

Small wonder.

Kohler engines . . . rugged performance in a compact package. Performance that can give your equipment a competitive advantage.

Kohler builds hard-working, long-life, cast iron engines . . . and backs them up with worldwide service and a sound warranty.

There are eleven small wonders in the Kohler 4-cycle line. Eleven power choices for you, in one- and two-cylinder models, 4 to 24 horsepower. And every one is a proven performer.

For more information call or write:
KOHLER CO., OF KOHLER, WI.
53044 U.S.A.

...no wonder 7 out of 10 major manufacturers of garden tractors specify Kohler 4-cycle engines.

KOHLER



WEED EATER

The Revolutionary NEW Grounds Maintenance Machine That Cuts, Trims, Edges, And Manicures...Without The Use Of Blades!

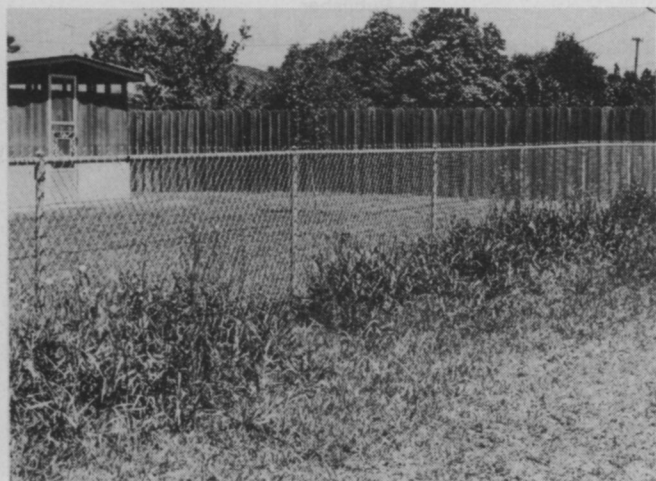


BEFORE

TIME—1 MIN 18 Sec.

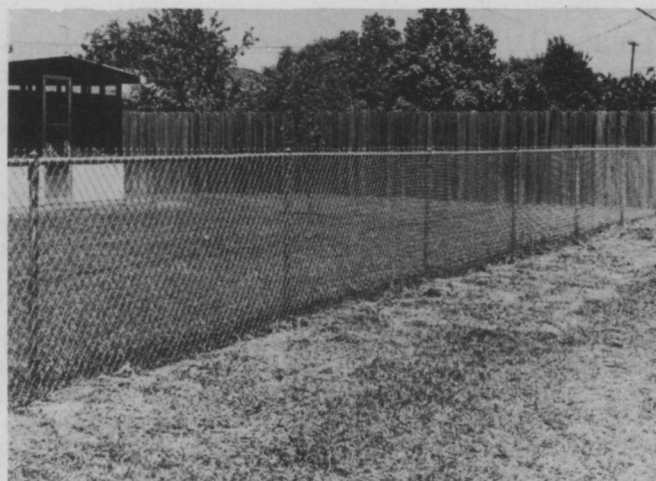


AFTER



BEFORE

TIME — 1 MIN 50 Sec.



AFTER

At Last.

The revolutionary solution to your grounds care maintenance problems. The WEED EATER gasoline-powered "WEEDY" (Model #670) is specially designed for commercial use and/or large estates.

"WEEDY" cuts away your grounds maintenance headaches. Around trees, fences, walkways, stonework (headstones and memorials). Quickly and efficiently. Without the use of blades.

Without The Use Of Blades?

Right. "WEEDY" cuts with specially-treated

monofilament "fishing line". Housed in a unique high-impact cutting head that makes fast work of your most stubborn maintenance problems. Reaching into and around places no conventional lawn tool can reach.

Safe And Fast.

"WEEDY" cuts over glass bottles, tin cans, rocks, electrical cable and the operators' own feet... without mishap. Because "WEEDY" cuts without blades. And "WEEDY" can finish most edging and maintenance jobs 100% faster than the time required by conventional equipment.

WEED EATERS, INC.

5146 Richmond Avenue, Houston, Texas 77027
Tel. (713) 622-7200

WEEDS TREES and TURF®

August 1974, Vol. 13, No. 8

THE COVER—Richard W. Malpass operates a Rogers Aero-Blade verti-cutter seeder on the ninth fairway of Riverside Golf and Country Club in Portland, Oregon. Malpass, superintendent of the 18-hole private course, has used the seeder for nearly two years with satisfactory results.

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THE CASE OF THE INVISIBLE VAPOR BARRIER—Ladies and gentlemen of the jury, Exhibit A is what some people refer to as a crime. It was once a beautifully paved parking lot now nearly destroyed by weed break-through. Donald Fox tries to prove beyond a shadow of a doubt that protection by an invisible vapor barrier could have prevented this heinous act. **11**

LOUISVILLE DECLARES A PARK DISASTER—Sometimes it takes a disaster to bring people closer together. In Louisville, Kentucky, a spring tornado flattened the 400-acre Cherokee Park. A group of citizens calling themselves Trees, Inc. has banned together in an effort to raise funds for reforesting the park. **16**

OLD TECHNIQUE . . . NEW METHOD—A method spawned during winter's fuel shortage has developed into more economical brush and shrub control. A no-oil herbicide developed by DuPont is used for rights-of-way maintenance by Missouri electric co-ops with good results. **22**

SOD INDUSTRY SECTION—Further developments in the use of plastic sod base. Dr. William H. Mitchell, of the University of Delaware, has been experimenting with the system in Delaware. Mitchell's experiments have made him a leading authority in plastic netting as a sod base. A second story features the history of the Princeton Manufacturing Company, Columbus, Ohio, and its line of sod harvesters. **26**

1974 TURF PROTECTION DIRECTORY—WEEDS TREES and TURF's chemical guide for Green Industry managers. Professional turfgrass management means keeping abreast of new developments and thoughtful planning regarding what chemicals are needed to keep turf free of pests. WTT's directory lists chemical manufacturers two ways: (1) product groupings and the companies manufacturing each product, and (2) name of the company and the products manufactured by each. **37**

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This hulking thing can pick up a mere cigarette butt.

Rubber Finger Pick Up.

That's the pick-up system that's so good they got a patent for it. And every Jacobsen Sweeper in the line has it.

Wes Wilson of Big Bear Equipment, Inc., Omaha, Nebraska, can tell you all about it. So can any Jacobsen Distributor, for that matter. Or better yet, show you how it works on your own turf.

You'll be able to sweep up virtually any kind of debris, wet or dry. Rocks. Bottle caps. Broken twigs and branches. Cans, bottles, leaves, grass clippings, matchsticks. And cigarette butts.

No matter how large or small your turf area is, there's a Jacobsen Sweeper to do the

job. After all, it's the biggest line in the whole industry.

It includes power take off sweepers. Self-propelled units. And two of the models offer hydraulic lift dumping.

There are also several sensible accessories you'll want to seriously think about, too. Like the special Thatch/Thinner attachment that dethatches, sweeps it up, and picks up other debris all at the same time. Or the Curb Broom and the Bag Attachment.

This would be a good time to ask your nearby Jacobsen Distributor to give you a demonstration. But please refrain from asking him if things have been picking up lately.

That's one of his best lines.

Your Jacobsen Distributors.

Before we sell it, we buy it.

For the name of the distributor near you write: Jacobsen Turf Distributor Directory, 1721 Packard Avenue, Racine, Wisconsin 53403

For More Details Circle (123) on Reply Card



Silverfish



Sowbug



Birch Leaf Miners



Mosquito



Ant



Tent Caterpillars

1974 will be a bad year for bugs.

Bad for bugs of turf and ornamental plants. And bad for household and structural bugs. Because Dow has a pair of insecticides that will make their lives miserable. There's ZECTRAN* insecticide, a general use biodegradable insect killer that works on almost all major foliage-feeding insect pests—even the hard-to-kill kinds. Use ZECTRAN on over 600 different flowers, ground covers, trees, shrubs and turf. And then there's DURSBAN* insecticide. Its effectiveness, economy, non-phytotoxicity and biodegradability make it the choice of professional turf men for golf greens, turf farms, home and



Looper



Spider



Grasshopper



Aphids



Whiteflies



Cockroach



Cutworm



Hairy Chinch Bug



Bagworms



Mealybugs



Leafhopper

Ag-Organics Department, Midland, Michigan 48640

industrial lawns—or wherever grass and ornamentals are grown. It's especially effective to control the hairy chinch bug and sod webworm. DURSBAN insecticide is also preferred by PCO's for controlling household and structural pests—especially resistant roaches that laugh at other sprays. Please remember to read and observe all precautions on the product label. Bugs, get ready for 1974!

*Trademark of The Dow Chemical Company



DOW CHEMICAL U.S.A.

For More Details Circle (109) on Reply Card



Government News / Business

Toro Company announced the July 1 sale of the Toro-owned distributorship in Pensacola, Fla.-- Toro Distributing (Gulf Coast) -- to L. F. (Lee) Strebel for an undisclosed sum. According to David T. McLaughlin, president of Toro, this was the first return to private control of a company-owned distribution facility. McLaughlin said the company did not foresee re-selling any of its six other distribution centers.

Labor Secretary, Peter J. Brennan, said the Department found 495,443 alleged violations of job safety and health standards during the more than 145,000 workplace compliance inspections from OSHA's April 1971 effective date through April 1974. OSHA issued 96,289 citations for the violations and proposed penalties totaling \$12,372,853, he added. "Clearly, OSHA's enforcement of this law has had significant impact on the working conditions of American men and women," Brennan said.

American Motors Corporation subsidiary, Wheel Horse Products, has agreed to purchase the assets of General Electric Company's Outdoor Power Equipment operation. G.E.'s plant is located near Schenectady, N. Y., and manufactures and distributes the "Elec-Trak" line of battery-powered lawn and garden tractors, riding mowers and attachments. Wheel Horse will continue the manufacture of the battery-powered products at the New York facility. G. E. and Wheel Horse reached agreement for continuing supply of replacement parts and furnishing of warranty service for Elec-Trak products in the field.

Interstate Commerce Commission told the nation's railroads it felt constrained to suspend their recently-filed proposal for a general freight rate increase of about 10 percent, but that it would let them refile for a general rate increase of that amount subject to conditions designed, the Commission said, "to substantially improve service."

J. I. Case's Outdoor Power Equipment division has expanded its production facilities to Neenah, Wis. General manager of the Case division, W. J. Schlapman, said the firm leased a 30,000 square foot building in Kampo Industrial Park. Reason for expansion? Increased tractor and attachment sales.

U. S. motor-vehicle registrations increased to more than 125 million during 1973. The total, released by the Federal Highway Administration, is 6,530, 686 higher than the 1972 figure.

Agricultural Business Group of Velsicol Chemical Corp. moved its western district office to 1551 East Shaw Avenue, Fresno, California. New telephone number is (209) 224-8536.

A burst of brilliance... Fylking for the World's Fair!

Fylking Kentucky bluegrass is a superior, elite bluegrass that burst like a star on the scene in the sixties!

Since then Fylking has established records making it the perfect choice for the official grass at the environmental World's Fair, Expo '74.

Fylking has proven to have superior resistance to disease and drought; withstands traffic. Its thickly woven rhizome root system develops dense sod so quickly Fylking can be lifted in 90 days. Fylking can be mowed at 3/4 inch (even 1/2 inch) and thrive. It absorbs carbon dioxide pollutants, gives off oxygen, cools air by releasing water vapor.

A superior mixer, Fylking greens up earlier in spring, stays greener in summer heat, remains green longer into fall.

Choose Fylking and your customers are getting a grass good enough for a World's Fair!



FYLKING KENTUCKY BLUEGRASS

U. S. Plant Patent 2887

Another fine product of Jacklin Seed Company



Fylking's rhizome root system develops so thickly, under ideal conditions sod can be lifted in 90 DAYS.



Low growth, short leaf sheaths and abundant tillering of Fylking (right) compared with another elite bluegrass plant.



Cross section displays thick, luxuriant turf, fine leaf texture and brilliant green color of Fylking.

editorial

Last month we had the pleasure again of attending the summer field days of the American Sod Producers Association. The meeting was headquartered in the rapidly-growing suburban Washington, D.C., area known as New Carrollton, Maryland. And quite a fitting location this turned out to be.

Rolling farmland seemed to be changing into city before our very eyes. And where the road once wiggled along to Baltimore, there was now four-lane, city traffic.

We were returning to our motel in this traffic the first day, after a pleasant tour of sod farms, when our bus seemed to become a moving target for the native automobiles.

"These drivers," our tour guide remarked, "really get to know the territory quickly. They learn how to get to and from work and when they learn how to reach the shopping center, they are old veterans. They may not know their neighbors, but they are already settling in."

It is an appropriate discussion and a rather symbolic setting for the commercial sod production industry. And for all segments of the green industry.

Isn't New Carrollton really a micro-

scopic view of our nation? Rapidly changing, new faces, new buildings and ideas, new problems? Most critical to us all are the changing demands brought to the country and to our industries by the New Carrolltons. To the sod grower . . . to tree care people, to us all . . . this is not only new landscape, it is a new way of life. It is not only a market, but the changes it brings are the reason for the market.

As always, we were pleased to be with sod people on such a delightful and informative occasion. But, more than this, we consider the industry and its leaders to be located quite near the nucleus of the entire turfgrass Industry of the United States. Happily, we can report that the commercial sod production industry is in good health and the potential and prospects frankly are unbelievable. There are problems, of course, and the industry has a growing pain here and there. But we are simply stunned by the unfolding prospects of the decade to come. Fortunately, sod producers have the leadership to march ahead without missing a step.

We are preparing a report on the Maryland convention and field days and will publish it in the September issue of WEEDS TREES and TURF.

Announcing the new Asplundh "Whisper Chipper" Looks the same—sounds so different!

This new unit has all the dependable features of our famous chipper line. However, there is a remarkable difference — a great reduction in noise. Modification kits will be available for many existing models. **Asplundh Chipper Company, a division of Asplundh Tree Expert Co., 50 E. Hamilton Street, Chalfont, Pa. 18914**

ASPLUNDH

