of America has developed a new "handy camera" to complement such units. The HC-100 unit features a 1½ inch viewfinder that doubles as an instant playback monitor. A flip-down magnifying lens is also included for group viewing. A built-in uni-directional electret-condenser microphone is also in the package. The HC-100 comes equipped with a metal stand for stationary recording.

SEPCO Floodlighting is presently offering a new product line that provides maximum efficiency of lumen output from its light source coupled with beam control. Fixtures are available for lighting maintenance facilities, parking areas, decorative facade lighting, tennis courts, highways and signs. Units are designed around reflectors which provide maximum beam utilization with sharp cutoff to minimize glare.

Circle No. 710 on Reader Card

PROFIT-MAKING menu specialties can now be easily merchandised with Dean Industries' new self-contained, mechanically refrigerated display case. The island type unit permits display of appetizers, salads, jellies, cakes, pies and puddings in either fast food, cafeteria or sit-down operations. The clear-view window display in front is set at an angle providing maximum customer visibility.

Circle No. 711 on Reader Card

CONVENIENCE coupled with quickness are the two big advantages of FMC's new Bean 12RC air carrier sprayer. The model's new larger pump capacity allows greater speed over the spraying area. Allowing a coverage of 40-45 feet without driving off the playing surface, the sprayer can handle most fairways in just two passes. Besides the advantages of getting to otherwise inaccessible areas for spraying, the unit can also be utilized for leaf blowing and green drying. Reduced maintenance overall and operation noise is minimal, since the machine is completely pto powered.

Circle No. 712 on Reader Card

DESCRIBED as "amazingly accurate", the new Sav-a-Strok range finder is another welcome addition to the pro market. Held in the hand at arms length, the golfer sights the top of the pin and then runs their thumb down the provided scale till the thumb hits the bottom of the pin. After checking the yardage, its simple to select the right club. Sav-a-Strok is also an aid in speeding up slow play, avoiding wasted time spent on judging distance and indecision on club selection.

Circle No. 713 on Reader Card

CONTAINING SLOW release nitrogen, a new complete liquid fertilizer called Liqua-Form is now available. A fluid suspension fertilizer, Liqua-Form contains soluble nitrogen, ortho and poly phosphates and minute traces of minor elements.

Circle No. 714 on Reader Card

HINTS TO operating your own bar or cocktail lounge are now being offered in a new business book entitled, the "Beverage Service Manual" The book is filled with complete information on how to control inventory, recipes, bar techniques, labor cost, pricing bar image, beverage services and management.

Circle No. 715 on Reader Card

WOLF RANGE Company has designed and engineered its latest innovation, the "Groovy Griddle", to help in the preparation of steaks, hamburgers and other foods. The unit features a serrated cooking surface on a one-inch thick solid steel plate mounted on an angle to permit fat drippings to drain away from the cooking area. The temperature of the "Griddle" is thermostatically controlled for proper cooking of meat, while keeping shrinkage at a minimum.
Wage Abuses Can Cause Club Problems

On January 1, the minimum wage increased to $2.10 per hour, and the Federal government is conducting investigations of violations of this new law.

Investigations are conducted on complaints received, a spokesman for the Federal Div. of Equal Pay and Employment Standards of the Wage-Hour Div. told GOLFDOM. The spokesman also said investigations arise from complaints that point to industry-wide employee underpayments.

For example, last year the Wage-Hour Div. received 40,000 complaints that led to 60,000 investigations. The major portion of the additional investigations was a result of complaints indicating certain widespread underpayments for employees in particular areas and industries.

The spokesman warned that it is up to club officials to raise wages to applicable rates to the club situation under the Fair Labor Standards Act. And once again, on Jan. 1, 1976, the minimum will increase to $2.30 an hour for most employees.

During the first quarter of fiscal year 1975, the Wage-Hour Div. found minimum wage underpayments in excess of $5 million involving nearly 40,000 employees. Millions of dollars in back wages have been paid by employers already in the past 15 months.

New Food Management Book Focuses in on Menu Theme

Luring the customer into a dining room has been one of the principle problems for the foodservice industry for years, but a new book on the market might have a few answers for restaurant operators.

"Management by Menu", the latest work by Lenthal H. Kotschevar emphasizes the role of menu planning in foodservice operations. The author identifies the menu as a purchasing guide and work order to the kitchen as well as a merchandising message to the customer. Long regarded as the key to success, the menu stands as the restaurateur's tool in planning his enterprise. The book attempts to give the foodservice executive a clear answer to the questions facing them, whether they are concerned with getting the most out of their budget or making a profit.

The book is being published as a service of the National Institute for the Foodservice Industry and is being utilized as a integral part of its current food management course. Further information on the book and its related course can be obtained by writing the NIFI at 120 South Riverside Plaza, Suite 856, Chicago, Illinois 60606.

Club Execs Begin to Realize Golf Cars Are Moneymakers

With money worries becoming more of a problem every day for golf clubs across the country, management is looking for more ways to make money with their existing facilities.

One Eastern club has worked out a plan with use of its golf cars that has proved both beneficial to the club and to the pro. The pro used to run the golf car concession by himself apart from the club. Now the club has taken over control of the cars, and the pro still realizes 15 percent of the concession in exchange for minor bookkeeping chores.

"We have almost 40 cars," an official of the club told GOLFDOM. "It is a moneymaking proposition, there are no two ways about it. The pro still gets 15 percent, and he doesn't have to worry about the cars as he did before and he can devote more time to the pro shop.

GCSAA Pension Plan Closer to Reality

Necessary steps are now being taken to formulate a pension plan for the 3,700 members of the Golf Course Superintendents Assn. of America. It is hoped basic plans can be drawn up for discussion at the executive committee meeting of the association at the GCSAA International Turfgrass Conference and Show Feb. 16-21 in New Orleans.

Congressional approval of the pension reform bill has enabled the GCSAA to begin formulating plans for a pension plan for its members. A GCSAA spokesman said the association is now in the process of accepting bid-type proposals from three different companies that handle these type of pension plans, although no timetable has officially been set for enacting a plan.

The problem before passage of the pension reform bill was the portability of pension for an individual superintendent. When a superintendent left a particular job, he lost all his pension benefits. Under the new law an individual can set up an "IRA," an Individual Retirement Account.

The GCSAA would possibly serve as a financial passthrough and would hold the "mother" account wherever the superintendent chose to work, and the pension funds would stay with the individual superintendent. The government has said up to $1,500 a year can be put into an IRA, and a superintendent might negotiate with his employer for a percentage of this to be paid by the employer.

A recent survey by the GCSAA has indicated there is a tremendous interest in a plan of this sort among its members. It is hoped that plans can be drawn up within a year at the latest to get a pension plan actually working for superintendents.

After the GCSAA accepts a proposal from one of the companies it is negotiating with, approval must be obtained from both the Internal Revenue Service and the Dept. of Labor.
Make Tennis A Plus, Says Consultant

Though a very high percentage of clubs have tennis courts, the lack of proper initial planning of these facilities is quite often the cause of member apathy, according to Dennis Van der Meer, top teaching pro and industry consultant.

According to Van der Meer, hundreds of hours are spent on planning golf facilities, but the same doesn’t run true for the tennis operations on the same courses. “Either you have to trudge up a dirt road to find a couple of courts on a wind-swept knoll or you mord your way down into a wet gully where shadows and leaves are always on the playing surface,” Van der Meer said.

‘Pentagon Golf Pricetag Steep’: Proxmire

For years, congressmen have accused the Pentagon of playing around with the taxpayers money and Sen. William Proxmire might finally have some proof. The Wisconsin lawmaker has discovered a $20 million overrun in the Defense Department’s budget for the upkeep of golf courses on military installations.

Proxmire announced his findings on Jan. 20, after receiving a report he had requested from the General Accounting Office on the matter. The GAO found the Defense Department had spent $13.9 million of its appropriated funds, for the course operations and an additional $20 million of non-appropriated funds had been added.

United States military installations with golf facilities number 300 throughout the world, although only 30 are overseas. Ron Tammen, Proxmire’s legislative assistant told GOLFDOM that the Senator’s investigation was based more on the “improper” use of nonappropriated funds for the maintenance of the courses, instead of a dislike of the game.

“The Senator thinks golf is a great pastime and that recreation facilities on the bases are essential, but he does disagree with such a large cost overrun,” Tammen said.

Proxmire has insisted that since the Defense Department continually repeats its cry for more money, how can it justify such expenditures for recreation. In short, where are the priorities of the Pentagon. Added to this, is the Senator’s assertion if cost overruns occur, the courses should be open to the general public, since the taxpayers are left to make up the deficit.

Figures indicate that over $113,000 is the standard yearly expenditure per course, which roughly fits into the national average. Indications are that Proxmire will bring the course matter up at the annual Senate hearings on military spending later this summer. In a Senate speech, Proxmire reiterated that the use of federal funds to run military courses was a waste of the taxpayers money in a time of inflation, compounded by recession.

“Construction of an additional 77 courses is now underway including a figure of $24,000 being spent by the Army out of research and development funds and $63,000 from the Air Force family housing appropriated funds,” the Senator noted. In addition to the existing 300 facilities, the GAO disclosed that the military has 163 driving ranges, 178 practice greens and 19 pitch and putt courses.

Studies have shown that the military has built its own facilities even when comparable public operations were nearby. Asked about the GAO report, a Defense Department spokesman came up with the usual, “no comment.”

Sporting Goods Market Can Be Economic Barometer

Will the sporting goods market be a good barometer for economists to gage what’s in store for the economy? That was the question asked at the 46th National Sporting Goods Convention and Show in Houston in late January.

According to NSGA president Al B. Anderson, “this industry is one of the the economic strongholds in times of economic hardship.” Anderson suggested that the rate of buying for spring and summer merchandise, which is usually vigorous, may be a clue to the future of the nation’s overall economy.

Anderson noted that man’s greatest joy is his chosen leisure activity and that it seems unlikely that he will sacrifice it to the economy until absolutely necessary. Many industry watchers have maintained that if the small retailer, in this case the golf shop merchandiser, is to survive, they must buy judiciously to weather the economic decline.

California Fertilizer Assn. Supports Turf Research

The soil improvement committee of the California Fertilizer Assn., has presented the Southern California Turfgrass Council with $1,000 to bolster its trust fund for turfgrass research.

The Council established the fund last year and has contributed $6,000 to a research program now underway at the South Coast Field Station in Santa Ana, Calif.
Bayou Swamp to Top Course
In a New Orleans Year

A little over a year ago, Eden Isles development in Slidell, La., outside New Orleans, was a bayou below sea level, covered with water, swamp grasses, cotton mouth water moccasins, alligators and mosquitos.

Today it is the site of a championship 18-hole golf course, according to Howard E. Williams, vice president of Golf Courses by Iberia, Inc., Iberia, Ohio.

The entire project, when started, was 1 1/2 to two feet below sea level. In order to raise the course site, fill dirt was needed. To secure the fill dirt, 23 lakes were designed into the course and by going to a depth of up to 40 feet, 600,000 cubic yards of dirt was generated to raise the entire site from a plus two feet to 15 feet allowing for contouring and giving the course rolling terrain in an otherwise wet, flat area.

All of the lakes were tied together with culvert and channels thus being able to keep the water level the same in all 23 lakes and also utilizing them for irrigation giving many acres of water to draw from. The lakes had to be kept separate from the boat channels, bayou water and Lake Pontchartrain as these waters have a salt content which is not conducive to good grass growth. All the water for the lakes will come from run-off making the only fresh water on the project.

This is the first course Williams knows of that is entirely built from fill dirt. All the roughs, fairways, tees and greens are completely manmade. The soil taken out of the lakes is an unusual type and runs the same for a depth of 5,000 feet with no rock. By using the soil from the lakes the original soil was covered which contained salt but this only went down about 12 inches. From there on there was no salt problem.

Dr. Coleman Ward, of the department of agronomy at Mississippi State College ran a percolation test on the soils being used and came up with a surprising fact. Absorption was zero. All rain or irrigation water had to dissipate by run-off, so contouring had to be right or there would be problems. They eliminated the settling problem before they got it by having everything built higher than the architect called for in his prints.

The soil would only dry down about four inches and from there on it stayed wet. The only way they could dig the lakes and move and spread the dirt was with draglines working on mats and some of the time double mats. After the draglines placed the dirt to within six inches of finish grade and it dried some on top, they would shape with bulldozers, but only four inches at a time making for rather slow progress.

Another fact that did not help construction was that in the first four months of construction, it rained almost every day and that means three to 17 inches. Edmund Ault, a golf course architect from Bethesda, Md., designed the course to run through the housing develop-
The J-M Club Car golf car can save you up to $300 over a four year period.

Multiply that by the number of golf cars in your fleet and you have good reason to send for our brochure.

The test experience of CLUB CAR owners has shown that a single car can save up to $300 in battery replacement alone over a four-year period. The secret is in the CLUB CAR golf car's light weight and efficient propulsion system, which allow it to put in a full 36-hole day on the course without using more than half the energy supply.* That saves substantially on wear and tear deep inside the batteries. You don't have to replace them as often and it takes less electricity to charge them back to 100% capacity. It also means that a CLUB CAR golf car can go up to 72 holes on a single charge if it has to.*

One year parts and labor warranty
Johns-Manville is so confident of the quality of the CLUB CAR golf car that the warranty covers both parts and labor for one full year. When it does need maintenance, the batteries and solenoids are easily reached under the seat plate. All of the solenoids are wired independently, so the car remains operational in the unlikely event of a solenoid failure.

Free color brochure
There are so many sensible and convenient features engineered into the stylish CLUB CAR golf car that you need our brochure to learn them all. To get one, just fill out and mail the coupon below to Johns-Manville, Box 5705-AT, Denver, Colorado 80217.*

*Based on average golf course conditions.
Optional accessories shown include canopy and hubcaps.

Johns-Manville

Mail to: Johns-Manville
Box 5705-AT
Denver, CO 80217

I'd like more information about the Johns-Manville Club Car. Please send me your free brochure.

Name
Representing
Address
City State Zip

For More Details Circle (102) on Reply Card
ment and it covers about 134 acres. The course is over 7,200 yards with a par of 72. It has 54 sand traps, the greens average 7,500 square feet and the tees average 6,500 square feet, not to mention the 23 lakes. The superintendent is E. J. Alleman and he is assisted by Daryl Robinson.

Electrical Wiring Problems For Golf Course Builders

When burying underground electrical wiring in the construction of a golf course, how deep should cable tunnels be dug — 24 inches as prescribed by present electrical underwriters codes, or 12 to 18 inches? Members of the Golf Course Builders Assn. hope to find an answer to this question in discussion at their annual meeting at the 46th Annual GCSAA International Turfgrass Conference and Show Feb. 16-21 in New Orleans.

Nick Siemens, Fresno, Calif. golf course builder says that in open spaces such as golf courses, underground wiring should not have to be buried a full two feet. He and other association members are drawing up proposals to present to the underwriters to get the present recommendations changed. The association also hopes to get other associations connected with the industry involved.

The golf course builders will meet the night of Feb. 19 in the Holiday Inn in New Orleans for their annual meeting. Frederick B. Ledeboer, director of research and agronomy for Lofts Pedigreed Seed Co., will speak discuss turf problems with the builders. There will also be a discussion of golf course maintenance problems from the design standpoint of a course.

Fanny Fern Davis Receives USGA Green Section Award

Dr. Fanny Fern Davis, of Valparaiso, Fla., has been named recipient of the 1975 USGA Green Section Award, presented in recognition of distinguished service to golf through work with turfgrass.

Dr. Davis accepted the award at the USGA's Annual Conference on Golf Course Management at the Biltmore Hotel in New York late last month.

She is the first woman to receive the award, which was first presented in 1961. She has made significant contributions in the field of turfgrass over many years, and she has had close connections with the USGA Green Section.

Beef Supplies, Lower Prices 1975 Outlook for Managers

Club managers can look forward to plenty of top-quality beef at relatively bargain proves for 1975, beef analysts say. The experts say prices such as the two-year low of 58 ½ cents per pound that choice beef sold for in Chicago late last year will continue. The reason is that there are a record number of cattle available now on the market.
Now here's a mower.

This 9-gang giant will take on the biggest mowing job you have and breeze right through it.

Grady Hassell can tell you about it. He’s with Lawn & Turf, Inc. in Conyers, Georgia.

As a Jacobsen Distributor he has all the answers about Jacobsen equipment. Like the huge F20 9-gang mower.

He'll tell you that it cuts a wide 19-foot swath. It has a gargantuan appetite that can cut through 76 acres in one work day. And that’s mowing at a realistic pace.

But it's easily tamed for more delicate chores because the operator can raise and lower any of the reels with a fingertip control. Things like median strips can be mowed from the road shoulder with the outboard reels, for example.

Just because it’s big doesn’t mean it’s clumsy. Far from it.

There’s a ground-gripping front drive that gives sure traction on grades and sidehills.

And the rear wheel steering means that the reels turn in the same arc as the steering wheels. No skidding, no skipping, no uneven cutting in the turns. And no wheel streaks in the straightaways, either.

If you have big mowing chores ahead of you, ask your Jacobsen Distributor about how the mighty F20 can help you. An actual demonstration ought to raise your eyebrows a couple of notches.

And you might even find yourself saying, “Now here’s a mower.”

Your Jacobsen Distributors.
Before we sell it, we buy it.

For the name of the distributor near you write: Jacobsen Turf Distributor Directory, 1721 Packard Avenue, Racine, Wisconsin 53403.

Circle No. 184 on Reader Service Card
Shortage Predicted in 1975 For Weed Control Materials

Due to shortages of materials needed for manufacture of herbicides, mainly petroleum and gas, experts predict 1975 will be another year of herbicide shortages. Prices are also expected to be 10 to 30 percent higher in 1975 than in 1974.

There will be very few new products in 1975, and superintendents are advised to determine what materials and what amounts he needs, and get his order in as soon as possible. "Except delivery as soon as possible," one agronomist told GOLFDOM, "this will protect a superintendent from shortages and any subsequent increases in price."

If a superintendent cannot find the herbicide he needs, there are substitutions that can be made, but Edward Stroube, extension agronomist at Ohio State University, urges the superintendent to be sure these substitutes will do similar jobs. Also, if only a limited amount of material is available, he said, do not reduce the rate so you can use the material on more acres. Use the herbicide at a rate required for good weed control on the most seriously infested areas and depend on cultural practices on the remaining area.

Superintendent Standard Set For Pesticide Application

The Environmental Protection Agency has announced rules and regulations governing the certification of applicators, including superintendents, who apply restricted-use pesticides.

It is important pesticide users who apply these pesticides become familiar with the certification requirements and the proper safe use of pesticides, according to David R. Miskell, associate state leader, agricultural industry, Ohio State University. He said that after Oct. 21, 1976, most pesticides classified for restricted use may be applied...
prepare your turf early
and save money
with our pre-spring offer!

JUST CUT OUT AND RETURN THIS ADVERTISEMENT
TO THE C.B. DOLGE CO. ON OR BEFORE MARCH 1st 1975 AND
YOU WILL RECEIVE A...

10% DISCOUNT
on
PENETRATE
soil improver & conditioner

PENETRATE is not just a wetting agent. It is actually a organic soil builder and conditioner that works through compacted soil. It lets air, water and nutrients go deeper, promotes deeper, stronger root growth and encourages vigorous, beautiful turf, shrubs and trees.

PENETRATE prevents soil erosion and puddling on surface water, also reduces the danger of disease by eliminating excessive moisture, and speeds up germination of wanted vegetation.

PENETRATE is perfect for Golf courses, Baseball, Football or any athletic field, where quality of turf is needed. So get a head start and save this Spring with our special 10% discount offer.

ATTENTION: MR. SAL VENTO, GROUNDS MGR.
THE C. B. DOLGE CO.
11 FERRY LANE WEST
WESTPORT, CONN. 06880
203-227-9591

NAME ___________________________ TITLE ___________________________
COMPANY or CLUB ___________________________
CITY ___________________________ STATE ___________________________
ZIP CODE ___________________________ TELEPHONE ___________________________

Outdoors and Indoors you can Depend on Dolge
for Quality, Pride and Excellence with a full line of established chemical maintenance products, since 1890.

THE C.B. DOLGE CO., 11 FERRY LANE WEST, WESTPORT, CONN. 06880

Southern Subsidiary GOLTRA, INC., Drawer "D", Salem Station, Winston-Salem, N.C. 27108 (919) 724-7419
For More Details Circle (103) on Reply Card
INCREASE EARNINGS, SERVICE & SPACE
Remodel your present storage space, update with
NEW Stafford VERTICAL BAG RACKS
• Wear and tear of golf bags is completely eliminated
• Damp bags dry faster — no mildew
• Faster, easier storage
• Provides a neat appearance
• Easy to install and add more as needed

Your members will like the extra convenience and care. Your pro shop profits from 40% more space these racks make available. Double unit shown holds 16 bags, size 2' x 4' x 6'-6" high. Single unit holds 8, size 1' x 4' x 6'-6" high. Sturdy steel. Bags set solid on tapered shelves. Send us your floor measurements, we will plan a layout and quote you — no obligation. U.S. and Canadian patents. Send for folder.

2000 Allen Ave., E., Box 8877, Canton, O. 44711 Phone 216/453-8431

The A.G. STAFFORD Co.