Two Outstanding Bents

Finest Quality—cleaned and recleaned until brought up to the highest possible state of purity and germination, special care being given to the elimination of weed seeds.

Seaside Bent (Coos Co. Strain)

Packed in 50 lb. tin canisters, enclosed in strong wooden boxes.

This is a true strain of Agrostis palustris (formerly known as Agrostis maritima) which has produced some of the finest greens in America. Quick to grow and strongly creeping, it yields a closely matted bluish green turf of very uniform texture, similar in appearance to a fine vegetative turf. Obtain seed of known quality from a reliable source. This is especially advisable with Seaside Bent, the strains of which show considerable variation. Our seed is collected under the supervision of our personal representative.

Triple A Bent

Also packed in 50 lb. tin canisters, enclosed in strong wooden boxes.

( Note the 12-inch root growth on piece of Triple A Bent sod, as shown in picture on the right. )

Triple A Bent is a stoloniferous type of Agrostis capillaris which produces turf of the deep apple-green color and fine silk-like texture of Velvet Bent. The seed has been processed so thoroughly for the removal of weeds that it consists of over 99% pure seed. Triple A Bent is always outstanding at our trial grounds on account of its color and the fact that it is green earlier in the spring and later in the autumn than any other Bent.

Two Special Bent Formulas

Special Putting Green Bent Formula—Consists of imported and domestic grass seeds of the highest quality, that will produce a fine, uniform and enduring turf.

Superfine Fairway Formula (with Bent)—In addition to Bent, contains Kentucky Blue, Superfine Red Top and Chewing's N. Z. Fescue. We adapt it to your soil and climatic conditions.

Other Turf Producing Grasses

Grass Seeds of Known Quality

South German Bent Colonial Bent Chewing's N. Z. Fescue
Fancy Red Top Kentucky Blue Bermuda & Carpet Grass

Write for our Special Prices to Golf Clubs

Stump & Walter Co.

Specialists in Golf Grass Seeds, Fertilizers and Equipment

132-138 Church St. (at Warren St.) New York
The BLACK HAWK Super Power Golf Tractor

POWERFUL — SMOOTH — ECONOMICAL OPERATION

Internal Hardened Alloy steel gears mounted on Hyatt and Timken bearings running in bath of oil makes the BLACK HAWK tractor the outstanding tractor of today regardless of price. Sold under a 3-year guarantee. If your Distributor cannot supply you—write us direct.

ARPS CORPORATION, New Holstein, Wis.

Soils? Grasses? Insects? Diseases?

... find your solution to these and other problems of modern maintenance in

Golf Course Common Sense

By G. A. Farley

THIS valuable and practical guide to successful greenkeeping explains in detail, the methods of the country's foremost greenkeepers.

Partial Table of Contents

Soils, Fertilization and Growth.
Grasses, Fairways, Hazards.
Weeds and Diseases.
Equipment and Supplies.
Greenkeeping in the South.
Golf Course Trees.
Drainage and Water Systems.
Tees, Putting Greens.
Topdressing and Turf Repair.
Birds, Animals and Insects.
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Growing Choice Flowers.

The price, postpaid, $4.00

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Golfdom Welcomes this Latest and Greatest Golf Sprinkler

For Greens
Fairways
Parks
—all Big Sprinkling Jobs

Rain King
THE BEST SPRINKLER MADE

Model T—the only big sprinkler that distributes water evenly throughout the circle watered—on 20 lb. pressure, 60 feet—on 40 lb. pressure sprinkles circle 130 ft. in diameter and on 70 lb. pressure, 150 feet—never requires any adjustment—simplest of all sprinklers to use.

Golf supply distributors are invited to write for attractive proposition for exclusive territory.

SEE US AT THE SHOW
The Model T and the Rain King Quick Coupling Valve will be on display at Booth No. 32, National Greenkeepers' Ass'n Convention, Hotel Sherman.

—And this Better, More Convenient Lower Priced Rain King Quick Coupling Valve

With its patented quick coupling feature, requiring no pressure but simply a quarter turn of the removable top member. Unbreakable and only 2½ inches high when closed. Use it with any length nipple pipe. Positive in action and attractively priced. Write for full details.

Easily Installed on Pipe Lines—Flush with Surface of Ground.
Watered Fairways hold members and attract new ones.

To get new members—and to hold the ones you have today—*water your fairways!* The wisdom of this move has been proved dozens of times in the past few years.

To clubs planning this progressive step, Buckner equipment—and only Buckner equipment—offers these advantages:

- Definitely superior performance—with maximum efficiency and economy.
- Positive slow speed control—with even distribution of water.
- Satisfactory service over a long period of years—no gears, no delicate parts.
- Greater areas covered—minimum of outlets necessary.
- Sprinklers for every condition of golf course water supply and pressure.
- Highest endorsement from users.

*Write for full information. No obligation*

BUCKNER MANUFACTURING CO., Fresno, Calif.

Factory Representatives:
- P. L. Baldock, 2240 Casitas Street, Pasadena
- Gordon Buckner, Athens Athletic Club, Oakland
- Buckner Irrigation Co., 4970 Milwaukee Ave., Chicago, and Bayside, Long Island, N. Y.

Eastern Engineering Representative:
- Wendell P. Miller and Associates, Bayside, Long Island, N. Y.

Build From A Foundation

Turf cannot stand up under the abuse of heavy play unless the grass plants are fed the plant food elements which help to produce a vigorous root system as well as a thrifty top growth.

Either the lack of any one element or the feeding of an unbalanced ration may cause failure or unsatisfactory results. Armour's Special Turf Fertilizer is a properly balanced complete turf plant food that has produced excellent turf on many of the finest courses in the country.

It contains 10% quickly available nitrogen to produce a thick, carpet-like top growth, 8% available phosphoric acid for a strong, deep root system, and 6% available potash which gives the grass plants strength and vigor to withstand hard play and adverse weather conditions, as well as general resistance to disease.

Take the guess-work out of your fertilizer program and use Armour's Special Turf Fertilizer this spring.

ARMOUR'S SPECIAL TURF FERTILIZER

FOR

GOLF COURSES 
AVIATION—ATHLETIC 
FIELDS—PARKS

ARMOUR FERTILIZER WORKS
CHICAGO, ILL.

Golf Supply Houses—write us—your territory may be open
Three Reasons

SCOTT'S SEEDS

Cost No More

Careful Selection

—is the first important factor in keeping Scott quality high. Years of experience have taught us where to find the hardiest, purest stands of grasses of all kinds, thus eliminating costly waste. Many fields are grown and stripped under our direct supervision, such as this fine acreage of Kentucky Blue Grass.

Modern Recleaning

—requires fast, efficient equipment. Many of our time and money-saving methods are our own developments. Experts supervise each operation and test all seed for germination and cleanliness. Every pound must meet our own high standards. The result is purity as shown in this actual picture of our seed.

Direct Selling

—eliminates multiple profits. Nearly 1400 golf courses in 44 states and Canada buy from us. In addition, thousands of parks, cemeteries, athletic fields, institutions and home-owners are numbered among our customers. Specialization and large volume enable us to sell at no higher prices than are usually asked for ordinary seed of less certain quality.

WRITE, WIRE OR PHONE FOR PRICES ON:
Kentucky Blue Grass
Canada Blue Grass
Redtop
Chewing Fescue
Sheeps Fescue
Meadow Fescue
Bermuda Grass
Carpet Grass
Pacey's Rye Grass
Italian Rye Grass
White Clover
South German Bent
Colonial Bent
Astoria Creeping Bent
Seaside Creeping Bent
Poa Trivialis
Poa Annua
Creeping Bent Stolons
10-6-4 Turf Builder

O.M. SCOTT & SONS
COMPANY
MARYSVILLE
OHIO

OUR BOOK, "THE PUTTING GREEN." IS YOURS FOR THE ASKING. SEND TODAY.
Roseman Standard 5-Gang Mower
Reduced $155!

NOT a single Roseman Feature eliminated! In fact, quality has been improved! Here is an opportunity for your Club to obtain genuine Roseman Mowers at low cost.

For years Roseman has manufactured high quality mowers. They are famous for sturdy design and their exclusive roller drive and turf-building features. Although Roseman prices are usually higher than other mowers, operating costs are much lower. The result is always a saving to the user in total mowing costs over a few years’ time.

The new low prices will be effective beginning February 1.

Write today for complete details.

Approximately 98% of all Putting Greens are all cut by Roller Type Mowers, because they improve turf growth and Putting Green surface. They also eliminate separate rolling. The invention of Roseman Mowers gives your fairways the same turf-building benefits at no extra cost.

Alemite Forced Feed Lubricators.
Timken Tapered Roller Bearings on Cutter.
Hyatt British Tank Roller Bearings on Rear Axle.
GUARANTEED Non-Breakable Malleable Iron Side Frames. Gear Cover, Bed Knife Shoes, and Caster Wheel Forks.
Drop Forged Machine Cut Gears.
LIGHT ROLLER DRIVE, for better Traction and Turf Development.

ROSEMAN TRACTOR MOWER CO.
800 Davis St., Evanston, Ill.

11 W. 42nd St., New York, N. Y.
EASILY AND speedily, the annual meeting of the U. S. G. A. held at Biltmore hotel, January 7, presented the scorecard for the last of the two years of the administration of H. H. Ramsay and inducted into presidential office serious young Herbert Jacques of the Country Club of Brookline. Jacques, son of the president of the U. S. G. A. for two terms, 1909-10, is no acolyte in golf association affairs, as he was chairman of the Implements and Ball committee during the change in ball specifications, which was training camp plenty for anyone. Ramsay, commenting on the selection of Jacques as president to fill the place for which the late Bob Cutting was nominated, lauded the Brookliner's acquaintance with golf club and association problems, his capacity for work, his consideration for the wishes and needs of all golfers, and his devotion to the best interests of the game. The smiling Mr. Ramsay is a complete and convincing lauder. On Jacques his remarks echoed the judgment of every golfer who ever knew this scion of one of the earlier heads of the organization.

In his speech of acceptance, Jacques told that the association intended to maintain the Green Section service to golf to the fullest extent possible with a curtailed budget. The Midwest turf garden, which it was thought earlier would have to be abandoned, was retained as a Green Section help to the central territory.

Date of the Open at North Shore was advanced to June 8, 9 and 10, ahead of the hot weather experienced during the Open of recent years.

The part played by the professionals in no other sport does the professional come into such close contact with the amateur sportsman. Through golf shop services, lessons, as a playing companion and in his exhibitions of skill he makes possible the fullest enjoyment of the game to men, women and children, for which he naturally receives compensation. His business is to supply the needs of golf to the amateur.

The fundamental purposes for which the professional and the amateur play the game are so obvious that I am firmly of the opinion there is no place in the game for the individual who tries to straddle or encroach upon the field of either. If he cannot afford to play for recreation or to compete in tournaments, golf is never denied him, for he can earn an honest living in the respected vocation of a golf professional.

—Excerpt from address of Herbert Jaques, president, USGA.
Jacques emphasized as one of the strongest points in the game. He made sharply obvious the line between pros and amateurs and declared for fair but strict dealing with matters concerning the amateur status.

Report of the executive committee showed the association’s assets had slumped from the previous year’s report $29,828.94. Tournament expense was increased $6,141 from the 1931 item of $13,706.31, the Walker cup matches accounting for $2,982.87 and the Women’s International team matches for $6,239.95. Administration, general and committee expenses were reduced $5,076.61 from the previous year’s figure, $28,411.02. Green Section expense was cut from $47,032.82 to $37,499.36. Dues from member clubs fell about $5,000. Championship admissions income slumped approximately $5,000 to $15,967.75; the amateur championship share being $6,6647.75 and the Open’s U. S. G. A. piece being $9,320.

Membership of the U. S. G. A. now is at 1,138 clubs, a loss from last year so slight that it is an indication of clubs’ appreciation of the U. S. G. A. functioning.

The amateur status committee reported 8 players reinstated, 34 applications not ready for action and decision on 74 miscellaneous cases. Nothing outside of the usual matters concerning legality of newly invented clubs came before the implements and ball committee during the year.

The U. S. G. A. in conjunction with the R. & A. continues to work on clarification and simplification of the rules and reported progress as result of a meeting in London in March, 1932.

A record figure of 213 players at the Louisville Public Links section championship was reported. The 1933 championship was awarded to the Eastmoreland Municipal course, Portland, Ore., as recognition of the interest the Pacific Coast has taken in the public links championships.

In summarizing the energetic and valuable work of the Green Section during 1932, Chairman Ganson Depew brought out that nearly 1,000 attended the 13 sectional meetings conducted by the Green Section in association with sectional groups. Considering the limits of budget and personnel, the Green Section work during the past year was a magnificent achievement for times of financial stringency and turf troubles in abundance.

CLAude Jones, Memphis driving range pro, is a smart gent in getting publicity. Other fellows ought to take a tip from him. He broadcasts golf lessons daily at 4:45 p. m. and writes weekly golf instruction articles for the Memphis Press-Scimitar.
Records Plus Common Sense—showed me the way to 

CUT COURSE COSTS 

By HENRY McKEEN, JR.

A timely article which should be of particular interest in these times of necessary budget reduction. This paper was written while the author was vacationing in Corsica, and the quantity figures shown on fertilization chart are illustrative only, accurate figures being impossible in the absence of his records.

There are four major elements of cost in golf course maintenance: Labor, equipment, materials and supervision. And the last is the most important. It is hoped that the following exposition of proven plans for increased efficiency and decreased costs may be of help to harassed chairmen and greenkeepers.

IT IS POOR economy to seek cheap labor. An ignorant ditch-digger can ruin a $5,000.00 green in no time. Men who have worked on the course for some years, working up from odd-job labor, are money savers in the end, even though their hourly rate is higher than current unskilled wage. Besides their greater efficiency through familiarity with their work, a substantial saving in time and total wage can be effected if every working detail is planned ahead. Arrange in advance each man's work throughout the day with jobs routed so that each succeeding piece of work is nearby.

It is much more economical to load the gangs and tools on the trucks at 7 a.m. and take them to appointed tasks and to fetch them back again at night than to have ten men wasting a half hour daily tramping to and from their work. And it costs money to have three or four sitting idle after a job is done awaiting further orders. Plan ahead. Make one of each gang a sub-boss and furnish him with written instructions so there can be no misunderstanding. Have necessary materials on the spot the night before and all required tools right on the truck which takes the men to work. Additional saving in labor can be effected by the purchase and intelligent use of machinery.

Good Equipment Is Money Saver.

Not only can time and labor be saved but better work accomplished by the use of efficient machinery. There are many contrivances offered for sale, some worthless from the point of view of economy, others indispensable. Do not spend money on a machine until you are sure that it will not only do the work you want it to do, but do it more efficiently and more cheaply. A machine planned to do two men's work which takes three to operate is hardly a good investment. By careful experimentation in our club we found that an average of two men could be eliminated by the purchase and use of:

1. a tractor, which plows and harrows our soil nursery and furnishes power for
2. a tooth-belt high speed compost shredder
3. a hoist type lump-breaking rotary screen
4. a single-operator scoop for use in soil-nursery, bunker-digging and building tees and greens
5. a power-greens mower used for cutting greens aprons, banks and tees (we found our compact soil did not permit use on the greens themselves)
6. a greens-spiker for use with this power mower, which cut the average time of spiking greens from 2 hours to 20 minutes.

In summer we move our shredder and rotary screen out to the soil plot, and mix topdressing right on the spot in odd times, carting it to a covered shed for future use. In the fall, equipment is moved to the second floor of our barn, and a supply of dry materials delivered there. A hole in the floor under screen permits discharge directly to a storage bin on the ground floor, truck backing into bin for loading. Two men can prepare topdressing for 18 greens in one and a half days. By old hand screen-
You don't have to trust to memory if a fertilization chart like the above is carefully kept for each green.

ing methods it took four men five days to do the same work. By this arrangement and plan of storage it is possible in early spring to prepare sufficient dry topdressing for all needs, utilizing bad days when outside work is interrupted.

**Quantity Purchases Save.**

To buy materials economically one must know just how much is required for the whole season. A hundred pounds here and 50 pounds there at retail prices soon pushes up costs. To know what is needed requires careful records based on past experience. These records are sadly lacking in the average "small town" club. To buy at a guess means either a surplus to disintegrate in the barn until next season, or too little at small lot prices and a scramble to replenish when used up.

The fertilization schedule reproduced here accomplishes a double purpose. It is a key for the greenkeeper's activities and permits very easily an accurate total of all materials needed for the season to comply with the schedule. Our total greens area approximates 100,000 sq. ft. To give each green 5 lbs. of ammonium sulfate per 1,000 sq. ft. will therefore require 500 lbs. of this material. The greenkeeper has a chart giving the exact square footage of each green, and required amounts are mixed with the filler for each green, and bagged and labeled for each according to size. Figuring total required during season for greens, plus amount for banks, ap-

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### Table: Fertilization Schedule

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**Total for month**

| 30 | O | 40 | 0 | 1/2 | 27 |

**Brought forward**

| 75 | 102 | 40 | 25 | 0 | 2 | 14 |

**Total for year**

| 105 | 102 | 40 | 65 | 0 | 3/2 | 41 |

**pH Readings**

- 61 - 6.9
- 71 - 6.8

**Remarks**

Color and growth good

Weeded on 9/1 - 4 hrs.