

## Classifieds

When answering ads where box number only is given, please address as follows: Box number, c/o Weeds Trees and Turf, 1900 Euclid Avenue, Cleveland, Ohio 44115.

Rates: "Position Wanted" 5¢ per word, minimum \$2.00. All other classifications, 10¢ per word, minimum \$2.00. All classified ads must be received by Publisher the 10th of the month preceding publication date and be accompanied by cash or money order covering full payment.

### FOR SALE

1 **LXCA 60-GPM HARDIE** with 500-gal. tank, hose reel with approx. 300 ft. of hose. Self-powered with 6-cyl. Waukesha engine. Unit mounted on 1½-ton '57 Dodge. With or without truck, \$3,100.00. 1 **LXCA 60-GPM Hardie** with 1,000-gal. round tank. Self-powered with large 4 cyl. International UD-9 engine skid mounted. One hose reel unattached with unit. \$3,500.00. Fred Vallarelli, Northeast Spray Service, 4935 E. 1st Ave., Hialeah, Fla.

2-100 gal. **Hardie Towne & Country** sprayers, \$200.00. 1-50 gal. **Hardie Towne & Country** Sprayer, \$150.00. 1-100 gal. **Hudson Matador** sprayer, \$150.00. All on skids with 150-ft. ¾" hose. Azo Chemical Co., 715-9th St., N.E., Canton, Ohio.

**Weeds Trees and Turf  
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### McCulloch Introduces Self-Starting Chain Saw

The McCulloch Corp., Los Angeles, Calif., has recently introduced what it calls the world's first electric-starting chain saw. For the first time, according to McCulloch, a small, hand-held gasoline engine can be started electrically by a totally self-contained starter, generator, and battery.

The electric-starting MAC 3-10E chain saw weighs less than 15 lbs., and is designed for tree trimming, land clearing, and felling and bucking timber and pulpwood. Easy starting of the saw while the operator is working in a tree or other precarious location is an important safety factor, McCulloch explains. Electric-starting components are the starter-generator, integrated into the flywheel of the engine; the nickel-cadmium battery pack, contained in the handle of the

saw; and the solid state voltage regulator, concealed in the pistol grip.

Another feature of the MAC 3-10E is a de-stroking port, which the company claims enables the engine to be started with half the effort required for an ordinary engine. McCulloch Corp., 6101 W. Century Boulevard, Los Angeles, Calif. 90045, will provide further details on the electric-starting chain saw.

### Tree Disease Damage Spotted From Air

Infrared color photography is now being used to spot diseased trees from the air.

University of Minnesota researchers Merle Meyer and David French explain that infrared light waves are reflected by healthy, summer foliage as bright, raspberry red. Off color foliage appears blue to green on the film. The film picks up damage which the eye many times fails to spot.

Black spruce stands infected with dwarfmistletoe stand out as bright blue-green. Trees with Dutch elm disease and oak wilt have been spotted which defied detection at ground level.

Research is continuing, particularly to determine the best altitude for flights and the prime times of the year for detection. To date, flight levels of about one mile appear best and summer foliage must be photographed before changing color in the fall. The research also indicates that this type detection may be helpful in spotting crop diseases. Meyer reports that the technique was used to identify water levels and soil moisture at the Carlos Avery wildlife refuge in Minnesota last summer.

### Antibiotic Effect Possible

Suggestions have been made, according to Dr. Philip L. Rusden, plant pathologist at Bartlett Tree Research Laboratories, that mulches may produce an antibiotic effect on trees. They may help arrest certain diseases. Research is now underway by the Bartlett Lab to determine if this is the case.

## Advertisers

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### John Bean Introduces Two Ground Sprayers

The Royalette 1010, a general purpose grounds sprayer that features a 100-gal. tank with mechanical agitation, and the Trojan 2025 small estate and park sprayer, have joined the line of spray equipment from the John Bean Division, FMC Corp.

Royalette, intended for weed and pest control on turf and shade trees, is said to be a complete spray unit with PTO drive and is designed to be mounted on a Cushman Truckster or light truck bed. Chemical can be applied with hose and gun or with the three-section 15-ft. boom that has 10 in. nozzle spacing. A 10 g.p.m. positive displacement, plunger-type pump provides pressures up to 400 p.s.i.

Trojan, claimed to be ideal for spraying weeds, shrubs, trees, lawns, and mosquito-infested areas, has a 20-gal. porcelainized steel tank and a self-lubricating, fiberglass pump with only one moving part. Trojan delivers a constant spray of 3 g.p.m. at 60 p.s.i. and is also available with 10-gal. tank and with boom. Spray gun unit is equipped with 15 ft. of hose.

John Bean Division, Box 9490, Lansing, Mich. 48909, offers further data on these and other sprayers in its line.