

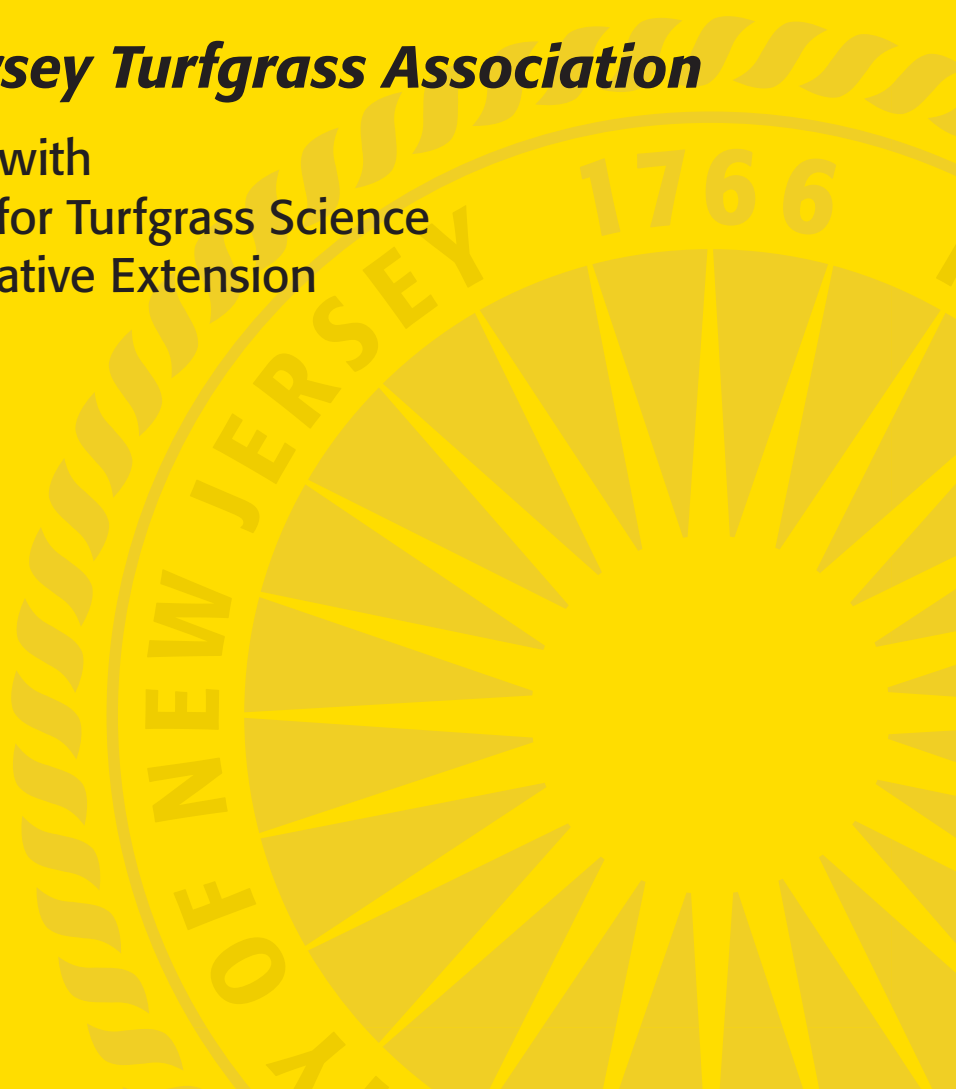
# RUTGERS

New Jersey Agricultural  
Experiment Station

## **2006 Turfgrass Proceedings**

***The New Jersey Turfgrass Association***

In Cooperation with  
Rutgers Center for Turfgrass Science  
Rutgers Cooperative Extension



# **2006 RUTGERS TURFGRASS PROCEEDINGS**

**of the**

## **New Jersey Turfgrass Expo December 5-7, 2006 Trump Taj Mahal Atlantic City, New Jersey**

The Rutgers Turfgrass Proceedings is published yearly by the Rutgers Center for Turfgrass Science, Rutgers Cooperative Extension, and the New Jersey Agricultural Experiment Station, School of Environmental and Biological Sciences, Rutgers, The State University of New Jersey in cooperation with the New Jersey Turfgrass Association. The purpose of this document is to provide a forum for the dissemination of information and the exchange of ideas and knowledge. The proceedings provide turfgrass managers, research scientists, extension specialists, and industry personnel with opportunities to communicate with co-workers. Through this forum, these professionals also reach a more general audience, which includes the public.

This publication includes lecture notes of papers presented at the 2006 New Jersey Turfgrass Expo. Publication of these lectures provides a readily avail-

able source of information covering a wide range of topics and includes technical and popular presentations of importance to the turfgrass industry.

This proceedings also includes research papers that contain original research findings and reviews of selected subjects in turfgrass science. These papers are presented primarily to facilitate the timely dissemination of original turfgrass research for use by the turfgrass industry.

Special thanks are given to those who have submitted papers for this proceedings, to the New Jersey Turfgrass Association for financial assistance, and to Barbara Fitzgerald and Marlene Karasik for administrative and secretarial support.

Dr. Ann Brooks Gould, Editor  
Dr. Bruce B. Clarke, Coordinator

# COMMERCIALY AVAILABLE COOL-SEASON TURFGRASS SPECIES AND CULTIVAR RESOURCE LIST

Stacy A. Bonos<sup>1</sup>

Turfgrass breeders have made dramatic improvements in turfgrass cultivars in recent years. Improvements include better overall turf quality, darker green color, and increased shoot density, wear tolerance, and disease resistance. There are currently 159 commercially available cultivars of tall fescue (Table 1), approximately 55 bentgrass cultivars (Table 2), 115 cultivars of fine fescue (Table 3), 211 perennial ryegrass cultivars (Table 4), and 179 Kentucky bluegrass cultivars (Table 5) from numerous seed companies (Table 6). New cultivars of all of these species are constantly being developed while older cultivars gradually go out of production. All of the current commercially available cultivars of tall fescue, bentgrass, fine fescue, perennial ryegrass, and Kentucky bluegrass are listed in the accompanying tables, along with the turfgrass seed company/companies that provide them. The contact information for the turfgrass seed companies and their websites are included in Table 6.

Additional information about cool-season turfgrass cultivar performance in New Jersey and other locations can be found at the following sources: Rutgers Cooperative Extension Fact Sheets 544, 545, 546, 688, 738, 989, and 990 (visit the New Jersey Agricultural Experiment Station Website at <http://njaes.rutgers.edu>), Rutgers Turfgrass Proceedings (which are available online at <http://www.turf.rutgers.edu>), and the National Turfgrass Evaluation Program (also available online at <http://www.ntep.org>). Turf managers are encouraged to select among the better performing cultivars by utilizing the recommended references. Selecting high quality cultivars of cool-season turfgrasses will optimize performance and maximize success of the turfgrass stand.

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Table 1. Commercially available tall fescue cultivars (as of March, 2007).

Tall Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Tall Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
2nd Millennium	+	Turf Merchants	Coyotte	+	Scotts/Landmark
Alamo	+	National Seed	Coyotte II (K01-8015)	+	Scotts/Landmark
Anthem II	+	Turf Merchants	Crewcut II	+	Seed Research /Royal
Apache III	+	Turf-Seed	Crossfire II	+	Pickseed West
Arid 3	+	Jacklin/National Seed	Dakota	+	Jonathan Green
Arid II	+	Jacklin	DaVinci (LTP-7801)	+	Lebanon Turf Products
Arizona	+	Pickseed West	Daytona (MRF 23)	+	Burlingham Seeds
Avenger (L1Z)	+	Mountain View	Dominion	+	Scotts/Landmark
Aztec II	+	Turf Merchants	Dynamic (PST-57E)	+	Scotts/Landmark
Barlexas	+	Barenbrug	Dynasty	+	Pickseed West/Scotts/Landmark
Barlexas II	+	Barenbrug	Ebony	+	Jonathan Green
Barrera	+	Barenbrug	Empress	+	Turf One
Barrington	+	Barenbrug	Endeavor	+	Turf-Seed
Biltmore	+	LESCO	Escalade	+	OreGro
Bingo	+	DLF	Expedition (ATF-803)	+	Ampac
Black Magic		Jonathan Green	Falcon II	+	Proseeds/National Seed
Blackwatch (Pick-OD3-01)	+	Seed Research/Royal/Turf One	Falcon III	+	Proseeds
Blade Runner (Roberts SM4)	+	Pickseed West	Falcon IV (F4)	+	Proseeds
Bonsai 2000	+	Turf Merchants	Fidelity (PST-5T1)	+	Scotts/Landmark
Bonsai 3000	+	Turf Merchants	Finelawn Elite (DLSD)	+	Proseeds
Bravo	+	LESCO	Finelawn Petite	+	Proseeds
Cayenne	+	Pickseed West	Finesse II	+	Turf Merchants/National Seed
Chapel Hill	+	Mountain View	Firebird (CIS-TF-65)	+	Burlingham Seeds
Cochise III (018)	+	Ampac	Five Point (MCN-RC)	+	Proseeds
Constitution (ATF-593)	+	Mountain View	Floridian (GO-FL3)	+	Grassland Oregon
Covenant	+	Smith Seed	Focus	+	Turf Merchants/National Seed
Corgi (TF 64)	+	DLF	Forté	+	Pennington
Coronado	+	Turf-Seed	Gaurdian-21 (Roberts DOL)	+	Seed Research
Coronado Gold	+	Turf-Seed	Gazelle	+	Proseeds Marketing/Turf One
Cortez II (ATF-801)	+	Ampac	Grande	+	Seed Research /Royal/Turf One

(Continued)

Table 1 (continued).

Tall Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Tall Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
Grande II	+	Seed Research/Royal	Onyx		Jonathan Green
Greenkeeper WAF (WAF)	+	Scotts/Landmark	Padre (NJ4)	+	LESCO
Gremlin (P58)	+	Proseeds	Penn 1901 (Plantation)	+	Pennington
Greystone	+	Pennington	Picasso	+	Lebanon Turf Products
Houndog 5	+	DLF	Pixie (J-89)	+	Jacklin/National Seed
Houndog 6 (CIS-TF-67)	+	DLF	Pride	+	DLF
Hunter (CIS-TF-60)	+	LESCO	Prospect	+	Pennington
Inferno (JT-99)	+	Jacklin/National Seed	Pure Gold	+	Turf-Seed
Insignia		Mountain View	Quest	+	Jacklin/National Seed
Jaguar	+	Jacklin	RAD-19		Jonathan Green
Jaguar 3	+	Jacklin/National Seed	Raptor (CIS-TF-33)		Mountain View
Jaguar 4D		Jacklin	Rebel Exceda	+	Pennington
Justice (RB2-01)	+	Pennington/National Seed	Rebel Sentry	+	Pennington
Kalahari	+	Grassland Oregon	Red Coat	+	Mountain View
Kittyhawk 2000	+	Smith Seed	Regiment II (SRX-805)	+	Seed Research/Royal
Kittyhawk SST	+	Smith Seed	Rembrandt	+	Lebanon Turf Products
Lancer	+	LESCO	Rendition	+	Smith Seed/National Seeds
Laramie	+	LESCO	Renegade II (MB 215)	+	Proseeds
Lexington (UT-RB3)	+	Columbia Seeds	Reserve	+	DLF/Scotts/Landmark
Magellan (OD-4)	+	Burlingham/LESCO	Riverside (Proseeds 5301)	+	Proseeds
Masterpiece	+	Lebanon Turf Products	Scorpion	+	Proseeds
Matador	+	Turf-Seed	Scorpion 2 (ATF-799)	+	Proseeds
Matador GT (PST-5TUO)	+	Turf-Seed	Serengeti (GO-OD2)	+	Grassland Oregon
Micro		Turf Merchants	Shelby	+	American Grass Seed Producers
Millenium	+	Turf Merchants	Shenandoah	+	Proseeds
Montauk		Jonathan Green	Shenandoah II	+	Proseeds
Mustang 3	+	Pickseed West	Shortstop II	+	Pickseed West
Ninja 2 (ATF-800)	+	Ampac	Signia	+	Pennington
Olympic Gold	+	Turf-Seed	Silverado II (PST-578)	+	Turf-Seed
Obsidian		Jonathan Green	Silverstar (PST-5ASR)	+	Turf-Seed

(Continued)

Table 1 (continued).

Tall Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Tall Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
Six Point (POD)	+	Proseeds	Ultimate	+	OreGro
Solara (BE1)	+	DLF	Venus		DLF
Southeast	+	Scotts/Landmark	Virtue		Pennington
Southern Comfort	+	DLF	Watchdog	+	Seed Research/Royal/Turf One
SR 8210	+	Seed Research	Wild Fire	+	DLF
SR 8250	+	Seed Research	Wolfpack	+	Turf-Seed
SR 8550 (SRX 8BE4)	+	Seed Research	Wyatt	+	Scotts/Landmark
SR 8600	+	Seed Research			
Starfire		DLF			
Starlet		DLF			
Stetson	+	LESCO			
Stonewall (JT-18)	+	Jacklin	Fawn	+	Numerous companies
Sunpro	+	Pickseed West	Kentucky 31	+	Numerous companies
Tahoe	+	Jonathan Green			
Taos	+	Jonathan Green			
Tar Heel	+	Turf-Seed			
Tar Heel II (PST-TR1)	+	Turf-Seed			
Tempest	+	Burlingham Seeds			
Tenacity		Scotts/Landmark			
TF66	+	Barenbrug			
Titan Ltd	+	Smith Seed/National Seeds			
Titanium (SBM)	+	Mountain View			
Tomahawk GT	+	Turf-Seed			
Tombstone		Jonathan Green			
Tomcat		DLF			
Tracer	+	Barenbrug			
Tulsa	+	Seed Research/Royal			
Tulsa II	+	Seed Research/Royal			
Turbo (CAS MC1)	+	Burlingham Seeds			
Tuxedo	+	Mountain View			

**COMMON/FORAGE CULTIVARS**

<sup>1</sup>Names in parenthesis refer to the experimental designation of that cultivar. Some research reports may use the experimental designation if it was published before the cultivar became commercially available.  
<sup>2</sup> "+" = tall fescue cultivars tested under New Jersey growing conditions. Data regarding turf performance on these entries can be found at [www.turf.rutgers.edu](http://www.turf.rutgers.edu) and [www.ntep.org](http://www.ntep.org).  
<sup>3</sup>Refer to Table 6 for contact information for these seed sources.

Table 2. Commercially available bentgrass cultivars (as of March, 2007).

Bentgrass Cultivar <sup>1</sup>	Source <sup>2</sup>	Bentgrass Cultivar <sup>1</sup>	Source <sup>2</sup>
<b>CREeping BENTGRASS</b>			
007 (DSB)	Seed Research/Royal	Penncross	Numerous companies
13M	Pennington	Penneagle	Numerous companies
Alpha	Jacklin/National Seed	Penneagle II	Turf-Seed/National Seed/Scotts/ Landmark
Authority (235050)	LESCO		Numerous companies
Backspin	Scotts/Landmark/Turf Merchants	Pennlinks	Turf-Seed/National Seed/Scotts/ Landmark
Bengal	Barenbrug USA	Pennlinks II	National Seed
Brighton	Seed Research/Royal/Scotts/Landmark	Penn Trio	Ampac/Scotts/Landmark/Seed Research/Royal/Turf One
Cato	Pickseed West	Princeville	LESCO
Century	Proseeds/Scotts/Landmark/National Seed	Providence	Seed Research
Crenshaw	Proseeds/Scotts/Landmark	Putter	Jacklin/National Seed/ Scotts/Landmark
Declaration	Lebanon Turf Products	Regent	Barenbrug USA
Grand Prix	LESCO	Sandhill	Seed Research of Oregon/Royal
Imperial	Proseeds/Scotts/Landmark	Seaside	Burlingham Seeds
Independence	Lebanon Turf Products	Seaside II	Turf-Seed/National Seed/ Scotts/Landmark/Seed Research/ Royal/Turf One
KingPin	Proseeds	Shark	Mountain View Seeds
L-93	Lebanon Turf Products	Southshore	Jacklin/National Seed/ Scotts/Landmark
Mackenzie (SRX 1GPD)	Jacklin/National Seed	SR 1119	Seed Research
Mariner	Turf One	SR 1150	Seed Research
Memorial (A03-ED1)	Pickseed West	T-1	Jacklin/National Seed
Ninety-Six Two	Scotts/Landmark	Trueline	Turf Merchants/Scotts/Landmark
Penn A-1	Pickseed West	Tyee (SRX 1GD)	Seed Research/Royal/Turf One
Penn A-2	Turf-Seed/National Seed	Viper	DLF Int. Seeds
Penn A-4	Turf-Seed/Scotts/Landmark		
	Turf-Seed/Ampac/Burlingham/ National Seed/Pennington/ Seed Research/ Royal/Turf One/Turf Merchants		
Penn G-1	Turf One		
Penn G-2	Turf-Seed/Scotts/Landmark		
Penn G-6	Ampac/Burlingham/National Seed/Scotts/ Landmark/Turf One		

(Continued)

Table 2 (continued).

Bentgrass Cultivar <sup>1</sup>	Source <sup>2</sup>
<b>COLONIAL BENTGRASS</b>	
Alister	Turf-Seed/Scotts/Landmark/National Seed
Exeter	Pickseed West
Glory	Turf-Seed/Scotts/Landmark/National Seed/ Turf One
Heriot	Barenbrug USA
SR 7150	Seed Research
Tiger II	DLF IS/Scotts/Landmark
<b>VELVET BENTGRASS</b>	
Greenwich	Turf-Seed
Legendary	Lebanon Turf Products
SR 7200	Seed Research
Venus (EFD)	Proseeds
Vesper	Pickseed West
Villa	DLF IS

<sup>1</sup> Names in parenthesis refer to the experimental designation of that cultivar. Some research reports may use the experimental designation if it was published before the cultivar became commercially available.

<sup>2</sup> Refer to Table 6 for contact information for these seed sources.



Table 3. Commercially available fine fescue cultivars (as of March, 2007).

Fine Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Fine Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>CHEWINGS FESCUE</b>					
7 Seas	+	Pennington	Silhouette	+	Seed Research/Royal/Turf One
Alice		Columbia Seeds	SR 5100	+	Seed Research
Ambassador	+	Lebanon Turf Products	SR 5130	+	Seed Research
Ambrose	+	Proseeds/National Seed/Scotts/Landmark	Tiffany	+	Turf-Seed/Turf Merchants
Bridgeport	+	Barenbrug	Treazure	+	Scotts/Landmark
Bridgeport II	+	Barenbrug	Victory II	+	Pickseed
Brittany	+	LESCO	Vista		Blue Mt.
Carmen		Jonathan Green	Waldorf		Seed Research/Royal
Cascade	+	Grassland Oregon	Windward		Pickseed
Columbra II	+	Proseeds	Wrigley	+	DLF
Compass	+	Mountain View	Zodiac	+	Burlingham
Crestlawn		Blue Mt.			
Fenway	+	Blue Mt.			
Hood		Jonathan Green	Barcrown	+	Barenbrug
Intrique	+	Turf Merchants	Dawson	+	Seed Research/Royal/Turf One
J-5	+	Jacklin	Marker		DLF
Jamestown II	+	Jacklin	Seabreeze GT	+	Turf-Seed
Jamestown IV	+	Seed Research/Royal/Columbia Seeds	SeaLink		Pickseed
Longfellow II	+	DLF/Mountain View/National Seed			
Magic	+	Ampac/Grassland Oregon/National Seed	Aberdeen	+	Turf-Seed
Musica		Burlingham	Aruba	+	Jacklin/National Seed
Polaris	+	Turf-Seed	Audobon	+	Jacklin
Salisbury		Jonathan Green	Badger	+	Scotts/Landmark
Shadow II	+	Turf-Seed	Bargena II	+	Barenbrug
			Bargena III	+	Barenbrug
<b>CHEWINGS FESCUE (cont.)</b>					
<b>SLENDER CREEPING RED FESCUE</b>					
<b>STRONG CREEPING RED FESCUE</b>					

(Continued)

Table 3 (continued).

Fine Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Fine Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>STRONG CREEPING RED FESCUE (cont.)</b>					
Celestial	+	Turf Merchants	Vista		Proseeds
Cindy Lou	+	DLF/National Seed	WendyJean	+	Scotts/Landmark
Edgewood	+	Burlingham	Weston		Jonathan Green
Eugene		Jonathan Green			
Fenway	+	Seed Research/Royal			
Florentine	+	Turf-Seed			
Florentine GT	+	Turf-Seed	Aurora Gold	+	Turf-Seed
Flyer	+	Pennington	Aurora II	+	Turf-Seed
Flyer II	+	Pennington	Berkshire	+	Scotts/Landmark
Fortitude	+	Turf Merchants	Brigade	+	Scotts/Landmark
Foxy		Proseeds	Chariot	+	Mountain View
FRI		Columbia Seeds	Defiant	+	LESCO/National Seed
Gibralfar	+	Ampac	Discovery	+	Pennington/National Seed
Inverness	+	Turf-Seed	Ecostar	+	Jacklin
Jasper	+	Pickseed	Eureka	+	Pennington
Jasper II	+	Pickseed	Eureka II	+	DLF
Lustrous	+	Pennington	Hardtop	+	Barenbrug
Navigator	+	Mountain View	Harpoon	+	Jonathan Green
Oracle	+	Lamora Enterprise	Heron	+	Mountain View
Pathfinder	+	Lebanon Turf Products	Little Bighorn	+	Turf-Seed
Razor	+	Pennington	Nordic	+	Proseeds/National Seed
Rose	+	DLF	Oxford	+	Lebanon Turf Products
Shademark	+	LESCO	Predator	+	Pennington
Shademaster			Reliant II	+	Proseeds
Silverlawn		Grassland Oregon	Rescue 911	+	Jacklin
Splendor	+	Proseeds	Rhino		Columbia Seeds
SR 5210	+	Seed Research	Ridu		DLF
Trapeze	+	Columbia Seeds	Scaldis II	+	Seed Research/Royal/Turf One

(Continued)

Table 3 (continued).

Fine Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Fine Fescue Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>HARD FESCUE (cont.)</b>					
Spartan		Pickseed	Boreal	+	Grassland Oregon/National Seed
SR 3000	+	Seed Research			
SR 3150	+	Seed Research	Pennlawn		Grassland Oregon/Scotts/Landmark/Turf One
Stonehenge	+	Ampac/Blue Mt./Grassland Oregon			
Viking	+	Proseeds			
Warwick		National Seed			
<b>BLUE/SHEEPS FESCUE</b>					
Azay		Pickseed/Seed Research/Royal Turf One			
Azure		Proseeds/Scotts/Landmark National Seed			
Barok		Barenbrug			
Bighorn	+	Turf-Seed			
Black Sheep		Scotts/Landmark			
Blue Heron		Scotts/Landmark			
Minotaur	+	Turf Merchants			
MX-86		Jacklin			
Quatro	+	DLF			
SR 3210	+	Seed Research			
Whisper		American Seed Producers			

<sup>1</sup>Names in parenthesis refer to the experimental designation of that cultivar. Some research reports may use the experimental designation if it was published before the cultivar became commercially available.  
<sup>2</sup> "+" = fine fescue cultivars tested under New Jersey growing conditions. Data regarding turf performance on these entries can be found at [www.turf.rutgers.edu](http://www.turf.rutgers.edu) and [www.ntep.org](http://www.ntep.org).  
<sup>3</sup>Refer to Table 6 for contact information for these seed sources.

Table 4. Commercially available perennial ryegrass cultivars (as of March, 2007).

Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
1G2 (APR 1667)	+	Pennington	Brightstar SLT	+	Turf-Seed
1G2	+	Pennington	Buccaneer	+	Grassland Oregon/Turf One
Academy II	+	Mountain View	Buena Vista	+	Burlingham Seeds
Accent	+	Jacklin/National Seed	C-35	+	Jonathan Green
Accent II (JR-119)	+	Jacklin	Cabo	+	Grassland Oregon
Admire	+	Jacklin	Cabo II	+	Grassland Oregon
Affinity	+	Turf Merchants	Caddieshack	+	Jacklin/National Seed
Affirmed	+	Lebanon Turf Products	Caddieshack II (JR-163)	+	Jacklin
All*Star 3 (IS-PR 274)	+	DLF IS	Calypso II	+	Turf One
All*Star2	+	DLF IS	Capri	+	DLF IS
Allaire II	+	Turf Merchants	Catalina II	+	Turf-Seed
Allsport	+	LESCO	Chaparral II	+	Turf-Seed
Allsport II	+	LESCO	Charger	+	Turf-Seed
Amazing	+	Ampac	Charger II	+	Turf-Seed
Applaud	+	Pennington	Charismatic	+	Lebanon Turf Products
Apple GL (AAZ-B104)	+	Mountain View	Charismatic II GLSR	+	Lebanon Turf Products
Aquarius	+	Turf Merchants	(LTP-PG-GLSR)	+	Lebanon Turf Products
Arrival	+	LESCO	Churchill	+	DLF IS
Ascend	+	Scotts/Landmark	Cinderella	+	Turf-Seed
ASP6001 (RTS)	+	Allied Seed	Citation Fore	+	Turf-Seed
ASP6002 (BPR)	+	Allied Seed	Citation III	+	Turf-Seed
ASP6003 (TRS)	+	Allied Seed	Cutter	+	Pickseed West
ASP6004 (EXS54)	+	Allied Seed	Darkstar II	+	Jonathan Green
ASP6005 (AJM)	+	Allied Seed	Dart (APR 1663)	+	Mountain View
ASP6006 (LPFG)	+	Allied Seed	Dazzle	+	Proseeds
Barclay	+	Barenbrug USA	Delaware XL (Pick 01-2)	+	Ampac
Barlennium	+	Barenbrug USA	Derby Supreme	+	DLF IS
Blackhawk	+	Turf Merchants	Derby Xtreme (IS-PR 268)	+	DLF IS
Blazer IV (PSW #44)	+	Pickseed West	Divine	+	Scotts/Landmark
Brightstar II	+	Turf-Seed	DLF 121	+	DLF IS

(Continued)

Table 4 (continued).

Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
DP-1	+	Pennington	Indy	+	American Seed Producers
Drifter		Proseeds	Inspire	+	Scotts/Landmark
Edge	+	Pickseed West/Turf One	Integra	+	Pennington
Elfin	+	DLF IS	IS-PR 269	+	Columbia Seeds
Esquire	+	DLF IS	IS-PR 273	+	Columbia Seeds
Essence	+	DLF IS	Jet	+	Pennington
Evening Shade		Turf Merchants	Jiffie II	+	Pickseed West
Exacta	+	Lebanon Turf Products	Keystone	+	DLF IS
Exacta II GLSR (LTP-611-GLSR)	+	Lebanon Turf Products	Keystone II (IS PR 312)	+	DLF IS
Express	+	Pickseed West	Kokomo	+	Grassland Oregon/National Seed
Extreme	+	Jacklin	Kokomo II		Grassland Oregon
Fiesta 3	+	Pickseed West	La Quinta (JR-255)	+	Jacklin
Fiesta 4	+	Pickseed West	Laredo	+	Turf Merchants/National Seeds
Firebolt (PRG HS 01-09)	+	Seed Research	Line Drive	+	LESCO/Proseeds
Flash II		Mountain View	Lowgrow II	+	Pickseed West
Fusion	+	Burlingham Seeds	Mach 1	+	Seed Research/Royal/Turf One
Gallery	+	Scotts/Landmark	Magnum Gold		Seed Research/Royal
Gator 3	+	DLF IS	Majesty	+	Scotts/Landmark
GL-2	+	Proseeds	Manhattan 4	+	Turf-Seed/Turf Merchants/National Seed
Goal Keeper	+	Jacklin/National Seed	Manhattan 5 GLR (PST -2AM)	+	Turf-Seed
Goal Keeper II (JR 114)	+	Jacklin	Monterey 3 (JR-408)	+	Jacklin
Grand Slam	+	Mountain View	Monterey II	+	Jacklin/National Seed
Greenville	+	LESCO	Morning Star	+	Pennington
Halo (KN42)	+	Kenako Seeds Inc	Nexus	+	Smith Seed/National Seed
Harrier (SRX 4UP3)	+	Seed Research	Nobility	+	Ampac
Hawkeye	+	Seed Research/Royal	Oasis		Grassland Oregon
Headstart II	+	Turf One	Omni	+	Seed Research/Royal
Homerun (RG3P)	+	Mountain View	Overdrive	+	Burlingham Seeds
Icon	+	LESCO/Burlingham Seeds			

Table 4 (continued).

Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
Pace		Barenbrug USA	Premier II	+	Barenbrug USA
Pacesetter	+	LESCO	Presidio (CNV)	+	Columbia Seeds
Pageant II		Mountain View	Preston		Jonathan Green
Palace (IS PR 273)	+	Columbia Seeds	Primary (IS PR 269)	+	Columbia Seeds
Palmer GLS (APR 1797)	+	Proseeds	Promise	+	Turf Merchants
Palmer III	+	Proseeds	ProSport	+	LESCO
Palmer IV (IG3)	+	Proseeds	Protégé GLR	+	Turf Merchants
Panther	+	Proseeds	Protocol 3		Smith Seed Services
Panther GLS (APR 1662)	+	Proseeds	ProTyme	+	Proseeds
Paradigm	+	Smith Seed Services	Quest II	+	Proseeds
Paragon	+	Turf Merchants	Quebec		Pickseed West
Paragon GLR	+	Turf Merchants/National Seeds	Quicksilver (PST 2G1)	+	Turf-Seed
Patriot 3		Turf Merchants	Quickstart	+	Turf-Seed
Pavillion	+	Turf Merchants	Racer 2	+	Turf One
Peak		Barenbrug USA	Radiant 2	+	Proseeds
Pearl II	+	Mountain View	Regal 5 (IS PR 271)	+	DLF IS
Penguin	+	Seed Research/Royal	Renaissance	+	Smith Seed Services
Pennent II	+	Proseeds	Repell GLS (APR 1669)	+	Proseeds
Pentium	+	Scotts/Landmark	Revenge GLX (JR-348)	+	Jacklin
Peregrine	+	Seed Research/Royal	RNS	+	Proseeds
Phenom	+	Ampac	Roadrunner	+	Turf-Seed
Pick PR1-94	+	Pickseed West	Roadster		American Seed Producers
Pinnacle II	+	Barenbrug USA	Saint		American Seed Producers
Pirouette		Barenbrug USA	Salinas	+	Turf-Seed
Pizzazz	+	Turf Merchants	Secretariat	+	Grassland Oregon
Pleasure XL	+	Ampac	Secretariat II GLSR		
Plymouth		Jonathan Green	Secretariat II GLSR (LTP-101-GLSR)	+	Lebanon Turf Products
Prelude GLS (APR 1619)	+	Proseeds	Seville II	+	Pickseed West
Prelude III	+	Proseeds	Shining Star	+	Pennington
Prelude IV	+	Proseeds	Silver dollar	+	Turf-Seed

(Continued)

Table 4 (continued).

Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Perennial Ryegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
Sol		Grassland Oregon			
Sonata	+	Pennington			
Splendid	+	Scotts/Landmark			
SR 4200	+	Seed Research			
SR 4220	+	Seed Research			
SR 4350	+	Seed Research			
SR 4420	+	Seed Research			
SR 4500	+	Seed Research			
SR 4550 (APR 1557)	+	Seed Research			
SR 4600 (SRX 4SP)	+	Seed Research			
Stellar	+	Mountain View			
Stellar GL (IS PR 236)	+	Mountain View			
Summerset	+	Scotts/Landmark			
Sun-Kissed	+	Proseeds			
Sunshine 2	+	Pickseed West			
Top Gun	+	Jacklin/National Seed			
Top Gun II (JR-324)	+	Jacklin			
Top Hat 2	+	DLF IS			
Vail II		Proseeds			
Vixen		Burlingham Seeds			
Wilmingon	+	LESCO			
Wind Star	+	Pennington			
Windance	+	Pennington			
Windance II (PWDR)	+	Pennington			
Wizard	+	Proseeds			
Yorkshire Dales		Jonathan Green			

**STANDARD FORAGE TYPE CULTIVARS**

Linn + Numerous

<sup>1</sup>Names in parenthesis refer to the experimental designation of that cultivar. Some research reports may use the experimental designation if it was published before the cultivar became commercially available.

<sup>2</sup> "+" = perennial ryegrass cultivars tested under New Jersey growing conditions. Data regarding turf performance on these entries can be found at [www.turf.rutgers.edu](http://www.turf.rutgers.edu) and [www.ntep.org](http://www.ntep.org).

<sup>3</sup>Refer to Table 6 for contact information for these seed sources.

Table 5. Commercially available Kentucky bluegrass cultivars (as of March, 2007).

Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>HIGH DENSITY (Formerly Aggressive Type)</b>					
A-34	+	Turf Merchants	America	+	Pickseed West/Turf One
Julius	+	DLF	Apollo	+	Proseeds/National Seed/Scotts/Landmark
Harmonie	+	DLF	Arrow	+	Mountain View
Limousine	+	Jacklin	Bedazzled	+	Turf Merchants
North Star	+	Turf-Seed	Blackberry (A99-3108)	+	Turf Merchants
Touchdown	+	Pickseed West/National Seed	Bordeaux	+	Lebanon Turf Products
<b>COMPACT TYPE</b>					
Able 1	+	Turf Merchants	Brilliant	+	Turf Merchants/National Seed
Alpine	+	Seed Research/Royal/Turf One	Casablanca	+	Turf-Seed
Ascot	+	Scotts/Landmark	Delight (A97-1432)	+	Grassland Oregon
Bewitched	+	Turf Merchants	Dynamo	+	DLF IS
Blue-tastic (IB7-308)	+	Jonathan Green	Glenmont	+	Burlingham Seeds
Broadway	+	DLF	Kingfisher (SRX 2394)	+	LESCO
Chicago II	+	Jacklin/National Seed	Langara	+	Seed Research/Royal
Diva	+	Proseeds/National Seed	Mallard	+	Pickseed West
Goldstar (A98-296)	+	Mountain View	Mystere	+	Pennington
Hallmark	+	LESCO	Royale	+	Proseeds
Moon Shadow	+	Pickseed West	Showcase	+	Pennington
Moonbeam	+	Turf-Seed	Sonoma	+	Seed Research/Royal
Moonlight	+	Turf-Seed	SR 2284	+	Lebanon Turf Products
Princeton P-105	+	Proseeds/Scotts/Landmark/National Seed	Unique	+	Seed Research
Serene	+	National Seed	Valor (A97-1330)	+	Turf-Seed
Skye	+	Turf-Seed/Scotts/Landmark	<b>COMPACT-MIDNIGHT TYPE</b>		
Wildwood	+	Grassland Oregon	Absolute	+	Jacklin
		LESCO	Alexa	+	Proseeds

(Continued)



Table 5 (continued).

Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>COMPACT-MIDNIGHT TYPE (cont.)</b>					
Arcadia Award	+	Seed Research/Royal/Ampac	Banff	+	Pickseed West
Awesome	+	Jacklin/National Seed	Haga	+	Burlingham Seeds
Barrister	+	Jacklin	<b>JULIA TYPE</b>		
Beyond	+	Barenbrug			
Blue Velvet	+	Jacklin			
Bluestone	+	Pickseed West	Avalanche	+	Scotts/Landmark
Courtyard	+	Mountain View	Julia	+	DLF
Everest	+	Scotts/Landmark	Rampart	+	Turf One
EverGlade	+	Jacklin			
Excursion	+	Jacklin/National Seed	<b>MID-ATLANTIC TYPE</b>		
Explorer	+	LESCO/Pickseed West			
Freedom II	+	Pickseed West	Cabernet	+	Lebanon Turf Products
Freedom III	+	National Seed	Eagleton	+	Proseeds
Ginney	+	Jacklin/National Seed	Livingston	+	Turf-Seed
Impact	+	Proseeds/National Seed	Preakness	+	Proseeds
Liberator	+	Jacklin/LESCO			
Midnight	+	Jacklin/National Seed	<b>SHAMROCK TYPE</b>		
Midnight II	+	Turf-Seed			
Midnight Star	+	Turf-Seed	Bonaire (A97-884)	+	Turf Merchants
Nu Destiny	+	Jacklin/National Seed	Brooklawn	+	Turf Merchants/National Seed
NuGlade	+	Jacklin/National Seed	Champagne	+	Lebanon Turf Products
Perfection	+	Jacklin	Champlain	+	Mountain View
Quantum Leap	+	Ampac/Turf One	Durham	+	Grassland Oregon
Rugby II	+	Jacklin/Ampac/Turf One	Guinness	+	Proseeds
Rythum	+	DLF	Katie (A96-451)	+	DLF IS
Total Eclipse	+	Jacklin/National Seed	Lakeshore	+	LESCO
Tsunami	+	Jacklin	Mongoose	+	Grassland Oregon
			Moonshine	+	Turf-Seed

(Continued)

Table 5 (continued).

Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>SHAMROCK TYPE (cont.)</b>					
Shamrock Wild Horse	+	LESCO/Turf Merchants Blue Mt. Seeds	Sonic Voyager Wellington	+	Proseeds Turf-Seed LESCO
<b>BVMG TYPE</b>					
Abbey	+	Scotts/Landmark	Dura Blue		Scotts/Landmark
Atlantis	+	Proseeds/Seed Research/Royal	Fahrenheit 90	+	Mountain View
Blue Star		Turf-Seed	Fire & Ice		Turf Merchants
Cannon	+	Seed Research/Royal	Longhorn	+	Turf-Seed/LESCO
Clearwater	+	Ampac/Proseeds/Seed Research/Royal	Solar Green		Scotts/Landmark
Crest	+	Pickseed West	Thermal Blue	+	Scotts/Landmark
Denim	+	Turf-Seed/Burlingham Seeds	Thermal Blue Blaze		Scotts/Landmark
Dragon	+	Proseeds			
Envicta	+	Scotts/Landmark			
Goldrush	+	Scotts/Landmark			
Marquis	+	Turf One			
Raven	+	Scotts/Landmark			
<b>COMMON TYPE</b>					
Aene	+	Grassland Oregon/Seeds, Inc./Turf One	Allure	+	DLF
Armadillo			Argos (A99-2168)	+	Seed Research/Royal/Turf One
Blue Angel	+	Grassland Oregon	Appalachain	+	DLF
Moonstruck		Proseeds	Barimpala	+	Barenbrug
Park	+	Proseeds	Bariris	+	Barenbrug
		Grassland Oregon/Seed Research/Royal	Baritone	+	Barenbrug
			Baronette	+	Barenbrug
			Baronie	+	Barenbrug
			Blacksburg II	+	Turf-Seed/National Seed
			Blackstone	+	Scotts/Landmark
			Blue Chip		Jacklin
			Blue Knight	+	DLF
<b>TEXAS x KENTUCKY BLUEGRASS HYBRIDS</b>					
<b>OTHER TYPE</b>					

(Continued)

Table 5 (continued).

Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>	Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>OTHER TYPE (cont.)</b>					
Blue Ridge (A97-1449)	+	Pennington	NuBlue	+	Jacklin/National Seed/Turf Merchants
Blue Sapphire (NAK991)	+	Columbia River Seeds	Opti Green	+	Turf-Seed
Blueberry (Y2K-34)	+	Turf Merchants	Orfeo	+	Seed Research/Royal
Bluechip	+	National Seed	Pacific 320	+	DLF
Bluemax	+	Scotts/Landmark	Rambo	+	Jacklin/National Seed
Bravado (A96-1353)	+	Turf Merchants	Rita	+	Turf-Seed
Bronco	+	Pickseed West	Royce	+	Mountain View
Cadet	+	Pennington	Rugby	+	Ampac/Turf Merchants
Chateau	+	Pennington	Troy	+	Grassland Oregon
Cheetah	+	Seed Research/Royal	Ulysses	+	Seed Research/Royal
Chelsea	+	DLF IS	Voyager II	+	Turf-Seed
Comrade	+	Ampac	<b>STANDARD/UNPROTECTED CULTIVARS</b>		
Coventry	+	Scotts/Landmark	Baron (BVMG)	+	Ampac/Barenbrug/Burlingham Seeds/Grassland Oregon/National Seed/Proseeds/Turf Merchants/Turf One
Cynthia	+	Seed Research/Royal	Cache (Common)	+	Grassland Oregon/Seed Research/Royal/Seeds, Inc.
Full Moon	+	Turf-Seed	Kenblue (Common)	+	Grassland Oregon/Scotts/Landmark/Seed Research/Royal/Seeds, Inc./Turf One
Geronimo	+	Seed Research/Royal/Turf One	Merit (BVMG)	+	Proseeds/Seed Research/Royal/Turf Merchants/Turf One
Ginger	+	Grassland Oregon			
High Noon	+	Turf-Seed			
Hunnington	+	Proseeds			
Jefferson	+	National Seed			
Jewel	+	Seeds Inc./Turf Merchants/Grassland Oregon			
Kelly	+	Grassland Oregon			
Mercury	+	Ampac			
Monte Carlo	+	Pickseed West			
NA3248	+	Pennington			
NA3271	+	Columbia Seeds			
Nottingham	+	Columbia Seeds			
		Scotts/Landmark/Pennington			

(Continued)

Table 5 (continued).

Kentucky Bluegrass Cultivar <sup>1</sup>	Tested in NJ <sup>2</sup>	Source <sup>3</sup>
<b>STANDARD/UNPROTECTED CULTIVARS (cont.)</b>		
Midnight (Midnight)	+	Turf-Seed/Burlingham Seeds/ National Seed/Scotts/Landmark/ Turf Merchants
Washington (Other)	+	Seeds, Inc/Burlingham/Grass- land Oregon/National Seed/ Scotts/Landmark/Turf Merchants

<sup>1</sup>Names in parenthesis refer to the experimental designation of that cultivar. Some research reports may use the experimental designation if it was published before the cultivar became commercially available.

<sup>2</sup>“+” = Kentucky bluegrass cultivars tested under New Jersey growing conditions. Data regarding turf performance on these entries can be found at [www.turf.rutgers.edu](http://www.turf.rutgers.edu) and [www.nfep.org](http://www.nfep.org).

<sup>3</sup>Refer to Table 6 for contact information for these seed sources.

Table 6. Wholesale turfgrass seed companies.

**American Seed Producers**

Randie Waldie  
800-247-7815  
[randyw@dswebnet.com](mailto:randyw@dswebnet.com)

**Ampac Seed Company**

[www.ampacseed.com](http://www.ampacseed.com)

**Barenbrug USA**

800-547-4101  
[www.barusa.com](http://www.barusa.com)

**Blue Mt. Seeds, Inc.**

Bill Merigan  
541-534-2221  
[bill@bluemtseeds.com](mailto:bill@bluemtseeds.com)

**Burlingham Seeds LLC**

800-236-0296  
[info@burlinghamseeds.com](mailto:info@burlinghamseeds.com)  
[www.burlinghamseeds.com](http://www.burlinghamseeds.com)

**Columbia Seeds LLC**

Scott Harer  
888-681-7333  
[sharer@columbiaseeds.com](mailto:sharer@columbiaseeds.com)  
[www.columbiaseeds.com](http://www.columbiaseeds.com)

**DLF International Seeds** (Reed & Perrine)<sup>1</sup>

[www.dlfis.com](http://www.dlfis.com)

**Fisher and Sons** (Turf Seed)<sup>1</sup>

Mike Oleykowski  
800-262-2127

**FM Brown & Sons** (Turf Seed)<sup>1</sup>

Marie Pompei  
610-781-4265  
[mariepompei@fmbrown.com](mailto:mariepompei@fmbrown.com)  
Mary Beth Ruh  
800-345-3344 x207  
[marybethruh@fmbrown.com](mailto:marybethruh@fmbrown.com)

**Grassland Oregon**

Risa DeMasi  
503-566-9900

**Jacklin Seed by Simplot**

Jim Kinservick  
800-688-7333  
[Jim.Kinservick@Simplot.com](mailto:Jim.Kinservick@Simplot.com)  
[www.simplot.com/turf/jacklin/](http://www.simplot.com/turf/jacklin/)

**Jonathan Greene**

[www.jonathangreen.com](http://www.jonathangreen.com)

**Lebanon Turf Products**

800-233-0628  
[www.lebturf.com](http://www.lebturf.com)

**LESCO, Inc.**<sup>2</sup>

[www.lesco.com](http://www.lesco.com)

**Mountain View Seeds**

Frank Welch  
717-394-0562  
[fwelch9236@yahoo.com](mailto:fwelch9236@yahoo.com)  
[www.mtviewseeds.com](http://www.mtviewseeds.com)

**National Seed**

Ken Griepentrog  
800-828-5856

**OreGro Seeds Inc.**

Matt Herb  
541-258-1001  
[mherb@centurytel.net](mailto:mherb@centurytel.net)  
[www.oregroseeds.com](http://www.oregroseeds.com)

**Pennington Seed, Inc.**

Tom Taylor  
516-752-9613  
[ttaylor@penningtonseed.com](mailto:ttaylor@penningtonseed.com)  
[www.penningtonseed.com](http://www.penningtonseed.com)

**Pickseed West, Inc.**

Chris McDowell  
541-926-8886  
[chrism@pickseedwest.com](mailto:chrism@pickseedwest.com)  
[www.pickseed.com](http://www.pickseed.com)

**ProSeeds Marketing, Inc./**

**Alliance Seed**  
Henry Lesinski  
908-237-1361  
[henrylesinski@msn.com](mailto:henrylesinski@msn.com)

**Scotts/**

**Landmark Seed Company**<sup>3</sup>

John Brader (golf, sports, lawn, and landscape)  
866-273-7333  
[john@landmarkseed.com](mailto:john@landmarkseed.com)  
Larry Humphreys (sod)  
888-763-8873  
[larry.humphreys@scotts.com](mailto:larry.humphreys@scotts.com)  
[www.landmarkseed.com](http://www.landmarkseed.com)

**Reed & Perrine, Inc.** (DLFIS)<sup>1</sup>

P.O. Box 100 Main Street  
Tennent, NJ 07763  
732-446-6363

**Seeds, Inc.**

Linda Zehm  
509-291-5441

**Seed Research of Oregon**

Bill Dunn  
800-253-5766  
[www.sroseed.com](http://www.sroseed.com)

**Smith Seed Services**

[www.smithseed.com](http://www.smithseed.com)

**Turf One**

Bill Dunn  
800-253-5766  
[www.turfone.com](http://www.turfone.com)

**Turf Merchants, Inc.**

[www.turfmerchants.com](http://www.turfmerchants.com)

**Turf Seed, Inc.** (Fisher & Sons, FM Brown & Sons)<sup>3</sup>

[www.turf-seed.com](http://www.turf-seed.com)

<sup>1</sup>Company in parenthesis indicates either distributor or official owner

<sup>2</sup>See website for store locator

<sup>3</sup>Scotts Co. recently purchased Turf-Seed, Inc. Contact information may be subject to change



*Cooperating Agencies:* Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.