# NEW maneuverable



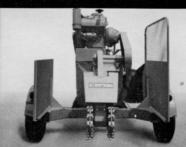
Cutter head, with 30" forward travel, reaches out for hard-to-get-at stumps. Low boom gives extra overhead clearance.



Cutter head boom maneuvers side-toside and up and down hydraulically. Cutting speed rate is controllable.



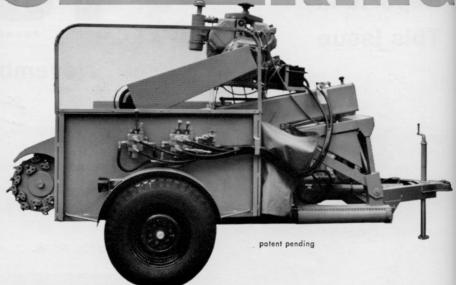
Twice the tooth life reported by owners due to special tooth holder design to give back up for tooth shank.



Fixed travelling wheels need no adjustment before starting the cutting operation. Back up to stump and start cutting.

## extraordinary cost cutter!

# STUMPKING



# cuts stumps 24" deep—even in hard-to-reach spots that are "off limits" to ordinary cutters

Meet the world's most efficient stump cutter. Unique extendable and 3-way maneuverable cutter head gets at stumps even in tight, congested places; in corners, close to walls, buildings, trees, and under overhead obstacles.

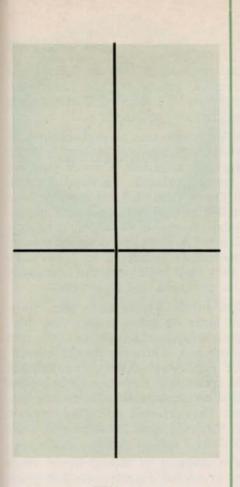
High-torque twin cutter slashes up to 60" wide stumps to a mulch in a matter of minutes. Safe and easy to operate, only STUMPKING offers so many time and labor saving features:

- All engine and operating controls are on operator's side of machine.
- Dry type Rockford clutch enables operator to declutch cutter head for positive control.

- "Live Hydraulics" permits moving components even while cutter head is stopped.
- "Dial a Stump" control permits matching rate of cutter head feed to toughness of stump.
- New protective screening gives operator greater vision and protection.
- New close coupled trailer arrangement adds to strength and stability while cutting.
- Electric brakes and low center of gravity design make for fast, safe transport.
- Powerful 36 HP gasoline engine.







# The Plot Thickens

All over America, grass grows thicker in experimental plots designed to discover better chemicals for turf management. Now you, as a turf professional, can keep up with all that's new in turf developments through the pages of this magazine. If you're not getting WTT every month, or if you have to borrow a copy from a colleague, why not subscribe now? One year, \$3; two years, \$5.

| WEEDS TREES AND TURF   |
|--|
| 1900 Euclid Avenue   |
| Cleveland, Ohio 44115  |
| Gentlemen: Please send me my own<br>copy of WEEDS TREES AND TURF. My<br>check is enclosed! |
| Name   |
| Address  |

City ...

State ..

# FORMERLY WEEDS AND TURF

November 1965 Volume 4, No. 11

| Features:                                |
|--|
| How to Sell Zoned Trees By H. W. Gilbert |
| Departments:                             |
| Editorial: Look the Part                 |
| Meeting Dates                            |

JAMES A. NELSON Editor and Publisher

DONOVAN E. HENDRICKS Staff Biologist

> MICHAEL I. LAH, JR. **Production Manager**

D. BUNKIN Circulation Supervisor

**Advertising Representatives** National Headquarters 1900 Euclid Avenue Cleveland, Ohio 44115 Phone: Area Code 216+771-4169

Chicago 60601 Peck & Billingslea, Inc. 185 North Wabash Ave., Suite 1809 Phone: 312+DEarborn 2-0292-93

> New York City 10017 Billingslea & Ficke **420 Lexington Avenue** Phone: 212+532-1632

WEEDS TREES AND TURF is published monthly by Trade Magazines, Inc. Executive, editorial, and advertising offices: 1900 Euclid Ave., Cleveland, Ohio 44115. Publication office: Corner of East North St. and Cadwallader St., Fostoria, Ohio. Send all correspondence to WEEDS TREES AND TURF, 1900 Euclid Ave., Cleveland, Ohio 44115.

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 \$3.00; 2 years \$5.00. All other foreign subscriptions, 1 year \$4.00; 2 years \$7.00. 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. Third Class postage is paid at Fostoria, Ohio.

Contents of this Issue @ Trade Magazines, Inc., 1965

### ONE-MAN HYDRAULIC CRANE

Gives One Man the Strength of 10!



1500-Lb. Capacity

\$119.50

2500-Lb. Capacity

\$169.50

BOTH COMPLETE WITH TRUCK MOUNT AND 6' CHAIN.

Equipped with adjustable nylon sling ideal Crane easily hoists balled trees onto truck.

Ideal Crane is portable. Place it on the truck, loading platform, or warehouse dolly ... wherever it is needed. Pipe bases stationed at several loading points all use the same crane!

Many accessories available. Sold on a Guaranteed Performance Basis! Hundreds now in use throughout U.S. and Canada.

If check accompanies order we pay freight to your door.

Call collect to place your order.

### IDEAL CRANE

A Division of Bert Parkhurst & Co.

15051 East Admiral Pl.

Tulsa 18, Okla.

Telephone: 918 + GE-7-3313

# Keep Your Weeds Trees and Turf magazines

In specially designed

### **Permanent Binders**

Helps You Keep 24 Full Issues of Weeds Trees and Turf In One Neat Package

- Keeps back numbers handy for quick reference
- Protects issues from needless damage. Holds 24 issues.
- Gives your bookshelf a neat appearance

Magazines can be inserted as they are received

-Still Just \$3.25

Please send check or money order to

#### WEEDS TREES AND TURF

1900 Euclid Ave.

Cleveland, Ohio 44115

### Look the Part

This is a touchy subject. No one likes to be told he isn't "dressed" properly. Yet if his appearance adversely affects his livelihood, a friend needs to tell him how he looks to others.

It's not without reason that several speakers on recent conference programs have spoken about the importance of public relations in every phase of the contract spray business. Portland, Oregon sprayman Bill Owen reminded his coworkers at one meeting a few months ago that their unconscious day-to-day business practices constitute their public image. A chemical supplier pointed out that the success or failure of an applicator's business may very well begin with the impression he makes on his prospects and customers.

On several of our field trips we've seen cheap, hastily painted signs on spray trucks that don't do justice to the education and training of the men who own the vehicles. Ofttimes they're covered with weeks of dirt. And then we've watched unshaven field crews in dirty, sloppy old clothes spraying in fine neighborhoods. There are contractors' offices that haven't seen a broom in months; their windows need washing and their outsides could stand a coat of paint.

Before we're accused of living in an ivory tower, we want to remind the relatively few guilty of such practices that it doesn't take a lot of money to make a good impression. A boy can be hired to wash trucks regularly if your own men don't have time to do it. An equitable arrangement can be made to outfit crews in clean, neatly lettered coveralls or uniforms. A professionally executed sign doesn't cost much more than one done by an amateur. By ignoring these things, CAs prevent their own reputations from rising and put the entire industry in bad light.

An investment in the appearance of office and service buildings, of service crews and the equipment they use is just as important as any other sales expense. Self appearance, personal behavior, speech, telephone techniques, carefully typed letters on attractive stationery, courtesy . . . all are part of the total opinion outsiders have of the companies they want to deal with. The impression you make helps build business as effectively, and perhaps more so, than any other type of advertising. Public acceptance of the increasing technical knowledge spraymen have can only be realized if they'll look the part.

WEEDS TREES AND TURF is the national monthly magazine of urban/industrial vegetation maintenance, including turf management, weed and brush control, and tree care. Readers include "contract applicators," arborists, nurserymen, and supervisory personnel with highway departments, railways, utilities, golf courses, and similar areas where vegetation must be enhanced or controlled. While the editors welcome contributions by qualified freelance writers, unsolicited manuscripts, unaccompanied by stamped, self-addressed envelopes, cannot be returned.

Coming in December!

# Suppliers:

The Perfect Place to Advertise Your
Weed, Turf, and Tree Market Products
Reserve Space Now in the

1966

# Suppliers Guide

To Appear in the December '65 Issue of WEEDS TREES AND TURF

1. Boldface Listings. Suppliers using advertisements in this issue will be listed in boldface type in the directory under all categories of products the advertiser supplies. Your name stands out when readers refer to this handy directory which applicators use all year round!

2. Reader Reply Card. Bound into every December issue will be a Reader Reply Card. All readers have to do to get more information on advertised products is check off the advertiser's name and send the postage-paid card to us. We forward neatly typed lists of inquiries.

3. Repeat Readership. In the 1966
WTT Suppliers Guide, we have
a complete catalog of weed, turf, and
tree maintenance chemicals and
equipment. Whenever readers are
seeking a source of supply, this handy
reference book offers them the easiest way to find it.



Bonus for Advertisers: 1. Bold Face Listings

2. Reader Reply Card 3. Repeat Readership

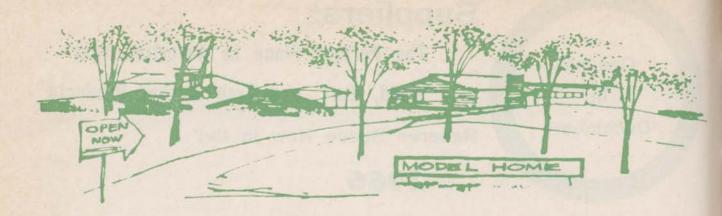
LISTED in the 1966 WEEDS TREES AND TURF Suppliers Guide, readers will find all chemicals and equipment used for weed and brush control, turf management, and tree maintenance. Included are such chemicals as herbicides, insecticides for turf and trees, fungicides, and fertilizers, among others. Equipment listings include such items as power sprayers, vertical mowers, trimming and pruning tools, chippers, and many others. This is the only Suppliers Guide compiled annually for the entire vegetation maintenance and control industry in America.

CLOSING DATE NOVEMBER 10th Circulation
Over 10.000

Reserve Space today!

WEEDS TREES and TURF

Phone 216 + 771-4169 1900 Euclid Ave., Cleveland, Ohio 44115



# How to Sell Zoned Trees

By H. W. GILBERT

Extension Horticulturist, Landscape Architect Purdue University, Lafayette, Indiana

CELL TREES in locations that fit problems of the owner of a new home that needs trees. The purpose is to use a few trees that are fundamental to a good landscape plan. Such a plan can be completed after three or four trees are properly chosen, located and planted. These I have chosen to call "primary trees." The majority of new homes are built on lots without trees. Every homeowner desires trees. However, most trees do not have enough shade to enjoy for about ten years after planting.

Homeowners develop their grounds in many ways. For example; a small percentage complete a landscape design for their place in one planting season. Of this group some do it all with young plants. A larger number use some small and some sizeable

shrubs.

No doubt the largest number do a little at a time over a fiveto ten-year period.

However, it appears that the percentage of homeowners in the low and medium income levels that plant trees of 3" caliber or larger is very small.

From experience and observation trees 6'-8' tall or smaller have a growth rate that makes them competitive with a 2"-3" caliber tree.

Any of these approaches may

be taken to sell. Each family and each landscape opportunity is different.

In landscape design, trees are the largest and most important woody plant element. In addition to shade they provide some protection. Artistically trees are used to frame and give background for the dwelling. They provide interesting shadows and appeal to the human senses of sight, sound, touch, and sometimes taste.

One always enjoys seeing a completely landscaped home grounds that is not overdone. The average homeowner would like to have this kind of environment.

Too many times one sees shrubs about the house that are overgrown or artistically out of scale. In the same yard the trees may be too small to be in scale; to provide shade, background, and framing for the dwelling.

Professionally we should help the owner select the kind and size of tree; perhaps more important the minimum number that will do the job.

#### Tree "Zoning"

We are familiar with the term "zoning" as it relates to urban problems. I suggest that home grounds can be zoned into areas for trees. Some points that can

be used to determine "tree zones" on the home grounds are:

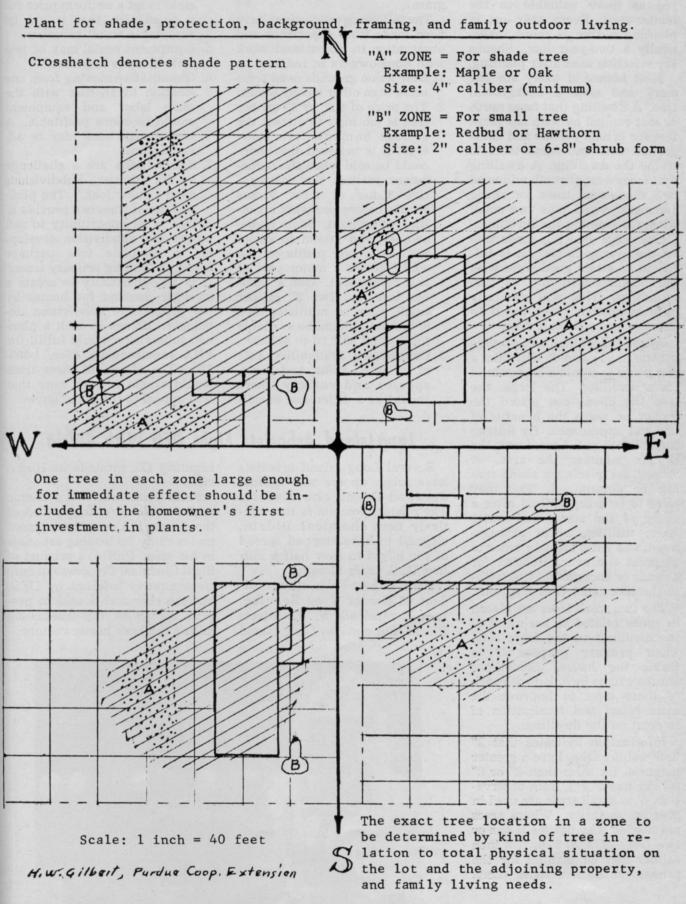
- 1. Estimate that half or less of average home lots need more than one large type tree.
- Shade on the dwelling is desirable in summer.
- 3. Shade outside the dwelling is desirable for comfort and beauty.
- 4. The view of the dwelling should be framed.
- Sewage, water, and utility lines should not have interference from trees.
- Shade is desirable immediately.
- 7. The cost to the homeowner must be compatible with other expenses he must meet in the early stages of home and home grounds development.

#### The Selling Approach

The selling approach is simple and direct: A total landscape is more desirable than over-expenditure for shrubs across the front of the dwelling. It might include one large tree, not less than 3" or 4" caliber at 6" above the ground, or 5", 6", 7", or 8" caliber at 1 ft. above ground, and two small trees 6'-8' tall, single stem or multiple stem. If the house faces south or west, two large trees may be required (See diagram).

Examples of large trees are sugar maple, pin oak. Examples

# ZONES FOR 3 OR 4 PRIMARY TREES For Bar-Lot 100' x 150.' One Story House.



of small trees are redbud, hawthorn, crabapple and dogwood.

If there are insufficient funds to do both tree and shrub plantings, the trees should be preferred as more valuable to the homeowner. Every year lost in planting a tree is more realistically a two-year loss. Shrubs are effective soon after planting.

Most homes of today are one story and need a background tree. A dwelling that faces north or east can get by with one large tree for primary shade and background with two small trees to frame the dwelling. A dwelling that faces west or south will need two shade-type trees for shade and background plus two small trees for framing the dwelling.

One large growing shade tree on the average home lot is sufficient to attain good scale with the neighborhood and its surroundings. This will generally provide enough space for it to develop into a shapely tree.

A tree 15 feet high will provide a little shade and it will take a few years to create a background for a dwelling. The larger the tree the client can afford the sooner he reaps the benefits of use and appearance. By following the path of the sun across the sky in summer the area, or "zone," for placing a shade tree can be determined. This may have to be compromised after a study of the sewer and water lines, utilities, room arrangement, and patio areas in order to pinpoint the exact location for a shade or background tree within the tree zone, (See diagram).

The two small trees are placed in zones related to each end of the dwelling on the front side. Their primary purpose is to frame the house. Sometimes shrubs will be included with each of these trees to improve the mass effect and focalization of interest on the dwelling.

Information indicates that 3" to 5" caliber trees have a greater potential for sales than 6" or 8" caliber trees. Yet, from observation, 6' to 8' tall trees are used in greatest quantity. Where trees are needed why not see if one or two trees of 3, 4, 5, 6, 7, 8 inch caliber can be planted for the primary shade tree zones (Zone

A) on the home grounds? Along with this, two small trees (Zone B) to frame the house will be a big step toward good design of the home grounds (See diagram).

The following conclusions have been made from experience and observation in educational work with homeowners in Indiana.

- 1. New home grounds need trees more than other woody plants.
- 2. The price of a 6" or 8" caliber tree is too high to attract the average homeowner. However, it is believed that more could be sold when the homeowner realizes the comparative value of trees versus shrubs before he makes his initial investment. Some homeowners who intend to spend \$500 on woody plants can be sold trees as a major part of this investment. One 4" caliber tree and two 2" caliber small trees, or multistemmed 6' to 8' tall, should be available for around \$235.00 to \$275.00.
- Considering availability, rate of growth, habit and form, species and variety, there should be a difference in sell-

- ing price for the same caliber of tree.
- 4. The many variations in conditions and contingencies that must be met make it impossible to set a uniform price for a given tree that would be acceptable to all arborists.
- 5. Equipment rental may be feasible in some localities.
- Quantitative moving from one location to another with the same labor and equipment would be more profitable. A tree storage bank may be advantageous.
- 7. Subdivisions are a challenge to the arborist. Subdivisions need a "new look." The planned use of trees can provide it.

This is an opportunity to sell progressive subdivision developers a complete tree package based on "zoning primary trees." It is an opportunity to create a stronger demand for homes by the progressive subdivision developer. Homes in such a planned subdivision would fulfill the FHA requirements (Sec. 1-208-2.2). The effects of these trees would create a fresh note that will appeal to the home buyer.

## Long Island Arborists Fight DED With Bidrin

Several Long Island arborists have taken up the war against dreaded Dutch elm disease. Their latest weapon is the relatively new chemical Bidrin, claimed to have stopped spread of the blight in over half a million U. S. trees already.

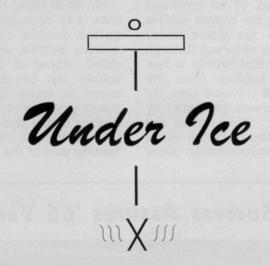
Here, Robert Felix, vice president of Harder Tree Service, Inc., Hempstead, N. Y., injects Bidrin into elms on Long Island

Lighting Co. grounds in Hicks-ville.

Felix points out this systemic method of controlling spread of the disease is a new development under study by leading arborists in his area. Bidrin, a product of Shell Chemical Co., does not cure trees already infected by DED, but the chemical is said to prevent spread of the disease by killing the bark beetle vectors.



# Outboard provides efficient method for treatment of algae

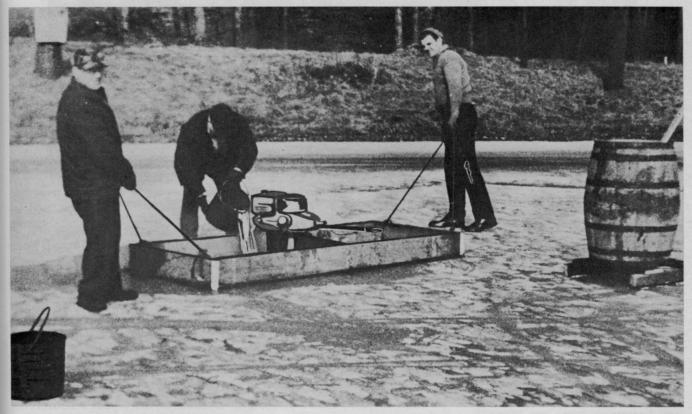


DURING A RECENT study of winter problems of algae control, an interesting method of treatment came to light in Massachusetts.

Icing of the reservoirs serving metropolitan Boston has brought about the very practical application of 2-cycle outboard motors to disseminate copper sulfate for aquatic weed control.

#### Hardy Species Develop Under Clear Ice

It is the practice of the Metropolitan District Commission, suppliers of water to the Boston metropolitan area, to clear their reservoirs of objectionable microscopic organisms before winter ice sets in. However, they have found that flagellate protozoa such as synura, uroglenopsis, dinobryon and other hardy



Employees of the Water Division, Massachusetts Metropolitan District Commission, treat for algae under ice. Copper sulfate solution is poured through hole in ice into current generated by outboard propeller. Rotating the complete frame 360°, effectively dispenses the algaecide in an area 100′ to 150′ in diameter. With such a rig a reservoir of 50 to 80 acres can be treated in a minimum of time. Barrel on right holds algaecide.

species will develop under the ice, particularly if it is clear enough to permit the penetration of light. Presence of this algae is manifested not only in the samples taken by reservoir personnel, but also in phone calls to the water company by customers complaining of fishy odor and taste.

Treating large bodies of water after the formation of ice has always presented a problem, particularly if the current is insufficient to dispense adequately the necessary application of copper sulfate. A number of methods have been devised at reservoirs facing the problem.

Clarence H. Reed, Principal Sanitary Engineer, of the Boston system, relates that first treating attempts involved cutting holes through the ice in areas 25 foot square and pouring the copper sulfate solution into the holes. Since there was no appreciable current, the total solution (figured for each hole) had to be poured in three separate portions to prevent an overconcentration. With a 10 to 15 minute interval between each portion an excessive amount of time and labor was consumed treating a total lake area of 50-80 acres.

#### Fewer Ice Holes Needed

Experimentation led the engineers to evolve the system successfully used for a number of years; addition of an outboard motor to mix the copper sulfate solution with the water under the ice. It was observed through the clear ice that within a few seconds gas bubbles from the motor exhaust traveled over 100 feet in the current generated by the propeller. This meant the number of holes to be cut could be reduced substantially since

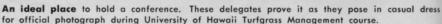
the 25-foot-square areas previously required could now be increased to 100 to 150 feet.

The equipment used consists of an 18-hp outboard and a wooden frame 8 ft. long by 3 ft. wide using 3" x 10" planks for the sides and end. The motor is mounted on a 2" plank in the center. The frame is provided with hand holds at the ends so it can easily be picked up with motor attached, set on sawhorses, and slid along the ice to the next hole.

Mr. Reed states that "If a large area is to be treated, several 50 gallon drums, or preferably wooden barrels, should be provided. About 25 lbs. of copper sulfate can be dissolved in a barrel of water by suspending coarse granular crystals near the surface of the water in the barrel. If there is some means of heating part of the water used, it

### Hawaii Turfgrass Meet Success Assures '66 Version







Conference officials paused to check exhibits at Kuykendall Hall. Shown here are (from left): Major Robert J. Bohan, chairman; David A. Akana, County Extension Agent; Dr. Irwin Lane from the City and County Parks and Playgrounds Dept.; and William Y. Hayashi, Oahu Country Club superintendent.

Over 130 attended the First Annual University of Hawaii Turfgrass Management Conference, Aug. 26-27, held in cooperation with the College of Tropical Agriculture. Subjects were geared to discuss soils, fertilizers, weed control, and lawn insects. Exhibits, seen by more than 500, included species of various turf grasses, turf weeds, and turf equipment. On the Mall of the university campus were fertilization plots, and examples of nitrogen evaluation, aeration, verticutting, and topdressing. Several mainland delegates attended, including program speakers George Sandy of Los Angeles and William F. Bell, Pasadena, Calif. Details of next year's conference will be announced early in '66 through WTT.