

Another strong case for Standard



Now — Standard's highly popular 'Professional' model 4-golf-ball washer is available in 2 types of durable cases: **A new cast aluminum case — and the present Cyclocac® case.**

The new case is of rugged cast aluminum with rust-proof, corrosion-resistant fuse coating.

It has the same basic design (matter of fact, the cases are interchangeable), the same ultra-modern good looks — and is available in the same 6 beautiful colors as the Standard Cyclocac® case.

Performance-wise, cost-wise and maintenance-wise, the Standard 'Profes-

sional' golf ball washer is your best buy. **With cast aluminum or Cyclocac® case!**

For complete details write for new Standard Bulletin BWA-77. **Standard Golf Company, 220 East Fourth Street, Cedar Falls, Iowa 50613. 319/266-2638.**

STANDARD
GOLF *ProLine* 

HOW TO TAKE THE GAMBLE OUT OF A SINGLE VARIETY OF BLUEGRASS OR RYEGRASS...

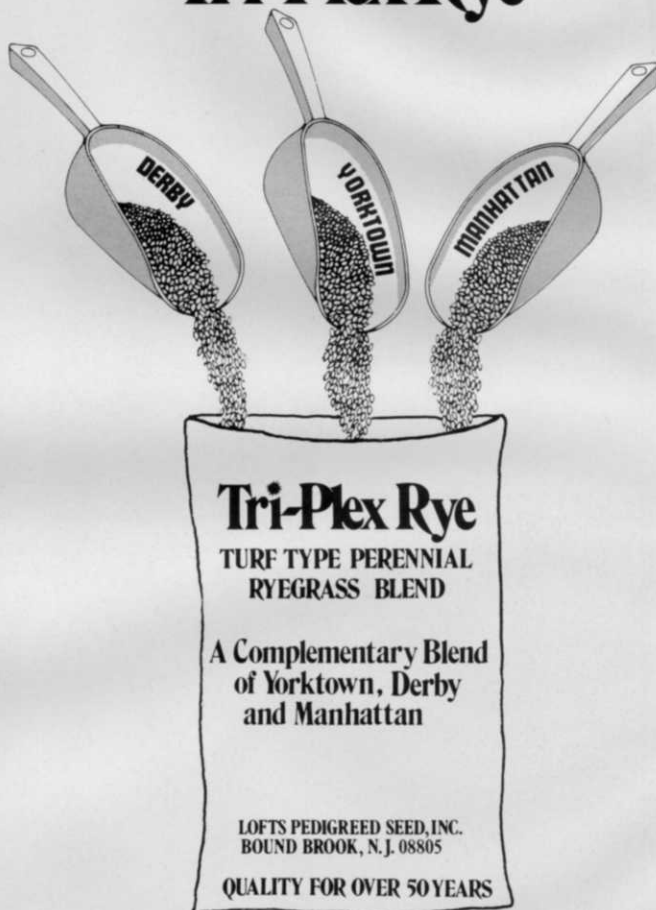
BLEND THE THREE BEST
AVAILABLE BLUEGRASSES INTO

Tri-Plex Blue



BLEND THE THREE BEST
AVAILABLE RYEGRASSES INTO

Tri-Plex Rye



Lofts has developed two Tri-Plex grass seed mixtures to meet the needs of practically every soil, climate or management condition. Both the Tri-Plex Blue and Rye contain three of the finest grass varieties, each effectively supporting the best individual characteristics of the other.

Tri-Plex Blue — This new blend combines the very best attributes of Baron, Flyking and Touchdown, three of the most outstanding Kentucky Bluegrass varieties on the market today. Each variety complements the other to insure unsurpassed disease resistance, density, ease of establishment, color and

overall appearance. Tri-Plex Blue. . . Three great bluegrasses harmonized into one beautiful blend.

Tri-Plex Rye — This new blend contains three proven and established turf type perennial ryegrasses. . . Manhattan, Yorktown and Derby. When blended into a Tri-Plex Rye mixture, each individual negative is minimized and the positive points of all three varieties are accentuated into a more complete and total mixture. The new blend offers a considerably wider range of adaptation such as proven winter hardiness, improved mowability and dark green color.



**Lofts
Pedigreed Seed, Inc.**
Bound Brook, N.J. 08805/(201) 356-8700

Lofts/New England
20 Beck Road
Arlington, MA 02174
(617) 648-7550

Lofts/New York
4294 Albany St.
Albany, NY 12205
(518) 456-0042

Great Western Seed Co.
P.O. Box 387
Albany, OR 97321
(503) 926-2636

Loft Kellogg Seed Co.
322 E. Florida St.
Milwaukee, WI 53201
(414) 276-0373

Winter's toll on bermudagrass established

The past winter was one of the most severe on record, especially from the standpoint of turfgrasses, bermudagrass in particular. Some assessments of injury in the northern most limits for successful bermudagrass culture have estimated damages as high as 20-50 percent winterkill.

Many turf areas were either exposed to cold dry winds or were covered with a layer of ice. The exposed areas tended to suffer winter dessication while the ice covered turf may have suffered from ice encasement. Some ice related damage was observed on several golf course greens as a result of gouging the turf in an attempt to remove the ice cover.

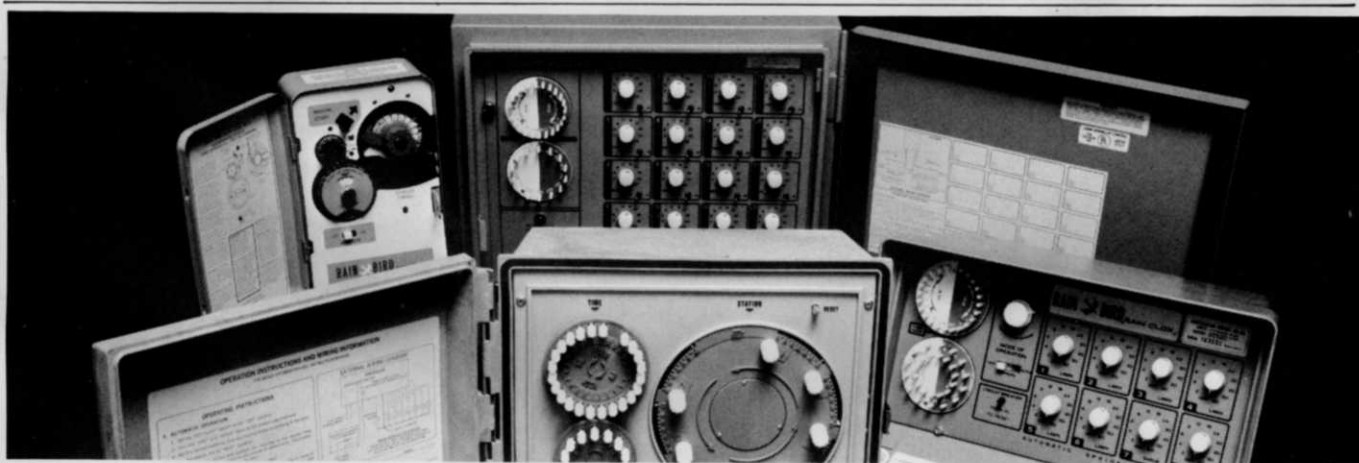
Adequate levels of potassium and phosphorus are important in the winter survival of bermudagrass. Many areas sampled showed a deficiency. Soil tests also indicated that winterkill was greatest where the pH was lowest. When the pH drops below the optimum 6.5 for turf, the availability of potassium, phosphorus and other plant nutrients is effected.

When nitrogen was applied late in the fall to keep the grass green longer, winter hardiness was decreased. High nitrogen applied thusly stimulates plant growth at the expense of tissue hydration and decreased carbohydrate levels. Past winters have been relatively mild

and dangers have been minimal. Not so this past winter!

Exposure also contributed greatly to the winterkill. The greatest amounts were observed on northern slopes where little or no snow accumulated. Heavily trafficked areas were observed to suffer more damage than adjacent areas with little or no traffic.

Up until the middle of May it was very difficult to determine the extent of injury to a bermudagrass stand. In many cases, recovery of the bermudagrass comes from crowns or rhizomes instead of from stolons. This takes longer and resulted in extremely slow spring green-up in some areas. □



With Rain Bird® controllers, lush landscapes are just a matter of time.

Our controllers help everything grow greener. Just like clockwork.

Whether you need our dual master unit that controls up to 36 satellite units, our basic three station controller, or anything in between for commercial, residential or golf course applications, Rain Bird covers the field — without wasting a drop.

That's because our entire line, including the models you see above, all feature calendars, 24-hour clocks and timing dials that let you select the day,

hour and length of rain at each station. And, many of the controllers are capable of shutting down the system automatically when nature pours it on.

Best of all, every Rain Bird® controller is a dependable, hard-working disciplinarian that means satisfaction — for everyone.

So exercise some timely control out on the turf with Rain Bird controllers. Contact your local Rain Bird distributor for complete details.

RAIN BIRD®
Bringing new ideas to life.

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Bob-Cat mowers are revolutionizing the commercial and residential mowing industry. Why?

Outstanding maneuverability and unmatched durability are only two of several reasons.

These cats are guaranteed to live up to their mean reputations. Put them to work for you.

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BOB-CAT

Wisconsin Marine, Inc.
Lake Mills, Wisconsin 53551
(414) 648-2331

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44 WEEDS TREES & TURF/AUGUST 1977

ARS releases findings from Beltsville Center

Bermudagrass mutagens

Mutagenic breeding techniques applied to bermudagrasses have resulted in 120 new mutagens. These are undergoing tests for winter hardiness, differential phytotoxicity to herbicides, differential mineral soil responses and other tests of turf quality and propagation characteristics.

Bluegrass hybrids

Three Kentucky bluegrass hybrids, selected for seed increase after second year test data, are being tested further. Open-pollinated progeny of 230 fineleaf fescues and 190 tall fescues are being evaluated under turf management conditions.

Chinch bugs

Methods for rearing and storing chinch bugs in the laboratory for evaluating turfgrasses for resistance have been developed. Preliminary tests are being conducted with several Kentucky bluegrass cultivars to determine the most efficient and reliable screening procedures. So far, these tests have shown that a large reduction in top growth occurs before other visible symptoms of injury appear.

Crabgrass control

Plots established in a 10-year old turf in 1974 were premergently treated three successive years for crabgrass control. The turf was mainly red fescue with a little Kentucky bluegrass. Seven herbicidal treatments controlled crabgrass adequately. These included benefin, bensulide, butralin, DCPA, profluralin, and prosulfalin. Stands of turfgrasses appeared to be somewhat thinner and/or slight discoloration was noted in some years within a month after treatment with bensulide, butralin, and profluralin. The proportion of Kentucky bluegrass by September of the third year increased from 3 percent in the check plots to 30 to 45 percent in plots treated with benefin, butralin, DCPA, and profluralin.

A trend toward increases of Kentucky bluegrass in other treatments was observed, but was not statistically significant.

Winter hardiness

Arizona common, Tufcote, Tifgreen, and Midiron bermudagrasses are being evaluated to determine winterhardiness and turf quality as related to two potash levels and three nitrogen rates and sources. Treatments consist of 3, 6 and 9 lb. N/M applied as NH_4NO_3 (1 lb. N/M May-June-July, and 1 or 1 1/2 lb. N/M each month from May to October) or 9 lb. N/M as UF or IBDU in May. Muriate of potash is added according to soil test results to maintain a high (140-160 lb. K_2O/A) and a low (60-80 lb. K_2O/A) potassium level. Potassium applications are made in late summer when night temperatures became cooler but before the first frost.

For ad on following page circle 114 on free information card

Q How do you get two for one?

A When you take advantage of the Ditch Witch COMBO, you do get two times the production potential out of one piece of modular equipment. Available on 30-HP to 65-HP class Modularmatic vehicles, the COMBO is a trencher when you need a trencher and a vibratory plow when you need a plow.

The COMBO makes it possible to change from trenching to plowing without changing attachments. Simply use the conveniently located hydraulic power controls. Another very important feature . . . the change from one operation to another does not require a change in direction of the vehicle.

The COMBO is interchangeable with other modules that fit Ditch Witch Modularmatic vehicles — just another way Ditch Witch helps you minimize your equipment investment and answer major questions as to the most efficient, economical way to purchase underground construction equipment. Ditch Witch . . . The Charles Machine Works, Inc., P.O. Box 66, Perry, Oklahoma 73077.



The COMBO on R65 Modularmatic vehicle. A COMBO-equipped vehicle's work capability can be extended even more with a utility backhoe (pictured) and hydraulic boring unit. Backfill blade is standard.



Yes, I'd like to know more about how the Ditch Witch COMBO can help me get my underground work done faster, more economically.

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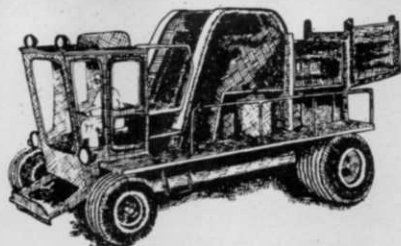
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8-77/WTT

DITCH WITCH™ HAS THE ANSWER!

You'll be A-a-a-all Alone!

(even on pay day)



That's right! With Princeton's "Automatic" Sod Harvester you can harvest up to 27,000 sq. ft. of sod per hour...all by yourself. Eliminates the need for a large field crew. Save time, money, and man-hours.

Designed for large volume sod producers who want to increase production **and** profit. Cuts, aerates, crosstie stacks and palletizes sod...ready to ship, automatically. All you do is steer!

No matter how large your volume...**all you need** is a Princeton "Automatic" Sod Harvester... and **maybe** a radio for company.

There's a Princeton for Everyone.



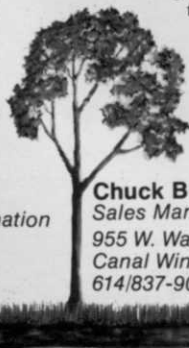
Reduced costs and increased production means bigger profits. That's why the Princeton "Self-Propelled" Sod Harvester has become the standard for the sod industry. Compare output! Three men and one machine can harvest 22,500 sq. ft. of sod per hour, completely palletized.

For the medium to large volume sod producer who wants quality, high production, and low maintenance at a moderate price.

Models available for various soil and harvesting conditions.



Designed to meet the special needs of the smaller volume sod producer. Operates behind any adequately sized, low-speed tractor. Exclusive "2 minute hook-up" capability allows you complete flexibility in the use of your power supply. With a 3 man crew, you can harvest up to 13,500 sq. ft. of sod per hour, palletized and ready to ship. The "Tow-Boy" Sod Harvester...own a **real** Princeton at one third the cost of our larger machines.



Chuck Braun
Sales Manager
955 W. Walnut Street
Canal Winchester, Ohio 43110
614/837-9096

For additional information
write or call collect:

PRINCETON
MANUFACTURING COMPANY

Circle 120 on free information card

46 WEEDS TREES & TURF/AUGUST 1977

Meeting Dates

Fourth Annual Southeastern Fluid Fertilizer Conference, Myrtle Beach Hilton, Myrtle Beach, S.C. Aug. 17-18.

National Hardware Show, McCormick Place, Chicago, Ill., Aug. 22-25.

OSU Turfgrass Field Day, OSU turfgrass research plots, Columbus, Ohio, Aug. 24.

URI 46th Annual Turfgrass Field Day, URI Turfgrass Research Farm, Kingston, R.I., Aug. 24.

Texas Society of Landscape Architects Annual Awards and Seminar, Stouffer Hotel, Houston, Tex., Aug. 27.

International Pesticide Applicators Association Convention, Thunderbird Motor Hotel, Jantzen Beach, Portland, Ore., Sept. 7-9.

1977 Mid-Atlantic Fluid Fertilizer Conference, Host Inn, Harrisburg, Pa., Sept. 14-15.

GCSA of New Jersey Annual Turfgrass Equipment, Irrigation and Supplies Field Day, Hopewell Valley Golf Club, Rt. 518 Spur, Hopewell, N.J. Oct. 4.

Northwest Turfgrass Conference, Salishan Lodge, Glendon Beach, Ore., Oct. 5-6.

5th Transworld Home Horticulture Exhibit, Chicago Ex-pocenter, Chicago, Ill., Oct. 14-17.

Southern California Turfgrass Council Annual Turfgrass Equipment & Materials Educational Exposition, Orange County Fairgrounds, Costa Mesa, Cal., Oct. 19-20.

Washington-North Idaho Seed Association Convention, North Shore Motor Hotel, Coeur d'Alene, Idaho, Oct. 28-29.

ALCA Maintenance Contractors Symposium, Northlake Hilton Inn, Atlanta, Ga., Nov. 3-4.

American Society of Agronomy, Crop Science Society of America and Soil Science Society of America Joint Meeting, Los Angeles Bonaventure and Hilton Hotels, Los Angeles, Cal., Nov. 13-18.

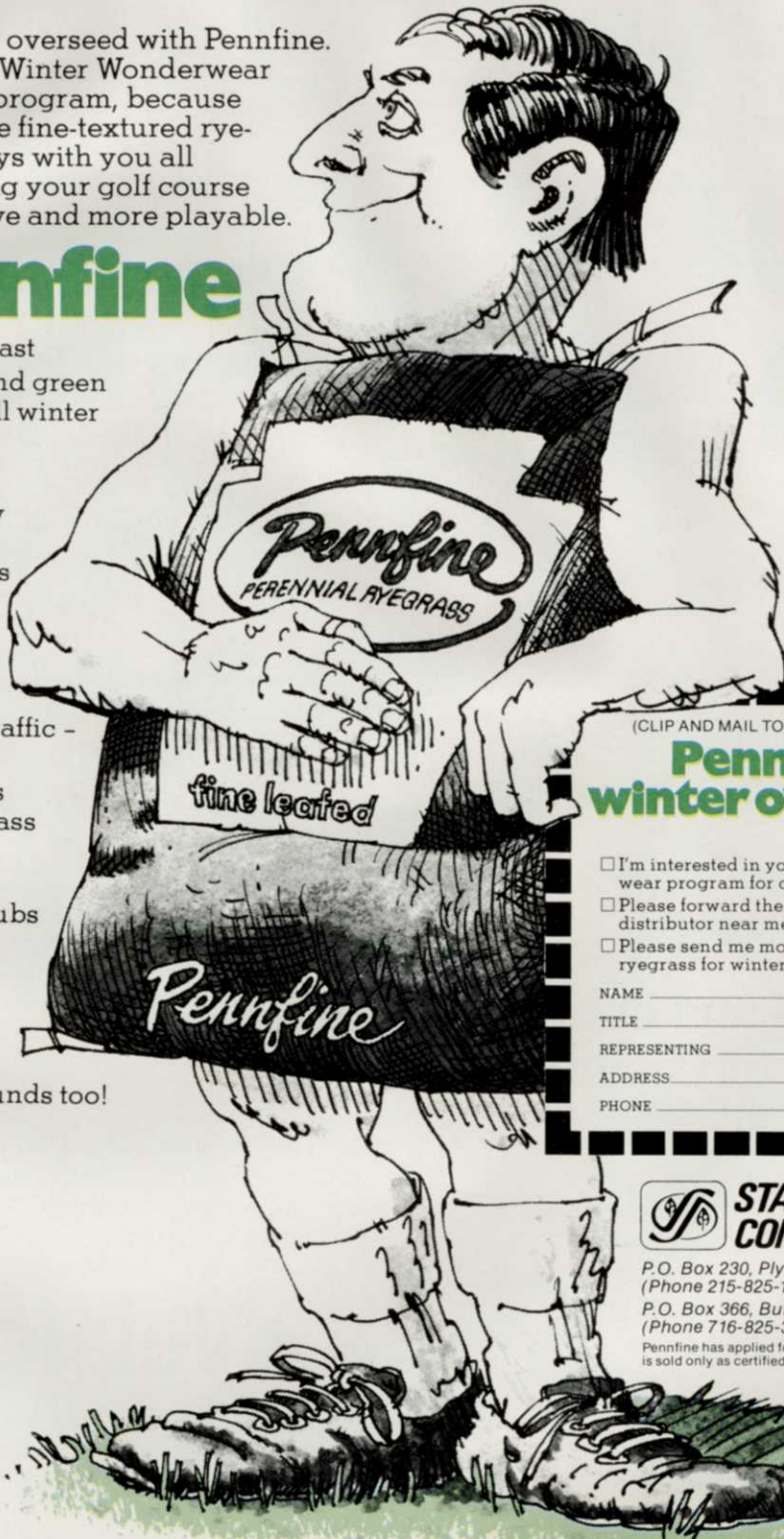
Association of Physical Plant Administrators of Universities and Colleges Convention, Radisson Hotel, Minneapolis, Minn., May 21-24.

Stanford Seed has your winter wonderwear.

This winter, overseed with Pennfine. We call it our Winter Wonderwear overseeding program, because Pennfine is the fine-textured ryegrass that stays with you all winter, making your golf course more attractive and more playable.

Pennfine

- Establishes fast
- Stays neat and green and uniform all winter
- Cuts clean
- Grows low
- Resists many common turf-killing diseases
- Withstands weather extremes
- Holds up under heavy traffic - repairs easily
- Gently yields to Bermuda grass in spring
- First choice of many top clubs and resorts
- Excellent for overseeding cemeteries, parks, athletic fields and grounds too!



(CLIP AND MAIL TO EITHER ADDRESS BELOW)

Pennfine for winter overseeding

Yes!

- I'm interested in your Pennfine Winter Wonderwear program for overseeding
- Please forward the name of the Stanford Seed distributor near me.
- Please send me more information on Pennfine ryegrass for winter overseeding.

NAME _____

TITLE _____

REPRESENTING _____

ADDRESS _____

PHONE _____ WTT-877



**STANFORD SEED
COMPANY**

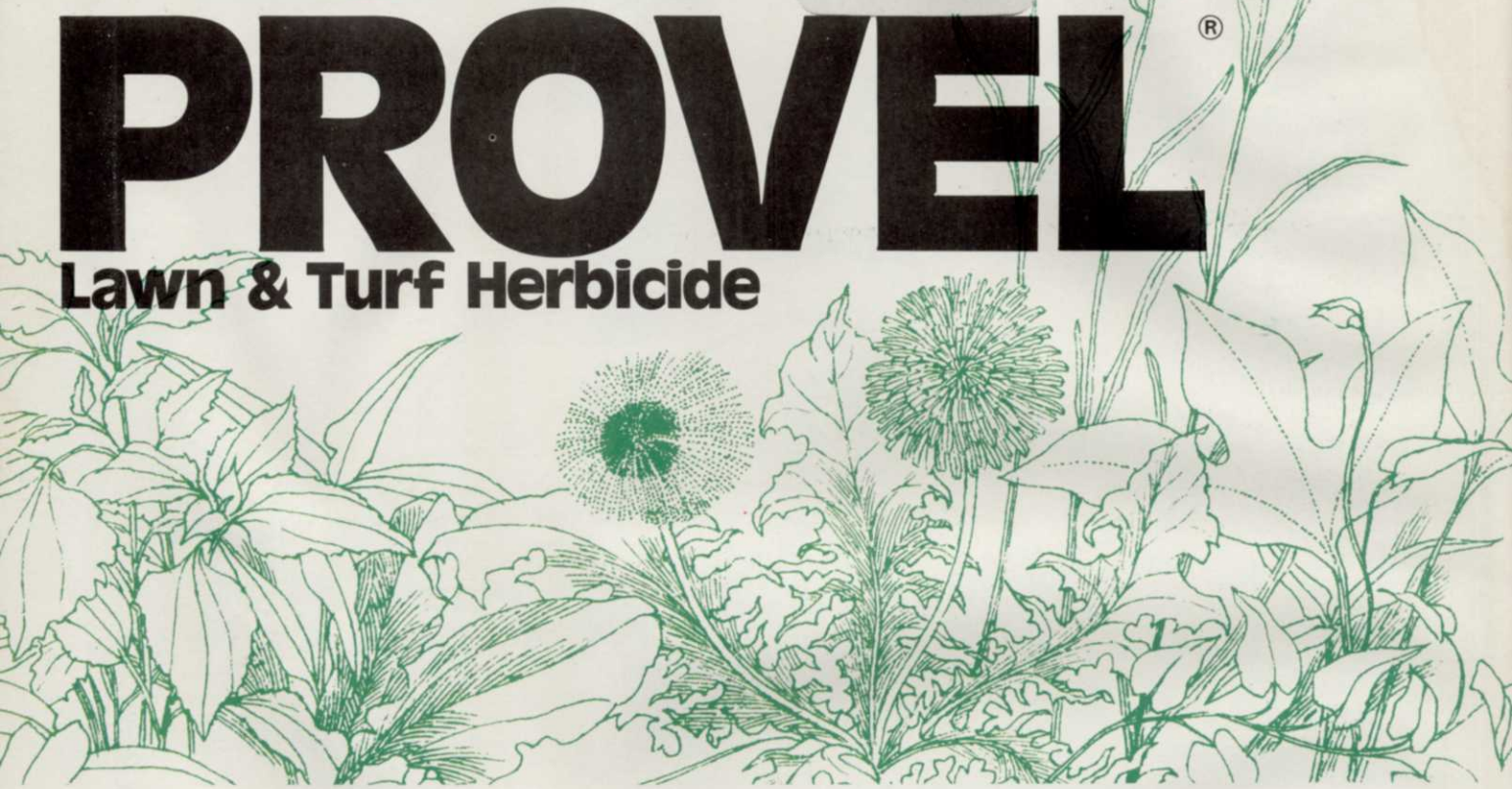
P.O. Box 230, Plymouth Meeting, Pa. 19462
(Phone 215-825-1240)

P.O. Box 366, Buffalo, N.Y. 14240
(Phone 716-825-3300)

Pennfine has applied for plant variety protection and is sold only as certified seed.

New PROVEL®

Lawn & Turf Herbicide



Controls weeds and controls costs for economical turf maintenance

PROVEL® herbicide is a new formulation of dicamba, +2,4D, proven effective against broadleaf weed pests like dandelions and plantain, plus more than two dozen other tough ones, including chickweed, knotweed, clover and English daisy (see label for complete listing). Cost savings are dramatic: you can provide broadleaf weed control for an average home lawn with less than 16¢ worth PROVEL® herbicide per 1,000 sq. ft. per application.

PROVEL® herbicide is packaged 6x1 gal. per case, 2x2½ gal. per case and 30 gal. drums.

Circle 108 on free information card

Before using any pesticide, read the label.

Contact your Velsicol turf distributor or send coupon for product data and specimen label to Velsicol Chemical Corporation, 341 East Ohio Street, Chicago, IL 60611.



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COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

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WTT-877

LAWN PROFITS THIS FALL!

For You and Your Customers



Make rapid sales
this fall with
HERITAGE HOUSE®
7-18-12 (1% Iron)
for
Winter Lawn Survival

A 25 lb. bag
covers 7,000 sq. ft.

See the full line of **HERITAGE HOUSE®**
products at Booth #4514

HERITAGE HOUSE® Products Corp., Medina, Ohio 44256

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GOODALL

The Goodall Fillies



Introducing the 52 inch cut Goodall Rear Discharge mower. A new design deck allows close trimming on both sides, helps prevent windrows and gives you a clean manicured cut (not that just-cut look). The new variable speed drive gives a wider range of ground speeds. The 3 gallon fuel tank and Hi-Way front caster wheels are standard equipment. This new mower is designed for fine lawns and rough areas. The finger tip control gives the same easy handling and hill-side stability and maneuverability as the other Goodall Self-Propelled models. Also available is a new 36 inch rear discharge mower.

Goodall Div. • 1405 Bunton Road • Louisville, Kentucky 40213
Phone 502/459-3811 Telex 204-340

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Liqui * Lawn

will sell itself!

The new, non-toxic, completely
nutritious, concentrated
LAWN FOOD
AND SOIL CONDITIONER
NO MIXING • NO SPREADING

Just attach to a garden hose
for a lush, green lawn.

Covers
5,000 Sq. Ft.

YOUR CUSTOMERS WILL LOVE IT!

See Liqui*Lawn® at booth # 4514

Liqui*Lawn®, a subsidiary of HERITAGE HOUSE® Products Corp., Medina, Ohio 44256



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and preferred by operators for precise tower control
and bucket positioning. HI-RANGERS are No. 1 in
utility and contractor preference for insulated aerial
man-lifts. Patented HI-RANGER "3D" one-hand control,
hydraulic tool line options, chip boxes, and
other features may benefit your operations. Write for
"4F-5F CATALOG".

HI-RANGER Aerial Towers meet the "American National Standard for Vehicle-Mounted Elevating and Rotating Work Platforms ANSI A92.2-1969," as required by the Williams-Steiger Occupational Safety and Health Act of 1970; Part 1910, Occupational Safety and Health Standards; Section 1910.67; Part 1926, Safety and Health Regulations for Construction; Sections 1926.451 (f), 1926.556, 1926.952 (b), and 1926.955 (e), as applicable.

SINCE 1950

HI-RANGER

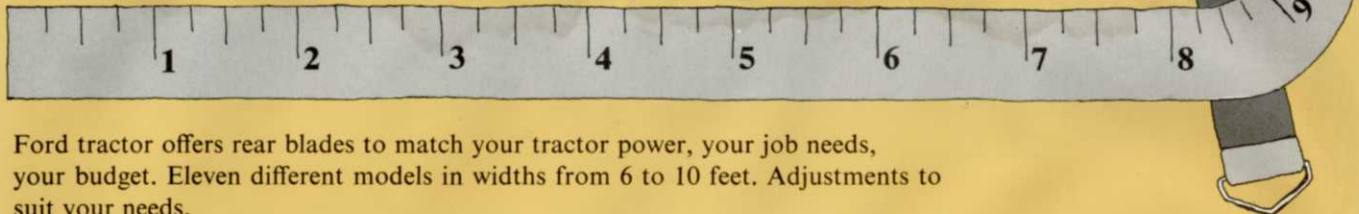


MOBILE AERIAL TOWERS, INC./Dept. N/2314 BOWSER AVE./FORT WAYNE, IND. 46803

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AUGUST 1977/WEEDS TREES & TURF 49

WE HAVE YOUR SIZE!

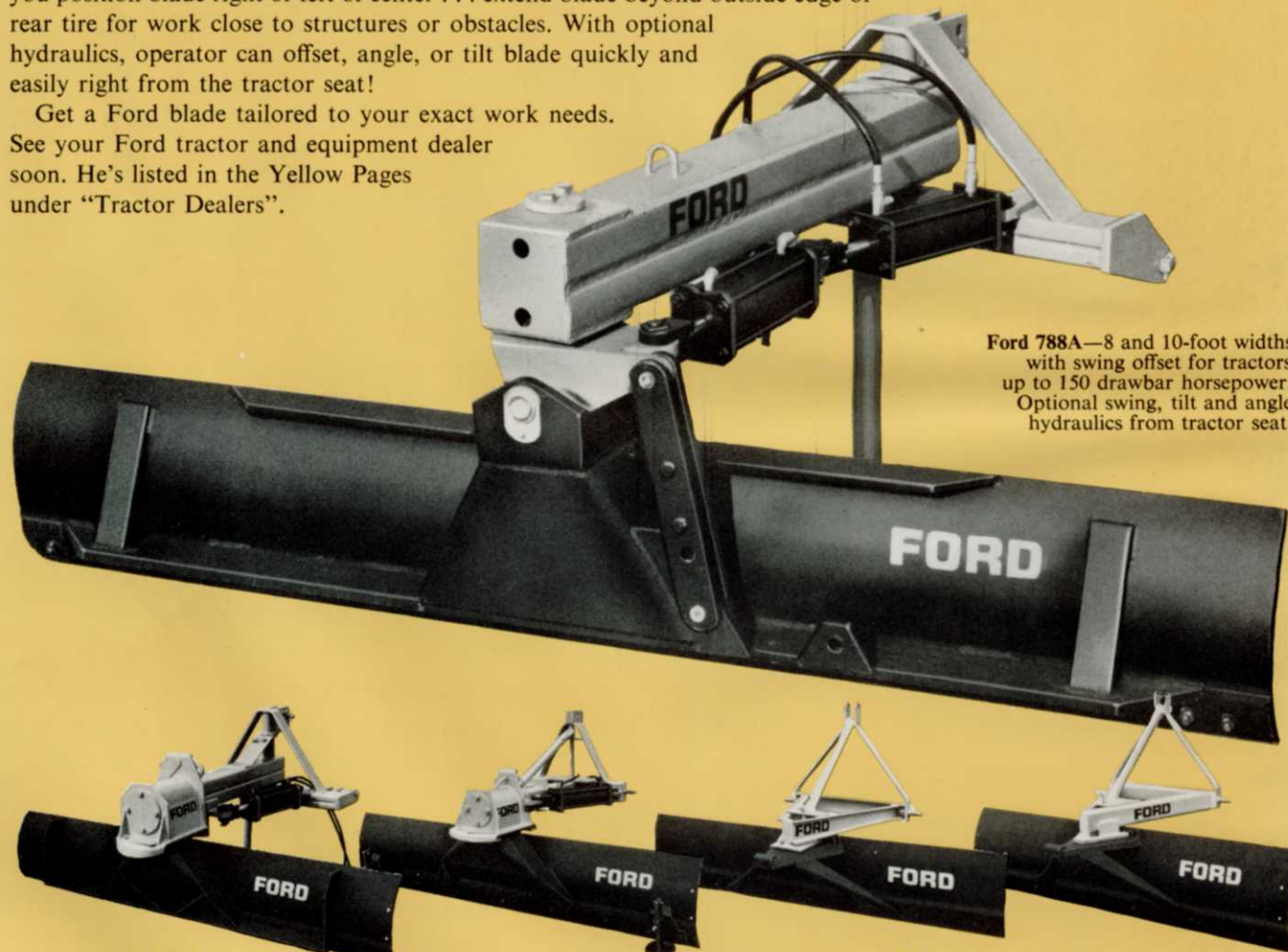


Ford tractor offers rear blades to match your tractor power, your job needs, your budget. Eleven different models in widths from 6 to 10 feet. Adjustments to suit your needs.

Look close at Ford blade design. Solid strength for grading, leveling, ditching, terracing and backfilling. Ford blades can be angled and reversed 180 degrees. Pitch adjusts through tractor top link.

Offset and tilt adjustment also available on some models. Offset adjustment lets you position blade right or left of center . . . extend blade beyond outside edge of rear tire for work close to structures or obstacles. With optional hydraulics, operator can offset, angle, or tilt blade quickly and easily right from the tractor seat!

Get a Ford blade tailored to your exact work needs. See your Ford tractor and equipment dealer soon. He's listed in the Yellow Pages under "Tractor Dealers".



Ford 788A—8 and 10-foot widths with swing offset for tractors up to 150 drawbar horsepower. Optional swing, tilt and angle hydraulics from tractor seat.

Ford 786A in 7 and 8-foot widths is designed for tractors up to 90 drawbar horsepower. Seven angle settings and manual swing offset standard. Hydraulic swing offset optional.

Ford 785A with hydraulic swing offset option is offered in 6, 7 and 8-foot widths for tractors up to 60 drawbar horsepower. Angle, offset, tilt and reverse adjustments.

Ford 782A in 6 and 7-foot widths is designed for tractors up to 35 drawbar horsepower. Five angle settings. Reversible cutting edge.

Ford 783A for tractors up to 45 drawbar horsepower is offered in 6 and 7-foot widths. Five angle settings.

FORD TRACTORS

