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Grau's Answers

(Continued from page 67)

can be calculated similarly, guided by soil tests and previous history).

A final example is set forth to act as a guide for calculating pounds of nutrients in a ton (2,000 pounds) of fertilizer.

Fertilizer	Pounds of nutrients in 100 lbs. fertilizer	Pounds of nutrients in 1 ton
	N P K	N P K
5-10- 5	5-10- 5	100-200-100
20-10-10	20-10-10	400-200-200
10- 3- 7	10- 3- 7	200- 60-140

In a 20-10-10, for example, each figure represents the per cent of the nutrient in 100 pounds — thus a 100 lb. bag of 20-10-10 carries 20 lbs. of nitrogen, 10 lbs. of phosphorus (P_2O_5) and 10 lbs. of potash (K_2O). Since there are 20 one-hundred pound bags in a ton, the pounds of nutrients in a ton can be calculated quickly by multiplying the analysis figure by 20, thus $20 \times 20 = 400$ pounds of N in a ton of 20-10-10.

By utilizing this example, one can quick-

ly determine the pounds of each nutrient in a ton of any kind or analysis of fertilizer so that the total tonnage required easily can be determined.

Philadelphia Show

(Continued from page 60)

ers on TV. That means a great deal. The mere mention of the word, golf, gets them to wondering where and how soon they can get their hands on a club or swing at a ball. We provided the first outlet for them this year."

Fraser says this year's Philly show was a big improvement over its predecessors because the section set up more committees than before to handle details leading up to the show. There also were more pros on the floor to explain the game and demonstrate it when the show finally went on.

Among the visitors to the Philly exhibition were several national PGA officers as well as members of quite a few of the country's other 31 sections. As for the honors, they were bestowed on Marie Weiland, William Hyndmann III and Sam

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	5 Lbs.	50-299 lbs.	300-999 lbs.	1000-1999 lbs.	2000 lbs & up
9-45-15 START-L-IZER		\$0.31	\$0.27	\$0.26	\$0.25
15-30-15 PLANT-L-IZER		.27	.23	.22	.21
24-12-12 LAWN-L-IZER		.31	.27	.26	.25
30-10-10 AZALEA ACID-50		.31	.27	.26	.25
20-20-20		.27	.23	.22	.21
25-0-25		.23	.19	.18	.17
12-24-24		.25	.21	.20	.19
CHELATED CONCENTRATE	\$0.75	.56	.52	.51	.50

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Palm Harbor, Florida

Penecale as the district's outstanding woman, amateur and pro golfers-of-the-year, respectively. Morton H. Fetteroff, Jr., former president of the Golf Assn. of Philadelphia was cited for his "contribution to the game", and Joe Hunsberger of Juniata received an award as "home pro-of-the-year".

Convention Golfers

(Continued from page 50)

no golf worries and all he has to do is to enjoy himself playing.

When a golfer arrives at Whiteface he doesn't have to touch his clubs until he arrives at the first tee. Our routine is:

(1) Bellboys bring clubs to the golf shop;

(2) Clubs are cleaned and tagged;

(3) Cars and caddies are assigned at first tee;

(4) Players are met at 18th for scores and scores are posted;

(5) Clubs are cleaned again and stored;

(6) Bags taken to hotel on checkout day;

(7) Assistants tabulate tournament

scores and results;

(8) Hole-in-one, driving, and putting contests are conducted for each convention by one of my staff.

Tournament Calendar

Ladies PGA

- | | | |
|------|------------|----------------------------------------------------|
| May | 10-13 | Women's Western Open, Montgomery, Ala. |
| | 17-20 | Muskogee (Okla.) Civitan Open |
| | 24-27 | Dallas Civitan Open |
| June | 1-3 | Babe Zaharias Open, Beaumont, Tex. |
| | 7-10 | Austin (Tex.) Civitan Open |
| | 15-17 | Cosmopolitan Open, Rockton, Ill. |
| | 21-24 | J. E. McAuliffe Memorial, Plainfield, N. J. |
| | 28-30 | USGA Women's Open, Dunes Club, Myrtle Beach, S. C. |
| July | 6-8 | Kelly Girl Open, Ellicott City Md. |
| | 12-15 | Milwaukee Jaycee Open |
| | 20-22 | Carling Eastern Open, Worcester, Mass. |
| Aug. | 2-5 | Waterloo (Ia.) Women's Open |
| | 10-12 | Heart of America Invitation, Kansas City, Mo. |
| | 17-19 | Albuquerque (N. M.) Swing Parade |
| | 23-26 | Salt Lake City Open |
| | 31-Sept. 3 | Spokane Open |

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Swinging Around Golf

(Continued from page 30)

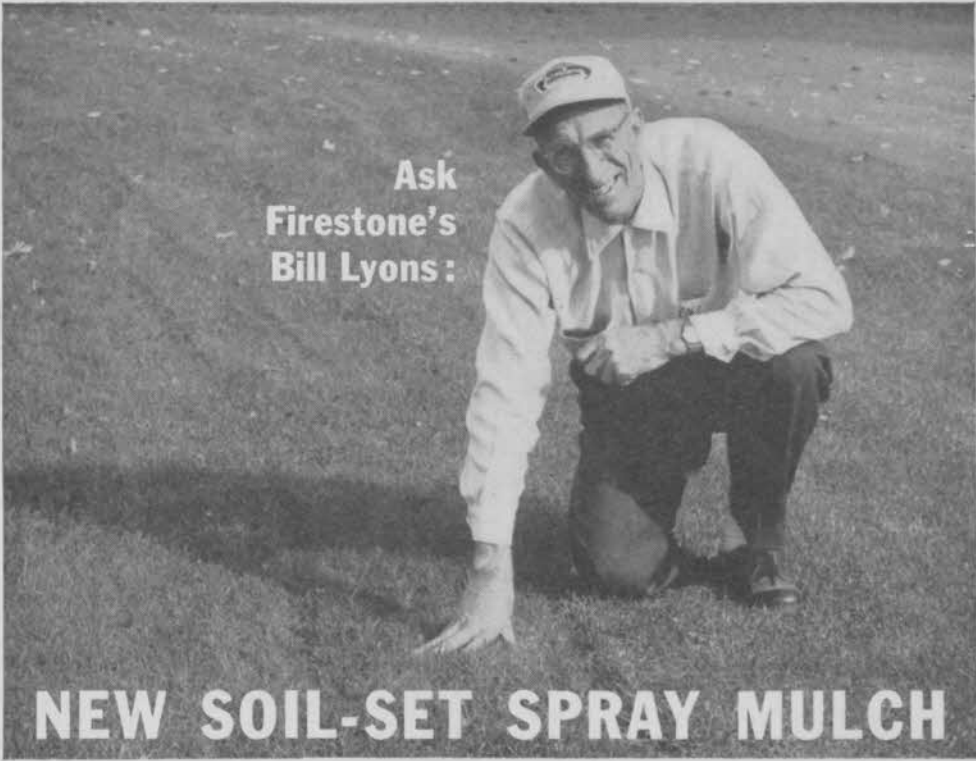
Rome . . . John Semo is supt . . . Carl S. Springer adding second 9 to his Valley View course at Akron, O.

Every time Doug Ford has swung a golf club in the "500" Festival Open, to be played in Indianapolis at the end of May, it has been worth \$32.73 to him . . . He has won the event two times . . . Florida Open to be played at Lehigh Acres GC, June 19-24 . . . Pete Cooper, the old Bermudagrass expert, has won this tourney six times since it was started in 1942 . . . New England supts. reported quite a bit of snowmold in the fairways this spring . . . Many of them removed snow and ice from greens during the winter and came through in good shape so far as the putting surfaces were concerned . . . Those who treated fairways also didn't have any complaints.

To add incentive to the Open trials, the Northern Calif. PGA is adding a \$1,500 pro-pro event to the qualifying round which will be played May 17 . . . Participants only have to go 18 holes to get a chance at the \$1,500 jackpot but to qualify for the Open, they have to play the 36-hole route . . . Mr. and Mrs. John Pedersen have taken over the management of Brae Loch CC in Gages Lake, Ill. . . . Their teenage sons gave them a lift with the remodeling work when they moved into the club . . . John Anselmo, pro at Antelope Valley CC in Palmdale, Calif., is writing an interesting series of instruction articles for the club magazine.

Virginia Poly Institute has tentatively set Sept. 5 as the date for its turf field day . . . First annual National Grassland field days and conference to be held Aug. 15-17 in Hershey, Pa. . . . Bob Nichols, who finished 36th on the 1961 PGA money list, was in fourth place among the money men following the Texas Open.

New York City Park Dept. to spend \$812,530 for clubhouse for two 9s being built in Marine Park, Brooklyn . . . Property owners in town of Whispering Hills, Fla., whose property faces golf course built as feature of development in Titusville area, concerned about what they think is threat of homes being built to shut off golf course view from present homes . . . John Brennan, Long Island golf writer, says N.Y. supreme court justice, Joseph Suozzi, wants to get a Little League golf program going for youngsters in neighborhood of Glen Cove,



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For the tournament and throughout the germination period the seeded areas looked good too. And Soil-Set eliminated the litter and extra labor of straw mulching!

Soil-Set can help put your club grounds and golf course in championship form, too. Find out how! Just ask Bill Lyons. Better yet, write today for a fact filled report on tests and actual case histories.



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N.Y. . . . Brennan adds that Junior golf is a reason for building proposed Glen Cove municipal course.

Sinking Valley CC, organized by golfers in Altoona and Tyrone, Pa., area, will have 18 designed by Edmund Ault . . . Diplomat Hotel at Hollywood, Fla., to add 18 hole conventional course to its present 18 and Par 3 . . . Plan to build 18 near White Rabbit restaurant, Wareham, Mass. . . . Kemper Van Landingham expects to have his Oak Ridge CC and residential development near Dania, Fla., completed in Nov. . . . Bob Turnau and Hans Schmeisser are building the course.

Carbon Canyon Properties, Inc., get OK of San Bernardino (Calif.) Planning Commission on plans for 18-hole course . . . Apartment houses and 9-hole course to be built at Denver by Werner Livingston, real estate developer . . . No apartment will be sold to a family whose head is younger than 50.

Asheville, N.C.'s "overcrowded" municipal course yielded a profit of \$8,000 in 1961 . . . City council is considering building second public course . . . New 18 of Springbrook G&CC, Athens, Tenn., to be completed this summer . . . Jones Beene is Springbrook pres. . . . Hamden, Conn., considering build 18 . . . Walter Page is Hamden Recreation Commission chmn.

Los Angeles' newest municipal course, 9-hole Penmar in Venice, opened . . . Valley Green CC opens first 9 at North Aurora, Ill. . . . R.C.A. Associates own the course . . . Robert Bruce Harris designed it . . . Bartlesville, Okla., to build its first municipal course . . . Bartlesville Jaycees are pushing the project . . . Bon-Air Corp. to build 9-hole lighted Par 3 near Covington, Ky. . . . Taylor Boyd is its architect.

Kenneth Harris, Everett, Wash., building Co., Pottsville, Pa., building 18 on Springhetti Hill, Snohomish, Wash. . . . Jaycees, Denton Ussery, pres., pushing for course at Blackville, S.C. . . . Break ground for municipal 18 at Hamilton, O. . . . Course to be in play by July, 1963 . . . Building 18 to plans of Robert Trent Jones adjoining Williamsburg (Va.) Inn.

Sawyerkill CC, Inc., to build course at Saugerties, N.Y. . . . Phoenix Contracting Co., Pottsville, Pa., building 18 in Upper Saucon township near Allentown, Pa. . . . Charles Parton building

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Golf Events

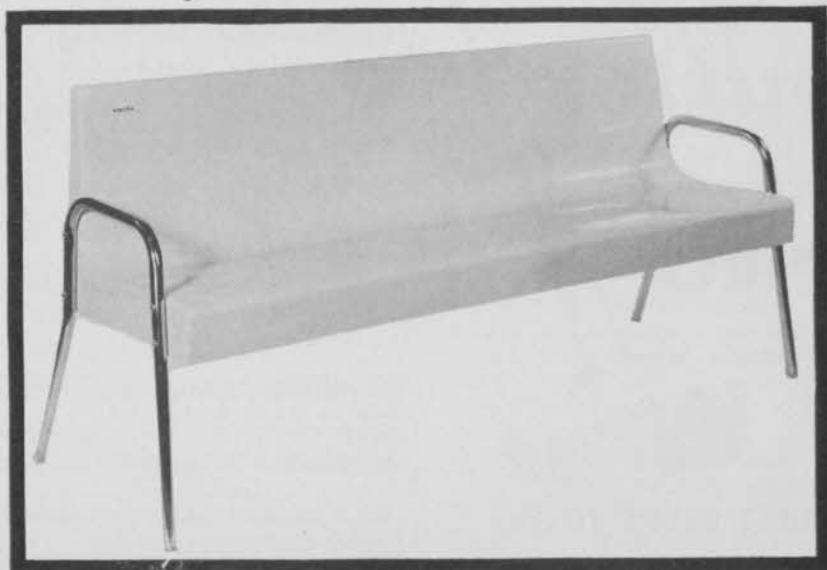
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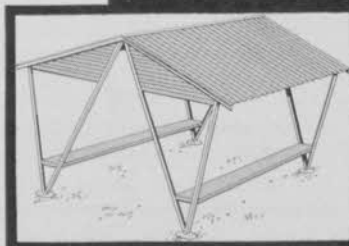


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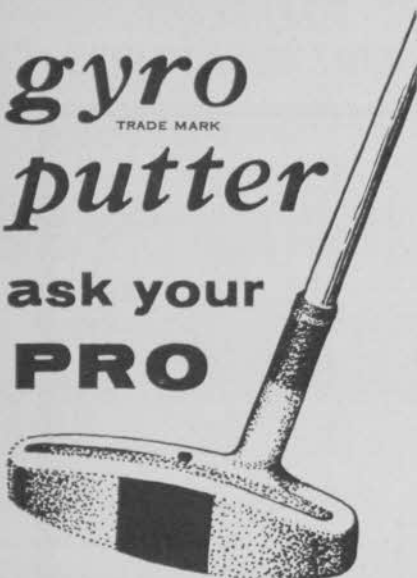
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course and clubhouse at Deerfield, Fla. . . . Grand Haven (Mich.) Elks, George Wessel, chmn., golf committee, to build 18.

Russel Zakariasen, Hopkins, Minn., building 9-hole course, ski and trout lake resort at Eden Prairie, Wis. . . . **Ray C. Clark, mgr., Eaton Springs Trout Club, Fremont, O.**, says club is building 9-hole course . . . **Pete Uzelac**, several times East Moline, Ill., city champion, is in group planning to build Mill Creek CC for Quad City golfers . . . **Hampton Hills, Inc., 8119 59th ave., N., Minneapolis**, planning to build an 18 semi-private in Plymouth Village.

Judge Harold S. Smith heads group to build Big Cypress G&CC near Naples, Fla., to plans of Wm. Diddle . . . **Angus A. Alberson, Albany, Ga., realtor**, planning new subdivision and 18 . . . **Tomahawk CC**, to be built near Welshfield in suburban Cleveland, O., by group headed by **Clements Zale, realtor . . . Ben Zink** is architect . . . **Battle Creek Golf Course, Inc., building 9** at Salem, Ore., selling \$125,000 first mortgage bonds . . . **Wm. G. Steveley** owns the corporation . . . **Raymond D. Buckwalter, Lititz, Pa., Stanley N. Silverman, Newark, N.J., and others building 18** and Holiday Inn motel nine miles northwest of Lancaster, Pa.

Riverview GC 18 near Bunola, Pa., to open soon . . . It is owned by Wm. Ford, 526 Monongahela ave., Glassport, Pa., and associates . . . **Jim Bennett** heads group planning to build 18-hole Lexington County CC near Columbia, S.C. . . . **Mark and Irwin Schuman, owners of Palm Springs (Calif.) Riviera**, plan to build Riviera East residential area, shopping center and 18-hole course . . . Open new 18 of **Chestnut Hills CC** (formerly Commonwealth CC) in Boston dist. . . . **Sam Mitchell** was the architect.

Twenty Nine Palms (Calif.) recreation district advisory board votes to accept proposal of **Eddy Field** and associates for building first 9 of proposed 18 . . . **K and A Corp., Waukesha, Wis.** plans to build 18 near Oakton Manor in Delafield, Wis. . . . **Moose Dunstan, Oakland, Calif. insurance man**, heads group planning to build 18 in Grass Valley near Lake Chabot . . . **Bob Graves** has prepared preliminary design for course.

Expect to open 9 of CC of Brown County, near Nashville, Ind., soon . . . Floyd Cox, Nashville druggist, is pres. . . . Talk about building municipal course