Interest is steadily mounting in the tough wear-resistant turf which is produced by the two species of Zoysia,—Zoysia japonica (Korean lawn grass) and Zoysia matrella (Manila grass). The first of these two species, having been found growing natively in Manchuria, is, as would be expected, sufficiently cold-resistant to survive the winters in parts of Michigan and Wisconsin. Its leaves, however, are so coarse that for golf course purposes it has not aroused the interest as has the second species, Zoysia matrella, even though this latter species is much less resistant to low temperatures.

Neither of the Zoysia species is native to the United States. Seed of Zoysia matrella was first sent in from Manila on August 8, 1911, by C. V. Piper of the Bureau of Plant Industry of the Department of Agriculture and experimental plantings were made at once at his recommendation in Florida. By 1912 his early notes on this first experimental planting stated that the grass showed unusual promise along the Gulf Coast and Atlantic Coast in Florida. By 1923 sufficient evidence had been accumulated by the Department of Agriculture to justify the following statement in the book by Drs. Piper and Oakley entitled, "Turf for Golf Courses"; "Manila grass is native to the Philippines and other places in the Malayan region. In Manila it makes a very fine and beautiful turf seen on the Luneta. In experimental trials along the Gulf Coast of the United States this grass has formed very beautiful plots of fine leaved turf, which remains green all winter. The texture of the turf would make it ideal for greens and there is hope this grass may be exactly what is desired for Gulf Coast and Florida courses." By 1933 the Department of Agriculture had sent vegetative stock to 9 of our southern and southwestern state experiment stations.

Since then the Green Section has continued its interest and faith in the potentialities of Zoysia matrella although little popular interest was aroused before the late 30's. Its toughness together with its drought resistance, its fine texture and its ability to grow under very low cut, all have indicated its very strong potentialities as a tee grass in climates in which it is winter hardy. Its wide scale use on the tees in Louisville, Ky., which tees received wide publicity last year in "Time" and other magazines, arose as a result of a shipment of a square foot of stolons by the Green Section to C. O. Bohne of that city in the spring of 1938. By the fall of 1939 he wrote that they anticipated having sufficient vegetative stock to plant 160,000 square feet in Zoysia matrella the following spring, from which stock of Zoysia matrella many of the tees in Louisville have since been sodded.

Weeds and Divots Reduced

Zoysia matrella produces a dense sod composed of tough stolons on the surface of the soil and innumerable tough roots below the surface, with the result that neither weeds nor divots are serious problems in established Zoysia sod. Its summer color is a rich green. It never produces a great deal of erect growth, not growing more than approximately 6 inches in height if left uncut throughout the entire season. It has been demonstrated to tolerate a putting green height of cut as far north as Milford, Conn. In the South it is acclaimed as perhaps the best shade grass available and its growing season is, if anything, a little longer than that of Bermuda grass. In the vicinity of the District of Columbia it has over-wintered very satisfactorily, although it becomes dormant much earlier in the fall than does the bluegrass and fescue and becomes green much later in the spring. Last fall the Green Section's Zoysia plots remained green until the third week in October, at which time a heavy frost caused most of the strains to go dormant immediately. Normally the Zoysia matrella does not become green before the latter part of April or early in May. The turf, however, remains wear-resistant even though straw colored instead of green. In addition to its short growing season there are two other disadvantages connected with the use of Zoysia matrella. One is that it does not readily produce seed in this country and we are not certain how easily turf could be obtained from seed if it were available. The other is the slowness with which turf is established from vegetative plantings.

It is usually stated that one must allow two years for the establishment of a solid turf from vegetative plantings. The Green Section, however, in 1944, using one 4-inch pot of Zoysia for each 16 square feet of turf, was successful in establishing a very satisfactory sod from many of its strains of Zoysia matrella within a period of 3½ months. This was accomplished by sprigging the Zoysia rather than planting it in 2-inch squares, as is frequently advised, and by adequately feeding and watering the new plantings. Although when once
MAKING YOUR WISHES COME TRUE...

One wish has been fulfilled. Won by 3½ years of deadly struggle. With God's help, we have prevailed.

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Golfdom

This is an official U. S. Treasury advertisement—prepared under auspices of Treasury Department and War Advertising Council
established, the Zoysia is a very drought-resistant grass, it is obvious that in order to initiate and accelerate good growth development it is wise to use water as consistently as when planting the bent or any other grasses vegetatively. In planning a nursery, therefore, it should be so located that water facilities are conveniently at hand.

For use on tees it will be necessary, because of the slow growth of the Zoysia to establish sod nurseries of it and subsequently sod the tees with the well established turf. In this way the grass is readily established on the tees and should be able at once to resist weed invasions as well as the wear and tear of the game.

The Green Section has selected and increased numerous strains of both species of Zoysia. Some of these are being increased in nursery rows this year in order that at least small amounts may be available to member clubs which are interested in experimenting with the potentialities of Zoysia under their conditions. It is to be hoped that, through breeding, the cold resistance of Zoysia japonica can be combined with the fine texture of Zoysia matrella. With this idea in mind, the Green Section has furnished vegetative material of both species to the Indiana and the New Jersey Agricultural Experiment Stations, at both of which institutions there are well trained men interested in the breeding of superior strains of turf grasses particularly for use on tees and fairways.—USGA Green Sections, Timely Turf Topics.

Ohio GA Stages Clinic and Tournament

* OHIO GOLF ASSN. held its first annual clinic and championship of club champions at Scioto CC, Columbus, Aug. 25-26 with good attendance of state golf presidents and club champions.

John B. Gillespie, pres., Ohio GA, at the clinic said that plans for expansion of the idea to have other club officials, pros, greenkeepers and managers at the next annual session already were taking form. One suggestion advanced was that club officials bring club financial statements for discussion and comparison. Harold B. Donley, Scioto pres., and Gillespie, a previous Scioto pres., paid tribute to their own club's department heads in endorsing the proposal that the clinic field be expanded to have the executive and operating officials of clubs of the state get together for an annual business session.

Harry Moffitt, pres., Ohio Section PGA, made an excellent presentation of the pros' collective effort to promote golf. Harry detailed difficulties in the pros' job of trying to get the public acquainted with the steady advance in golf instruction results. Moffitt explained considerable of the backstage operations and troubles of pros during wartime. Sharp drop in sales made it tough for many of the pros to get by.

Greenkeepers Work Appreciated

Evidence of considerable improvement in greenkeeper public relations was cited. The players could see how excellently courses had been maintained despite war conditions, and for the first time clearly realized what a task the greenkeepers were performing.

L. W. St. John, director of athletics of Ohio State university spoke on "Inter-collegiate Golf." Basing his opinions on the great growth of golf interest at Ohio State's 36-hole establishment St. John forecast a big place for the schools in golf's enlargement.

Emphasis on strictly business operations of municipal golf, with political pressure applied only to assure that golfers got efficiently run establishments without adding to taxpayers' loads, was said by Mayor James A. Rhodes of Columbus, to be the only acceptable policy for many golf these days. Rhodes can cite the Columbus public courses as first class examples of the application of this policy. He is a former caddie who still plays in the high seventies. In Ohio they're talking about the Rhodes business handling of Columbus civic problems and his personality as indicating he is destined for national political prominence.

The Mayor has taken personal interest in the muny course caddie situation as affording an opportunity for the citizenship training of kids. His references to the caddie matters stirred considerable discussion on caddie training and management. In some places high school coaches were engaged as caddie-masters for the summer. Several instances were cited of the caddie situation being better handled when pros' wives took over during the wartime absence of their husbands. Several golf club presidents spoke of the possible qualifications of women for caddie-master jobs at clubs where experience has not been satisfactory.

Golf Double by 1949?

Herb Graffis, GOLFDOM'S editor, spoke on "The Future of Golf." Graffis declared that estimates based on reports from army and navy sports authorities and industrial recreation executives, together with other data, pointed to the probability of the number of golfers being doubled by 1949. He said that if all of the nation's present 2,250,000 decided to play on one day there would not be enough courses for them. Daily total play capacity of all U. S. courses is less than 1,500,000. He referred to the plans and inquiries for new courses now receiving the attention of golf course architects as being more numerous than during the boom years of the twenties.
Business Opportunity

For sale or lease to responsible parties 18-hole golf course on 123 acres of land complete with club house, pro house and work shop. Adjacent to a city of 12,500 people. An excellent opportunity for the right form of management or ownership.

Address: P.O. Box 1581
SANFORD
FLORIDA

CLASSIFIED ADS

Locker-room Man and Bar Attendant—wants position. Last position seven years private club. Wife does office work, switchboard operator, gen'l office work and also clerk. Private club preferred. Address: Ad. Golfdom.

Wanted—Pro who considers himself good player and good teacher who can create activities among the golf membership. Or, pro-greenkeeper with same qualifications for 18 hole golf course in city of about 100,000 population. For good income. Box 148, Harrisburg, Pennsylvania.

Young experienced Professional desires club for 1946 season. Ex-Serviceman; married; excellent instructor. Possesses personality and enthusiasm. Prefers West or Midwest. Address: Ad. 906, % Golfdom.


Pro-Greenkeeper at present employed for the past eight years would like to make a change. Married; Age 41. A-1 credit rating. PGA member. Can take full charge and furnish references from present Board of Directors. Address: Ad. 920, % Golfdom.

For Sale—Three Toro hand green mowers with carriages and catchers, farm mower. Address: W. Green, Jr., E. Lake Rd., Auburn, N. Y.

Wanted—Pro-Manager from April to November. Must have A-1 references. South Shore Golf Club, Syracuse, Indiana.


Golf Pro desires position. Class A member PGA. 10 years experience. Sober and reliable. 32 years old. Address: Ad. 907, % Golfdom.

For Sale—Set of five gang Ideal Fairway Mowers, with frame, in good condition at $250.00. Also Ideal Power Greensmower and transport cart at $190.00. F.O.B. Holland, Mich. Write Lee Kleis, 39, married, thoroughly experienced in all departments of golf, desires position with golf club. Will also consider leasing of club for 1946. Can furnish best of references. Address: Ad. 911, % Golfdom.

Golf Professional available for next Spring PGA member, with 20 years experience in all departments of golf; married, no children, excellent credit rating, and can furnish best of references. Would like permanent connection with fine Country Club. Address: Ad. Golfdom.

Recently discharged Navy veteran, age 32, with 16 years experience of greenkeeping and professional golf, desires position with golf club. Will also consider leasing of club for 1946. Can furnish best of references. Address: Ad. 915, % Golfdom.

Golf Professional with excellent record and highest recommendations wants position for the winter months with club in Florida or in South. Age 41 and PGA member. Address: Ad. 901, % Golfdom.

Pro-greenkeeper—thirty-six years of age, desires Winter position in Florida. Best of references. Address: Ad. 902, % Golfdom.

Pro who has been handling two neighboring small club and defense and a large club. Finest record as instructor and business man in handling pro department to complete satisfaction of members. Married and with growing family which makes larger earning opportunity necessary. Alert, diligent and resourceful. This ambitious, competent young man will be a real asset to a good club. For full particulars write: Ad. 903, % Golfdom.

Manager of successful summer course in the Adirondack mountains desires large golf or country club November 1 to April 1. Not a professional but knows golf and golf club management. May also provide experience as greenkeeper. Address: Ad. 912, % Golfdom.

For Sale—9 hole golf course, central Wisconsin. Excellent condition; bent greens; clubhouse with new bar; tool house and good equipment. City of 12,000 pop. Address: Ad. 904, Golfdom.

Nationally-known pro-greenkeeper-manager, at present employed at club of 500 members, desires permanent change to club in south or Florida. Age 39, married, thoroughly experienced in all departments. Successful record in midwest, southwestern and Florida can consider any department or entire club. Clubs interested in first class teaching, greenkeeping, merchandising and administrative ability. Address: Ad. 911, % Golfdom.

Is your golf club in need of a doctor? If your course is run down, or due to poor management is on the rocks, here is a Pro and Greenkeeper with 32 years experience in every department of golf club operation, who can put your club on its feet. I am 46 years old, married, two children, and looking for a Florida or Southern Winter job where I have experience and results. Have had years of experience handling resort hotel golfers. Expert teacher and club manager. Write Wm. O. DeWitt, Pro-Mgr., Grand Hotel Club, Mackinac Island, Mich.


Wanted—Man to take charge of repair department in Detroit. Must be familiar with Jacobsen and Worthington equipment. In reply state in detail past experience. Address: Ad. 923, % Golfdom.
ROSEMAN, JR., HONORED — Lt. Joseph A. Roseman, jr., USN, son of the late president of the Roseman Tractor Mower Co., has been awarded the Navy and Marine Corps Medal for "heroic conduct performed in the face of great danger to himself" in rescuing two enlisted men from drowning.

CRABGRASS CONTROL — Paul E. Burdett, course supply dealer of Lombard, Ill., has been working with Chicago District greenkeepers on chemical weed control tests. Burdett reports particularly promising results in crabgrass control with Lawn Sinox.

FRAZAR & COMPANY TO HANDLE EXPORTS FOR R. J. EDERER CO.
* R. J. EDERER CO., Chicago, has appointed Frazar & Co., 50 Church St., New York, export agent in all foreign countries, with the exception of South and Central America.
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