WHEN THE MOWING GETS TOUGH, THE TOUGH KEEP MOWING.

INTRODUCING THE REELMASTER 350-D.

You need a tough machine when you're tackling tough terrain. On bumpy ground. Over steep hillsides. Around obstacles. Through dense, wet grass. You need the Toro Reelmaster 350-D.

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.

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
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 is 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 persistence 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-
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.

With all that's going on, I want to stand up for my rights! Send me more information on 3PF and what it can do for me and my business.

NAME ____________________________
COMPANY ____________________________
ADDRESS ____________________________
CITY ____________________________ STATE __________ ZIP __________
PHONE ____________________________

☐ I want to help, but please send more information.
☐ I want to help now, so I'm enclosing my check for
$ __________

Mail to:
Pesticide Public Policy Foundation
1511 K St. NW, Suite 623
Washington, D.C. 20005
BOOKSTORE

645 MANAGEMENT OF TURFGRASS DISEASES by J.M. Vargas
Identifies turfgrass diseases by description and illustration. Includes a holistic approach to healthy turf and lawns. Presents practical management strategies for golf courses, lawns and athletic fields. 204 pages, $24.95.

555 - TURF MANAGEMENT FOR GOLF COURSES by James B. Beard
Written by an eminent turfgrass researcher, this USGA sponsored text is an ideal reference and "how to" guide. Details all phases of golf course operations including course design and construction, turf management, course irrigation, equipment and disease and pest control. Fully illustrated. $43.90.

110, 120 TURF MANAGERS' HANDBOOK by Daniel and Ray Freenborg
This specialty-oriented manual by leading turf specialists is a comprehensive, organized approach to turfgrass science and care. An easy, on-the-job reference for planning, purchasing, hiring, construction and plant service. $19.95 hardcover, $23.95 paperback.

665 - ARBORICULTURE: THE CARE OF TREES, SHRUBS AND VINES IN THE LANDSCAPE by Richard W. Harris
Provides comprehensive coverage of complete planting, site analysis, preparation and special planting methods, fully-detailed coverage of fertilization, irrigation and pruning guidelines on preventative maintenance, repair and chemical control. How to's of diagnosing plant problems, practical data on non-infectious disorders, diseases, insects and related pests and pest management. $34.95.

360 - LANDSCAPE DESIGN: A PRACTICAL APPROACH by Leroy Harnearbaum
Geared for the commercial designer/salesperson, this is a one-stop guide to the landscape design process. Covers the entire highly competitive field including design analysis techniques, pointers on land forms, specialized business landscaping methods, environmental design guidelines, specifications, standards and evolution of the golf course, photos, and recognition they deserve. 320 pages, $27.95.

360-RESIDENTIAL LANDSCAPING I by Theodore D. Walker
An in-depth discussion of the planning, design and construction phases of residential landscaping. Illustrated with the work of professional landscape architects. Covers everything from analyzing the site to constructing the landscape. $22.50.

405 - WOODY ORNAMENTALS by Parrya, Joynier, Nielsonpark
Carver illustrates plant identification characteristics. Organized in two basic sections: plant identification and plant disorders. This text utilizes 430 color photos, 430 line drawings and 45 black and white photos to simplify identification. Goes into detail on plant identification and description as well as plant problems such as diseases, insects, animals and physiological disorders. $27.95.

655 - TURFGRASS: SCIENCE AND CULTURE LABORATORY MANUAL by Beard, DiPasqua, Johns and Karnok
Class tested for over three years, this manual provides fourteen exercises which can be easily adapted to your particular course structure. Exercises involve students in investigative and seed identification, equipment and irrigation system selection and operation. Problem solving of typical math problems involved in turfgrass science, diseases and insects. Encompasses both warm and cool season turfgrass. $12.95.

395 - LANDSCAPE ARCHITECTURE by John Ormsbee Simonds
A Manual of Site Planning and Design. This long-awaited second edition outlines and analyzes the complete landscape process from site selection to finished project. In simple and clear terms it describes various planning constraints imposed by the forms, forces and features of the natural and built landscape. $24.95.

800-THE GOLF COURSE by Geoffrey S. Cornish and Donald E. Wert
The first book ever to give the art of golf course design its due, and golf course architecture the credit and recognition they deserve. 320 pages and approximately 150 color and black and white photographs. Traces the history and evolution of the golf course, analyzes the great courses, shows how they were designed and constructed. $35.00.

675-HILLIER'S MANUAL OF TREES & SHRUBS by H.G. Hillier
This 5th edition is a unique resource for selecting new shrubs and distinguishing between those already in the garden. Provides descriptions of over 8,000 plants with information on color, size and habit. Sections on nomenclature and classification, planting, pruning and garden planning, plus an illustrated glossary, add to the usefulness of a book that will prove invaluable to both beginners and experienced gardeners. $28.50.

635 - IRRIGATION PRINCIPLES AND PRACTICES by Hansen.
A new fourth edition of this highly successful textbook presents the essential concepts pertaining to water conveyance, application, storage, and distribution for irrigation systems for the plants. Basic underlying principles that govern irrigation practices are stressed. General concepts are discussed and newly formulated operations and the diagnosis of problems with emphasis on weeds, diseases and insects. $39.95.
For fastest response, use the peel-off label from the front cover.

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>FIRM</th>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
</tr>
</thead>
</table>

TELEPHONE ( )

101 115 129 143 157 171 185 199 213 227 241 255 269 283 297 311 325
102 116 130 144 158 172 186 200 214 228 242 256 270 284 298 312 326
103 117 131 145 159 173 187 201 215 229 243 257 271 285 299 313 327
104 118 132 146 160 174 188 202 216 230 244 258 272 286 300 314 328
105 119 133 147 161 175 189 203 217 231 245 259 273 287 301 315 329
106 120 134 148 162 176 190 204 218 232 246 260 274 288 302 316 330
107 121 135 149 163 177 191 205 219 233 247 261 275 289 303 317 331
108 122 136 150 164 178 192 206 220 234 248 262 276 290 304 318 332
109 123 137 151 165 179 193 207 221 235 249 263 277 291 305 319 333
110 124 138 152 166 180 194 208 222 236 250 264 278 292 306 320 334
111 125 139 153 167 181 195 209 223 237 251 265 279 293 307 321 335
112 126 140 154 168 182 196 210 224 238 252 266 280 294 308 322 336
113 127 141 155 169 183 197 211 225 239 253 267 281 295 309 323 337
114 128 142 156 170 184 198 212 226 240 254 268 282 296 310 324 338

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 FOLLOWING TYPES OF FACILITIES:
- 0005 Golf courses
- 0010 Sport complexes
- 0015 Parks
- 0020 Rights-of-way maintenance for highways, railroads & utilities
- 0025 Schools, colleges & universities
- 0030 Industrial & office parks/plants
- 0045 Condominiums/apartments/housing developments/hotels/resorts
- 0050 Cemeteries/memorial gardens
- 0060 Military installations & prisons
- 0065 Airports
- 0070 Multiple government/municipal facilities

B. CONTRACTORS/SERVICE COMPANIES/CONSULTANTS:
- 0105 Landscape contractors (installation & maintenance)
- 0110 Lawn care service companies
- 0125 Landscape architects
- 0135 Extension agents/consultants for horticulture

C. SUPPLIERS:
- 0205 Sod growers
- 0210 Dealers, Distributors

Approximately how many acres of vegetation do you maintain or manage?
What is your title? (please specify)
I would like to receive (continue receiving) WEEDS TREES & TURF each month: YES □ NO □

Your Signature: ____________________________ Date: ________________
**ADDITIONAL TITLES**

<table>
<thead>
<tr>
<th>Book Number</th>
<th>Title</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>340</td>
<td>CONSTRUCTION DESIGN FOR LANDSCAPE ARCHITECTS</td>
<td>$39.50</td>
</tr>
<tr>
<td>410</td>
<td>DISEASES &amp; PESTS OF ORNAMENTAL PLANTS</td>
<td>$32.50</td>
</tr>
<tr>
<td>660</td>
<td>DISEASES OF SHADE TREES</td>
<td>$23.50</td>
</tr>
<tr>
<td>610</td>
<td>DISEASES OF TURFGRASSES</td>
<td>$30.00</td>
</tr>
<tr>
<td>350</td>
<td>HANDBOOK OF LANDSCAPE ARCHITECTURAL CONSTRUCTION</td>
<td>$48.50</td>
</tr>
<tr>
<td>510</td>
<td>HORTUS THIRD</td>
<td>$125.00</td>
</tr>
<tr>
<td>590</td>
<td>INSECTS THAT FEED ON TREES &amp; SHRUBS</td>
<td>$47.50</td>
</tr>
<tr>
<td>370</td>
<td>LANDSCAPE OPERATIONS: MANAGEMENT, METHODS &amp; MATERIALS</td>
<td>$20.95</td>
</tr>
<tr>
<td>545</td>
<td>MODERN WEED CONTROL</td>
<td>$21.50</td>
</tr>
<tr>
<td>700</td>
<td>THE PRUNING MANUAL</td>
<td>$15.95</td>
</tr>
<tr>
<td>720</td>
<td>SHRUB IDENTIFICATION</td>
<td>$8.00</td>
</tr>
<tr>
<td>750</td>
<td>TREE IDENTIFICATION</td>
<td>$9.95</td>
</tr>
<tr>
<td>760</td>
<td>TREE MAINTENANCE</td>
<td>$35.00</td>
</tr>
<tr>
<td>640</td>
<td>TURF IRRIGATION MANUAL</td>
<td>$22.95</td>
</tr>
<tr>
<td>620</td>
<td>TURF MANAGEMENT HANDBOOK</td>
<td>$18.00</td>
</tr>
<tr>
<td>650</td>
<td>TURFGRASS MANAGEMENT</td>
<td>$21.95</td>
</tr>
<tr>
<td>630</td>
<td>TURFGRASS: SCIENCE &amp; CULTURE</td>
<td>$27.95</td>
</tr>
<tr>
<td>570</td>
<td>WESTCOTT'S PLANT DISEASE HANDBOOK</td>
<td>$36.50</td>
</tr>
</tbody>
</table>

**CLOSEOUTS**

ORDER THESE TITLES AT SPECIAL REDUCED PRICES!

<table>
<thead>
<tr>
<th>Book Number</th>
<th>Title</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>455</td>
<td>THE GRAFTERS HANDBOOK</td>
<td>$16.95</td>
</tr>
<tr>
<td>460</td>
<td>GREENHOUSE ENVIRONMENT</td>
<td>$21.20</td>
</tr>
<tr>
<td>335</td>
<td>LANDSCAPE DESIGN THAT SAVES ENERGY</td>
<td>$8.50</td>
</tr>
</tbody>
</table>
Remember the name because you're going to hear a lot about it. Fylking Kentucky bluegrass lawn is something special. It forms a dense, thick turf, more disease and drought resistant. Greens up earlier, stays greener longer. Fylking can be cut as low as ½ inch, even ⅜ inch for home putting greens. Proven over many years of international certified testing. Ask your seed distributor for Fylking.

Fylking — the World's Fair grass.

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 tri-species 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.
Subdue. The most effective fungicide against Pythium blight and damping-off.

Pythium weather. High temperatures, high humidity and high anxiety. Once Pythium takes root, it can destroy turf within hours. Unless you take a grass-roots approach to Pythium. With Subdue:

Subdue works both on contact and systemically.

Subdue fights Pythium blight and damping-off—as well as downy mildew (yellow tuft)—in two ways. On contact, Subdue destroys the fungi in the soil. Systemically, Subdue prevents disease from within grass plants. That's because Subdue is water soluble—easily absorbed by roots. So Pythium—and now, downy mildew—don't have a chance.

Subdue also controls costs.

Subdue's systemic action means longer, more effective residual protection. Fewer applications. Lower chemical costs. And savings in maintenance and labor. And Subdue's low application rate—1 to 2 fluid oz. per 1,000 sq. ft. for 10 to 21 days on established turf—makes Subdue the most cost-efficient protection you can buy.

Before Pythium weather strikes, subdue it. Use Subdue in a preventive maintenance control program. And get a good night's sleep.

Ciba-Geigy, Ag Division, Box 18300, Greensboro, NC 27419.
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. Challenged by tough turf problems together with rising costs, you just can’t afford to play games with products that don’t perform consistently and economically. You need quality turf products you can depend on.

You need COUNTRY CLUB AND GREENSKEEPER PROFESSIONAL TURF PRODUCTS from LEBANON. COUNTRY CLUB AND GREENSKEEPER FERTILIZERS ARE OF THE HIGHEST QUALITY HOMOGENOUS GRADES MADE TODAY — GIVING YOU MORE FEEDING POWER FOR YOUR DOLLARS. What makes homogenous fertilizers better? Each pellet contains a chemically-balanced combination of N-P-K, regardless of the material’s sizing and coverage. The plant root needs only to come in contact with one pellet to receive a balanced diet. Consequently, you get even element distribution.

WHATEVER YOUR TURF NEEDS, THERE’S A COUNTRY CLUB/GREENSKEEPER PRODUCT SPECIALLY FORMULATED TO MEET THEM — ALL WITHIN YOUR BUDGET! Backed with over 35 years of extensive university and end-use testing, we offer you the most complete line of fertilizers and control products available on the market as well as a full range of S.C.U. blends and chemicals.

LEBANON CHEMICAL has the flexibility to formulate exactly the analysis your turf tests indicate to be most beneficial. We are fully equipped to manufacture your private label requirements when needed.

EVERY COUNTRY CLUB AND GREENSKEEPER PRODUCT IS BACKED WITH A TOTAL COMMITMENT TO SERVE YOU BETTER. Our technically experienced staff is eager to assist you in solving turfgrass problems and will design a complete turf care program for you! Plus you’re supported by LEBANON’s solid network of distributors throughout the country that ensure you of product availability and prompt service.

THIS SEASON DEPEND ON COUNTRY CLUB AND GREENSKEEPER FERTILIZERS!! Call Today for more complete information. Distributor inquiries invited.

- Made in America

---

grass or velvetgrass) seeds in a lot.

Most of the KY-31 is grown as a byproduct 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,