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### DETAILS

Fourteen inch wire spoke, ball bearing wheels, factory grease packed. Semi-pneumatic, puncture proof tires. Long or short axles. Long handle. Beautifully finished.

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Basket shaped lower brackets with no straps required can be furnished without extra charge on new Karts. Write for information about basket type lower brackets for old Kaddie Karts.

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Please send complete information about Kaddie Karts. We are interested in buying \_\_\_\_\_ leasing \_\_\_\_\_.

Name \_\_\_\_\_ Position \_\_\_\_\_

Club \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

# THE CHAMBERLIN Ko-lap-si Kart

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**COMPLETELY AUTOMATIC**  
Lift Handle, It Opens — Drop Handle, It Closes  
**IS YOUR PROBLEM  
"STORAGE"?**

**THEN SEND FOR  
"STORAGE SOLVED"  
TELLS YOU HOW**



Above cart is a T14 standard, with 14 inch wheels for oval bags. Retail price \$33.95. Also T11 with 11 inch disc wheels at \$29.95. Brackets of various types are easily interchanged to take care of every size and shape bag.

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Pro shops recommending Kolapsi Karts have the advantage.

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Please send complete information about the Automatic Kolapsi Kart for (resale) (my private use).

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Club \_\_\_\_\_ Position \_\_\_\_\_



Clubhouse and starter's pavillion at Buena Vista, shortly after construction was completed. Landscaping, in a few years, will make this a garden spot.

of the Parks and Recreation Department, contributed labor and materials are largely responsible for the fact that Kern County golfers now have two golf courses in operation. This opinion is shared by Herman W. Riece, superintendent of recreation and Harold H. Martin, superintendent of parks, two men who along with Evans tied the work together.

#### Donated Manpower, Materials

In explaining the combined effort of the golfers and the public agency, Evans says, "At the Kern County golf course we find there was approximately 1000 man hours donated to the development of the additional nine holes which were opened in January 1953. This course is now a full 18-hole course and a large part of its fine success belongs to donated labor and materials.

"In addition to the 1000 man hours, three trucks were donated to transport pipe from one course to the other, an approximate distance of 90 miles. Also welding machines and welders' time were donated by the various companies. Although this course has not received as much donated time and materials as the Buena Vista, located between Bakersfield and Taft, we find that it has been very helpful from the standpoint of public interest and financial help, and a great deal of credit goes to the public and the corporations for their assistance.

"At the Buena Vista course, the story is even more gratifying because we find there has been donated approximately 3500 hours of manpower and several thousand dollars worth of pipe, fertilizer seed and other materials.

"A fine example of community spirit

was shown on the workday when people of all classes and professions joined in shaping greens and approaches. On this one day alone the count shows that 250 men and women donated a full day of work on the course. The local merchants contributed refreshments for a buffet lunch served at the noon hour.

"In addition to this labor and material, the farmers of Buttonwillow contributed their land levelers, bulldozers and other equipment to work on the fairways. Also the association contributed some \$4000 in advance memberships which helped defray some actual out-of-pocket expenses. The association also raised approximately \$1100 to pay for additional sprinkler heads for the second nine, just opened.

#### Work to Make Play

"It is very hard to describe the interest and cooperation which has been shown at these two courses and it is my contention that if given a chance to do so and the work can be coordinated in the proper manner, it is a very healthy condition to allow anyone, both from the individual standpoint and from groups or organizations, to participate in the development of any project of this type."

While the golfers themselves pitched in to get the job done, the Kern County Board of Supervisors had and is giving golf its support. The county brought the water from the Buena Vista course in from a distance of more than three miles to make possible the grassed fairways and greens, which now sit like emeralds against the sage brush and desert sands as a tribute to the will and the determination of golfers who wanted a golf course bad enough that they got one.

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fun



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**SAFETY FEATURES** including automatic brakes, four wheel stability, and low center of gravity eliminates danger of overturning. Sound engineering makes McCULLOCH GOLF PONY the safest golf car on the fairways.

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Division of McCulloch Motors Corporation

McCULLOCH GOLF PONY Dept. 9G, 4625 Alger Street, Los Angeles 39, California

# Turfgrass Questions Answered

By FRED V. GRAU

Dr. Grau will welcome questions on course maintenance subjects from superintendents, green chairmen, club and public course officials. There is no charge or obligation attached to this service. Address Queries—Grau, Golfdom, 407 S. Dearborn St., Chicago 5, Ill.

**M**ODERN technical progress is so rapid, it is almost impossible to keep up with it. New chemicals, new machines and new grasses are introduced one after another in such quick succession, who can qualify as an expert in the use of them all?

The colleges and experiment stations cannot in a short time obtain accurate and complete information on the performance of all these new things. Research is slow and painstaking. Manufacturers make the best recommendations they can, but frequently they have only limited testing facilities, in only one location, under only one set of climatic conditions, and under one man's type of management.

Yet the golf course superintendent often is expected to become expert overnight in the handling of these new tools.

The Green Committee chairman or a member says: "I just read about a wonderful new chemical (or machine or grass) so why aren't we using it on our course?" When the product already is being marketed, the superintendent can't insist on waiting a year or more for research results. Still he is very hesitant to try out something new on his precious golf course. He knows how much time and effort have gone into producing the turf on the course and he does not want to risk new and unproved product or practice.

The superintendent must not be so conservative that he will never give any new thing a chance. Nor can he afford to be impulsive in his decisions about what goes on to the turf.

There is a middle road, and this is the one the wise superintendent follows. He is the pioneer, an experimenter, but he conducts his experiments on a limited scale.

Preferably he uses for a proving ground

a nursery maintained just like the greens, tees or fairways. When he hears about an improved grass, he plants a little in the nursery and watches how it develops under his management, and local soil and climatic conditions.

A new machine—he learns how to adjust it, how to use it on the nursery turf where mistakes can be made without inconveniencing anyone.

Activity of chemicals often is influenced by temperature and moisture; one grass is tolerant of a chemical, another may be extremely susceptible to injury. The nursery is the best place to learn these things. If no nursery turf is available, then the superintendent should conduct his experimental work on a limited area and where it will cause the least interference with play.

All of us learn best by doing. The superintendent is no exception. He cannot obtain all his knowledge from textbooks or conferences, valuable though these things are. There are so many variables in handling a living thing like turf, that some of our knowledge must be obtained through trial and error, observation and experience.

Officials and players should realize that experiments do not always produce good effects. This is no reflection on the superintendent's ability. There is no such thing as an unsuccessful experiment. We learn as much from the ones that produce bad effects as from the ones that turn out well. Learning what not to do is as valuable as learning what to do.

Attending conferences, reading books, discussions with other superintendents, asking questions—as in this column, all help to provide the background for intelligent experimentation, but they do not take the place of practical research on each individual golf course. Bad effects

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are going to show up from time to time. Let's accept them as a necessary part of the progress which has made possible ever higher standards of perfection in golf course turf. They should not bring criticism of the golf course superintendent. Rather, he should be encouraged to continue his quest for greater knowledge.

\* \* \*

**Q—What is the best time of year to plant creeping bent stolons? (W. Va.)**

A—In your area it will be best to plant creeping bent stolons during September. Spring planting is hazardous because of the competition of weeds, the handicap of insects and the possibility of hot, dry weather. In the fall we have cool nights and favorable moisture with less trouble from weeds and insects. Bentgrass is a cool season grass and grows best in cool weather.

Some of the most successful plantings of bent have been made in late fall when freezes occurred within a couple weeks so the ground was frozen until spring. Bent stolons are very hardy where frost is concerned.

**Q—Could you suggest a reference book to help me find the answers to turfgrass problems? (Mont.)**

A—"Turf Management" by H. B. Musser, published by McGraw-Hill Book Co., 330 W. 42nd St., New York 18. In it there is a great deal of valuable information on golf course maintenance. But you will not be able to turn to any one page and find all the answers. Some of the answers have been learned since the book was written.

**Q—How much ground limestone should be mixed with topdressing to be applied to putting greens? (Conn.)**

A—One 80 lb. bag of ground limestone for each 1000 sq. ft. would be a good application. You may expect better results if the green is well aerated before topdressing.

**Q—Can 2,4-D be used to control clover on bent greens? (Ind.)**

A—A mixture of 2,4-D and 2,4,5-T, commonly called Brushkiller, can be used to control clover. I would be cautious when using it on bentgrass greens.

Begin with a very light rate, probably less than half of the recommended rate for bent fairways. Make some limited test applications to determine whether or not your bentgrass will be injured by the chemicals. Light applications of Brush-

killer will remove clover, but I repeat that it must be done very carefully and at light rates to avoid damage to the bentgrass.

After clover has been removed then you must follow good practices to develop a dense, vigorous turf; otherwise, clover will invade again.

**Q—What is the best procedure for planting a green with Bermuda sprigs? (S. C.)**

A—The method of planting sprigs on the putting green is quite similar to that used in planting bent stolons. The shredded sprigs are evenly spread over a prepared, well-limed, well-fertilized seedbed. Roll, topdress, roll again and keep adequately watered until the grass is well-established.

This method is particularly good with the newer finer types of Bermudas.

**Q—What is the best type of fertilizer to use for Pennlu creeping bent? (Vt.)**

A—Pennlu does not require any special type of fertilizer. In preparing the seedbed use a 10-10-10 (or similar) fertilizer, about 40 lbs. to each 1000 sq. ft.

After you start to mow, fertilization with  $1\frac{1}{4}$  to  $1\frac{1}{2}$  lbs. actual nitrogen to 1000 sq. ft. each month is needed.

This can be made by applying half that amount every two weeks. The fertilizer may be a good organic type or a soluble fertilizer. Either type will give good results if handled properly.

**Q—What is the best way to get rid of chickweed in a green? (N. J.)**

A—Chickweed in putting greens can be discouraged by applying arsenate of lead at 5 lbs. to 1000 sq. ft. at monthly intervals until you get results. This method is slow.

Quicker results can be obtained with sodium arsenite used at 1 lb. to 100 gals. of water to 1 acre (approximately 44,000 sq. ft.). Repeat every 7-10 days until satisfied. This will brown bent a little, but will not hurt it permanently.

A third method is to spray with the new di sodium methyl arsonate weed-killer. Use half rate or 11 lbs. of 31.5% material to the acre in 200 gals. of water. This is equivalent to 4 ozs. to 1000 sq. ft. Test it first in your nursery. Repeat in 7 days. A third application may be necessary.

**Q—I've heard of shredding Bermuda stolons with a vertical mower. How do you go about this? (Ga.)**

A—This method depends a little bit up-

on the condition in which you acquire the Bermuda stolons. If you have Bermuda sod which has been stripped with a sod cutter, it is easy to feed into the vertical mower.

Place the machine on two saw horses, with a piece of plywood in front to serve as a guide when sliding the sod into the blades. There should be another piece of plywood under the machine so the blades have something solid on which to act and can tear the sod to pieces more efficiently.

If the Bermuda sprigs come to you rather loose, then just throw them down on the ground and pass the vertical mower back and forth over them. This does a very good job of shredding the stolons so they can be handled more effectively.

**Q—We are planning a new course and want to do it right in the first place. What is the best grass for fairways? (Mich.)**

A—The best grass for fairways depends upon the type of management you will be able to give it.

Will you be able to maintain creeping bent fairways with regular watering, close, frequent mowing and all the care they will need? Or is it to be a more naturalistic type of fairway composed of bluegrasses and fescues, mainly under a no-watering program? The management makes all the difference in the world.

If fairways are to be unwatered, I would seed a mixture of Kentucky bluegrass and Merion bluegrass with some creeping red fescue as a nurse crop, considering that the red fescue probably might not survive as a permanent grass.

For a creeping bent type of fairway, then in addition to seeding I would introduce some stolons of the sturdier types of fairway bents. These are general recommendations. Actually, one should have more complete information about management intended and degree of perfection desired before arriving at a decision. I will be glad to go into more detailed discussion with you.

**Q—What research is being conducted on *Poa annua* control? (Md.)**

A—A great deal of research is going on at the present time at several experiment stations across the country. Work is in progress at Rhode Island, Penn State, Purdue, California and probably at some other stations.

Some of the most promising work goes back to the practice of many years ago

of applying arsenate of lead which is doing quite an effective job of controlling *Poa annua*, chickweed, and other weeds, on putting greens, where the phosphorus content is medium to low.

## **Caddy Bonus System Gives Boys Competitive Interest**

**By ORVILLE W. CHAPIN**  
*Professional, Ft. Wayne (Ind.) Country Club*

**A**FTER some experimenting we worked out at our club a caddy bonus system that gives the boys a fair break and rewards the youngsters who are dependably on the job as competent and interested caddies.

Our first system gave the boys a bonus at the end of the season but it didn't work as well for the boys or us as the present system, with more competition, has worked.

Our present system keeps the boys coming out in October when weather is favorable and it has been helpful in enlisting for our members a good supply of caddies.

There is a balance left in the fund which is used for a caddy party early in the season. We usually have two or three parties for them. On one Monday they have exclusive use of the pool for half a day. We have a caddy tournament late in the summer, just before school starts.

### **Our Caddy Bonus System:**

The purpose of a bonus system is to encourage boys to report regularly for assignment and to reward those who do report regularly.

### **Source and Amount of Bonus Fund**

The bonus fund will be accumulated through a bonus charge on each caddy fee as follows:

1. Nine holes single.....	10 cents
2. Nine holes double.....	20 cents
3. Eighteen holes single.....	10 cents
4. Eighteen holes double.....	20 cents
5. Each ball-chasing assignment .....	10 cents

(It was estimated that this schedule would yield a total bonus fund of \$1200, but last year it totaled \$1390.)

### **Distribution of Bonus Fund**

Distribution of the bonus fund will be made to caddies based upon bonus credits in accordance with the following:

1. On September 8, the 20 caddies with the highest number of bonus credits will receive 30% of the fund at that date, or

\$300, whichever is smaller, divided as follows:

1st 1, 3% or \$30, whichever is smaller  
 Next 3, 2½% or \$25, " " "  
 Next 3, 2% or \$20, " " "  
 Next 5, 1½% of \$15, " " "  
 Next 4, 1% of \$10, " " "  
 Next 4, ½% or \$5, " " "

2. On October 25, the 35 caddies—each of whom must have caddied on seven different days during week ends between September 11 and October 24 inclusive—with the highest number of bonus credits will receive 70% of the remaining fund at that date, or \$700, whichever is smaller, divided as follows:

1st 1, 3% or \$30, whichever is smaller  
 Next 6, 2½% or \$25, " " "  
 Next 7, 2% or \$20, " " "  
 Next 7, 1½% or \$15, " " "  
 Next 7, 1% or \$10, " " "  
 Next 7, 1% or \$5, " " "

3. On October 25, the 20 caddies with the highest number of bonus credits earned on Saturdays and Sundays between September 11 and October 24 inclusive will share the then remainder of the bonus fund as follows:

The 5 caddies with the highest number

of bonus credits will each receive 8%, the next 5 will each receive 6%, the next 5 will each receive 4%, and the next 5 will each receive 2% of the then remainder of the fund.

#### Determination of Credits

In order not to penalize boys who, because of illness or absence from the city, might otherwise qualify for a bonus, the bonus credits to be used as a basis for making awards will be the difference between total credits earned and the lowest number of credits earned during any two consecutive weeks between June 5 and September 9. For this purpose, the week will begin on Monday and end on Sunday. Recording of credits will begin on June 5.

Credits and penalties will be recorded in accordance with the following:

#### CREDITS WILL BE RECORDED FOR

	Credits
1. Each nine hole assignment .....	½
2. Each eighteen hole assignment .....	1
3. Chasing balls ½ hour .....	¼
4. Chasing balls 1 hour .....	½
5. Reporting for work and staying until dismissed by caddy master and without getting an assignment .....	½

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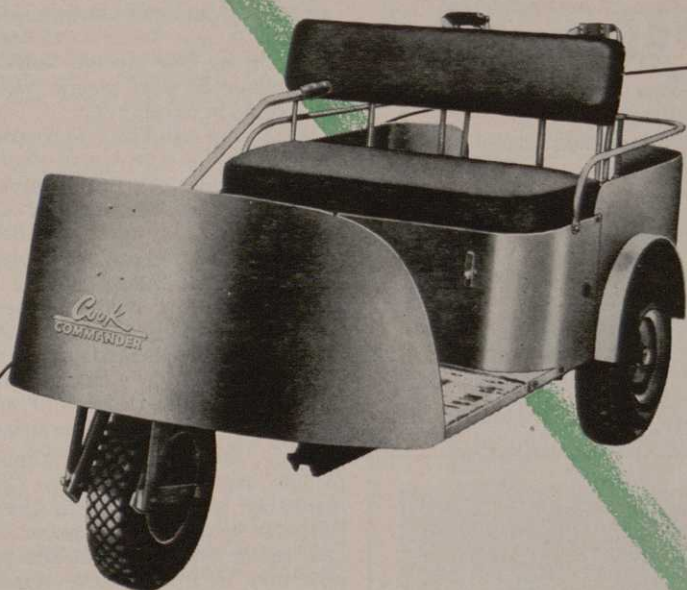
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**PENALTIES MAY BE CHARGED TO**

1. Any first-class caddy receiving a poor grade ..... 1
- Any first-class caddy receiving a fair grade ..... ½
2. Any first-class caddy assigned second-class rate as a disciplinary measure ..... ½
3. Any second-class caddy, after first six assignments, receiving a poor grade ..... ½

NOTE: All penalty charges are reviewed each week by a member of the Grounds Committee.



**SWEETHEART IS PRO SHOP PATRON**

Carolyn Stroupe, West Palm Beach, Fla., becomes a buyer in Harry Obitz' pro shop at Fred Waring's Shawnee Inn CC, Shawneeton-Delaware, Pa. Harry claims that into his pro shop come the world's most beautiful women golf customers.

Harry's interest in the pulchritudinous patrons is strictly platonic. He carries on a deep love affair with the shop cash register.

Miss Stroupe in the nation's "Sweetheart of Sigma Chi," the fraternity that has in addition to its formal roster, a million barbershop choral auxiliaries.

**Golf and the Soldier**

(Continued from page 40)

ments. Eventually, all of the major commands send teams to the All-Army Tournament. This year the All-Army was held at Fort George G. Meade, Md., with the Second Army Team winning the championship by one stroke. Individually, Pvt. Dan Sikes of Fort Meade, won the championship, in a play-off.

After the All-Army tournament the All-Army team is selected to play against the other services at the Interservice Tournament. This tournament gives the soldier a chance to play against other very good service golfers and to play different courses. Since Army pay is hardly sufficient to allow most of the soldiers to play in the many tournaments held about the country, the All-Army and Interservice give him a chance to prove himself without the expense of entrance fees and other incidental tournament costs.

**More and Better Courses**

The future of golf in the Army is probably the same as in the country at large. It is going to increase. New courses are being built to meet the present need and help with the future demand.

In my command, I am encouraging other posts to employ golf course architects for their new construction. A man who has never played before or doesn't play well, is liable to want to play a lot more golf on an interesting, well laid-out course than on some sun burned, dry, and unimaginative 18. And, above all, the soldier who is healthfully playing a round of golf will be one less soldier who might be on a street corner, in a bar, or trying to drive an automobile a thousand miles on a week-end pass, a practice which has resulted in an alarming loss of life and limb to service men in traffic accidents.

Morale-wise, a long putt "clunking" into the cup goes a good long way towards keeping anybody happy and contented!

**USGA GIVES RIGHT ANSWER**

**Q.** Am I correct in thinking that "Green Committee", and "Green fee" are correct, and that to add an "s" is an error?

**A.** "Green Committee" and "green fee" are correct.

**Question by:** Norman Beecher  
Clearwater (Fla.) CC

**Answer by:** Joseph C. Dey, Jr.  
USGA Executive Director