

Subsequent waterings must be deep and thorough. Allow the grass to completely make use of the water before watering again. Know that light, frequent watering does more harm than good.

Mowing Height Varies.

Where mixtures of several kinds of seed are used, as in most fairways, the grass should not be mowed closer than 1 in. and preferably $1\frac{1}{4}$ ins. Shorter mowing with most grasses, has a tendency to restrict root development, thereby limiting the grass plant's power to resist drought. Where pure bent grasses are used, as on greens, the mower may be adjusted to cut to a height of $\frac{5}{8}$ to $\frac{3}{4}$ in. on the first cuttings. Later cuttings may be made at heights in keeping with the greenkeeper's ideas and the players' demands.

These rather detailed instructions may seem primary in character to the experienced course builder or greenkeeper but, notwithstanding, it has been my experiences in talking with many of them that they give little consideration to the basic foundation of soil and more attention to the immediate problem or need. This sort of action is uneconomic and is, in a measure, comparable to a man continuously patching his roof—which should be completely torn off and reshingled—and then finding, after the patching, that the roof still leaks.

Plan New Jersey Short Course for Mid-February

ANUAL SHORT COURSE in greenkeeping at Rutgers university, college of agriculture, New Brunswick, N. J., will be held February 18-23, 1935. Details of the course and its cost may be had on request from Prof. Frank G. Helyar, director of resident instruction.

Dr. Kellerman, Greens Expert, Dies at Washington, D. C.

DR. KARL FREDERIC KELLERMAN, chief of the division of plant disease eradication of the Dept. of Agriculture and one of the world's great plant pathologists, died following a brief illness, at Garfield hospital, Washington, D. C., August 30.

Dr. Kellerman was born in Gottingen, Germany, the son of Dr. W. A. Kellerman, late professor of botany at Ohio State university. He graduated from Cornell and after serving on Cornell's faculty a year

after graduation, entered government service.

He was a sound and interested counselor in USGA Green Section affairs from its inception and, for his interested service as chairman of the Section's research committee, the Section's active factors acknowledge a great debt to him.

Henry W. T. Dutton Takes Forest Hills at Augusta

HENRY W. T. DUTTON, famous operator of resort hotels in the north and south, and father of Henry Dutton, former secretary of the Club Managers Assn., has taken over operation of the Forest Hills hotel at Augusta, Ga. Dutton operates the Greylock hotel at Williamstown, Mass., during the summer season.

The Forest Hills will open for the season January 1. With Dutton at the helm, it probably will be headquarters for the pros during the Jones Tournament of the Masters.

Government Figures Show Big Slump in Sports Goods

BUREAU OF THE CENSUS, Department of Commerce recently released data on the government's biennial census of manufacturers taken in 1934 which shows that the total value of products made by establishments in the sporting goods field slumped from \$49,257,447 in 1931 to \$25,267,452 in 1933. Figures given are f.o.b. factory prices. These figures do not include firearms and ammunition or sporting clothing or footwear.

If golf maintained the 40 per cent share of total sporting goods business that it held when figures on the previous census were made public, the f.o.b. factory prices of golf goods in 1933 summed up to \$10,106,960. Figuring that the retail selling price of this merchandise in 1933 was slightly over \$20,000,000 and that pro retail sales in 1933 were approximately \$12,000,000 you have the picture of the pros' importance in the sporting goods retailing picture.

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