

SOD PRODUCTION COSTS

(from page 47)

4. Variable supply expenditures which declined through the three smallest size groups and increased on the largest farms.

Under industry conditions which prevailed during 1968, farms with between 100 and 150 acres earned the maximum return to management from sale by the acre, \$64.12 over a two-year period. Farms with less than 100 acres incurred the highest

production costs and received the lowest price per acre which combined to yield the lowest per acre return to management, \$9.83, for a two-year period. □

References

²For a more complete analysis of labor requirements, see Fred T. Arnold and Billy V. Lessley, *The Commercial Turfgrass Industry in Maryland: Structure, Costs and Returns*, Maryland Agricultural Experiment Station Bulletin No. 488, University of Maryland, College Park, Maryland, 1972.

³George A. Stevens, *Farm Data Manual*, Department of Agricultural and Resource Economics Information Series No. 6, University of Maryland, College Park, Maryland, August 1970, p. 154.

Toro's Irrigation Division Releases 12-Minute Film

Brushstrokes, a 12-minute film that tells how automatic underground irrigation is enhancing man's environment, has just been released by the Irrigation Division of the Toro Company.

Filmed in California, the film is a dialogue between Courtland Paul, a landscape architect and Edwin J. Hunter, vice president and general manager of Toro's Irrigation Division.

Paul points out in the narrative that it has long been a tendency of man to waste or abuse nature's resources but that tendency now is opposed by growing forces demanding conservation and preservation.

Irrigation, he says, not only aids conservation but actually is capable of generating new resources by nurturing and sustaining plant life on once-barren land and in "jungles of asphalt, concrete and structure."

Advantages gained by advances in irrigation components and systems technology are described in the film. Extensive use of plastics, it is pointed out, eliminated unsightly and hazardous above-ground piping and led to such development as pop-up, pop-down valve-in-head sprinklers which facilitate mowing and discourage vandalism.

Paul points out that recent developments in automatic control devices have improved the effectiveness and efficiency of modern irrigation systems. Ideally, he suggests, an irrigation system should simulate a "soft rainfall" under controlled conditions in order to apply water to match soil conditions and prevent wasteful runoff.

Prints of the 16mm sound/color film are available on free loan from Toro to teaching institutions and professional organizations associated with the irrigation industry. For information concerning availability of prints, write: Irrigation Division, The Toro Company, P.O. Box 489, Riverside, Calif. 92502.

Int. Erosion Control Assn. Names George Harrison Pres.

George Harrison, Erosion Control Superintendent of Washington Tree Service, Seattle was recently named president of the International Erosion Control Association. The association objectives are to encourage research into new and more efficient methods of stabilizing soils and preventing erosion loss.

One Small MEDICAP ^{EQUALS} 4 Lbs. of "Chlorosis Mix" OR 2 Gal. of Foliar Spray

IRON MEDICAPS The Chlorosis Treatment that Really Works in Trees!!

FOR YEARS TREE EXPERTS HAVE ATTEMPTED TO CONTROL IRON CHLOROSIS WITH EXPENSIVE FOLIAR SPRAYS, OR BY APPLYING HIGH RATES OF "CHLOROSIS MIXES" TO THE SOIL . . . BASED ON RATES OF IRON MATERIALS NORMALLY RECOMMENDED—ONE IRON MEDICAP HAS SHOWN TO BE MORE EFFECTIVE THAN THE COMPARED RATES OF FOLIAR OR SOIL APPLIED IRON.

— WHY?? —

WHY IRON FOR TREES?—Iron as a micronutrient is essential to the formation of chlorophyll in all plants. A tree's inability to obtain iron will cause leaves to yellow and prematurely drop. If not corrected, these symptoms are followed by poor root development and eventual decline and loss of the tree.

WHY AREN'T SOIL AND FOLIAR APPLICATIONS ALWAYS EFFECTIVE?

If soil pH isn't nearly neutral, the iron in the soil (or applied to the soil) is not available to the tree. For example, in arid regions soil alkalinity sharply reduces iron availability. In extremely sandy or other well-drained soils, the iron cannot be retained in the soil solution. Heavy watering (such as in turf areas) further complicates the problem in both alkaline or well-drained soils.

Foliar applications, if effective, are usually temporary. Repeated spraying is required to maintain green foliage. If trees are in a state of decline, there is very little foliage present, thus less chance for "leaf absorption" of the material being sprayed.

WHY MEDICAP INJECTION?

MEDICAPS place the iron material right where it will go to work—directly into the sap stream of the tree! MEDICAPS cartridges are pre-measured, pre-packaged, and ready for implanting into the tree trunk. MEDICAPS injection is more efficient and more exacting. This is why they are normally more effective than soil or foliar applications. MEDICAP injection is fast and easy. The only equipment required is a drill and hammer. The patented design of the MEDICAP cartridge enables it to effectively seal the material inside the tree, yet allows the tree to quickly heal over the injection site.

TREE SYSTEMS

T.M.

MEDICAPS

- ★ TESTED BY LEADING UNIVERSITIES
- ★ PROVEN BY LEADING ARBORISTS

★ Two years of evaluating MEDICAPS by leading university researchers have shown the effectiveness of IRON MEDICAPS in correcting chlorosis, and the lasting control that they provide.

★ Leading arborists across the country have proven that Iron MEDICAPS are not only more effective than previous chlorosis remedies—BUT EQUALLY IMPORTANT, labor and application costs are sharply reduced. For example, a 5" DBH tree can be treated in less than ten minutes with only three STANDARD MEDICAPS (material cost is less than \$3.00 at retail value). NEW SUPER MEDICAPS provide even greater economy in treating trees above 12" DBH.

INJECT MEDICAPS NOW!

Even if you're in an area where trees are dormant, you can utilize "off season labor" to inject MEDICAPS now. The encapsulated MEDICAP "implants" will be ready to go to work when the tree sap moves upward.

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Our economical way to introduce you to IRON MEDICAPS. This new COMMERCIAL PACKAGE provides you:

80 STANDARD MEDICAPS

Sufficient to treat up to 27-5" DBH trees.

and

50 SUPER MEDICAPS

Sufficient to treat 8-12" DBH trees. Proper size and marked drill bits plus complete instructions included in every bulk commercial carton.

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U.S. Patent Pending

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