

## What do turfgrass experts say about Pennant\* ryegrass?

The Turf Trial results speak for themselves. Pennant is a champion. Rigidly controlled, comparative testing involving Pennant and competing varieties of perennial ryegrasses were conducted by turf experts across a broad region of the U.S.—the Pacific Northwest, the Southwest, the Northeast.

Pennant topped many of its competitors in these tests, including overseeding and heat tolerance trials in the Southwest. Some of the expert's findings are illustrated below.

Warm and cool season average turf score Southern California first-year tests, 1979.

	Poor	Best
PENNANT		
PENNFINE		5 3 7
DIPLOMAT	E d'Eles	
YORKTOWN II	NEW P	
MANHATTAN		OFFICE OF
CITATION		

Pennant was best among 12 varieties tested for red thread disease (Corticium fuciforme) in 1-year average, 1979-80. Western WA. (Low score—Best).

PENNANT	20.7 %	
CITATION	23.6 %	
DERBY	26.3 %	
PENNFINE	30.4 %	
MANHATTAN	40.4 %	
YORKTOWN II	47.8 %	

Percent winter injury. Adelphia, N.J. March 1978 (10 of 26 varieties tested showed no significant injury.)

PENNANT	0%	
MANHATTAN	0°/e	
CITATION	11%	
DERBY	14%	
PENNFINE	18%	
LINN	38%	

Average Turf Performance scores, February 1980. Southern Arizona turf overseeding on Tifgreen Bermuda. Sixteen entries seeded October 1970. (19. Best)

PENNANT	7.7	
PREMIER	7.3	
REGAL	6.3	
CBS	5.7	
DERBY	5.5	
ANNUAL	2.3	

\*Plant variety protection pending and anticipated

Turf performance scores. North Brunswick, N.J. 1975-78. (9 — Best).

YORKTOWN II		6.4
PENNANT	THE REAL PROPERTY.	6.3
CITATION	5.9	
DERBY	5.4	
PENNFINE	5.4	
MANHATTAN	5.2	

Reaction to brown patch disease (Rhizoctonia), Adelphia, N.J., 1978. (9 = least damage)

PENNANT	7.5	
YORKTOWN II	7.0	
CITATION	7.0	
REGAL	6.3	
DERBY	6.2	
PENNFINE	5.8	

Pennant was also found to maintain its excellent turf color and quality late into the season. Pennant will impress you with its rich, moderately dark green hue, its fine leaf

> blades, and its improved mowing properties. We call it "The Trophy Turf". We think you will, too.



For additional information regarding **Pennant's** truly remarkable Turf Trial performance, contact: Agriculture Service Corporation. P.O. Box 101, Harrisburg, OR 97446, Telephone: (503) 995-6124



Choosing the right golf club is a serious matter. You need one that's just right for the shot you have to make. You should take into account the distance, wind, lie, and obstacles.

At Kubota, we feel that you should devote the same careful attention to

choosing a tractor.

#### YOU WOULDN'T TEE OFF WITH A BASEBALL BAT.

And you wouldn't want to get the wrong tractor for the jobs you have to do.

Whether you take care of a golf course, an estate, a campus, a park, or do roadside maintenance, you want a tractor that's versatile. Can it handle a midmount mower? A gang mower? Can it move dirt? Dig a hole? Kubotas can do all these things. Every Kubota has rear PTO and a 3-point hitch that can accommodate a wide variety of implements. You don't want a tractor so specialized it can do only one job.

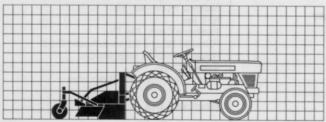
Another thing you don't want is a tractor that's too big or too small.

#### KUBOTA. THE MID-SIZE TRACTOR.

Our tractors range from 12 to 81 horsepower. Small enough for economy, large enough for heavy-duty jobs. It's wasteful to use 100 horses for some mowing. And it's impossible for 10 horses to do heavy moving or hauling.

#### DIESELS. A KUBOTA SPECIALTY.

At Kubota, we've been making diesel engines for 30 years. In fact, all our engines are diesels.



Rear-mount mowers or rotary cutters are available for all Kubota tractors.

Diesel engines are rugged and durable. They have no electric ignition system, so they never need a tune-up. And running a Kubota diesel engine costs a lot less than running a comparable gasoline engine.

With many models to choose from, we have a tractor that's just right for the maintenance job you have to do. So see your Kubota dealer today. He'll help you get hold of the right iron.

WAIT! I want more information on all your mid-size Kubotas. Please send me a free copy of your latest brochure.

Mail to: Advertising Department Kubota Tractor Corporation, 550 W. Artesia Blvd. P. O. Box 7020, Compton, CA 90224

NAME

ADDRESS

CITY COUNTY STATE ZIP

AREA CODE TELEPHONE NUMBER WTT-9





#### 1. Equipment

#### Aerators, Aquatic

Barebo, Inc.

Clean-Flo Laboratories, Inc. Hinde Engineering Co. Kembro

#### Aerators, Soil

Brinly-Hardy Co. Chipmore Mfg. Co.

Cushman OMC-Lincoln

Dedoes Ind. Inc. Dobbins Inc.

FD Kees Mfg. Co.

Feldmann Engineering & Mfg. Co., Inc. Giant Vac Mfg. Co.

Hahn Inc.

Howard Rotavator Co. Inc.

Jacobsen Mfg. Co., Div. of Textron Inc. Lindig Mfg. Corp.

Olathe Mfg. Co. Inc.

Ryan Turf Equipment/OMC Lincoln

Toro Co. Turfco Prod. Co.

Wheel Horse Prod.

#### **Agitators**

Hydroflo Corp. Hypro, Inc., Div. of Lear Siegler Inc.

#### **Aquatic Weed Cutters**

Air-Lec Industries Inc. Aquamarine Corp. Hockney Company

#### **Aquatic Weed Harvesters**

Aquamarine Corp.

#### **Aquatic Weed Shade Cloth**

Menardi Southern Corp.

#### Augers

Baker Equipment Eng. Co. Danuser Machine Co. Dayton Electric Mfg. Co. Erickson Corp. Feldmann Engineering & Mfg. Co., Inc.

Ground Hog Inc.

Hoffco Inc.

Intl. Reforestation Supplies

John Deere & Co.

Massey Ferguson Rhino by Athens & Servis, Austin Prod. States Engr. Corp.

Stihl Inc.

Tanaka Kogyo (USA)

#### **Backfillers**

Brown, Roscoe Corp.

#### **Back Hoes**

Brillion Iron Works Brown, Roscoe Corp. Ditch Witch Div., Charles Machine JCB Inc.

J I Case, Davis Div.

John Deere & Co. Vermeer Mfg. Co.

#### **Batteries. Turf Vehicle**

Delco Remy, Div. GM

FSB Inc.

Gould Automotive Battery Div.

John Deere & Co.

SGL Battery

Toro Co.

Trojan Battery Co. Wheel Horse Prod.

#### **Battery Chargers**

Dayton Electric Mfg. Co. ESB Inc. Massey-Ferguson Wheel Horse Prod.

#### **Benches**

Algoma Net. Co. American Playground Device Co. Belson Mfg. Co. Chadwick Mfg. Co. Columbia Cascade Timber Co. Dentin Mfg. Co. Game Time Inc. Gerber Mfg. Inc. Delmer F. Harris Co., Inc. Howmet Aluminum Corp. J. E. Burke Co. Jamison Inc. Kay Park-Rec Corp. L. A. Steelcraft Prod. Landscape Forms

Leisure Craft Inc. Lister Teak Furniture Mexico Forge-Kilgore

Milroy Mfg. Inc. Miracle Recreation Equip.

Morrison Molded Fiberglass N. American Rec. Conv.

Park Structures Int.

Patterson-Williams Playtime Equip. Corp.

R. J. Thomas Mfg. Co.

Rosenwach Inc.

Ryther-Purdy

Stadiums Unlimited

Standard Golf Co.

Trojan Playground Equip. Victor Stanley Inc.

#### Blades, Dozer/Scraper

#### **Allis-Chalmers**

Brillion Iron Works Dountz Equip. Co. Erickson Corp.

**Excel Industries** 

Ford Motor Co., Tractor Operations

Grasshopper Co.

Green Manufacturing, Inc. International Harvester Rhino by Athens & Servis, Austin Prod.

Seaman Co. Toro Co.

Vermeer Mfg. Co.

Wheel Horse Prod.

#### **Bleachers**

All American Outdoor Seating Alum-a-Products Corp. Belson Mfg. Co. Bil-Jax Inc. Howmet Aluminum Corp. Kay Park-Rec Corp. L. A. Steelcraft Prod. Medalist Standard Steel Patterson-Williams Playtime Equip. Corp. Portableachers Inc. Safway Steel Prod. Stadiums Unlimited Sturdisteel

#### **Blowers**

**Atwater Strong** 

Echo Inc Giant Vac Mfg. Co.

HMC, Green Machine

Jacobsen Mfg. Co., Div. of Textron Inc. John Deere & Co.

Sperry New Holland

Toro Co.

Vandermolen Corp.

Yard Vac

#### **Bridges**

**Continental Custom Bridge** 

De Bourgh Mfg. Co. L. B. Foster OME Inc.

Standard Golf Co.

Western Wood Structures

#### **Brush Cutters, Hand Held**

Dayton Electric Mfg. Co. John Deere & Co.

Echo Inc

HMC, Green Machine Hoffco Inc.

Homelite Div., Textron

Solo Motors Inc. Stanley Hydraulic Tools

Stihl Inc.

Tanaka Kogyo (USA) Walbro Corp. Weed Eater

Wilson, D.J., Co.

#### **Brush Cutters, Right-of-Way**

Bennington Tractor Co. Bombardier Ltd.

John Deere & Co. FMC, Agric. Mach. Div.

Kershaw Mfg. Co. Massey-Ferguson

National Hydro-Ax, Inc. NFI, Inc.

Pettibone Corp., Ala. Div.

Rhino by Athens & Servis, Austin Prod. Royer Foundry & Machine Co.

Vemco Corp.

Washington Industrial Resources

#### **Bucket Lifts**

Asplundh Mfg. Div. Baker Equipment Eng. Co. Calavar Corp. A. B. Chance Co., Pitman Div.

Correct Mfg. Corp.

Durnell Engineering Inc. Hunt-Pierce Corp. JLG Industries, Inc.

Mobile Aerial Towers Inc.



## **DISCOVER AMERICA!**

Experience the Beautiful Freedom of a Less Demanding Bluegrass

Efforts of University specialists and turf experts combine to bring you this

outstanding new Kentucky bluegrass....bred and tested to meet the needs of turf growers who ask for a less demanding, better of

**AMERICA** 

KENTUCKY BLUEGRASS

demanding, better performing bluegrass. Low growing and compact

with good disease resistance, dark green, fine textured and showing

good shade tolerance... America's superior qualities are being discovered by sod growers, greenskeepers and landscapers

everywhere. Join them today and discover America for yourself!

Pickseed also produces

Touchdown

Produced by

PICKSEED WEST Inc.

Tangent, OR 97389 (503) 926-8886

Write 129 on reader service card

#### Equipment

continued

Pitman Mfg. Co. Reach-All Mfg. Schwartz Mfg.

Seaman Co.

Telelect Time Mfg. Co. USA Lift Inc. Wheel Horse Prod.

#### **Chain Saws**

Allis-Chalmers
Alpina North America Inc.
Baker Equipment Eng. Co.
Black & Decker Mfg. Co.
Dayton Electric Mfg. Co.
Echo
Hinds International Inc. Equip. Div.

Homelite Div., Textron
Husquavarna Inc.

John Deere & Co.

Massey-Ferguson McCulloch Corp. Milwaukee Electric Tool New Draulics, Inc.

Robinson Ind., Limb Lopper Skil Corp.

Solo Inc.

Stanley Hydraulic Tools Stihl Inc.

Tanaka Kogyo (USA) Tensen Company, Inc.

Toro Co. Walbro Corp.

#### Chippers

Asplundh Mfg. Div. Chipmore Mfg. Co. Didier Mfg.

FMC, Outdoor Power Equip. Div.

Gruendler Co. Lindig Mfg. Corp.

Mitts & Merrill Inc. Morbark Ind. Inc. Olathe Mfg. Co. Inc.

Piqua Engr. Inc. Rhino by Athens & Servis, Austin Prod. Royer Foundry & Machine Co.

Safety Test Inc.
Spartan Tree Equip. Co.
Strong Mfg. Co.
Tensen Company, Inc.

Vandermolen Corp. Vermeer Mfg. Co.

Woodchuck Chippers

#### Cranes

Air Technical Industries Auto Crane Co. Baker Equipment Eng. Co. Cascade Corp. Dayton Electric Mfg. Co. Dountz Equip. Co. GS Industries

J.I. Case, Drott Div. Ideal Crane Co.

### Reach-All Mfg. Cultivators

#### Allis-Chalmers

Atlas Tool Mfg. Co. Bomford & Evershed Ltd. Brillion Iron Works Derby Tiller Co. Ferrari Int.

FMC, Outdoor Power Equip. Div.

Ford Motor Co., Tractor Operations Fuerst Brothers Inc. Giant Vac Mfg. Co. Honda Power Equip. Howard Rotavator Co. Inc.

John Deere & Co.

Lambert Corp.
Massey-Ferguson
McDonough Power Equip.
Precision Valley Mfg. Co.
Rhino by Athens & Servis, Austin Prod.

Satoh Agric. Mach. Mfg. Co. Tradewinds, Inc. Union Fork & Hoe Co. Wheel Horse Prod. White Farm Equip.

#### **Dethatchers**

E-Z Rake Inc.

FD Kees Mfg. Co. Giant Vac Mfg. Co. Hahn Inc.

Lambert Corp. Lewis Systems

Mathews Co.

Ryan Turf Equipment/OMC Lincoln Thatch-Away Mfg. Co.

Vemco Corp. Yard Vac

#### Dozers

Caterpillar Tractor Co. International Harvester John Deere & Co. Massey-Ferguson

#### **Drainage Tubing**

Advanced Drainage System Francesville Drain Tile Corp. Hancor Inc.– National Diversified Sales, Inc. Phillips Petroleum Co.

**Dredgers** 

Aztec Development Co.
Dredgeast, Inc.
Mud Cat Division, Nat'l Car Rental Sys.

#### Drills

Milwaukee Electric Tool
Robinson Ind., Limb Lopper
Stanley Hydraulic Tools

#### Dusters

Buffalo Turbine Ag. Equip. Chapin Mfg. Works D. B. Smith & Co. Gustafson Mfg. Co. Inc. HMC, Green Machine H.D. Hudson Mfg. Co. Root Lowell Vandermolen Corp.

#### Edgers Bunton Co.

Excel Industries
Hartwig-Hartoglass, Inc.
John Deere & Co.
K-D Mfg. Co.
Old Dutch Materials Co.

Kurb Dresser

Turfco Prod. Co. Sand Trap
Weed Eater Inc.

#### **Engines**

Allis-Chalmers Briggs & Stratton Corp.

Clinton Engines Corp.
Detroit Diesel Allison, Div. GMC
Ford Industrial Engine Operations
Honda Power Equip.

Kawasaki Motors Corp.

Kohler Co. Onan Suzuki

Tecumseh Prod. Co. Teledyne-Wisconsin Motor

#### **Erosion Control Fabric**

Carthage Mills
Construction Techniques Inc.
Nicolon Corp.
Jim Walls Company

#### **Forklifts**

Brouwer Turf Equip. Ltd. J.I. Case, Davis Div. Dynamic Industries Inc.

Guest Industries, Inc.
Harlo Products Corp.
International Harvester
K-D Mfg. Co.
Komatsu Forklift (U.S.A.) Inc.
Massey-Ferguson
Master Craft Ind. Equip. Corp.
Princeton Mfg. Co.
Spyder Sales & Service, Inc.
States Engineering Corp.

#### Generators

**Allis-Chalmers** 

Baker Equipment Eng. Co. Homelite Div., Textron Honda Power Equip. John Deere & Co. Kohler Co. Stanley Hydraulic Tools

Wheel Horse Prod.

#### **Grass Pavers**

Grass Pavers Ltd. Turfgrass Prod. Corp.

#### Greenhouses

Archway Greenhouses Atlee Burpee Co. B.F.G. Supply Co. Cloud Co. Dayni Controls Mfg. Co. Enclosures Inc. **Environmental Dynamics** Filon Home Greenhouse Hansen Weatherport J. A. Nearing Co. Lord & Burnham McGregor Greenhouses National Greenhouse Co. Reliable Greenhouses Sturdi-Built Mfg. Co. Sunglo Greenhouses Texas Greenhouse Co. Turner Equipment Co. Vegetable Factory Verandel Co. Water Works Garden Houses Weber Systems Inc.

#### **Greenhouse Covers**

Keystone Group





## P- VER

#### A WHOLE TREE CHIPPER AT A BRUSH CHIPPER PRICE

Chip trees and limbs up to 12" in diameter-Chip sawmill slabs-Chip Christmas trees-Chip dry material-No need to cut to length with the heavy duty Eeger Beever. A safe machine with no wood kickback-Operator can feed from curbside-Makes a dimensional chip-Operates with low fuel consumption and is no more expensive than a brush chipper.

Write 158 on reader service card

THE EEGER BEEVER WILL OBSOLETE THE CONVENTIONAL BRUSH CHIPPER BECAUSE:

- · It's more productive.
- · It will last longer.
- · It's less expensive to operate.
- · It's less expensive to maintain.
- · It's a safer machine to operate.

As seen in American Public Works Kansas City Sept. 13-18.



Positive Control feed rolls with instant



Chip hardwoods, softwoods, whole trees, brush and Christmas trees

CALL THE

DEALER AND DISTRIBUTOR INQUIRIES INVITED



MORBARK INDUSTRIES, INC.

WINN, MICHIGAN 48896



# THE INSECTICIDE THAT LIKES TO WORK OVERTIME.

DURSBAN\* brand insecticides provide unsurpassed residual control of cutworms, chinch

bugs, sod webworms, and a dozen

other turf pests. Both DURSBAN

2E Insecticide and double-strength DURSBAN 4E Insecticide keep working a lot longer than other turf insecticides. This residual action saves you time, trips, and labor.

It also saves you

money. In fact,

cides cost less than most other turf insecticides.

Ask your supplier for the turf insecticide that works over-

time for you. Get
DURSBAN 2E
Insecticide or
double-strength
DURSBAN 4E
Insecticide. Just be
sure to read and follow
all label directions and
precautions. Agricultural Products Department, Midland.

Michigan 48640.



\*Trademark of The Dow Chemical Company



DOW CHEMICAL U.S.A.

## Finally, An Aid For Teaching Turfgrass

Superintendents, Contractors, Lawn Care Managers, New, On-the-Job Reference. The Turf Managers' Handbook is a comprehensive, organized approach to turfgrass science and care. It has been designed and written by leading turf specialists from Purdue, Dr. William Daniel and Dr. Ray Freeborg, for on-the-job reference and as a text for students.

The book contains 150 illustrations and 96 color photographs. Data includes 240 tables and forms. Included are specifications for rootzones. employment, calculations for

chemical applications, and extensive metric-imperial conversion. Business

and technical aspects of turfgrass management are covered in this 424-page book. Planning, purchasing, hiring, construction, and plant selection are put together for easy on-the-job reference. Markets covered include lawn care, sod production, golf course management, cemeteries, athletic fields, and low maintenance areas. If it concerns turf, it's in the Turf Managers' Handbook.

#### **Ordering Information**

copies of the hardback (\$18.95 ea.)

copies of the paperback (\$14.95 ea.)

A shipping charge of \$1.25 per book must be added.

A check or money order for \_ is enclosed. Please charge to my VISA or MASTER CHARGE (circle one)

account no. , expiration date

I understand that delivery may take six to eight weeks. Quantity and bookstore rates available upon request.

Signature

Name (Print)

Address. City\_

Zip

State.

Send to: **Books Department** Business Publications Division Harvest Publishing Company 9800 Detroit Ave. Cleveland, OH 44102

