The Cover

Airboats have proved their worth for aquatic weed control. In the Everglades they are the only practical means of transportation.

Spraying water hyacinths with diquat in a continuing test program is this unit of ARS, USDA, Fort Lauderdale, Fla. Operation is at the Loxahatchee National Wildlife Refuge, Delray Beach, Fla.

Three scientists plus 10 research technicians, aids, and secretaries keep this section of ARS operating. Biologist is Robert D. Blackburn. Dr. Lyle W. Weldon serves as weed scientist and Dr. Karry Steward is physiologist. Research hinges around chemical

(Continued on page 37)

--- WTT Mailbox ---

Dr. Chappell Speaks

I would like to take issue to a statement appearing in your WT&T Vol. 7 (4) on page 30 made in an article on spray drift. You stated that "They (esters) are likely to drift further than the amine form . . ." The basic ester or amine salt will drift equally far depending on the formulation, carrier, diluent and equipment used. The oil soluble amine formulations, in my opinion, and based on experimental applications, will drift as far or further than most ester formulations. Water soluble amine formulations usually result in larger droplets than emulsifiable esters and will drift less under a given set of conditions. I believe that you should limit the above quote to water soluble amines.

I enjoy your WT&T magazine, it contains a lot of good information.

W. E. Chappell

Professor of Plant Physiology
Virginia Polytechnic Institute
Blacksburg, Virginia

Features:

Efficiency Equation For Tree Crews
By Theodore J. Haskell

Golf Course Designed For Senior Citizens
Inland Water Management Creates Demand
For Aquatic Consultants
Seedling Response to Phosphorus
By Dr. George McVey
Sales Savvy Is Business Management Key
For Sod Producers Across the Country

Departments:

Editorial: Census Is Valuable Tool
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WEEDS TREES AND TURF is published monthly by The Harvest Publishing Company. Executive, editorial: 9800 Detroit Ave., Cleveland, Ohio 44102.

Single Copy Price: 50 cents for current issue; all back issues 75 cents each. Foreign $1.00.

Subscription Rates: U.S. and possessions, 1 year $7.00; 2 years $12.00. All other foreign subscriptions 1 year $10.00. Change of Address: Three weeks advance notice is necessary for change of address. Both old and new address must be given. Post Office will not forward copies. Controlled circulation postage paid at Fostoria, Ohio 44830

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FOR SALE

PRIME TREE SPRAYING business located in Westchester County, New York, established 20 years ago. Gross volume approximately $85,000 to $65,000 a year plus considerable tree surgery work that is referred to other companies in the area. There is more than $40,000 in equipment which ranges from office data processing machines to 600-gal. hydraulic spraying. This also includes a modern 2-way radio network with three licensed base stations. There is approximately a $5,000 inventory. The gross business is done in less than a seven-month period with a payroll of only $12,500. It nets well in five figures plus other valuable considerations for its owner. The asking price is $50,000, or we would consider selling the business and payroll of only $12,500. It nets well in five figures plus other valuable considerations for its owner. The asking price is $50,000, or we would consider selling the business and

HELP WANTED

BRANCH MANAGER: To run office in Central Michigan area. Must be capable and aggressive salesman in the entire tree and lawn care line. The opportunity is unlimited for the right man who wants to work with one of the largest tree companies in Michigan. Salary open. Box 33, Weeds, Trees & Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

FIELD SUPERVISOR Industrial Weed Control firm in eastern Pennsylvania is looking for a field supervisor. Degree in one of the agricultural sciences is desirable but not necessary. Write Box 30, Weeds, Trees & Turf, 9800 Detroit Ave., Cleveland, Ohio 44102.

The Cover

(from page 5)

control of aquatic weeds, biological controls, physiology of aquatic

ics, effects of herbicides on aquatic environment, and ecological studies. In this particular area of the Everglades they manage 78 aquatic weed research plots.

Boat pilot is C. Elroy Timmer and sprayman is Phil Sherman, both of the ARS contingent.

Insect Report

WTT's compilation of insect problems occurring in turfgrasses, trees, and ornamentals throughout the country.

Turf Insects

VARIEGATED CUTWORM

(Peridroma saucia)

Iowa: First moths of 1968 collected April 9 in Story County.

A SOD WEBWORM

(Crombus bonifatellus)

California: Adults heavy in lawns in Buellton, Santa Barbara County.

LESSER CLOVER LEAF WEEVIL

(Hydra nigrostris)

Nevada: Adults light in lawn in Fallon, Churchill County, for a new county record.

Insects of Ornamentals

AN APHID

(Aphis coreocephalis)

Maryland: Collected on privet at Chevy Chase, Montgomery County, June 8, 1966. This is a new county record.

BOXWOOD LEAF MINER

(Monarthropalpus buxi)

Virginia: Larval damage heavy to American boxwood in Fairfax County; leaves poorly developed. Tennessee: Larvae, pupae, and adults on boxwood in Knox County; 1-2 per leaf on most leaves.

FOR SALE

SPRAYERS, USED, all sizes and makes, at large savings. Send your requirements. Equipment Sales Co., 4742 Sunrise Highway, Massapequa Park, N. Y. 11762.

REBUILD RYAN Sod Cutters with or without cutoff. Sharon Welding Company, 11674 U. S. 42, Cincinnati, Ohio 45241.

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Felsild Chemical, Niagara Chemical Div., FMC Corp. 11

Hordar Arborist Supply 9

Hercules, Incorporated 4

Hooker Chemical Corp. 25

Hypox, Inc. 13

International Harvester Co. 20, 21

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SQUIRES SPIDER MITE

(Oligonychus umaquis)

Arizona: Heavy on Italian cypress, juniper, and arbor-vitae at Tucson, Pima County.

A PIT SCALE

(Cerococcus talmiae)

Ohio: Heavy on some azalea bushes in Lake County

Tree Insects

SMALLER EUROPEAN ELM BARK BEETLE

(Scolytus multistriatius)

Wisconsin: High mortality in dead elm logs near Mazomanie, Dane County.

ELM LEAF BEETLE

(Pyrhralta luteola)

Iowa: Adults active in homes in Sioux City, Woodbury County, and at Corydon. Wayne County. Wayne County is a new county record.

COLORADO: Adults active in many areas of State. Arizona: First instars and numerous egg masses on Chinese elm at Coolidge, Pinal County and at Tucson, Pima County.

SOUTHERN PINE BEETLE

(Dendroctonus frontalis)

Tennessee: Overwintering brood in loblolly and short-leaf pines; brood density and ratios of increase high in Anderson and Morgan Counties.

PINE NEEDLE SCALE

(Phenacaspia pinifoliata)

Washington: Viable eggs heavy under old scales on ponderosa pine in Kamiak Butte State Park, Whitman County.