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When Writing to Advertisers Please Mention WEEDS AND TURF W-31
HSAF '63 Convention Program Like College Course in Its Diversity

Program plans for the Horticultural Spraymen's Association of Florida 1963 Convention promise delegates what nearly amounts to a distilled college course in turf maintenance.

Meeting for three lecture-and-panel-packed days Oct. 31-Nov. 2 at Orlando's Robert Meyer Motor Inn, HSAF members will hear noted authorities on such diverse subjects as lawn renovation, citrus spraying, growth retardants, and business management.

Also included on this year's program are the customary basic studies of importance to the membership. These include talks on chinch bugs, nematodes, diseases of ornamentals, common lawn insects, turf diseases, and weed control in established turf.

Field-oriented aspects of the program include an observation of lawn spraying, and an afternoon-long display of equipment, where suppliers will show off their latest machines.

To be repeated this year is the widely praised "panel of pros," in which selected experts who've appeared on the program will answer questions which delegates pose, either as a result of problems encountered by the sprayman in his business, or a question generated by some aspect of one of the lectures. This panel was extremely popular last year.

Of particular interest to some spraymen are the addresses on diagnosing lawn problems by Ralph White of Ousley Sod Co. in Pompano, and a session on fertilizers (organics vs. chemicals; liquids vs. dry) by industryman Charles Butterworth.

Talks on legislation, public relations, and advertising round out the offering for applicators who attend this fourth annual HSAF meeting. As in the past, the convention is open to interested applicators from all over the country. Last year, there were several non-Floridians in evidence.

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Meeting Dates


Horticultural Spraymen's Assn. of Florida Annual Convention, Robert Meyer Motor Inn, Orlando, Oct. 31-Nov. 2.

Annual Washington State Weed Conference, Chinook Hotel, Yakima, Wash., Nov. 4-5.

American Society of Agronomy Annual Meeting, Denver Hilton Hotel, Denver, Colo., Nov. 18-22.


Aquatic Weed Control Society Annual Meeting, Palmer House Hotel, Chicago, Ill., Feb. 11-12.

For information about registration or hotel facilities, write HSAF president Walter E. Ferguson, 2500 Ave. J, N.W., Winter Haven, Fla.

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KILLS NEMATODES AND CHINCH BUGS

V-C 13 is the ideal liquid product to use to protect turf from nematodes and chinch bugs. Nematodes are tiny, thread-like worms that attack grass roots and stunt or ruin growth. Fertilizer, water and good care are wasted when nematodes wreck grass roots. Chinch bugs are death on green grass. They actually suck the life out of grass stems. The grass turns yellow and then brown, as it dies. V-C 13 is a practical, easy way to destroy nematodes and chinch bugs. It provides powerful, long-lasting control of these destructive pests. And V-C 13 is safer to use, lower in toxicity than chlorinated hydrocarbon preparations. It's easy to keep grass green with V-C 13. Get it from your supplier or write to the address below for full information.

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401 East Main Street
Richmond 8, Virginia
Lawn Clippings Removal Studied

In a 3-year study of lawn management of Kentucky and Merion bluegrass, George A. Beach, horticulturist with Colorado State University, Fort Collins, concluded that although plots where clippings were removed were rated highest on appearance, the difference between ratings on removal and nonremoval was not statistically significant in most cases.

In the experiment, 12 lawn plots were checked each year for 3 years. "In 36 comparisons, 29 showed no significant difference in appearance whether clippings were removed or not," Beach revealed.

Plots were mowed often enough so that only 1/4 inch of blade was removed at each cutting to bring grass to the desired height, however, and if lawns are not cut this frequently, clippings would probably have to be removed for best appearance, Beach cautioned.

Removal or nonremoval of clippings also may depend on other management factors such as fertilization, Beach explained. "For example, if clippings are not removed and the grass is growing rapidly from fertilization, the abundance of dried clippings may damage the appearance somewhat."

WSA, AWCS Set Joint Session

For applicators who are interested in attending both the Weed Society of America Conference and the Aquatic Weed Control Society meeting in Chicago, Ill., next February, a joint session has been arranged.

Since the WSA meet is slated for Feb. 10-13 at Chicago's Pick Congress Hotel, and the AWCS will convene Feb. 11-12 at the Palmer House, this joint session has been scheduled to avoid some of the conflict of interests among delegates who wish to attend both meetings.

Program chairman for the AWCS is Dr. John Gallagher, Amchem Products, Inc., Ambler, Pa.; WSA secretary is Dr. G. C. Klingman, Crops Science Dept., N.C. State College, Raleigh, N.C. Those who want more details about either meeting should write directly to either Klingman or Gallagher.

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Save time... save money! Remarkable AERO-THATCH lays a seed bed... aerates... relieves compaction... all in one operation!

Follow the lead of the experts... the men who have to keep golf courses and other athletic turf-grass areas ready for play all the time! They use Aero-Thunk... Aero-Thunk, all at one time lays a seed bed... aerates and relieves compaction all at one time! And, the biggest news yet... you're ready for any ground use, minutes later. It's that terrific... that exciting a machine! Get all the facts now on fabulous Aero-Thunk... the wonder working ground care machine that's available at dealers from Coast to Coast. Contact your dealer now... or write for full details to:

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Rahway, N. J.
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, F. E. C.
Know Your Species

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 buoy's 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.

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.

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.

Aquatic Weed Control
(from page W-17)

single midrib vein on each leaf from which small lateral veins are given off. Overall venation may be obscured by the smooth fleshiness of leaves. Nuphar'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.

Fertilizer Co., Homestead; William Colburn, Superintendent of The Bay Hill Club, Orlando; and J. Leroy Fortner, Superior Fertilizer Company, Sarasota.

During the annual banquet on August 28, Cary Clark, turf management major at the University of Florida received the second FT-GA $500 scholarship.

Numerous awards were made at the banquet to Floridians who have played a prominent role in turf over the years. Foremost of the awards was the presentation to James E. Ousley, Sr., of Pompano Beach, an FT-GA Director and 1962 Trade Show Chairman, of the first FT-GA Award of Honor, in recognition of his meritorious service to the Florida turf industry.

Prepared in cooperation with Crops Research Division, Agricultural Research Service, United States Department of Agriculture, Beltsville, Maryland.
For fall application, order TRITAC™, the efficient weed killer

Use it now—when the fall rains can carry it down to the root zones.

TRITAC, a liquid, nonselective weed killer controls deep-rooted perennial weeds under a wide range of climatic conditions.

As little as four to eight gallons per acre of this powerful liquid herbicide will control bindweed, Canada thistle, leafy spurge, Russian knapweed—for a season or longer.

It is recommended for spraying along highways, fence rows and other noncrop land.

Two formulations. Regular TRITAC is for normal conditions and TRITAC-D, which contains 2,4-dichlorophenoxyacetic acid, is recommended when quick foliage top kill is desired. Both are available in one-, five- and 30-gallon containers through your distributor.

Technical help. Our agronomists will be glad to work with you on your weed-control plans. For technical data and name of your nearest distributor, please write Hooker Chemical Corporation, 410 Buffalo Avenue, Niagara Falls, New York, 14302.
These seven chemical formulations—developed by Amchem—can answer any or all of your customer needs in general vegetation and brush control. Amchem offers you both the products and the proved-in-use programs that enable you to operate a successful, repeat business as a contract applicator. You get quality you can count on, because at Amchem, weed and brush control is our only business.
Reach more pest control markets with these **Hudson** power sprayers

**Peerless power sprayer** cuts time-wasting stops for service and repairs. New Ten-O-Matic® pump has no gears, no sliding pistons, no connecting rods, no packing, no cups—almost nothing to wear, break or chip. Handles any sprayable materials at pump capacities up to 10 gallons per minute; pressures to 400 pounds. Available in 150, 200, and 300-gallon tanks with either stainless steel or Endurall® bonded liners.

**Peerless compact power sprayer** handles any sprayable materials with pressures up to 400 pounds and at five gallons per minute output. Compact size and three wheel design provides exceptional maneuverability; easy to move by hand into places other high output sprayers cannot go. Two-wheel and skid models in 50, 100, 150, and 200-gallon tanks with either stainless steel or Endurall® bonded liners. Also Matador® 15 to 100 gals.

**Porta-power spray pump** combines high output performance with unrestricted range in a moderately priced unit. Carry it on your pick-up truck; take it in a boat. Pump from barrels, tanks, or any other type of container. Positive piston pump handles all sprayable materials. Porta-power pumps are available in models with outputs of five gallons per minute at 400 pounds or three gallons per minute at 250 pounds.

**Schefenacker power mist sprayer** goes wherever you can walk or crawl; lets you penetrate areas inaccessible to any other type of power sprayer. Weighs only 32 lbs. (empty). Adjustable straps and padded, ventilated back make Schefenacker comfortable and easy to carry. Operating controls are in front at your fingertips. Two models: one for mist spraying only; the other for mist spraying, dusting, and wet dusting.

Be sure to see these Hudson power sprayers, plus our hand-operated sprayers and dusters at the National Pest Control Association Convention, Booth No. 5. Or, if you can’t make the show, write to us for complete product information.