

A supplement to:

LANDSCAPE MANAGEMENT

SIXTH ANNUAL

Seed Pocket Guide 1994

Turfgrass uses 🌿 Blends and mixes
NTEP results 🌿 Turfgrass suppliers



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LANDSCAPE MANAGEMENT

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806	816	826	836	846	856	866	876	886	896
807	817	827	837	847	857	867	877	887	897
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Contents

Section 1:	<i>Turfseed characteristics</i>	S-4
Section 2:	<i>Blends and mixes</i>	
	<i>Turfgrass blends</i>	S-6
	<i>Turfgrass mixes</i>	S-10
Section 3:	<i>NTEP evaluations</i>	
	<i>Kentucky bluegrass, medium/high maint.</i>	S-16
	<i>Perennial ryegrass</i>	S-20
	<i>Seeded bermudagrass</i>	S-24
	<i>Turf-type tall fescue</i>	S-28
Section 4:	<i>Turfgrass suppliers</i>	S-33
	<i>Ad index</i>	S-34

On the following pages, you will find valuable information that will make your job of selecting the right seed easier this summer and fall. You can use this sixth annual Seed Pocket Guide throughout the year. For additional copies, phone Advanstar Marketing Services at (216) 891-2630 or write Advanstar Marketing Services, 7500 Old Oak Blvd., Cleveland, OH 44130.

Cover photo: Tall fescue seedhead by Larry Kassell, Kassell Concepts, Silverton, Ore.



Section 1

S E E D

	Seeds per lb.	Growth habit	Leaf growth	Establish- ment rate	Compet- itiveness
Perennial ryegrass	280,000	Bunch	Very fast	Very fast	High
Tall fescue	225,000	Bunch	Medium	Medium	Low/med.
Chewings fescue	385,000	Bunch	Slow/med.	Medium	Medium
Creeping fescue	320,000	Tillers	Slow/med.	Medium	Low/med.
Kentucky bluegrass	1,300,000	Rhizomes	Slow/med.	Slow	Medium
Bentgrass, creeping	7,000,000	Stolons	Med./fast	Medium	High
Zoysiagrass	1,000,000	Stolon/ rhizome	Slow	Poor	High
Bermudagrass	1,500,000	Stolon/ rhizome	Fast	Very fast	Excellent
Buffalograss	68,000	Stolons	Slow	Fair	Medium

SOURCES: Dr. Bill Meyer, Turf-Seed Testing; Dr. Milt Engelke, Texas A&M; Dr. Terry Riordan, Univ. of Nebraska; "Turfgrass: Science & Culture" by Dr. James Beard; Lisa Dacey, Jacklin Seed

C H A R A C T E R I S T I C S

Thatch formation	Shade tolerance	Drought tolerance	Cold tolerance	Traffic, wear tol.	Seeding rate
Low	Good	Very good	Good	Excellent	250-400 lbs./acre
Low/med.	Very good	Very good	Very good	Very good	250-400 lbs./acre
High	Very good	Good	Very good	Fair	200-300 lbs./acre
Medium	Very good	Good	Very good	Poor	200-300 lbs./acre
Med./high	Fair	Good	Very good	Good	60-100 lbs./acre
High	Fair	Poor/fair	Excellent	Good	30-50 lbs./acre
Medium	Good	Good	Med./poor	Excellent	45-100 lbs./acre
High	Poor	Excellent	Poor	Very good	80-120 lbs./acre
Low	Poor	Excellent	Fair	Varies	45-90 lbs./acre



Section 2

TURFGRASS BLENDS

Blend (Co.); ingredients; notes and special uses

Accent Perennial Rye (Medalist) perennial ryegrass for overseeding warm-season grass, athletic fields, home lawns, parks

Bamert (Bamert) 50% Plains buffalograss, 50% Hachita blue grama for low maintenance turf areas, earlier green-up

Blue 100 (O.M. Scott) 35% Victa, 35% Abbey, 30% Coventry Kentucky blue for disease resistance, low growth, full-season color

CBS II (Turf-Seed, Pennington) Morning Star, Sunrise 246, Pennington 240 perennial rye for overseeding golf tees, green, fairways and athletic fields

C.E.O. (International Seeds, Jacklin) Cobra, Putter, Emerald creeping bentgrass for winter overseeding of golf course greens, tees, fairways

Champion (Seed Research) SR4000, SR4100 perennial ryegrasses for sports turf, home lawns, parks

Champion G.Q. (Seed Research) SR4000, SR4100, SR4200 perennial ryegrasses for golf course-quality turf

Compact Blend (Lesco) Trailblazer, Trailblazer, Lancer tall fescues for heat and drought tolerance and reduced vertical growth

Confederate (Turf-Seed) Olympic II, Tomahawk, Monarch, Safari tall fescue for southern and transition zone lawns

Confidence Best-Blue (Zajac) elite bluegrass for sod repair, new and established fine turf

Confidence Deep Green (Zajac) tall fescue for transition zone fine turf

Confidence Gold (Zajac) proprietary rye for golf course, fine turf, athletic fields

Confidence Platinum (Zajac) proprietary rye for overseeding golf course greens

Custom Blend (Germain's) Ph.D. and Futura 2000 perennial rye for fall overseeding

Dixie Green (International Seeds) tall fescues for durability, drought tolerance

Dominant (Seed Research) SR1020 and Providence creeping bentgrasses for golf courses

Double Eagle Blend (Lesco) Advantage, Assure, Legacy perennial ryegrasses for high traffic areas, fine texture, fast germinations

Eagle Blend (Lesco) Commander, Assure perennial ryegrasses for high traffic areas, fast germination

Enviro Blend (Pennington) Virtue, Tomahawk, Monarch tall fescue for lawns, athletic fields, partially shaded areas

Final-4 (Zajac) elite bluegrasses for new and established high-maintenance areas

Fine Fescue Links Blend (Lesco) 35% Spartan hard fescue, 35% Shademaster creeping red fescue, 20% Shadow chewings fescue, 10% sheep fescue for low maint. areas; unique color for roughs

You Need Your Turf Seed Delivered On Time.
And You Need It From Someone Who Can
Answer Any Questions You May Have.



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Don't you hate it when the sales rep doesn't know his grass from a hole in the ground? At Pennington, that's not the case. Pennington turf specialists are well-trained and knowledgeable about which grasses will best suit your turf requirements, water conditions, and climate. Not only that, they'll make sure that you get what you want when you want it. If it's Specialty Turfgrass that you need then it's Pennington Seed you need to call.

PERENNIAL RYEGRASSES - Pennington 240, Shining Star, Stallion Select, Morning Star, Sunrise 246

PERENNIAL RYEGRASS BLENDS & MIXTURES - Sunrise Primo, CBS II, Triple Play, Sunrise plus Poa Trivialis, Professional's Select, Fairway Classic, Sports Club Mix

TURF TYPE TALL FESCUES - Duster, Tradition, Virtue, Finelawn Petite, Finelawn 88, Enviro Blend, Triad Blend

SEEDED TURF TYPE BERMUDAS - Cheyenne, Yuma



Call 1-800-285-SEED

for a Pennington Seed Specialty Turfgrass Distributor near you

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TURFGRASS BLENDS

Fun Lawn (Jonathan Green) 40% Duke, 30% Montauk, 30% Richmond tall fescues for drought, heat and wear tolerance, poor or dry soils

Greenskeeper 3 (Lebanon Turf) Patriot II, Pennfine, Allaire perennial rye

Greenskeeper 4 (Lebanon Turf) Apache, Bonanza, Taurus, Wrangler tall fescue

Greenskeeper 4-Score (Lebanon Turf) Affinity, Patriot II, Allaire, Manhattan II perennial ryes

Leaderboard (Zajac) proprietary rye for golf courses and overseeding

Medalist Gold (Medalist) 50% APM, 25% Target, 25% Dandy for dormant bermuda overseeding; wear tolerant, rapid establishment on golf courses, athletic turf

Mile-High (Zajac) proprietary rye for golf course, fine turf in northern and mountain states

Mowless (Turf-Seed) Silverado, Murietta, Eldorado tall fescue for northern home lawns, parks, office parks

Ph.D. (International Seeds) perennial ryegrasses for permanent turf, overseeding

Pin High (Barenbrug) Regent, Penncross bentgrass for golf greens

Premium Sod (Medalist) Adelphi, Apex, Aspen, Freedom, Glade, Kelly, NuBlue and/or Rugby disease-resistant blend for sod producers

Prime Time (Zajac) tall fescues for new and established turf, athletic fields

Professional Select East (Pennington) Shining Star, Pennington 240, Pennington 89-90 perennial ryes for golf courses, athletic fields in eastern portion of U.S.

Professional Select West (Pennington) Shining Star, Morning Star, Pennington 89-90 perennial rye for golf courses, athletic fields in western portion of U.S.

Pro-Green 3-Way (Jonathan Green) 50% Duet, 30% Sherwood, 20% Gettysburg perennial rye for new seedings or fill-in

Quality Blue Blend (Lesco) 25% of any four of: Julia, Dawn, Midnight, Pennpro, Shamrock, Wildwood Kentucky blues for premium turf, sod, full sun

Renovator Pro (Medalist) Dandy, Delray, Target for high traffic areas, compacted soil; combats severe *Poa annua* infestations

Rescue Hard Fescue (Medalist) hard fescue blend for shady areas, low maintenance areas

Ryegrass 100 (O.M. Scott) 40% Accolade, 30% Pennant, 30% Ovation perennial rye for overseeding dormant bermudagrass, repairing cool-season turf areas

Sod Maker (Jonathan Green) 40% Washington, 20% Destiny, 20% Merit, 20% Gnome Kentucky blue for sod-like quality

Sonoran (Turf-Seed) Brightstar, Quickstart, Charger perennial rye for fairway overseeding

Spirit (O.M. Scott) 50% Aztec, 25% Guardian, 25% Avanti tall fescue for sun to moderate shade, heat and drought resistance, quick germination, good establishment

Sports Club (Pennington) 70% perennial rye, 30% annual rye for athletic fields, common areas, golf fairways and roughs

Sunrise Primo (Pennington) Morning Star, Shining Star, Pennington 240 perennial rye, Pennkoted for golf courses, athletic fields

Survivor (Seed Research) SR8200, SR8300, Titan tall fescues for sports turf, home lawns, parks, sod production

Touch-Up (Jonathan Green) 40% Gettysburg, 30% Sherwood, 30% Allaire perennial rye for quick germination, fill-ins, overseeding, golf course quality

Transition Blend (Lesco) Three of Cimarron, Trailblazer, Trailblazer II, Wrangler or Lancer tall fescues for heat and drought tolerance



Even though TMI stands for Turf Merchants Inc., a lot of our customers tell us it should stand for Turf Marketing Innovators.

Why? Because over the years, we have listened to what our customers wanted. TMI has made every effort to provide the kind of grass seed varieties, service and marketing aids that help our customers be the best turf professionals. Quality is never compromised.

TMI offers the turf professional a complete selection of turf grass varieties. But more important, TMI offers varieties that have been developed specifically for the needs of the professional market.

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T M I T U R F G R A S S V A R I E T I E S

PERENNIAL RYEGRASSES

- PATRIOT II
- ALLAIRE II
- RODEO II
- AQUARIUS
- AQUARIUS II
- EVENING SHADE
- NOMAD
- PENNFINE
- MANHATTAN II (E)
- STALLION
- BLENDS**
- VIP II e
- SPECTRUM

TALL FESCUES

- BONSAI
- TAURUS
- AZTEC
- ANTHEM
- EARTHSAVE
- MICRO
- ADVENTURE
- AVANTI
- BONSAI PLUS
- TWILIGHT
- SUNDANCE
- BRAHMA
- BLENDS**
- TURF GEM II
- TURF GEM JR

BLUEGRASSES

- COBALT
- CHELSEA
- GNOME
- GNOME II
- A-34
- ALLURE
- ABLE 1
- VIVA
- BLENDS**
- TRUE BLUE

SPECIALTY GRASSES

- CYPRESS
- POA TRIVIALIS
- ATTILA
- HARD FESCUE
- ZEN ZOYSIA 100
- ZEN ZOYSIA 200
- BERMUDA DEL SOL
- FROGHAIR
- INTERMEDIATE RYEGRASS

TURFGRASS BLENDS

Triad (Pennington) Finelawn I, Tradition, Wrangler tall fescue for athletic fields, lawns, common areas, partially shaded areas

Triple A (Medalist) Amigo, Arriba, Arid for wear tolerance and quick establishment for athletic fields, sod farms, home lawns

Triplet (Jacklin) Putter, Cobra, Emerald creeping bentgrass for golf courses

Triple Play (Pennington) Morning Star, Stallion Select, Pennington 240 for golf courses, athletic fields

Tri-Plex (Lofts) Repell II, Palmer II, Prelude II, Yorktown III perennial rye for athletic fields, home lawns, parks

Trophy (Seed Research) SR8200, SSR8300, Titan tall fescues for sports turf, home lawns, parks, sod production

True Blue (Turf Merchants) Merit, Viva, Gnome Kentucky blue for economy

Turf Gem II (Turf Merchants) Wrangler, Micro DD, Taurus tall fescue for heat and drought tolerance

Turf Star (Barenbrug) Pinnacle, Premier perennial ryegrass for golf courses

VIP II (Turf Merchants) Putter, Trueline, Penncross for economical golf tees and greens

VIP IIe (Turf Merchants) Affinity, Manhattan II, Patriot II perennial rye for high-profile overseeding; high endophyte

Water Saver (Barenbrug) Vegas, Phoenix, Austin, Tempo tall fescues for low maintenance

Winter Turf 3 (O.M. Scott) 70% Caravelle, 20% Pennant, 10% Achiever perennial rye for overseeding dormant bermudagrass, excellent transition, good mowing qualities

Winter Turf 9 (O.M. Scott) 40% Caravelle, 40% Pennant, 20% Ovation perennial rye for overseeding dormant bermudagrass, good transition, color consistency

Winter Turf 10 (O.M. Scott) 50% Accolade, 25% Achiever, 25% Ovation perennial rye for economical overseeding, rapid establishment, excellent durability

TURFGRASS MIXES

Mix (Co.); ingredients; notes and special uses

A+ (Medalist) 95% tall fescue, 5% Kentucky blue for deep rooting that fills turf voids

Academy Mix (O.M. Scott) 30% Banner, 30% Banner II chewings fescue, 25% Abbey, 15% Victa Kentucky blue for sun and shade with good cold tolerance

All-Purpose (O.M. Scott) 40% Accolade perennial rye, 35% Molinda chewings fescue, 25% Abbey Kentucky blue for sun and shade, high traffic

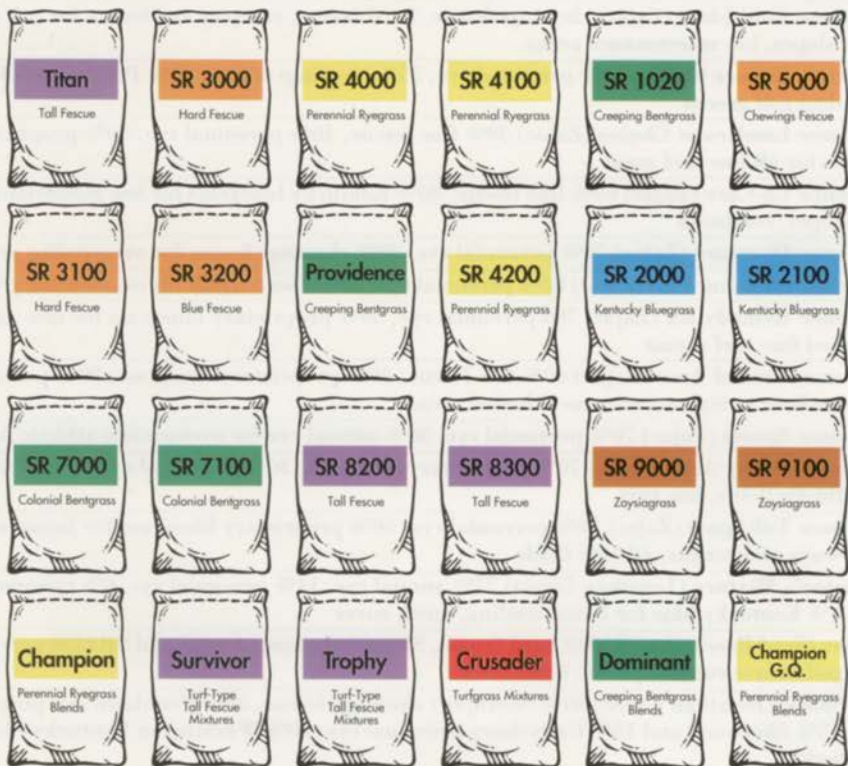
Athletic Pro (Medalist) 50% Kentucky blue, 50% perennial rye for high wear areas like playgrounds, golf tees and fairways, athletic fields

Athletic Pro II (Medalist) 50% Kentucky blue, 50% perennial rye for high wear areas like playgrounds, golf roughs, athletic fields

Blue-Rye (Jonathan Green) 30% Sherwood perennial rye, 25% Gnome, 25% Washington, 20% Destiny Kentucky blue for beauty, fast germination

Boulevard (Medalist) 40% Fuels *Puccinellia distans*, 30% slender red fescue, 10% perennial rye for saline or alkaline soils

What's in a Name?




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TURFGRASS MIXES

Champion S.T. (Seed Research) SR4000, SR4100, SR4200 perennial rye and Merit Kentucky blue for sports turf

Classic Sunny Turf Mix (Lesco) 50% Julia, Pennpro or Shamrock Kentucky blue, 30% Commander and Assure perennial rye, 20% Shademaster creeping red fescue for sun and moderate shade

Companion (International Seeds) true dwarf perennial rye, an elite creeping red fescue for low maintenance home and commercial lawns

Confidence Auld Lines (Zajac) chewings fescue, hard fescue, creeping red fescue for golf course roughs, slopes, low maintenance areas

Confidence Encore (Zajac) 60% perennial rye, 25% chewings fescue, 15% *Poa trivialis* for overseeding golf greens

Confidence Landscape Choice (Zajac) 30% fine fescue, 40% perennial rye, 30% proprietary bluegrass for all fine turf areas

Confidence Lo-Care (Zajac) 60% fine fescue, 40% Kentucky bluegrass for low maintenance areas, slopes, roadsides

Confidence Overture (Zajac) 70% perennial rye, 30% chewings fescue for overseeding greens

Confidence Platinum Plus (Zajac) 80% perennial rye, 20% *Poa trivialis* for overseeding greens

Confidence Remedy Rx (Zajac) 70% perennial rye, 30% proprietary bluegrass for new and established fine turf repair

Confidence Shaded Area (Zajac) 60% fine fescue, 20% proprietary bluegrass, 20% perennial rye for medium to high maintenance shaded areas

Confidence Sportz (Zajac) 70% perennial rye, 30% annual rye for overseeding athletic fields

Confidence Sunny Area (Zajac) 70% proprietary bluegrass, 30% perennial rye for golf fairways, athletic fields, fine turf

Confidence Tuf-Sport (Zajac) 50% perennial rye, 50% proprietary bluegrass for home lawns, golf fairways and roughs, athletic fields

Contractor's Mixture (Jonathan Green) 75% annual rye, 13% perennial rye, 6% creeping red fescue, 6% Kentucky blue for initial seeding, quick cover

Crusader (Seed Research) SR3000 hard fescue, SR5000 chewings fescue and SR4200 perennial rye for golf course roughs, parks, home lawns

Dense Shade (Jonathan Green) 30% Southport chewings fescue, 30% Penmlawn creeping red fescue, 15% Sherwood and 15% Gettysburg perennial rye, 10% Washington Kentucky blue for dense shade

Dixie Green (International Seeds) perennial rye, chewings fescue for permanent turf

Dixie Green + Sabre (International Seeds) perennial rye, chewings fescue, Sabre *Poa trivialis* for permanent turf

Drought Tough (Jonathan Green) 30% Duke, 30% Montauk, 30% Mesa tall fescues, 10% Washington Kentucky blue for deep roots, reduced water and fertilizer requirements

Eagle Blend Plus Blue (Lesco) 75% Commander, Assure or Legacy perennial rye, 25% Julia, Dawn, Pennpro or Shamrock Kentucky blue for lawns, commercial areas; quick establishment

Ecology Mix (Lofts) 80% Reliant hard fescue, 20% Jamestown II chewings fescue for low maintenance, low growth, golf courses, parks, home lawns

Farmingdale (Jonathan Green) 50% perennial rye, 30% creeping red fescue, 10% Kentucky blue, 10% Allaire perennial rye for general purpose use, lower long-term maintenance

TURFGRASS MIXES

Fast Grow (Jonathan Green) 45% perennial rye, 35% annual rye, 10% Kentucky blue, 10% creeping red fescue for quick establishment in sun and shade

50/50 Blue/Rye (Lesco) 5% Shamrock, Julia, Dawn or Pennpro Kentucky blue, 50% Assure, Legacy or Commander perennial rye for sports fields, lawns; quick establishment

Full Sun (Jonathan Green) 25% Gettysburg and 25% Sherwood perennial rye, 20% Washington Kentucky blue, 15% Southport chewings fescue, 15% Salem creeping red fescue for full sun

Greenskeeper Contractors (Lebanon Turf) annual rye, creeping red fescue, perennial rye

Greenskeeper Pro Landscape (Lebanon Turf) annual rye, creeping red fescue, Kentucky blue, perennial rye

Greenskeeper Shady Turf Supreme (Lebanon Turf) Affinity, allaire, Patriot II perennial rye, Silvana hard fescue, creeping red fescue, Center chewings fescue

Greenskeeper Sportsturf (Lebanon Turf) Bonsai, Taurus, Twilight tall fescue, Manhattan II perennial rye, Rugby Kentucky blue

Greenskeeper Superior Sun/Shade (Lebanon Turf) Affinity, Allaire, Manhattan perennial rye, creeping red fescue, Center chewings fescue, Viva Kentucky blue

Heavy Traffic (Jonathan Green) 45% Duke and 40% Richmond tall fescue, 15% Sherwood perennial rye for tough areas with hard wear

Landscape Pro (Medalist) 45% Kentucky blue, 15% red fescue, 25% perennial rye, 15% slender red fescue for home, commercial landscapes

Mid-America Classic (Pennington) 80% Chateau, Voyager, Baorn, Kenblue Kentucky blue, 20% Morning Star, Shining Star perennial rye for golf fairways, roughs, athletic fields

Mid-America Enviro (Pennington) Virtual, Tomahawk, Monarch tall fescue, Baron Kentucky blue for lawns, roughs, common areas

Mid-America Select (Pennington) 80% Baron, Kenblue, Newport, Voyager Kentucky blue, 20% Morning Star, Shining Star perennial rye for golf fairways, roughs, athletic fields

Mid-America Super Shade (Pennington) Flyer creeping red fescue, Spartan hard fescue, Chateau Kentucky blue, Shadow, Camaro chewings fescue for heavily shaded areas

Mid-America Supreme (Pennington) 80% Chateau, Midnight, Voyager Kentucky blues, 20% Morning Star, Shining Star perennial rye for golf fairways, roughs, athletic fields

Mid-America Triad (Pennington) Finelawn I, Tradition, Wrangler tall fescue, Baron Kentucky blue for golf roughs, lawns and common areas

Park & Athletic Mix (Lesco) 33% each of Kentucky blue, creeping red fescue and perennial rye for athletic fields, golf course roughs or roadside areas

Ph.D. + Sabre (International Seeds) three perennial ryegrasses, Sabre *Poa trivialis* for permanent turf and overseeding

Premium Athletic Fairway Mix (Lesco) 70% Julia, Dawn, Wildwood, Pennpro or Shamrock Kentucky blue, 30% Advantage, Assure or Legacy perennial rye for sports turf, premium lawns, golf course fairways; quick establishment

Pro-Green Dura-Turf (Jonathan Green) 50% Richmond, 30% Duke tall fescue, 15% Duet perennial rye, 5% Kenblue Kentucky blue for athletic fields, drought and heat resistance, low maintenance

Pro-Green Quick-Gro (Jonathan Green) 50% Pro-Grow annual rye, 38% annual rye, 6% perennial rye, 6% creeping red fescue for erosion control or new lawns

Pro-Green Shady (Jonathan Green) 40% Pennlawn, 35% Boreal creeping red fescue, 15% Allaire perennial rye, 10% Kenblue Kentucky blue for shady areas

TURFGRASS MIXES

- Pro-Green Sun Thru Shade** (Jonathan Green) 25% Duet, 20% Sherwood perennial rye, 20% Cascade chewings fescue, 20% Pennlawn red fescue, 15% Kenblue Kentucky blue for sun, partial shade
- Pro-Green Sunny** (Jonathan Green) 35% Duet, 35% Sherwood perennial rye, 20% Nimbus Kentucky blue, 10% Pennlawn creeping red fescue for sunny areas
- Pro-Green Utility** (Jonathan Green) 40% perennial rye, 25% creeping red fescue, 25% Pennlawn red fescue, 10% Kentucky blue for general purpose areas of both sun and shade
- Regatta** (Medalist) 50% perennial rye, 10% Kentucky blue, 30% hard fescue, 10% chewings fescue for rapid establishment and wear tolerance on golf courses, landscapes
- Scottish Links** (Medalist) 25% hard fescue, 25% sheeps fescue, 50% creeping red fescue for golf course roughs, bunker faces
- Shade Mix** (Lesco) 35% Shademaster creeping red fescue, 35% Shadow chewings fescue, 15% Commander perennial rye, 10% Spartan hard fescue, 5% Julia Kentucky blue for shaded areas
- Shady Arbor** (Turf-Seed) Shadow chewings fescue, Shademaster creeping red fescue, Aurora hard fescue for shady lawns, shady parks
- Shady Turf** (Medalist) 40% Kentucky blue, 60% fine fescue for shade, shade-to-sun transition
- Showboat** (International Seeds) perennial rye, annual rye for overseeding in warm areas
- Showlawn** (Jonathan Green) 40% Gettysburg and 30% Sherwood perennial rye, 10% Merit, 10% Gnome and 10% Washington Kentucky blue for quick establishment
- Special Park** (Medalist) 50% Kentucky blue, 10% perennial rye, 40% fine fescues for drought, cold tolerance; excellent for shade or sun adaption
- Sports Turf** (O.M. Scott) 25% Victa, 25% Abbey Kentucky blue, 25% Accolade, 25% Achiever perennial rye for heavy traffic, quick germination
- Summer Stress** (Lofts) 40% Tribute, 30% Rebel Jr., 20% Rebel 3-D tall fescue, 10% Baron Kentucky blue for home lawns, industrial parks, low maintenance with heat and drought tolerance
- Sun & Shade** (Jonathan Green) 30% Sherwood and 15% Gettysburg perennial rye, 20% Southport chewings fescue, 20% Pennlawn creeping red fescue, 15% Washington Kentucky blue for wide adaptability
- Swift & Sure** (Medalist) 30% Kentucky blue, 40% perennial rye, 30% creeping red fescue for overseeding and new seedings
- Team-Mates Mix** (Lesco) 80% of three tall fescues: Cimarron, Trailblazer, Trailblazer II, Lancer or Wrangler, 20% Commander perennial rye for durability, finer texture than tall fescue alone
- Team-Mates Plus** (Lesco) 70% of three tall fescues: Cimarron, Trailblazer, Trailblazer II, Lancer or Wrangler, 20% Commander perennial rye, 10% Shamrock Kentucky blue for density, drought and heat tolerance
- Turf Turf Mix** (Lesco) 90% tall fescue, 10% Shamrock Kentucky blue for durability, recovery
- Turf's Up** (Germain's) custom creeping bentgrass blends for golf course greens
- VeriGreen** (Jonathan Green) 45% perennial rye, 45% creeping red fescue, 10% Kentucky blue for economy, quick cover
- Winter Turf I** (O.M. Scott) 40% Accolade, 30% Achiever, 20% Ovation perennial rye, 10% Abbey Kentucky blue for golf green overseeding
- Winter Turf 5** (O.M. Scott) 50% Loretta, 35% Ovation perennial rye, 15% Cypress *Poa trivialis* for golf green overseeding

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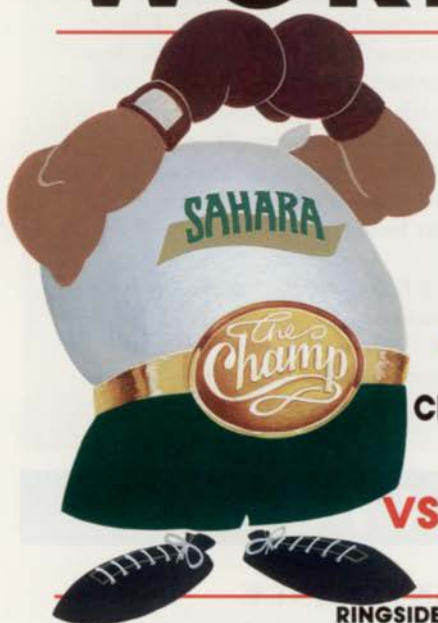
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Section 3

The following pages contain results from the National Turfgrass Evaluation Program (NTEP), headquartered in Beltsville, Md. Though the program will not make variety recommendations, according to director Kevin Morris, data from the tests are used by extension agents and others in the turf industry for making such recommendations.

Because of space limitations, the top 5 to 12 commercially-available varieties in each species are listed for each testing site. In some cases, other varieties are available that show no comparative difference (LSD value) between those listed. Contact your local turf extension agent for complete listings.

Ratings range from 1.0 to 9.0 with 9.0 being a perfect turf. The following results are from the 1993 growing season.

For more information about the NTEP, write Morris at Agricultural Research Center West, Bldg. 002, Room 013, Beltsville, MD 20705.

KENTUCKY BLUEGRASS

MEDIUM/HIGH MAINTENANCE

(all trials in full sun unless otherwise noted)

QUALITY AVERAGES/SPONSORS: 6.3 Midnight (Turf-Seed); 6.1 Blacksburg (Turf-Seed), Apex (Medalist); 6.0 Eclipse (Jacklin); 5.9 Princeton 104 (Lofts), Ascot (O.M. Scott), Able I (Davenport); 5.8 Limousine (Jacklin), Alpine (Pickseed West), Shamrock (Lesco), SR2000 (Seed Research of Ore.), Unique (Turf-Seed), Preakness (Lofts); 5.7 Aspen (Medalist), Eagleton (Lofts), Coventry (O.M. Scott), Allure (Davenport); 5.6 Glade (Jacklin), Nustar (Jacklin), Cynthia (Advanta West), Washington (Cascade/Jonathan Green), Bartitia (Barenbrug), Fairfax (O.M. Scott), 1757 (Lofts), Challenger (Turf-Seed), Minstrel (Advanta West), Estate (Roberts); 5.5 Pennpro (Lesco), Julia (Lesco/Jacklin), Liberty (Zajac), A-34 (Davenport), Silvia (Cebeco), Barblue (Barenbrug), Touchdown (Pickseed West), NuBlue (Medalist), Haga (Burlingham). *LSD=0.2.*

COLORADO, FT. COLLINS (sandy clay loam, 3.5 lb./N, 2" mowing): 7.3 Princeton 104; 7.2 Blacksburg; 7.1 Midnight; 7.0 Apex; 6.7 Ascot; 6.6 Eclipse, Broadway, Miracle; 6.4 Shamrock; SR2000, Bartitia, Touchdown; 6.3 Able I, Limousine, Alpine, Pennpro, Barblue, SR2100, Abbey, Crest, NuBlue. *LSD=0.7.*

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TURF TYPE
TALL FESCUE



Circle No. 811 on Reader Inquiry Card

KENTUCKY BLUE, MED/HI MAINT.

IDAHO, POST FALLS (silt loam/silt, 3.5 lb./N, 1.5" mowing): 8.7 Apex; 8.1 Midnight; 7.6 Alpine; 7.4 Blacksburg, Ascot, Limousine; 7.0 Glade, Minstrel, Melba, Noblesse; 6.7 Barzan; 6.4 Challenger; 6.3 Ram-1, Miracle; 6.2 Able I, NuStar, Bartitia, Pennpro, Ampellia. LSD=1.4.

IOWA, AMES (sandy clay loam, 3.5 lb./N, 2.5" mowing): 7.6 Apex; 7.5 Ascot; 7.4 Midnight, Blacksburg, Alpine, Glade; 7.3 Able I, Limousine, Allure, Cynthia, Miracle; 7.2 Eclipse, Eagleton, Estate, Ampellia; 7.1 Unique, Preakness, Aspen, Coventry, NuStar, Julia, Silvia, Indigo, Ram-1, SR2100, Trampas. LSD=0.5.

ILLINOIS, URBANA (silt loam/silt, 3.5 lb./N, 1.5" mowing): 6.8 Princeton 104; 6.2 Apex, Eagleton; 6.0 Shamrock, Preakness; 5.7 Washington, Monopoly; 5.6 Limousine, Alpine; 5.5 Allure; 5.4 SR2000, Coventry; 5.3 Blacksburg, Cynthia, Fairfax, NuBlue; 5.2 Glade, SR2100. LSD=1.1.

ILLINOIS, CARBONDALE (silty clay loam, 4.5 lb./N, 1.5" mowing): 7.6 Eagleton; 7.1 Glade; 7.0 Preakness; 6.9 Shamrock; 6.8 Midnight; 6.7 Estate, Haga; 6.6 SR2000, NuStar, 1757, Cobalt, Monopoly; 6.5 Coventry, Allure, Livingston; 6.4 Princeton 104, Washington, Marquis, Fortuna. LSD=1.3.

KENTUCKY, LEXINGTON (silt loam/silt, 2.5 lb./N, 1.5" mowing): 8.2 Midnight; 6.9 Able I, SR2000, Indigo, Marquis; 6.8 Princeton 104; 6.7 Blacksburg, Aspen; 6.6 Challenger; 6.5 Eclipse, Ascot, Preakness, Livingston, Fortuna, Merit, Crest, Nassau, Destiny; 6.4 Glade; 6.3 Unique, 1757, Minstrel, Viva. LSD=1.0.

MARYLAND, BELTSVILLE (silt loam/silt, 3.5 lb./N, 1.5" mowing): 7.6 Apex; 7.5 Midnight, Blacksburg; 7.4 Alpine; 7.1 Limousine; 7.0 Preakness; 6.9 Ram-1; 6.8 Eclipse, NuStar, Cynthia, Bartitia, Fairfax, Minstrel; 6.7 Eagleton, Glade, A-34; 6.6 Coventry, Challenger, Julia; 6.5 Shamrock, Allure, Fortuna, Baron, Gnome, Opal. LSD=0.8.

MARYLAND, SILVER SPRING (sand, 3.5 lb./N, 1.5" mowing): 6.8 Apex; 6.7 SR2000; 6.6 Midnight, Barzan; 6.5 Coventry, Banff, Suffolk; 6.4 Eclipse, Preakness, Estate, NuBlue, Dawn, SR2100, Kelly; 6.3 Blacksburg, Limousine, Allure, Fairfax, Haga, Freedom. LSD=0.7.

MICHIGAN, EAST LANSING (sandy loam, 3.5 lb./N, 2.5" mowing): 7.1 Glade, Baron, Opal; 7.0 Cobalt, Ampellia; 6.9 Limousine, Alpine, Estate, Touchdown, Trenton, Belmont, Dawn, Gnome, Merion; 6.8 Unique, Silvia, Suffolk. LSD=0.9.

NEBRASKA, LINCOLN (sandy clay loam, 3.5 lb./N, 3" mowing): 7.3 Apex; 7.1 Limousine; 6.6 Opal; 6.3 Unique, Glade, Fairfax, Julia; 6.2 Eclipse, A-34, Silvia, Freedom; 6.1 Ascot, Eagleton, Washington, NuBlue, Ronde; 6.0 Coventry, Bartitia, 1757, Pennpro, Haga, Trenton, Banff, 4 Aces, Dawn. LSD=1.0.

NEW JERSEY, NORTH BRUNSWICK (loam, 4.5 lb./N, 1.5" mowing): 6.8 SR2000; 6.5 Midnight; 6.3 Eclipse; 6.1 Shamrock; 6.0 Blacksburg; 5.9 Barblue; 5.8 Aspen, Trenton; 5.7 Able I, Georgetown; 5.6 Banff; 5.5 Ascot, Preakness, Classic; 5.4 Haga, Dawn; 5.3 Unique, Freedom. LSD=0.8.

NEW JERSEY, ADELPHIA (loam, 1.5 lb./N, 1.5" mowing, no irrigation): 6.7 Midnight; 6.3 Eclipse, Princeton 104; 6.1 SR2000; 6.0 Blacksburg, Bartitia; 5.9 Apex, Ascot; 5.7 Julia, Liberty, Broadway; 5.6 Aspen, Indigo, Banff, Dawn; 5.5 Limousine, NuStar, Pennpro, NuBlue, Classic. LSD=0.7.

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KENTUCKY BLUE, MED/HI MAINT.

NEW JERSEY, MARTINSVILLE (silt loam/silt, 3.5 lb./N, 1.5" mowing): 7.3 Midnight; 6.2 Unique; 6.1 Blacksburg, Able I; 6.0 Princeton 104, Ascot, Cynthia; 5.9 Apex, Summit, Alpine; 5.8 Limousine, Aspen; 5.7 SR2000, Washington, Pennpro; 5.4 Preakness, Allure, Minstrel, Buckingham. *LSD=0.9.*

OREGON, HUBBARD (shade, silt loam/silt, 4.5 lb./N, 2.5" mowing): 6.5 Apex, Ascot; 6.4 Able I, Allure, Bartitia; 6.1 Estate; 6.0 Coventry; 5.8 Unique, Fairfax; 5.7 Washington, Broadway; 5.6 Blacksburg, Cynthia, Challenger; 5.5 Alpine, Julia, Haga, Ram-1; 5.4 Liberty, Marquis. *LSD=1.2.*

OREGON, HALSEY AND HUBBARD: 6.6 Princeton 104; 6.5 Minstrel; 6.3 Midnight, Cynthia, Bartitia, Ampellia; 6.2 Blacksburg, Able I, Washington, 1757, Broadway; 6.1 Limousine, Shamrock, Allure, Estate, Silvia, Miracle. *LSD=0.6.*

RHODE ISLAND, KINGSTON (silt loam/silt, 3.5 lb./N, 1.5" mowing): 6.1 Eclipse; 6.0 Livingston, Indigo; 5.9 Eagleton, Viva; 5.8 Able I, Glade, Crest; 5.7 Ascot, Shamrock, Bartitia, Ram-1, Baron, Merit, Abbey; 5.6 Blacksburg, Princeton 104, A-34, Marquis, Fortuna, Destiny, Noblesse. *LSD=0.7.*

VIRGINIA, BLACKSBURG (silt loam, silt, 3.5 lb./N, 2.5" mowing): 6.1 Limousine, Preakness; 6.0 Eclipse, Princeton 104; 5.9 Washington, 1757; 5.8 Blacksburg, Alpine, Shamrock, Aspen; 5.7 A-34, Silvia, Monopoly; 5.6 Able I, Estate, Pennpro, Banff, Classic; 5.5 Touchdown, Freedom, Abbey. *LSD=0.8.*

VIRGINIA, HAYMARKET (silt loam/silt, 2.5 lb./N, 3" mowing, no irrigation): 3.9 Allure; 3.8 Baron; 3.7 Marquis; 3.6 Shamrock, SR2000, Fairfax, Cobalt, Viva; 3.5 Aspen, Eagleton, Cannon; 3.4 Unique, Minstrel, Belmont, Monopoly, Gnome, Merit, Abbey, Kelly, Merion. *LSD=0.6.*

WASHINGTON, PULLMAN (silt loam/silt, 3.5 lb./N, 2" mowing): 6.4 NuBlue; 6.3 Eclipse, Barblue; 6.2 Pennpro; 6.1 Midnight, Alpine, Shamrock, Unique, Belmont, Opal, Noblesse; 6.0 Apex, Ascot, SR2000, Liberty, Touchdown, SR2100, Cannon; 5.9 Princeton 104, Coventry, Julia, Classic, Broadway, Merit. *LSD=0.7.*

PERENNIAL RYEGRASS

(all trials in full sun unless otherwise noted)

QUALITY AVERAGES/SPONSORS: 6.2 Cutter (Pickseed West); 6.1 Repell II (Lofts), Seville (Willamette), Prelude II (Lofts), Prizm (Zajac), Palmer II (Lofts), Advent (Jacklin), Riviera II (Pickseed West), Precision (Advanta); 6.0 SR4200 (Seed Research of Ore.), APM (Medalist), Stallion Select (Pro Seeds), Morning Star (Pennington), Brightstar (Turf-Seed), Delaware Dwarf (Ampac), Nighthawk (Forbes), Yorktown III (Lofts), Assure (Lesco); 5.9 Achiever (Pickseed West), Gettysburg (Cascade/Jonathan Green), Dandy (Medalist), Affinity (Genesis Group), Navajo (Turf-Seed), Pinnacle (Barenbrug), Legacy (Lesco), Greenland (Pickseed West); 5.8 Buccaneer (Koos), Quickstart (Turf-Seed), Shining Star (Pennington), Equal (All Star Farms), Envy (Zajac). *LSD=0.2.*

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PERENNIAL RYEGRASS

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PERENNIAL RYEGRASS

COLORADO, FT. COLLINS (sandy clay loam, 4.5 lb./N, 1" mowing): 7.3 Prizm, Greenland; 7.2 Cutter, Repell II, Morning Star, Brightstar, Assure, Quickstart; 7.1 Seville, Palmer II, Advent, SR4200, Nighthawk, Dandy, Pinnacle, Buccaneer, Manhattan II, Pebble Beach. *LSD=0.5.*

DISTRICT OF COLUMBIA: 5.2 Loretta; 5.0 Barrage++, 4.6 Seville; 4.4 Pennant; 4.2 Cutless, Calypso; 4.1 Barrage; 4.0 Delaware Dwarf, Navajo, Gator, Nomad, Citation II, Caliente; 3.9 Precision, Envy, Danilo; 3.8 Morning Star, Dandy, Legacy, Competitor, Manhattan II. *LSD=1.0.*

IOWA, AMES (sandy clay loam, 2.5 lb./N, 2.5" mowing): 7.5 Barrage, Loretta; 7.4 Precision, Navajo, Barrage++, Allegro; 7.3 Affinity, Gator, Lowgrow, Taya; 7.2 Advent, Cutless; 7.1 APM, Delaware Dwarf, Cowboy II, Ovation; 7.0 Fiesta II, Elite, Danilo; 6.9 Riviera II, Gettysburg, Dandy, Dimension, Manhattan II, Charger, Nomad, Riviera, Derby Supreme. *LSD=0.9.*

IDAHO, RATHDRUM (silt loam/silt, 4.5 lb./N, 1.5" mowing): 6.7 Prelude II, SR4200; 6.5 Delaware Dwarf; 6.4 Evening Shade; 6.3 Nighthawk, Express; 6.2 Advent, Precision, Charger, Nomad; 6.1 Repell II, Gettysburg; 6.0 Cutter, Dandy, Navajo, Buccaneer, Lowgrow. *LSD=1.1.*

ILLINOIS, CARBONDALE (silty clay loam, 4.5 lb./N, 1.5" mowing): 8.5 Seville; 8.3 Prizm, Assure; 8.2 Cutter; 8.1 Precision, Pinnacle; 7.9 Riviera II, APM, Achiever; 7.8 Brightstar, Nighthawk; 7.7 Morning Star, Delaware Dwarf, Affinity, Legacy, Dimension; 7.6 Quickstart, Sherwood, Express; 7.5 Advent, Gettysburg, Envy. *LSD=1.4.*

KANSAS, WICHITA (sandy loam, 3.5 lb./N, 1.5" mowing): 7.0 Morning Star, Fiesta II; 6.8 Repell II; 6.7 Advent, SR4200, Delaware Dwarf; 6.5 Cutter, APM, Brightstar, Achiever, Navajo, Quickstart, Equal, Envy, Target, Sherwood, Saturn, Premier, Caliente. *LSD=1.3.*

KENTUCKY, LEXINGTON (silt loam/silt, 2.5 lb./N, 1.5" mowing): 7.0 Assure; 6.9 Palmer II, Brightstar, Dandy; 6.8 Precision, Legacy, Pleasure; 6.7 Repell II, Riviera II, Regal; 6.6 Nighthawk; 6.5 Delaware Dwarf, Achiever, Shining Star, Pronto, Commander; 6.4 SR4200, Evening Shade. *LSD=1.2.*

MARYLAND, BELTSVILLE (silt loam/silt, 3.5 lb./N, 1.5" mowing): 7.6 Palmer II; 7.5 Assure; 7.4 Prelude II, Brightstar; 7.3 Cutter, Repell II, Prizm; 7.2 Riviera II, APM, Stallion Select, Gettysburg, Pinnacle; 7.1 Seville, Competitor; 7.0 Advent, Morning Star, Affinity, Equal, Rodeo II. *LSD=1.1.*

MARYLAND, SILVER SPRING (sandy loam, 4.5 lb./N, 0.5" mowing): 6.9 Repell II; 6.8 SR4200, Yorktown III, Assure, Manhattan II; 6.7 Cutter, APM, Stallion Select, Delaware Dwarf, Pinnacle, Quickstart; 6.6 Achiever, Greenland, Sherwood, Commander, Calypso; 6.5 Seville, Prelude II, Dandy, Navajo, Buccaneer, Pleasure, Riviera, Topeka, Caliente. *LSD=0.5.*

MICHIGAN, E. LANSING (sandy loam, 3.5 lb./N, 2.5" mowing): 6.4 Troubadour; 6.3 Loretta, Entrar; 6.1 Gettysburg, Repell, Allegro; 6.0 Pebble Beach, Barrage++, Pennfine; 5.9 Prelude II, Fiesta II, Gator, Saturn, Cowboy II, Nomad, Topeka, Stallion, Barrage, Taya. *LSD=0.6.*

NEBRASKA, LINCOLN (sandy clay loam, 3.5 lb./N, 3" mowing): 6.3 Nighthawk, Lowgrow, Cowboy II; 6.2 Essence; 6.0 Repell II, Prelude II, Troubadour; 5.9 Stallion Select, Envy; 5.8 Cutter, SR4200, Navajo, Sherwood, Rodeo II, Patriot II, Evening Shade, Citation II. *LSD=1.0.*

NEW JERSEY, NORTH BRUNSWICK (loam, 5.5 lb./N, 1.5" mowing): 7.5 Prizm, Stallion Select; 7.0 Cutter, Repell II, Prelude II, SR4200, Yorktown III; 6.9 Advent, Nighthawk, Achiever; 6.8 Pinnacle; 6.7 Riviera II; 6.6 Palmer II, Dimension; 6.5 Morning Star, Brightstar, Quickstart; 6.4 Affinity. *LSD=0.9.*

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PERENNIAL RYEGRASS

NEW JERSEY, ADELPHIA (loam, 2.5 lb./N, 1.5" mowing): 7.1 Prelude II; 6.8 Palmer II, Greenland; 6.4 Precision; 6.3 Repell II, Buccaneer; 6.2 Prizm, Morning Star; 6.1 Advent; 6.0 Gettysburg; 5.9 Nighthawk, Quickstart; 5.8 Seville, Stallion Select, Brightstar, Delaware Dwarf, Affinity, Target. *LSD=1.4.*

OREGON, HUBBARD (silt loam/silt, 4.5 lb./N, 2.5" mowing, 1/3 shade): 7.0 Essence; 6.7 Palmer II; 6.6 Cutter, Brightstar, Navajo; 6.5 APM, Yorktown III; 6.3 Cowboy II; 6.2 Repell II, Seville, Prizm, Nighthawk, Affinity, Equal, Competitor; 6.1 Prelude II, Lowgrow, Pebble Beach, Accolade. *LSD=1.0.*

VIRGINIA, BLACKSBURG (silt loam/silt, 3.5 lb./N, 2.5" mowing): 5.7 Gator; 5.5 Cutter, Palmer II; 5.4 Repell II, Advent; 5.2 Prizm, Barrage++; 5.1 Seville, Riviera II, APM, Morning Star, Repell, Mulligan; 5.0 Assure, Buccaneer, Regal, Loretta; 4.9 Precision, Manhattan II, Pronto, Premier, Caliente. *LSD=0.9.*

WASHINGTON, PULLMAN (silt loam/silt, 3.5 lb./N, 2" mowing): 7.2 Nighthawk; 7.1 Precision, SR4200, Brightstar, Assure, Buccaneer, Pleasure; 7.0 Cutter, Palmer II, Envy, Fiesta II, Derby Supreme; 6.9 Riviera II, Dandy Greenland, Essence, Cowboy II, Evening Shade. *LSD=0.9.*

WASHINGTON, PUYALLUP (sandy loam, 4.5 lb./N, 1.5" mowing): 5.0 Dandy; 4.8 Seville, Gator, Elite; 4.7 SR4200, APM, Topeka; 4.5 Palmer II, Advent, Morning Star, Brightstar, Delaware Dwarf, Yorktown III, Fiesta II, Lowgrow, Charger, Repell, Rodeo II, Cutless, Calypso, Derby Supreme, Citation II, Barrage++, Allegro, Cartel. *LSD=0.7.*

SEEDED BERMUDAGRASS

(all trials in full sun unless otherwise noted)

QUALITY AVERAGES/SPONSORS (*standard entry): 6.8 Tifgreen*; 6.5 Tifway*; 6.3 Midiron*; 6.2 Midlawn (Kansas St. Research Foundation & Oklahoma State Univ.); 6.1 Midfield (KSU Research & OSU); 6.0 Texturf 10*; 5.6 Jackpot (Jacklin Seed); 5.5 Sultan (Farmer's Marketing), Mirage (International Seeds); 5.2 Guymon*; 5.1 Numex Sahara*, Sundevil (Medalist America); 5.0 Sonesta (O.M. Scott); 4.9 Primavera (Seed Research of Ore./Farmer's Marketing); 4.8 Cheyenne (Pennington), Arizona common*. *LSD=0.2.*

ALABAMA, AUBURN: 7.4 Tifgreen; 7.0 Tifway, Midiron; 6.8 Midlawn; 6.7 Texturf 10; 6.6 Jackpot; 6.3 Midfield, Sultan. *LSD=0.6.*

ARKANSAS, FAYETTEVILLE: 8.6 Tifgreen; 7.6 Midlawn; 7.5 Tifway, Texturf 10; 7.4 Midiron, Sultan; 7.3 Jackpot. *LSD=1.0.*

ARIZONA, TUCSON (sandy loam, 2.5 lb./N, 1.5" mowing): 7.0 Tifway; 6.6 Tifgreen; 6.5 Midfield; 6.3 Midlawn; 6.1 Guymon; 6.0 Mirage, Midiron. *LSD=0.9.*

CALIFORNIA, SANTA ANA (sandy loam, 3.5 lb./N, 1" mowing): 6.3 Tifway, Texturf 10; 6.2 Tifgreen; 5.8 Midfield; 5.6 Midlawn; 5.4 Midiron, Jackpot; 5.3 Guymon. *LSD=0.3.*

CALIFORNIA, RIVERSIDE (sandy loam, 3.5 lb./N, 1" mowing): 6.6 Tifway; 6.1 Midiron; 6.0 Tifgreen, Texturf 10; 5.9 Midlawn, Midfield; 5.4 Jackpot, Sultan. *LSD=0.4.*



Fine Fescue Defined

What are Fine Fescues and why are they so important to turf managers?

Our Fescue turfgrasses are part of most every park, golf course, industrial campus, athletic field, condominium commons and home lawn from the transition zone, Northward.

But, many people are not aware of that. Perhaps we are the most overlooked turfgrass in existence.

We feel that Fine Fescues are the best turf investment a grounds manager can make. And, we'd like to point out *why*.

Fine Fescues are *real* grass. And, as with all living things, there is give and take. Sure, our Fescues take water and some maintenance, but they are better *givers*. Our natural grass turns noxious gases into oxygen and is a natural air conditioner for turf users.

We feel that while artificial turf has its place on locker room floors, it has no business where *real* people work, play and relax. Our grass is just *naturally* more refreshing.

Our Chewings (*Festuca rubra commutata*) and creeping red (*Festuca rubra rubra*) Fescues are rather unique when compared with other turfgrass species. Although they have most of the features of other cool season grasses, Fescues have several distinct benefits worth noting.

Fine Fescues are low maintenance. Our varieties require less fertilizer and water than other species. That's a big *plus* at today's water, fertilizer and manpower prices.

Fine Fescues fare well around trees. It seems our grass doesn't need as much sunlight, water and nutrients as other turfgrass species. Because Fescues don't compete with trees for these important elements, they're called *shade grass*. Our Fescues don't creep into flower beds, nor crowd out other species in a mixture.

And, because they're Oregon grown, our Fescues germinate, adapt and perform better than imported turfs.

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SEEDED BERMUDAGRASS

FLORIDA, GAINESVILLE (loamy sand, 1.5 lb./N, 1" mowing): 6.6 Tifway, Midiron; 6.4 Tifgreen; 6.0 Midfield, Texturf 10, Sultan; 5.9 Mirage, Sonesta. LSD=0.7.

GEORGIA, GRIFFIN (sandy loam, 3.5 lb./N, 1" mowing, high pH): 6.7 Tifway; 6.4 Tifgreen; 6.2 Midiron, Texturf 10; 5.9 Guymon; 5.8 Sultan, Mirage. LSD=0.8.

GEORGIA, GRIFFIN (sandy loam, 3.5 lb./N, 1" mowing, low pH): 6.4 Tifgreen; 5.7 Tifway; 5.6 Sultan; 5.5 Midlawn, Midfield; 5.4 Midiron, Texturf 10. LSD=0.7.

ILLINOIS, CARBONDALE (silty clay loam, 3.5 lb./N, 1.5" mowing, no irrigation): 7.8 Tifgreen; 7.7 Tifway; 7.4 Midlawn, Midfield; 7.1 Midiron; 6.0 Texturf 10; 5.7 Sultan. LSD=0.9.

KANSAS, WICHITA (sandy loam, 3.5 lb./N, 1" mowing): 8.6 Tifway; 8.0 Midfield; 7.9 Midiron; 7.6 Tifgreen; 7.4 Midlawn, Texturf 10; 7.3 Mirage, Guymon. LSD=0.7.

KENTUCKY, LEXINGTON (sandy loam/silt, 1.5 lb./N, 1" mowing): 6.2 Tifgreen; 6.1 Tifway; 5.9 Midfield, Mirage; 5.8 Texturf 10; 5.6 Midiron; 5.5 Guymon. LSD=0.5.

LOUISIANA, CALHOUN (sandy loam, 2.5 lb./N, 1.5" mowing): 7.3 Tifgreen; 7.1 Tifway, Midiron; 6.8 Midfield; 6.4 Midlawn; 6.1 Texturf 10; 5.5 Mirage. LSD=0.5.

MARYLAND, BELTSVILLE (loam, 1.5 lb./N, 1" mowing): 7.8 Tifgreen; 6.7 Tifway; 6.5 Jackpot; 6.3 Midiron, Midlawn; 6.2 Texturf 10, Sultan. LSD=0.5.

MISSOURI, NEW FRANKLIN (silt loam/silt, 2.5 lb./N, 2" mowing): 5.5 Midfield; 5.3 Tifgreen; 4.8 Midiron, Midlawn; 4.6 Guymon; 4.5 Texturf 10; LSD=1.3.

MISSISSIPPI, MISSISSIPPI STATE (sandy clay loam, 2.5 lb./N, 2.5" mowing): 7.3 Tifway; 6.9 Tifgreen; 6.0 Midlawn; 5.9 Midiron, Midfield; 5.6 Texturf 10; 5.1 Sultan. LSD=0.4.

NEBRASKA, LINCOLN (sandy clay loam, 3.5 lb./N, 3" mowing): 7.8 Tifgreen; 7.2 Midlawn; 6.7 Midiron; 6.0 Midfield, Texturf 10; 5.5 Sultan; 5.3 Sundevil, Sonesta. LSD=1.1.

OKLAHOMA, STILLWATER (loam, 1.5 lb./N, 2" mowing, light shade): 7.0 Tifgreen, Midlawn, Jackpot; 6.7 Tifway, Midfield, Texturf 10. LSD=1.1.

TEXAS, DALLAS (silty clay/clay, 3.5 lb./N, 1" mowing): 6.6 Midlawn; 6.5 Tifgreen, Midfield; 6.4 Midiron, Texturf 10; 6.2 Tifway. LSD=0.5.

TEXAS, DALLAS (silty clay/clay, 3.5 lb./N, 1" mowing, partial shade): 6.0 Tifway; 5.8 Midiron; 5.4 Texturf 10; 5.3 Midlawn; 5.2 Tifgreen; 5.1 Midfield, Jackpot. LSD=0.7.

VIRGINIA, BLACKSBURG (silt loam/silt, 3.5 lb./N, 1" mowing): 7.0 Tifway; 6.9 Tifgreen; 6.5 Midlawn; 6.0 Midiron; 5.8 Midfield, Jackpot; 5.6 Texturf 10. LSD=0.9.

VIRGINIA, VIRGINIA BEACH (sandy loam, 4.5 lb./N, 1" mowing): 6.8 Tifgreen, Tifway; 6.3 Midiron; 5.7 Midlawn; 5.6 Sultan; 5.5 Texturf 10; 5.4 Jackpot. LSD=0.6.



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ALABAMA, AUBURN: 7.0 Adobe; 6.9 Safari, Falcon; 6.8 Houndog V, SR8200, SR8300, Phoenix; 6.7 Jaguar 3, Coronado; 6.6 Shenandoah, Arid, KY-31 w/endo; 6.5 Pixie, Rebel Jr., SR8400, Duke, Silverado, Leprechaun, Trailblazer II, Kittyhawk. *LSD=0.9.*

ARKANSAS, FAYETTEVILLE: 7.4 Lexus; 7.1 Finelawn Petite, Houndog V, Lander, Duster; 7.0 Rebel Jr., Apache II, Mirage, Bonsai; 6.9 Gen-91, Pixie, Rebel 3-D; 6.8 Jaguar 3, MB-25-92, MB-23-92, Coronado, MB-22-92, SR8400, Micro DD, Vegas. *LSD=0.6.*

ARIZONA, TUCSON (sandy loam, 2.5 lb./N, 2.5" mowing): 7.3 Pixie, Avanti; 7.2 Alamo; 7.1 Falcon II, Coyote, Lexus, Coronado, Guardian, Duster, Emperor II, Austin, Olympic II; 7.0 Jaguar 3, Finelawn Petite, Houndog V, Lancer, MB-23-92, SR8200, Eldorado, Duke, Virtue, Vegas, SR8300, Shenandoah, Kittyhawk, Aztec, Monarch, Astro 2000, Aris, Anthem. *LSD=0.5.*

CALIFORNIA, SANTA CLARA (loam, 2.5 lb./N, 2" mowing): 7.4 Micro DD, Bonsai; 7.3 Jaguar 3, MB-25-92, Lancer, Adobe; 7.2 Duster, Emperor II, Olympic II; 7.1 Pixie, Falcon II, Coyote, Mirage; 7.0 Coronado, Vegas, Bonsai Plus, Kittyhawk. *LSD=0.5.*

CALIFORNIA, RIVERSIDE (sandy loam, 4.5 lb./N, 2" mowing): 6.7 Cochise, Alamo; 6.6 Gen-91, Jaguar 3, Finelawn Petite, Falcon II, Lexus, Montauk, Duke, Leprechaun, SR8300; 6.5 MB-25-92, Rebel Jr., Tomahawk, MB-23-92, Rebel 3-D, Coronado, Guardian, Duster, Eldorado, Mirage, Virtue, Adobe, Bonsai Plus, Aztec, Bonsai, Twilight. *LSD=0.3.*

COLORADO, FORT COLLINS (sandy clay loam, 3.5 lb./N, 2.5" mowing): 6.9 Gen-91; 6.7 Rebel Jr., Houndog V, Lancer, Rebel 3-D; 6.6 Finelawn Petite, Falcon II, Coyote; 6.5 Jaguar 3, Tomahawk, Safari, Eldorado; 6.4 Pixie, SR8200, Duster, Montauk, Aztec. *LSD=0.5.*

DISTRICT OF COLUMBIA (silt loam, 1.5 lb./N, 2.5" mowing): 4.6 Arid; 3.8 Guardian, Falcon, Anthem; 3.7 Jaguar 3, Astro 2000; 3.4 SR8300; 3.3 Pixie, SR8400, KY-31 no endo. *LSD=1.0.*

GEORGIA, GRIFFIN (high pH, sandy clay loam, 3.5 lb./N, 2" mowing): 4.9 Jaguar 3, MB-25-92, Finelawn Petite, SR8200, Coronado, Adobe; 4.8 Rebel 3-D, Duke, Silverado, Apache, Avanti; 4.7 Pixie, Falcon II, Rebel Jr., Coyote, Emperor II, Safari, Mirage, Trailblazer II, Twilight. *LSD=0.6.*

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GEORGIA, GRIFFIN (*low pH, sandy clay loam, 3.5 lb./N, 2" mowing, no irrigation*): 4.0 SR8200, SR8400, Austin, Anthem, KY-31 w/endo; 3.7 Cochise, Bonsai Plus; 3.5 Mirage, Twilight, Falcon. *LSD=1.7.*

ILLINOIS, URBANA (*silt loam/silt, 1.5 lb./N, 2.5" mowing*): 6.9 Rebel Jr.; 6.8 Jaguar 3; 6.6 Gen-91; 6.5 Lancer, Vegas; 6.4 MB-25-92, Guardian; 6.3 Houndog V, SR8400; 6.2 SR8300, Austin; 6.1 Eldorado, Titan II, Virtue, Aztec, Anthem. *LSD=1.0.*

ILLINOIS, CARBONDALE (*silty clay loam, 4.5 lb./N, 2.5" mowing*): 7.2 Coyote; 6.9 Cochise; 6.8 Gen-91, SR8200; 6.7 MB-25-92; 6.6 Jaguar 3, Rebel Jr., Coronado; 6.5 SR8400, Emperor II, Eldorado, Shenandoah; 6.4 Pixie, Tomahawk, Safari, SR8300. *LSD=1.3.*

KANSAS, MANHATTAN (*silt loam/silt, 3.5 lb./N, 3.5" mowing*): 6.8 Gen-91, Lexus; 6.6 Falcon II; 6.5 MB-25-92, Micro DD, Cochise, Leprechaun; 6.4 Jaguar 3, Emperor II, Eldorado, Silverado, Virtue; 6.3 Finelawn Petite, Rebel Jr., Houndog V, Tomahawk, Coronado, SR8400, Mirage. *LSD=0.7.*

KENTUCKY, LEXINGTON (*silt loam/silt, 2.5 lb./N, 1.5" mowing*): 7.2 Falcon II; 7.1 MB-25-92; 7.0 Gen-91, Lexus; 6.9 Pixie, Coyote, Lancer, MB-23-92, Rebel 3-D; 6.8 Finelawn Petite, Houndog V, Tomahawk, Coronado, Emperor II; 6.7 Apache II. *LSD=0.4.*

LOUISIANA, CALHOUN (*sandy loam, 1.5 lb./N, 3.5" mowing*): 4.1 Titan 2; 3.9 Emperor II, Adobe, Anthem, KY-31 w/endo; 3.8 SR8300, Shenandoah, Bonanza II, Austin, Phoenix, Arid. *LSD=0.4.*

MARYLAND, BELTSVILLE (*high maintenance: loam, 3.5 lb./N, 1.5" mowing*): 7.7 Gen-91, Lexus; 7.6 Coyote; 7.5 Pixie, Finelawn Petite, Falcon II, Houndog V, Duster; 7.4 Lancer; 7.3 MB-23-92, Rebel 3-D; 7.1 Jaguar 3, Rebel Jr., Apache II, Trailblazer II; 7.0 Coronado, Micro DD, Eldorado. *LSD=0.4.*

MARYLAND, SILVER SPRING (*sand, light shade, 2.5 lb./N, 3" mowing*): 6.4 MB-23-92; 6.3 Lancer; 6.2 MB-25-92; 6.1 Houndog V; 6.0 Falcon II, Rebel Jr., Lexus, Guardian, Safari, Titan 2, Austin, Astro 2000; 5.9 Gen-91, Tomahawk, SR8400, Micro DD, Montauk, Cochise, Leprechaun, Avanti, SR8300, Shenandoah, Bonanza II, Alamo, Olympic II. *LSD=0.4.*

MASSACHUSETTS, DEERFIELD (*silty clay loam, 3.5 lb./N, 2" mowing*): 7.3 Coyote; 7.1 Gen-91, Coronado, Twilight; 7.0 Lexus; 6.9 Pixie, MB-25-92, Duster; 6.8 Tomahawk, Bonsai; 6.7 Micro DD; 6.6 Finelawn Petite, Falcon II, Lancer, Apache II; 6.5 Emperor II, Virtue. *LSD=0.7.*

MISSOURI, COLUMBIA (*silty clay loam, 3.5 lb./N, 2.5" mowing*): 8.8 Pixie; 7.7 Lexus, Guardian, Bonsai Plus; 7.5 SR8200; 7.3 Falcon II, Coyote, Rebel 3-D, SR8400, Duke, Avanti, Kittyhawk, Falcon; 7.2 Gen-91, Jaguar 3, MB-25-92, Rebel Jr., MB-23-92, Safari, Eldorado, Silverado, Vegas, Austin, Aztec, Olympic II, Twilight, Anthem. *LSD=0.6.*

MISSOURI, ST. LOUIS (*silty clay loam, 3.5 lb./N, 3" mowing*): 5.9 Apache II; 5.7 Gen-91, Finelawn Petite, Lexus; 5.5 Lancer, MB-23-92; 5.4 Houndog V, Coyote, Rebel 3-D; 5.3 Rebel Jr., Duster, Micro DD, Cochise, Bonsai Plus; 5.2 Falcon II, Coronado, Vegas. *LSD=0.7.*

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MISSISSIPPI, MISSISSIPPI STATE (*sandy clay loam, 3.5 lb./N, 3" mowing*): 6.2 Guardian; 6.1 Falcon II, Safari, Duke, Monarch; 6.0 Pixie, Houndog V, SR8200, Titan 2, Kittyhawk, Falcon, Anthem; 5.9 Rebel Jr., Lancer, MB-23-92, SR8400, Montauk, Avanti, SR8300, Bonanza II, Austin, Olympic II, Phoenix, Arid. *LSD=0.4.*

NEBRASKA, LINCOLN (*high maintenance: sandy clay loam, 3.5 lb./N, 3" mowing*): 6.6 Gen-91, Lexus; 6.4 Rebel Jr., Houndog V, Coyote, Lancer; 6.3 Pixie, Finelawn Petite, Tomahawk, MB-23-92, Duster, Vegas, Twilight; 6.2 Falcon II, Leprechaun; 6.1 Guardian, Micro DD, Safari. *LSD=0.7.*

NEBRASKA, LINCOLN (*low maintenance: sandy clay loam, 1.5 lb./N, 3" mowing*): 6.4 Gen-91, Finelawn Petite; 6.3 Jaguar 3; 6.0 Pixie, MB-25-92, Houndog V, Lancer, Guardian, Trailblazer II, Vegas, SR8300; 5.9 MB-23-92, SR8200, SR8400, Montauk, Silverado, Avanti, Virtue, Astro 2000. *LSD=0.7.*

NEW JERSEY, ADELPHIA (*sandy loam, 5.5 lb./N, 1.5" mowing*): 6.8 Falcon II; 6.7 Jaguar 3, Houndog V; 6.3 MB-25-92, Coyote; 6.2 Pixie, Lexus; 6.0 Coronado; 5.9 Gen-91, Finelawn Petite, Guardian, Eldorado; 5.7 Lancer, Tomahawk, Micro DD, Duke, Silverado. *LSD=0.7.*

PENNSYLVANIA, UNIV. PARK (*medium maintenance: silt loam/silt, 1.5 lb./N, 2" mowing*): 7.7 Rebel Jr., Duke; 7.6 Montauk; 7.5 MB-23-92; 7.4 Jaguar 3, Apache, Falcon II, Tomahawk; 6.9 Gen-91, MB-25-92, Cochise. *LSD=1.0.*

PENNSYLVANIA, UNIV. PARK (*silt loam/silt, 1.5 lb./N, four mowings/yr., no irrigation*): 4.9 Titan 2, KY-31 w/endo; 4.8 KY-31 no endo; 4.6 Olympic II, Phoenix, Arid; 4.5 Safari, Anthem; 4.3 Astro 2000; 4.1 Rebel Jr.; 4.0 SR8200, Shenandoah, Kittyhawk, Falcon. *LSD=0.7.*

RHODE ISLAND, KINGSTON (*silt loam/silt, 3.5 lb./N, 2" mowing*): 6.1 Aztec; 6.0 Jaguar 3, MB-25-92, Safari, Finelawn 88, Olympic II; 5.9 Gen-91, Micro DD, Kittyhawk, Astro 2000; 5.8 Rebel 3-D, SR8200, SR8400, Titan 2, Avanti, Bonsai Plus. *LSD=0.6.*

SOUTH DAKOTA, BROOKINGS (*silty clay loam, 1.5 lb./N, 2.5" mowing*): 6.5 Lancer, Titan 2; 6.4 Gen-91; 6.2 Jaguar 3, Eldorado, Alamo, Kittyhawk, Aztec; 6.1 Finelawn Petite, Safari, Mirage, Bonanza II; 6.0 Pixie, Coyote, Rebel 3-D, Silverado, Olympic II. *LSD=0.9.*

VIRGINIA, BLACKSBURG (*silt loam/silt, 3.5 lb./N, 2.5" mowing*): 6.0 Falcon II, Duster; 5.8 Gen-91; 5.6 Coyote, Shenandoah; 5.5 Pixie, SR8400, Emperor II, Duke, Silverado, Alamo; 5.4 Jaguar 3, Lancer, MB-23-92, SR8200, Montauk, SR8300. *LSD=0.6.*

VIRGINIA, VIRGINIA BEACH (*sandy loam, 3.5 lb./N, 2.5" mowing*): 6.3 Finelawn Petite; 6.0 MB-25-92, Coyote, Lexus; 5.8 Gen-91, Pixie, Lancer; 5.7 Jaguar 3, Falcon II, Houndog V, MB-23-92, SR8200, Coronado, MB-22-92, Emperor II, Aztec. *LSD=0.5.*

WASHINGTON, PULLMAN (*silt loam/silt, 0.5 lb./N, 2" mowing*): 6.9 Coyote; 6.5 Gen-91, Pixie; 6.4 MB-25-92, Emperor II; 6.3 Jaguar 3, Bonsai; 6.2 Lancer; 6.1 Finelawn Petite, Rebel Jr., Coronado, Guardian, Micro DD, Montauk, Vegas. *LSD=0.7.*



Section 4

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continued on page 34

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INDEX OF ADVERTISERS

ADVERTISER	PAGE	CIRCLE NO.
Advanta	23	801
Burlingham, E.F.	Cover 3	802
Farmer's Market	15	803
Lesco	Cover 4	804
Manhattan II	21	805
Medalist	19	806
Oregon Fine Fescue	27	807
Oregon Tall Fescue	25	808
Pennington	7	809
Pickseed West	Cover 2	810
Roberts Seed	17	811
Seed Research	11	812
Turf Merchants	9	813
Turf-Seed	29	814

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803	813	823	833	843	853	863	873	883	893
804	814	824	834	844	854	864	874	884	894
805	815	825	835	845	855	865	875	885	895
806	816	826	836	846	856	866	876	886	896
807	817	827	837	847	857	867	877	887	897
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810	820	830	840	850	860	870	880	890	900

LANDSCAPE MANAGEMENT

1. BUSINESS & INDUSTRY

MY PRIMARY BUSINESS AT THIS LOCATION IS:
(PLEASE MARK ONLY ONE IN EITHER A, B OR C)

A. Landscaping/Ground Care at one of the following types of facilities:

- 01 0005 Golf courses
02 0010 Sports Complexes
03 0015 Parks
04 0025 Schools, colleges, & universities
05 Other type of facility (please specify) _____

B. Contractors/Service Companies/Consultants:

- 06 0105 Landscape contractors (installation & maintenance)
07 0110 Lawn care service companies
08 0112 Custom chemical applicators
09 0135 Extension agents/consultants for horticulture
10 Other contractor or service (please specify) _____

C. Suppliers:

- 11 0205 Sod growers
12 Other supplier (specify) _____

Which of the following best describes your title: (mark only one)

- 13 10 EXECUTIVE/ADMINISTRATOR
14 20 MANAGER/SUPERINTENDENT
15 30 GOVERNMENT OFFICIAL
16 40 SPECIALIST
17 50 OTHER TITLED AND NON-TITLED PERSONNEL (specify) _____

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Kentucky Bluegrass

A medium bright green, fine textured grass that greens up early, keeps color late into fall and grows well in moderate shade.

Julia

Kentucky Bluegrass

A moderately dark green variety with early spring green-up and excellent density and wear tolerance, even at a shorter cutting height.

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Superior dwarf turf-type perennial with very dark green color, fine leaf texture, excellent density, and high endophyte content with insect and disease resistance.

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turf-type perennial ryegrass

A dark green, dense variety with fine leaf texture, dwarf growth habit and high endophyte content. Tolerant of heat, drought, and low mowing.

COMMANDER

TURF-TYPE PERENNIAL RYEGRASS

A rich dark green variety with high endophyte content to fend off insects, and good disease resistance.

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INTERMEDIATE RYEGRASS

Excellent for overseeding dormant warm-season grasses and for temporary soil stabilization. This variety exhibits dark green color, moderate leaf texture, and reduced growth rate.

LANCER

Dwarf Turf-Type Tall Fescue

A low-growing dwarf turf-type with a finer leaf texture with very dark green color, provides very dense superior turf.

TRAILBLAZER II

Dwarf Turf-Type Tall Fescue

Lower growing darker green tall fescue with shorter mature plant height. Very fine textured, dense, premium quality turf.

TRAILBLAZER

DWARF TURF-TYPE TALL FESCUE

Lower growing, darker green tall fescue with a slower leaf extension rate and a shorter mature plant height.

Wrangler

TURF-TYPE TALL FESCUE

A moderately low growing turf-type tall fescue with rich, dark green color, good density, and good adaptability.

CIMARRON

TURF-TYPE TALL FESCUE

A moderately low growing turf-type tall fescue with rich, dark green color, moderate leaf texture, and reduced growth rate.

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A rich, blue-green variety with the ability to form a dense fine turf for a creeping fescue.

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Durable, low maintenance blue-gray fine fescue that grows well in sun or shade. Shetland is a low-maintenance turfgrass.

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Poa trivialis

Exhibits a darker green color and dwarf growth habit that provides a dense, fine textured turf without excessive top growth.

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