The only thing that has changed is our name. We were Ackley Manufacturing Co., a subsidiary of The Stanley Works. Now, we are Stanley Hydraulic Tools. You'll find the same experienced people at the same address. We offer the same broad hydraulic tool line—the same high standards of product quality. Our generous service and warranty policies are unchanged. And our customers can still count on the most thorough in-field assistance and parts programs in our industry.

We think our new name more clearly reflects this total capability. Stanley Hydraulic Tools (formerly Ackley Manufacturing), Division of The Stanley Works, 13770 S.E. Ambler Road, Clackamas, Oregon 97015. Telephone: (503) 659-5660.

STANLEY helps you do things right
Painted designs are worked out and scaled on the drawing board. Here, I use a tape measure to make an accurate field check. Mistakes show up quickly.

FORWARD PASS
(from page 13)

rect the pH if needed. We usually apply a pre-emergence herbicide such as Balan to help control Poa annua and other weeds.

Mowing begins as early in the spring as the grass starts to grow. We use a Jacobsen Turf King 3-reel mower with a 76 inch cut. This is as much width as we can use and keep flexibility needed in other campus areas.

Cutting height in the spring is kept at ¾ of an inch to encourage spreading of the turf. By keeping a smooth even surface, we avoid the scalping that can result from low mowing.

During the latter part of July we change the cutting height to 1 ½ inches for the balance of the season. This is a little high for Bermuda but it encourages the turf to thicken, resulting in a softer more playable playing surface.

Mowing is scheduled at the rate the grass is growing so as not to remove too much leaf surface. Every time weather delays the mowing, and more than onethird of the leaf surface is removed, we see some brown areas. Even though the brown areas recover rapidly, we try to avoid the problem.

Grass is not as competitive as the weedy plants and that is why we spray at least three times during the growing season to control such pests as crabgrass, crowsfoot, knotweed, and chickweed. We usually mix Trimec and MSMA to get the best control of broad-leaved and narrow-leaved weeds in Bermuda. The chemical selected depends on the grass being treated.

We have found that a surfactant such as Di-Aqua is very important in getting better coverage and control. It makes the water wetter by breaking down the particles to spread the chemicals more evenly.

With the Myers 200 gallon sprayer and 20 foot boom we can cover the 1 ½ acre field in nine passes. We apply all liquid products with this sprayer by just changing the spraying tips. As to application rate, we follow the labels and that is the best recommendation for use of any chemical.

In the last three years we have not used either a fungicide or an insecticide. We watch for disease and insect damage, but none has been serious enough to justify treatment. We realize that the disease and insect problem is different with each growing season, consequently we are always on the alert for any signs of trouble.

GRASS IS STILL OUR CHOICE

September ends all maintenance except mowing and game preparations. October brings the show-period which is the reason for the total effort. The football season is concentrated in October and November. The R.O.T.C. uses the field over a six week period in the fall to practice marching formations. The only other use allowed on the field is band practice one time before each game.

We have proved that live turf can satisfy our needs for beauty and utility and our annual costs are less than the interest would be for an investment in artificial turf. It has been estimated that an expenditure of approximately one half million dollars would be required to put artificial turf on our field. At the current rate of interest, the interest on that amount of money would more than pay the maintenance cost on our live turf.

Practice on the field by the majorettes and the band is restricted. We want to limit the damage that a foot can do when it continues to step into the same spot. These girls find the Bermudagrass much to their liking, however.
FERTILIZE TREES
IN ONE THIRD THE TIME
AND ABOUT HALF
THE COST USING JOBE'S TREE FOOD SPIKES.

Here's proof when fertilizing a 5" tree:

<table>
<thead>
<tr>
<th>Old Method ¹</th>
<th>Jobe's Tree Food Spikes Method ²</th>
</tr>
</thead>
</table>
| **Bulk 16-8-8 fertilizer—$70/ton**  
(Average price throughout U.S.) | **5 spikes 16-8-8 fertilizer—22c/spike** |
| 2 lbs./inch of trunk diameter = 10 lbs. × 3.5c/lb. | 1 spike/inch of trunk diameter |
| $ .35  
1/2 hr. labor @ $4/hr. | 5 min. labor @ $4/hr. |
| $2.00  
Labor and materials | $ .33  
Labor and materials |
| $2.35 | $1.43  
$2.35 ÷ 5" tree = 47c/inch of diameter |

No allowance made for depreciation, amortization, breakage of auger, mistakes, etc.

¹Using electric auger.

²Based on results of university field tests and recommendations.

Professional tree and turf men who use Jobe's Tree Food Spikes can save 50% and more in labor and materials. Recommend the fall fertilization of trees now to your customers. Save time and money by using Jobe's Tree Food Spikes. Order from your local supplier—or write for his name.

**Jobe's**
The instant meal for hungry trees.

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**TREE FOOD SPIKES**

International Spike, Inc., 462 East High Street  
Lexington, Ky. 40508

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To: Jobe's Tree Food Spikes  
462 East High St., Lexington, Ky. 40508

☐ 3 cases Tree Food Spikes @ $30 per case, f.o.b. Paris, Ky.  
(105 spikes—40 lbs. per case)

☐ 12 cases Tree Food Spikes @ $25 per case, freight prepaid.

☐ Name of local supplier

Name_________________  
(Please print)

Organization_________________

Street_________________

City_________________  State______  Zip Code______

---

For More Details Circle (107) on Reply Card
Any crew can transplant one tree...but only Vermeer Tree Spades transplant a forest

You're looking at the profit end of a low-cost, high-production tree transplanting program—with "The Diggin' Dutchman's" TS-44A Tree Spade from Vermeer. Compare it with a whole crew of laborers and you'll see what we mean. The TS-44A requires no coffee breaks...no lunch hours...no overtime wages...just an occasional tank of gas to keep its hydraulically-operated spades digging, balling and transplanting a forest of trees up to 4" in diameter. Saves you thousands of dollars annually because one man can handle the entire job in minutes. Interested? Write "The Diggin' Dutchman" for all the facts.

...also compare Vermeer's complete line of labor-saving Stump Cutters.

Our 25th Year

THE DIGGIN' DUTCHMAN

VERMEER TREE EQUIPMENT DIVISION
7201 NEW SHARON RD. • PELLA, IOWA 50219

PATRICK J. NUSS appointed manager of employee relations for The Toro Company.

BERNARD STONEHOUSE, named manager of contractor marketing services for Toro Irrigation Division. In other company moves JOHN S. MACLAUGHLIN joins the company as an irrigation specialist, and SARA L. ROMSPERT has been named supervisor for order processing and customer relations.

WARREN G. "SKIP" PURDY III, promoted to vice president and general manager of Foamspary Chemical, Inc. NEAL HARVILLE becomes general manager of the company's new division, Nu-Ag West. His wife is the marketing director. DARRELL KENNEMER appointed sales representative.

FRANK J. PRATT becomes regional sales manager for the Outdoor Power Equipment Division of FMC Corporation. He will be working with distributors in New York, Mass., R.I., Conn., Pa., New Jersey, Maryland, Delaware, Va. and Washington D.C.

WILLIAM A. MILLSON joins Outdoor Power Equipment Division of FMC Corp. as regional manager for Tenn., Ky., North and South Carolina, and Va.

TIMOTHY P. SCHMITT named to the newly created post of financial analyst for the Outdoor Power Equipment Division of FMC Corporation.

DR. DONALD B. PFLEIDERER, becomes sales manager for the professional division of The Bishop Company, a subsidiary of Lebanon Chemical Corporation. He was formerly director of technical services for Agri-co's Turf and Garden Products Div.

EDWARD J. CAMPBELL assumes position of senior vice president — agricultural equipment division, J. I. Case Co. He succeeds DONALD C. BLASIUS who resigned to join a New York Stock Exchange Company.

FRANK J. PALERMO succeeds Campbell as senior vice president — corporate operations.

ROBERT STACCHINI appointed public relations assistant for the agricultural division of American Cyanamid Company.

DAVID E. STEWART becomes manager of industrial products for Sperry New Holland. This is a new marketing organization for industrial products. Other new appointments include: CHARLES C. ALLENBRAND to industrial sales manager; MARTIN HENRIKSEN to industrial service manager; HAROLD G. LANDIS to industrial marketing research manager; R. MAC REEVES to product manager for industrial products; DONALD J. SHAH to industrial communications and promotions manager; ROSS B. WILSON to industrial administrative coordinator; PAUL E. ROBB to product development specialist; HAROLD K. McCAMPBELL to service analyst.
Broadleafs controlled positively
with maximum safety to sensitive grasses, ornamental shrubs, trees

BROADLEAF WEED control with herbicides has been a hit and miss proposition so long that many find it hard to believe positive control is indeed here at last.

Trimec Turf Herbicides can quickly demonstrate what we mean. Positively.

This patented herbicide combination can be relied on to overcome your worst broadleaf pests, whatever they may be. Trimec alone attacks the whole spectrum of broadleaf weeds, wiping out hard-to-kill species without extra attention or expense.

If you are responsible for maintaining weed-free turf, get on top of your broadleaf problems with Trimec. No other product offers you all these advantages:

• Unequalled spectrum of control
• One application is usually enough
• Minimal chemical dosage required
• Rapidly biodegraded in the soil
• Maximum safety to sensitive turf, trees and shrubs.

Applied according to directions, when weeds are actively growing, Trimec’s synergistic punch knocks out toughest broadleafs while making it possible to minimize hazards to desirable vegetation. The required dosages are so low there has yet to be a single complaint of ornamentals being damaged due to root uptake of dicamba. Likewise, grass species needn’t be discolored or damaged using Trimec. In fact, Gordon’s “Bentgrass” formulation is recommended for use on sensitive grasses, while the “Fairway” formulation is recommended for all other commercial turf applications.

Trimec’s active ingredients—2,4-D, MCPP and dicamba—are no secret. The real secret to the product’s superior performance is the synergistic effect of these compounds in combination. Their weed control effects are remarkably increased. Broadleaf pests resistant to all but overwhelmingly high levels of its individual components respond to Trimec quickly, consistently and with virtually 100% kill effected.

Just ask anyone who has tried these superior herbicides. Controlling broadleaf weeds without Trimec is simply doing it the hard way. Try Trimec and relax for a change.

U.S. Patent 3,284,186

trimec
TURF HERBICIDES®
PBI-GORDON CORPORATION
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For More Details Circle (102) on Reply Card
Turf-Maker is specifically designed for professional turfmen, landscapers and sod growers.

— the most precise grass seeder made

Brillion's Turf-Maker is for you—if you want to seed the finest grass seeds and lawn mixtures with miserly accuracy over large areas. It crushes, seeds and rolls in one pass—enables one man to seed up to 50 acres per day without extra help, equipment or seedbed conditioning.

Turf-Maker gives you exclusive Micro-Meter adjustment for an infinite range of seed settings—Brillion fluted rolls, the most accurate seeding mechanism known—and the unique reversible sprockets for a dual range of rate settings. The results: Full, thick stands at up to 50% seed savings over conventional methods. It's the best for sod seeding.

You can order Turf-Maker in 8' and 10' seeding widths. Options include transport wheels for both sizes and 3-point Category II pick-up for the 8' model. Seed better—save more with Brillion. Mail coupon.

**LANDSCAPE SEEDERS**
- 3 sizes for heavy seeding rates — 6'4" and 8' pickup models. 8' and 10' drawbar models.

**SMOOTH ROLLERS**
- for smoothing humps and winter heaves in established turf. Single and triple gang models, 9 to 20' widths.

**meeting dates**

Ohio Chapter. International Shade Tree Conference, annual meeting, Sheraton Columbus Hotel, Columbus, Ohio, Jan. 27-28.

Ohio State University Short Course. 45th annual, for arborists, turf management specialists, landscape contractors, garden center operators and nurserymen, Sheraton Columbus Hotel, Columbus, Ohio, Jan. 27-31.


Penn State Turfgrass Conference. Keller Conference Center, Campus, University Park, Pa., Jan. 28-Feb. 1.


Nebraska Aviation Trades Association, agricultural seminar, Norfolk, Nebr., Feb. 5-8.

Midwestern Chapter. International Shade Tree Conference, annual meeting, Stouffer's River Front Inn, St. Louis, Mo., Feb. 5-7.


Shade Tree Disease and Insect Short Course. 17th annual, Iowa State University, Ames, Ia., Feb. 20-22. Contact Dr. A. H. Epstein, dept. of botany and plant path., Ia. State Univ. for details.

WILL THE REAL MANHATTAN RYEGRASS, PLEASE STAND UP!

Manhattan perennial ryegrass is a fine textured perennial ryegrass developed by Dr. Reed Funk, Rutgers University. This new, improved, fine textured grass is genetically pure and great care is taken by Manhattan Association growers who plant only foundation seed stock. The seed is produced by members of the Manhattan Ryegrass Growers Association who agree to strict rules of growing, to protect the crop from cross-pollination and other contaminants.

The seed produced by these growers is closely watched and both field certification and seed certification are required before the seed is released to you, the customer.

Any seed bearing the name “Manhattan” but which does not carry certification tags may not be truly Manhattan. The variance could be drastically untrue of variety.

For your protection — buy only Certified Manhattan; why take a chance on imitations?

"TURF TYPE" PERENNIAL RYEGRASS

Certified Manhattan is grown by the MANHATTAN RYEGRASS GROWERS ASSOCIATION
P. O. Box 145 • Hubbard, Oregon 97032

WHITNEY-DICKINSON SEEDS, Inc.
52 Leslie Street • Buffalo, New York • 14240

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Maryland Turfgrass Council Elects Officers

New officers and directors were elected at the November meeting of the Maryland Turfgrass Council.

Officers elected are: Angelo Cammarotta, superintendent, Hobbit’s Blenn Golf Club, Columbia, Md., president; Emory Patton, Emory Patton Turf Center, vice president; Dick Moffett, agronomist, Maryland State Department of Roads, treasurer; and Dr. John Hall, turf specialist, University of Maryland, secretary.

Directors are: George Thompson, superintendent, Columbia Country Club; Bill Kirwin, Smith/Kirwin Inc.; Tom Harris, G. C. Cornell Equipment Co.; Alex Watson, Sparrows Point Country Club; Frank Stephens, agronomist, Operators Heat Lawn Maintenance Firm; Cliff Case, Cornell Chemical Co.; and Parker Shirling, Princeton Turf Farms.

About 50 persons were in attendance for the meeting.

Club Car Of Augusta Ga. Acquired By John-Manville

Club Car, Inc. of Augusta, Ga. has been purchased by John-Manville Corporation for an undisclosed amount of cash, according to a joint announcement.

Club Car, Inc. engages in the manufacture and marketing of electric golf cars and resort vehicles.

Annual sales by Club Car, Inc. during the past twelve months were in excess of $2 million. Primary markets include golf courses and resorts.

William P. Stevens, Jr., President of Club Car, Inc., and other officers and employees will remain with J-M as part of the company’s agriculture business.

Seventy-five personnel are presently employed by Club Car, Inc. in Augusta.

Serving worldwide markets, J-M is a major manufacturer of fiber glass, industrial specialties, construction materials, commercial and industrial insulations and pipe and a miner and supplier of asbestos, diatomite, perlite and talc. J-M operations also include lighting fixtures and components, real estate and land development, and environmental control products and systems.
Now there's a way to protect the dog who chases the cat who catches the bird who eats the worm who lunches on a leaf sprayed with insecticide!

DIPEL...kills leaf-eating caterpillars as effectively as chemical insecticides, yet is uniquely safe. Won't harm humans, pets, beneficial insects, birds or wildlife.

It isn't easy these days to keep everybody happy. You have to protect trees from destruction by defoliating caterpillars...but do it in a way that doesn't endanger other elements of the environment.

DIPEL can solve your caterpillar problems without causing other problems, including "public relations" problems! DIPEL is a highly selective, biological insecticide. The active ingredient (Bacillus thuringiensis) is a naturally occurring organism. For thousands of years it has been killing leaf-eating caterpillars but leaving desirable creatures alone.

Use DIPEL to control a wide range of worms...Gypsy Moth, Cankerworms (Inchworms), Webworms, Spanworm, Tent Caterpillars, Bagworms and many others. Put some "peace of mind" into your 1974 spray programs. Specify DIPEL...wherever you need effective worm control and safety!

It's never been tougher to be a worm.
I'll Put My LESCO Quality Parts Up Against Toro's and Jacobsen's Anytime—Anyplace

I can save you up to 50% on replacement parts to fit Toro and Jacobsen greens and fairway gang mowers. I take pride in our LESCO parts and have made every attempt to build the finest quality product on the market today. I guarantee LESCO parts to be equal or superior to the parts you are presently using from the original equipment manufacturers. If for any reason you are not satisfied with LESCO parts after a fair trial — call me personally — I WANT to know about it. (216-651-1600)

Sincerely yours

James Fitzgibbon
President

P. S. I'll be in Booth #H-71 at the 45th International Turfgrass Conference in Anaheim, California. Stop and compare our LESCO parts and tires in person.

LESCO PRODUCTS is a division of Lakeshore Equipment and Supply Co. of Cleveland and Bloomingburg, Ohio. We are manufacturers, formulators and distributors of parts, chemicals and fertilizers serving the golf course and green industry markets.

COMPARE!

1. LESCO single edge bed knife $10.95
   fits Jacobsen fairway mower ______

2. LESCO double edge bed knives $12.95
   fits Toro fairway mower ______

3. LESCO single edge bed knife $11.50
   fits Roseman fairway mower ______

(ALL AMERICAN MADE — GUARANTEED)

We stock thousands of the 150 primary wearing parts of Toro and Jacobsen greens and fairway gang mowers. Over 10,000 bed knives are now in stock awaiting your order. We will process your order the day it is received.

For more information mail this coupon or call collect. Telephone (614) 437-7337

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