.

L. W. Nittler and T. J. Kenny. *Crop Science*. 7(5):463-465. 1967. (from the Department of Seed Investigations, New York State Agricultural Experiment Station, Geneva, N.Y. 14456).

The effects of light intensity, photoperiod and temperature on the growth habit of chewings fescue and two varieties of red fescue, Illahee and Pennlawn, were investigated. The two light intensities were 1,150 and 2,300-foot candles; the two photoperiods eight and 16 hours; and the temperature treatments involved a daily cold treatment at temperatures of 40° and 50° F.

Results of this study indicated that a daily cold treatment stimulated a more decumbent type of growth habit. The percentage of

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## BIG ONE-MAN RAKING CREW

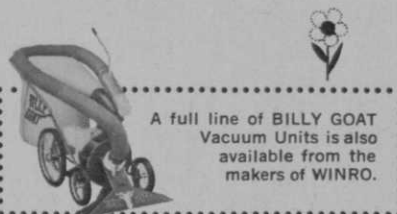


### Turbo-Blast Blower

Blasts leaves and litter from greens, traps, fairways, roughs or wherever leaves are a problem. Sweeps them into windrows or piles for easy pick-up. Cleans parking areas without moving cars.

Use flexible hose, carried on frame, for shrubbery, bushes, hard-to-get-at places. Washer kit also available for misting or washing action.

20" Big Wheels roll easily over any surface. Forward or side air discharge. Powerful 7 or 4 H.P. engine. Handles fold for compact storage or handling. Write for illustrated brochure or free demonstration.



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# Why risk \$100,000?

**You can bury "Ethyl" PVC Bell: Ring<sup>®</sup> pipe  
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The pipe you choose for your new sprinkler system is just a small amount of the total investment you'll be making.

Yet, pipe can be the most critical design factor in the entire system. The pipe you choose, in fact, may be the key factor in deciding whether the system you choose is a success or failure.

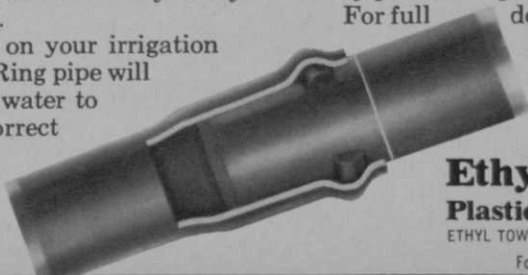
From the day you turn on your irrigation system, "Ethyl" PVC Bell: Ring pipe will deliver the right volume of water to each sprinkler head at the correct pressure.

That's because "Ethyl" PVC Bell: Ring pipe really lasts. It's inert—won't rot or

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Ethyl has a network of distributors and skilled installers throughout the country to assist you in every phase of golf course irrigation design.

For full details on "Ethyl" PVC Bell: Ring pipe, send for our illustrated brochure. Very informative. And it's free. So why not write today.



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Cordo-Hyde® Golf Shoe Laces are specified by many leading shoe manufacturers because they are interested in providing the ultimate in good looks and long wear for their customers.

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The custom club market is the fastest-growing, most profitable area in your field today. We are running ads like these in GOLF, GOLF DIGEST and GOLF WORLD each month, to remind your members that the name DARGIE stands for the finest in quality clubs.



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- hand crafted
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For more information circle number 236 on card

## BEARD

*continued from page 18*

decumbent plants produced increased as the length or intensity of the daily cold treatment was increased. The greatest decumbent type growth was produced by a combination of a daily exposure to low temperature, a sixteen-hour photoperiod and a light intensity of 2,300-foot candles.

The growth habit or the degree of erect versus decumbent type growth was highly correlated with the color of the lower leaf sheath of red fescue. Decumbent plants tended to have an entirely green lower leaf sheath while the upright plants tended to have a concentration of red pigment caused by the presence of anthocyanin pigments. Low temperatures tended to favor the development of green color in the lower leaf sheath while red pigmentation was enhanced by the higher light intensity and the longer photoperiod. The more decumbent type shoot growth of red fescue when exposed to low temperatures is similar to that which has been previously observed in Kentucky bluegrass. □

### Other papers of interest:

1. *Golf course operations: How does yours compare.* Florida Turfgrass Assn. Bulletin. 14(1): 6-8. 1967. (Florida Turfgrass Assn., 4065 University Boulevard North, Jacksonville, Fla.).

2. *Subsurface irrigation.* D. Bingham. Proceedings of the 1967 Midwest Regional Turf Conference. pp. 47-50. 1967. (Department of Agronomy, Purdue University, West Lafayette, Ind.).

3. *History of Poa annua.* J.C. Harper II. 1967 Massachusetts Turfgrass Conference Proceedings pp. A-2 to A-9. 1967. (Department of Plant and Soil Science, University of Massachusetts, Amherst, Mass. 01003).