Ever-increasing importance of technical know-how for those who are responsible for maintaining fine stands of turfgrass was evidenced this year by a record-breaking attendance at the 11th Annual Florida Turfgrass Management Conference August 27-29, at the University of Florida, Gainesville.

Sponsored by the Florida Turfgrass Association and the University of Florida's Agricultural Experiment Station and Department of Agriculture, the Conference attracted over 400 delegates from Florida and such widespread points as New York, California, Texas, and all the southern states.

Fields of interest represented this year included horticultural spraymen, lawn service and landscaping agencies, golf course, park and cemetery supervisors, and nurserymen.

During the general session, which featured turf insects, and throughout the professional discussion sections and tour of the turf research areas, every aspect of turf management and research was reviewed by speakers from across the country.

### Praise Growth Retardants

Jack Cabler, assistant ornamental horticulturist with the Florida Agricultural Extension Service, reviewed one of the most significant research studies being conducted by the Experiment Stations. Cabler said the use of growth retardants appears very promising. After several more years of testing, these compounds may be available for the homeowner. "It has also been found that growth retardants help grasses grow in shade," Cabler indicated.

Other recent research reveals that lawns fertilized with organic nitrogen are less susceptible to chinch bug damage than those fertilized with chemical nitrogen.

Dr. G. C. Horn, associate turf technologist, and Dr. W. L. Pritchett, soils technologist, both of the Florida Experiment Stations, explain that they believe grass treated with organic nitrogen is less susceptible to chinch bugs because organic fertilizers act more slowly than chemical fertilizers.


A new feature of the Conference was the "Industry Hour," in which representatives of leading chemical and fertilizer firms presented the latest information available on the use of their products in the field of turf. With 300 in attendance for this evening session, the popularity of this program was apparent and plans are to continue it, each year featuring a new aspect of turf interest, such as major equipment, soil amendments, etc.

At the annual meeting following the industry hour, Dr. Gene C. Nutter, Executive Director of the Golf Course Superintendents Association of America, was elected FT-GA President for the coming year. Elected to serve with him were James L. Blackledge, vice-president, Barco Inc., Lake Worth; and L. N. Clark, secretary-treasurer, Director of Parks and Recreation, Jacksonville Beach. Also elected as directors with a three-year term of office were Howard C. Bardsley, P. E. C.
WATERHYACINTH
(Eichhornia crassipes)

Waterhyacinth, a flowering, tropical aquatic weed, reproduces by vegetative offshoots from parent plants and by seed. This free-floating weed is found throughout the Gulf Coast region of southern United States where it spreads so rapidly that it clogs inland waterways and prevents navigation for commerce and recreation.

Waterhyacinth was introduced into the United States from South America sometime before 1884. First official account of waterhyacinth was at the New Orleans Cotton Exposition in that year. It bears the nickname of "Million Dollar Weed" in Florida, though cost of its control has long since passed that mark. It is also a pest in areas of California.

A somewhat oval leaf-blade with parallel veins is borne on the end of an inflated bladderlike petiole. It is this bladder which bouys up the plants. Many petioles grow outward in a rosette pattern from a central axis.

Six-petaled flowers are showy and vary in color from white to bluish hues. Many flowers are borne on a single flower stalk which emerges from the central axis. Many tiny seeds are produced, but only about 5% germinate. Enough seedlings may become established in shallow water, decaying vegetation, or on mud along shorelines to reinfest bodies of water from which all waterhyacinth plants have been eliminated.

Waterhyacinth has a densely fibrous root system which dangles in the water but may become attached to mud for a time during periods of low water.

Underwater rhizomes, submerged stemlike structures, are the major means of this weed's spread. After a lateral growth of about six inches away from a parent plant, the rhizome sprouts a new plant. Ten individual plants can cover an acre of water after ten months growth. Identification of leaves can be used when plants are not flowering.

Nyphaea's sparsely petaled flower will be yellow; Nymphaea's many-petaled flower will be white, rarely yellow, pink, or blue. After petals have dried and fallen, the globular seed receptacles will look alike on both species, so leaf venation identification again should be used.

Although Nymphaea is considered a true floating-leaf aquatic, some species of Nuphar are more erect. Stout petioles lift the arrow-shaped leaves out of the water.

Aquatic Weed Control
(from page W-17)

The aquatic plants previously discussed do not constitute all pest species encountered. At one time or another, any number of species may become sufficiently plentiful to be bothersome. This listing is intended to offer a brief cross section of the more troublesome species at present.

Chemicals for control of these plants will be dealt with in the second installment of this series, which appears next month. Equipment for application will appear in the final segment of this three-part article.