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SPORTS INTERNATIONAL P. O. BOX 356 . OAKLAND 4, CALIFORNIA by the need for these things are reviewed

at least every five years. However, a Michigan supt. at a 36-hole club, who prefers to remain anonymous, thinks that a course of this size should have a staff of at least 20 men. This is particularly true at clubs where members demand that tees be maintained as well as the greens are. This supt. would use part of a staff of this size in maintaining a large nursery because the need for replacement turf is becoming a very important one considering what is being required at first class clubs these days. A large part of an unlimited supply of funds, the Michigan man maintains, would go to increasing wages, providing uniforms for employees and giving them more benefits than they are now getting.

Whether or not the ideas explored by supts, here are more dream than reality is something that may be debated. How you look at it probably depends on whether you are on the supt. or club official side of the fence. But, at any rate, that green chmn, who uttered the remark that a greenmaster wouldn't know what to do with unlimited funds even if they were put in his hands, probably would think twice, after reading this article, before turning his own supt, loose with a bale

of currency.

185 Persons Attend **Ohio Turf Meeting**

By R. R. DAVIS Assoc. Prof. of Agronomy, Ohio Experiment Station

A total of 185 persons with a professional interest in turfgrass registered at the Ohio Lawn and Ornamental Day held at Wooster Experiment Station, Sept. 23-24. They included course supts., nursery and landscape men, cemetery and park supts., grounds supts. of institutions and indus-

tries and commercial supply reps.

The first morning program was devoted to on-the-site discussions of experimental work at the Station. R. R. Davis, in charge of turf research, discussed the performance of 18 bent and 17 bluegrass varieties under test. The best performing bentgrasses. he said, are Toronto, Penncross, Old Orchard and Cohansey. Merion is the best bluegrass variety under test. Experimental selections from Penn State and Washington State University appear to be about equal to Merion.

H. A. Runnels showed disease control plots and discussed results obtained with



many fungicides. Mercury chlorides, cadmium compounds, organic mercuries, an antibiotic and several mixtures of fungicides were effective on dollar spot, the most prominent disease of the area. J. B. Polivka, turf insect specialist at the Station, prepared an exhibit showing the life cycle of several turf insects and their control. According to Polivka, insecticides applied at the rate recommended for grubs will reduce earthworm population as much as 50% the first year, but in a year or two earthworms will be back to normal. A high rate of 100 lbs. per acre of actual chlordane will eliminate earthworms for several vears.

H. J. Mederski, soil fertility specialist, discussed a test to study nitrogen fertilization of Merion, Kentucky and red fescue. Ammonium nitrate, activated sewage sludge and urea-formaldehyde are forms of nitrogen used at several rates and times of application. Good results were obtained with all forms of nitrogen used properly. Merion blue has the highest and red fescue the lowest nitrogen requirement of the three grasses used. There was much interest in the crabgrass control studies discussed by D. D. Bondarenko, station weed

specialist. High summer rainfall in the area resulted in extremely heavy crabgrass infestation. Excellent control of it was obtained with Disodium methyl arsonate (DMA) and octyl-dodecyl ammonium methyl arsonate (AMA). Pre-emergence treatment with arsenicals gave good to fair control of crabgrass. The arsenicals are effective for more than one year.

Tree Selection

In the afternoon, L. C. Chadwick, Ohio State University floriculturist, gave an illustrated lecture on the selection of trees for courses and parks. He gave a big boost to a common plant, Sassafras. In his opinion, this seldom used plant has all of the qualifications for a good medium sized (30-40 ft.) tree for landscaping. R. R. Davis pointed out that grasses and mixtures should be selected to fit specific purposes. In many cases, a single grass may be better than mixtures that are usually used. "When using a mixture," says Davis "make sure there is nothing in it that will interfere with the basic grass you wish to dominate." For example, a small amount of bentgrass (10 per cent or less) in a mixture with bluegrass will eventually become all bentgrass.

October, 1958