

Any number of additional subscriptions may be obtained, for members of the club only, at \$2.00 for the year 1922, when applied for by the Secretary of the club.

The Green Committee of the U. S. Golf Association is always glad to publish items showing how work around courses can best be done.

Back Numbers of the 1921 Bulletins

Only the July, August, September, October, November, and December numbers of the 1921 BULLETIN are now available. These may be obtained by member-clubs at 20 cents per copy.

Books and Bulletins for Reading and Reference

It will pay every golf club to have a small library of well-selected publications for the use of the green committee and the greenkeeper. We have, therefore, prepared the following list covering most of the topics that are of importance or interest in connection with a golf course. In addition to these publications, the catalogues and other advertising matter sent out by dealers and manufacturers are often very desirable for reference. In ordering a book always ask for the latest edition.

BOOKS

- MANUAL OF WEEDS. *Ada Georgia*. The Macmillan Co., 66 Fifth Ave., New York, N. Y. A popular, profusely illustrated treatment of the subject.
- FARM MANURES. *C. E. Thorne*. Orange Judd Co., 523 Plymouth Court, Chicago, Ill. An excellent book on manures and fertilizers.
- SOILS. *S. W. Fletcher*. Doubleday, Page & Co., Garden City, N. Y. A popular but thorough and practical treatise.
- SOIL MANAGEMENT. *King*. Orange Judd Co., 523 Plymouth Court, Chicago, Ill. A very useful and dependable book.
- CONSTRUCTION OF ROADS AND PAVEMENTS. *T. R. Agg*. McGraw-Hill Book Co., 370 Seventh Ave., New York, N. Y. A standard work on the subject.
- CONCRETE CONSTRUCTION FOR RURAL COMMUNITIES. *Seaton*. McGraw-Hill Book Co., 370 Seventh Ave., New York, N. Y.
- SEWERAGE AND SEWAGE DISPOSAL. *Metcalf and Eddy*. McGraw-Hill Book Co., 370 Seventh Ave., New York, N. Y.
- PRACTICAL FARM DRAINAGE. *Elliot*. John Wiley & Sons, 432 Fourth Ave., New York, N. Y.
- TEXTBOOK OF LAND DRAINAGE. *J. A. Jeffrey*. The Macmillan Co., 66 Fifth Ave., New York, N. Y.
- LANDSCAPE GARDENING. *F. A. Waugh*. Orange Judd Co., 523 Plymouth Court, Chicago, Ill.
- BIRD LIFE. *Frank Chapman*. D. Appleton & Co., 35 West 32d St., New York, N. Y.
- SOME ESSAYS ON GOLF COURSE ARCHITECTURE. *Colt and Alison*. Charles Scribner's Sons, 597 Fifth Ave., New York, N. Y.
- FARM MOTORS. *A. A. Potter*. McGraw-Hill Book Co., 370 Seventh Ave., New York, N. Y.
- FORAGE PLANTS AND THEIR CULTURE. *C. V. Piper*. The Macmillan Co., 66 Fifth Ave., New York, N. Y.
- APPLIED ENTOMOLOGY. *H. T. Fernald*. McGraw-Hill Book Co., 370 Seventh Ave., New York, N. Y.
- FARM MACHINERY AND FARM MOTORS. *Davidson and Chase*. Orange Judd

To correct a typographical error in the March BULLETIN, cut this line out and paste it over the seventh line in the second paragraph on page 88:

greens, the entrance or approach is called south, the back (which is usually

To correct an error in the March BULLETIN, cut this numeral out and paste it over the numeral 6,348,000 in the last line on page 90:

UNITED STATES DEPARTMENT OF AGRICULTURE PUBLICATIONS

*The following may be obtained free upon application to the
Department of Agriculture, Washington, D. C.*

- FARMERS' BULLETIN 338—MACADAM ROADS.
 FARMERS' BULLETIN 444—MOSQUITOES—REMEDIES AND PREVENTIVES.
 FARMERS' BULLETIN 493—ENGLISH SPARROW AS A PEST.
 FARMERS' BULLETIN 583—COMMON MOLE.
 FARMERS' BULLETIN 597—ROAD DRAG AND HOW USED.
 FARMERS' BULLETIN 600—BORING TAPROOTED STUMPS FOR BLASTING.
 FARMERS' BULLETIN 609—BIRD HOUSES AND HOW TO BUILD THEM.
 FARMERS' BULLETIN 621—HOW TO ATTRACT BIRDS IN NORTHEASTERN UNITED STATES.
- FARMERS' BULLETIN 660—WEEDS: HOW TO CONTROL THEM.
 FARMERS' BULLETIN 670—FIELD MICE.
 FARMERS' BULLETIN 701—BAGWORM: AN INJURIOUS SHADE TREE INSECT
 FARMERS' BULLETIN 702—RABBITS IN RELATION TO TREES AND CROPS.
 FARMERS' BULLETIN 708—LEOPARD MOTH; AN ENEMY OF SHADE TREES.
 FARMERS' BULLETIN 739—CUTWORMS AND THEIR CONTROL.
 FARMERS' BULLETIN 747—GRASSHOPPERS AND THEIR CONTROL.
 FARMERS' BULLETIN 750—ROSES FOR THE HOME.
 FARMERS' BULLETIN 752—ARMY WORM OR "GRASS WORM" CONTROL.
 FARMERS' BULLETIN 755—COMMON BIRDS OF SOUTHEASTERN UNITED STATES.
 FARMERS' BULLETIN 760—HOW TO ATTRACT BIRDS IN NORTHWESTERN UNITED STATES.
- FARMERS' BULLETIN 779—HOW TO SELECT A SOUND HORSE.
 FARMERS' BULLETIN 788—THE WINDBREAK AS A FARM ASSET.
 FARMERS' BULLETIN 799—CARBON DISULPHID AS AN INSECTICIDE.
 FARMERS' BULLETIN 805—DRAINAGE OF IRRIGATED LANDS.
 FARMERS' BULLETIN 814—BERMUDA GRASS.
 FARMERS' BULLETIN 832—TRAPPING MOLES.
 FARMERS' BULLETIN 844—HOW TO ATTRACT BIRDS IN MIDDLE ATLANTIC STATES.
- FARMERS' BULLETIN 851—THE HOUSE FLY.
 FARMERS' BULLETIN 864—PRACTICAL INFORMATION FOR BEGINNERS IN IRRIGATION.
- FARMERS' BULLETIN 912—HOW TO ATTRACT BIRDS IN EAST CENTRAL STATES.
 FARMERS' BULLETIN 932—RODENT PESTS OF THE FARM.
 FARMERS' BULLETIN 940—COMMON WHITE GRUBS.
 FARMERS' BULLETIN 945—ERADICATION OF BERMUDA GRASS.
 FARMERS' BULLETIN 974—CLEARING LAND.
 FARMERS' BULLETIN 978—BARNYARD MANURE IN EASTERN PENNSYLVANIA
 FARMERS' BULLETIN 994—COMMERCIAL BORDEAUX MIXTURES.
 FARMERS' BULLETIN 1002—CANADA THISTLE: METHODS OF ERADICATION.
 FARMERS' BULLETIN 1037—WHITE ANTS AS PESTS IN THE UNITED STATES.
 FARMERS' BULLETIN 1087—BEAUTIFYING THE FARMSTEAD.
 FARMERS' BULLETIN 1097—THE STABLE FLY.
 FARMERS' BULLETIN 1101—THE ARGENTINE ANT.
 FARMERS' BULLETIN 1123—GROWING AND PLANTING HARDWOOD SEEDLINGS
 FARMERS' BULLETIN 1130—CARPET GRASS.
 FARMERS' BULLETIN 1131—TILE TRENCHING MACHINERY.
 FARMERS' BULLETIN 1140—GRASSHOPPER CONTROL IN THE PACIFIC STATES.
 FARMERS' BULLETIN 1169—INSECTS INJURIOUS TO DECIDUOUS SHADE TREES AND THEIR CONTROL.
- FARMERS' BULLETIN 1170—MEADOWS FOR THE NORTHERN STATES.
 FARMERS' BULLETIN 1171—GROWING ANNUAL FLOWERING PLANTS.
 FARMERS' BULLETIN 1177—CARE AND IMPROVEMENT OF THE FARM WOODS.
 FARMERS' BULLETIN 1178—TREE SURGERY.
 FARMERS' BULLETIN 1208—TREES FOR TOWN AND CITY STREETS.
 FARMERS' BULLETIN 1247—AMERICAN MOLES.
 FARMERS' BULLETIN 1209—PLANTING AND CARE OF STREET TREES.
 FARMERS' BULLETIN 1227—SEWAGE AND SEWERAGE OF FARM HOMES.
 FARMERS' BULLETIN 1234—GULLIES—HOW TO CONTROL AND RECLAIM THEM
 FARMERS' BULLETIN 1239—COMMUNITY BIRD REFUGES.
 FARMERS' BULLETIN 1254—IMPORTANT CULTIVATED GRASSES.

The following may be purchased from the Superintendent of Documents, Washington, D. C.

- THE WOODLOT. FOREST SERVICE BULLETIN 42. 15 cents.
 SEEDS OF BLUEGRASSES, GERMINATION, GROWING, HANDLING, ADULTERATION, AND DESCRIPTION. PLANT INDUSTRY BULLETIN 84. 5 cents.
 AGRICULTURAL SPECIES OF BENT GRASSES. DEPARTMENT OF AGRICULTURE BULLETIN 692. 5 cents.
 IDENTIFICATION OF GRASSES BY THEIR VEGETATIVE CHARACTERS. DEPARTMENT OF AGRICULTURE BULLETIN 461. 5 cents.
 QUALITY AND VALUE OF IMPORTANT TYPES OF PEAT MATERIAL. DEPARTMENT OF AGRICULTURE BULLETIN 802. 10 cents.

MISCELLANEOUS PAMPHLETS FREE ON APPLICATION

- BULLETINS ON CONCRETE STRUCTURE. Portland Cement Association, 111 W. Washington St., Chicago, Ill.
 TILE DRAINAGE. SPECIAL BULLETIN 56. Michigan Agricultural College, East Lansing, Mich.
 CONCRETE ON THE FARM. Atlas Portland Cement Co., 134 S. La Salle St., Chicago, Ill.

Brown-Patch and the Bordeaux Treatment

LYMAN CARRIER

Greenkeepers are now having their first experience with plant diseases. If there is any truth in the statement that "misery likes company" there should be much consolation from the fact that fruit growers and gardeners have been forced to combat these pests for many years.

In nature there is a well-organized balance which keeps the face of the humid parts of the earth clothed in vegetation and peopled with animals big and little. When certain plants try to hog the earth there is always a remedy. Some bug or other enemy will step in and keep the obstreperous plant in its proper place. If this bug or other enemy gets puffed up with its own importance and develops porcine habits of "bug-land über alles," some bird or rodent will come along and deplete its population. Nature loves a mixture, plays no favorites, but rewards the fittest.

When man upsets the settled order of nature by attempting to grow one thing, and one thing only, he must give it protection from its natural enemies or there is going to be trouble. He may get along for a few years seemingly without a care, but sooner or later he will have to fight to protect his crop. Peaches, cotton, beets, beans, and potatoes in the good old days were grown without the depredations of a single serious pest. Now peaches have the jaundice and scale; cotton has its boll-weevil and pink boll-worm; beets, the crown rot; beans, anthracnose; and potatoes, bugs and blights. There is no use to bewail the fact and vainly wish for the care-free days. The grower must find the remedy and apply it. These remedial treatments should be considered as essential as plowing, harrowing, or harvesting, and be charged accordingly to the cost of growing the crop.

Brown-patch, a most troublesome plant disease, has come to match its power to spread and destroy fine turf against the greenkeeper's ability to prevent its ravages. This is the price that must be paid for extra fine turf. If golfers were satisfied with the mediocre results which