

WHEN THE MOWING GETS TOUGH, THE TOUGH KEEP MOWING.

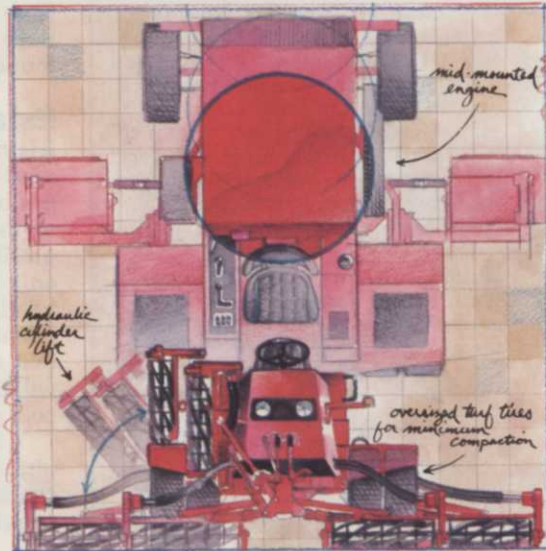
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You need a tough machine when you're tackling tough terrain. On bumpy ground. Over steep hillsides. Around obstacles. Through dense, wet grass.

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It delivers all the power you need with a proven Mitsubishi 50 hp, 4 cylinder, water-cooled diesel engine. Yet this engine saves you time and money. It burns less fuel per acre than conventional gas engines. And it has no spark plugs or carburetor to maintain or replace.

The Reelmaster 350-D maneuvers easily, thanks to fast-responding power steering. And individual



hydraulic cylinder lift raises the two outside mowers in a few seconds. So you can quickly narrow your cutting path around trees,

traps, fences, flower beds, and other obstacles. Without slowing your pace.

While you're putting it through its paces, the Reelmaster 350-D handles well. No matter what the terrain. Its mid-mounted engine and wide stance create a low center of gravity. This, combined with even weight distribution on six oversized 4-ply tires, keeps you cutting even on steep hillsides. And allows you to transport safely and easily at speeds up to 15 mph.

In addition to all this, the Reelmaster 350-D gives you rugged Toro durability to keep you cutting years longer.

Call your Toro distributor to find out more about the new Reelmaster 350-D. The professional mower that's tough enough to keep mowing even when the mowing gets tough.



TORO

**THE PROFESSIONALS
THAT KEEP YOU CUTTING.**

"Toro" is a registered trademark of The Toro Company.
8111 Lyndale Avenue South, Minneapolis, Minnesota 55420.

Circle No. 142 on Reader Inquiry Card

AUGUST 1984/WEEDS TREES & TURF 51

tolerance of heat and drought and improved overall turf performance in Kentucky trials compared to Kentucky-31.

Kentucky-31 tall fescue originated as an ecotype selection discovered growing on the William Suiter farm in Menifee County, Kentucky, where it had apparently been growing since 1887 or earlier. The variety was collected, tested and developed by the Kentucky Agricultural Experiment Station and released in 1943. Kentucky-31 is very widely used for both turf and forage purposes in the lower midwest and upper south. It is adapted to a wide range of soil types and shows a better tolerance of climatic extremes than most other tall fescue varieties. Kentucky-31 produces rather coarse, moderately open turf with a rapid rate of leaf elongation. It has moderate tolerance of net blotch, Rhizoctonia brown patch and crown rust and it shows less damage from these disease than Alta, Fawn or Goar.

Marathon is a new, moderately low growing turf-type tall fescue with medium texture, density and a dark green color. This variety was developed by International Seeds, Inc. It was derived

from elite parental clones selected in the transition zone of the U.S. Marathon has shown moderately good resistance to Rhizoctonia brown patch and net blotch and good resistance to crown rust. It has exhibited good heat and drought tolerance and is being marketed exclusively by Hubbard Seed Supply, Hubbard, Oregon.

Maverick was developed by Pickseed West Inc. of Tangent, OR, using germplasm from the USDA, Beltsville, MD. It is a moderately low growing, medium-fine textured variety with a pleasing medium dark green color. Maverick has better heat tolerance than most turf tall fescues and has very good shade tolerance. It is adapted to the upper south or transition zone and to low to medium turf management.

Mustang was developed by Pickseed West, Inc. of Tangent, Oregon, using germplasm obtained from the New Jersey Agricultural Experiment Station. It is an attractive, leafy, moderately low growing, turf-type variety with medium texture and density. The variety has very good shade adaptation and good fall low temperature color retention and spring greenup. It has shown very good resistance to net

sistance to certain tall fescue varieties. This fungus normally produces no external symptoms and lives only within the tissues of plants by growing between the cells. It is transmitted from one generation to the next by seed. After seed has been stored for two years or more usually the percentage of seeds with viable endophyte goes down to very low levels.

Many of the new turf-type varieties of tall fescue have been found to have low percentages of infection in their seed lots, while KY-31 has been found to have levels over 90 percent.

Establishment

It is very important that quality seed be used to produce quality turf. Seed that has been certified with a seal and tag on the bag should be used when ever possible. Usually certified seed costs only 5-10 percent more than uncertified, and the consumer can be confident he is getting seed of a variety that the breeder has described. This will help to avoid varietal substitution, poor germination and low purities.

It is also important that there are no objectionable crop (such as orchardgrass, bentgrass, poa trivialis and ryegrass) or weed (annual blue-

continued on page 58



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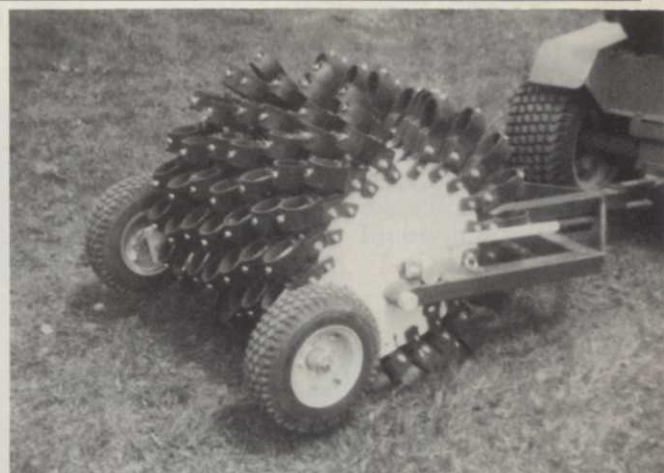


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Circle No. 122 on Reader Inquiry Card

A Powerful, Anti-Pesticide Lobby is Substituting Scare-Talk for Science. You are the Target.

FACT: The overwhelming, supportable, verified conclusions of the scientific community find that pesticides are not an immediate, inherent, or significant danger to our society.

FACT: The obvious benefits of pesticides to mankind far outweigh any possible proven risk.

But sometimes facts aren't enough. A powerful, well-funded and growing coalition of self-appointed "public interest" groups are mounting an ever-accelerating attack on pesticides and their use. Lacking hard, scientific data to support their cause, they have substituted emotion, pseudo-science, and sophisticated media manipulation.

If they succeed, the result will be disastrous for our health and our economy. And if the use of pesticides is an important part of your business, you would most likely be out of business.

This is not scare talk. The threat is real.

Item: HR 3818, a proposed congressional amendment to FIFRA would devastate the pesticide registration process.

Item: Federal courts, by relying on National Environmental Policy Act technicalities, have banned governmental herbicide spraying.

Item: Recently introduced HR 5495 would tighten governmental procedures for changing pesticide tolerances and exemptions, and would authorize emergency action with respect to pesticides which "present an imminent hazard to the public health."

This threatening trend in national legislation, combined with the absolute explosion of state and local government pesticide regulatory efforts, could result in nothing less than an effective ban on pesticides.

What can we do about it?
Plenty!

We must tell our story. We must reassert the benefits we gain from pesticides - disease prevention; pest-free hospitals,

restaurants and homes; an agricultural industry that is the envy of the world; and an enjoyable environment.

That's why we're asking your support of 3PF - The Pesticide Public Policy Foundation. 3PF was organized in September, 1983, by the National Arborists Association, the Professional Lawn Care Association of America, and other interested affiliates. The goals of 3PF are straightforward:

- To identify, inform, involve, and educate those of us who recognize that pesticides are necessary and safe to use for health protection, environmental enhancement, and our nation's economic growth.

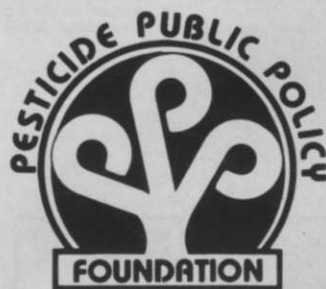
- To combat federal, state, and local regulatory initiatives that unreasonably or unnecessarily impact pesticide development and usage.

- To get the facts to the decision-makers, the media, and the public before the emotional momentum building against pesticides overwhelms all opposition.

To succeed, we need your help. It's that simple. And we need your financial backing. The groups seeking to cripple pesticide usage have vast financial resources to draw from. If we are to have any chance against this juggernaut we must have sufficient funds to put up a fight.

Without your financial support we will not succeed. Join us now. The final chapter in the pesticide story is yours to complete. If you want to help, return the coupon or call 3PF today.

**CALL TOLL FREE:
1-800-438-7773.**



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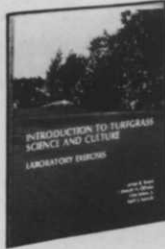
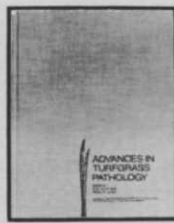
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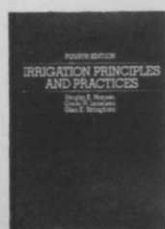
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114	128	142	156	170	184	198	212	226	240	254	268	282	296	310	324	338

WEEDS TREES & TURF

AUGUST 1984

This card expires
Oct. 15, 1984

MY PRIMARY BUSINESS AT THIS LOCATION IS:
(PLEASE CHECK ONE ONLY IN EITHER A, B OR C)
**A. LANDSCAPING/GROUND CARE AT ONE OF THE
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 0015 Parks
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 0050 Cemeteries/memorial gardens
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 0065 Airports
 0070 Multiple government/municipal facilities
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 0110 Lawn care service companies
 0125 Landscape architects
 0135 Extension agents/consultants for horticulture
 Other contractor or service
(please specify) _____

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- 0205 Sod growers
 0210 Dealers, Distributors
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Approximately how many acres of vegetation do you maintain
or manage? _____

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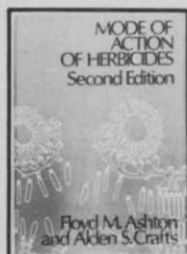
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TALL FESCUE from page 52

blotch, and moderately good resistance to Rhizoctonia brown patch. Mustang has good tolerance to close mowing with minimal thatching. Seed is commercially available.

Olympic was developed by Pure-Seed Testing, Inc. of Hubbard, Oregon using germplasm developed at the New Jersey Agricultural Experiment Station. It was released by Turf-Seed, Inc. Most of its parental germplasm was collected from old turfs in Alabama, North Carolina and New Jersey. The first certified seed was produced in 1981. Olympic is an advanced generation synthetic variety derived from the progenies of eight clones. These parental clones were selected from spaced-plant nurseries because of attractive appearance, freedom from disease, softness of leaves, ability to resist leaf roll during hot dry weather, dark green color, and promising seed yield potential. Single plant progenies of selected clones were evaluated in closely mowed turf trials in New Jersey and Oregon. Seedlings from clones showing the best progeny performance were screened for resistance to crown rust, uniform maturity, attractive appearance, and acceptable seed yield. Breeder seed was harvested from the remaining 1004 plants. Olympic is an attractive, leafy, persistent turf-type variety with a dark green color, medium texture and density, and a moderately low growth profile. It has good heat tolerance, performs well in moderate shade and has very good color retention in late fall. It has good resistance to net blotch and crown rust and moderately good resistance to Rhizoctonia brown patch. It retains an acceptable green color at low nitrogen fertility levels. Olympic has shown less iron chlorosis than other tall fescues on alkaline soils in California. Commercial seed is available.

Rebel tall fescue was developed by Lofts Seed, Inc. from germplasm obtained from the New Jersey Agricultural Experiment Station. Plants collected from old turfs of New Jersey and surrounding states contributed most of the germplasm of Rebel. Additionally, part of the parental germplasm was obtained from a number of accessions received from the United States Plant Introduction program and from trispecies hybrids of tall fescue, meadow fescue, and perennial ryegrass obtained from the United States Regional Pasture Research Laboratory; University Park, Pennsylvania. Clones of the original accessions were initially evaluated in nurseries subjected to frequent close mowing. Single plant progenies of the most promising selections were subsequently subjected to three cycles of phenotypic recurrent selection for persistence, attractiveness, disease resistance, and performance in turf trials maintained at three-quarter-inch cutting height. Rebel is a turf-type variety

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Pythium weather. High temperatures, high humidity and high anxiety. Once Pythium takes root, it can destroy turf within hours.

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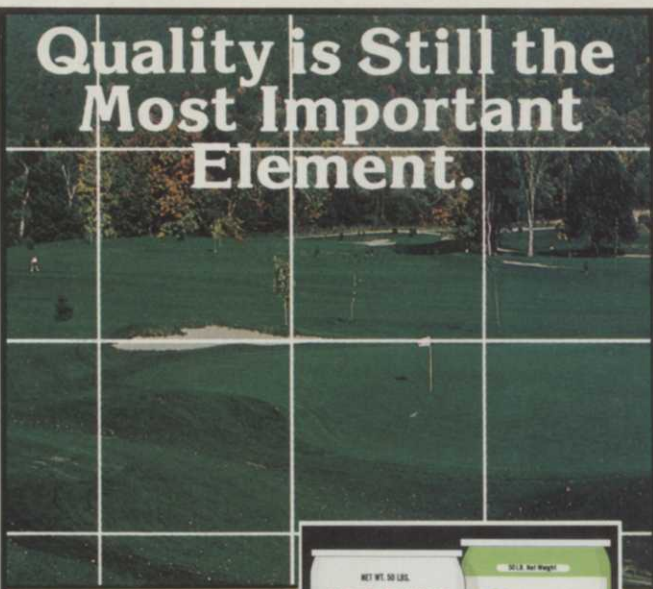


**HOW TO AVOID SLEEPLESS NIGHTS
DURING PYTHIUM WEATHER.**

SUBDUE

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EVERY PROFESSIONAL KNOWS THAT QUALITY IS STILL THE MOST IMPORTANT ELEMENT IN ANY COMPLETE TURF CARE PROGRAM. Let's face it - low price is no substitute for poor product.

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P.O. Box 647, Danville, IL 61832



that has an attractive, leafy, persistent turf of greater density, finer texture, and a slower rate of vertical growth than most of the commercially available varieties of tall fescue. Rebel has improved resistance to brown patch and moderate resistance to net blotch. Rebel became commercially available following the 1979 harvest.

Tempo is a new moderately growing turf-type tall fescue developed by Agriculture Services Corp. from selections from old turf areas in and around Ocean Shores, Maryland. It has a medium green color with medium texture and density. *Tempo* has moderate resistance to net blotch with improved drought tolerance. Selection was made for plants with narrower leaves and a slower rate of vertical leaf growth. Commercial seed will be produced and marketed by Normarc, Inc., Tangent, Oregon and will be available Fall of 1984.

Willamette is a new moderately low growing turf-type tall fescue with an attractive moderately dark green color. It has a medium texture and density and was developed by International Seeds, Inc. *Willamette* was derived from elite clones selected from old turf areas in the midwest and mid-southern U.S. It has shown improved resistance to brown patch and crown rust and moderate resistance to net blotch. This variety has also shown improved heat, cold and drought tolerance and will be marketed by Willamette Seed and Grain Co., Albany, Oregon. □

grass or velvetgrass) seeds in a lot.

Most of the KY-31 is grown as a by-product of pastures in Missouri. Much of the seed from this production contains orchardgrass or other serious contaminants of tall fescue turf.

Much of the seed produced in western Oregon is produced by professional seed growers and the quality is generally better than the southern production. The two contaminants that can occur in Oregon production are annual and perennial ryegrass. These ryegrasses can cause severe competition during establishment and reduce turf quality. Some of the perennial ryegrasses may persist and cause a clumpy appearance.

Ground preparation, soil fertility, lime, seed placement and irrigation requirements at planting time are similar to other cool-season turf species. The seeds should be placed at a depth of 1/8-1/4 inch. Rolling the ground after seeding aids in making good seed contact and makes the surface smoother. The surface must be kept moist until germination occurs.

When optimum conditions exist,