

SEED RESEARCH OF OREGON

The germination of ideas

FEATURES

- Superior Gray Leaf Spot resistance
- Excellent wear tolerance due to spreading growth habit
- Fine leaf texture and vivid, dark green color
- Uses: Golf course fairways and tees, sports turf fields, home lawns and use as a winter overseed

BENEFITS

- Superior Gray Leaf Spot, Crown Rust and Red Thread resistance results in less fungicide use
- Excellent wear tolerance and improved recovery from injury
- Improved summer stress tolerance and winter active growth
- High seedling vigor for fast emergence and establishment
- High resistance to billbugs and other insects due to high endophyte levels

SEEDING RATES

- Seeds/lb: 220,000–250,000
- Seeds/kg: 484,000–550,000
- New Turf:
7–9 lbs/1,000 sq ft
33–45 gr/m²
300–400 lbs/acre
- Winter Overseed Rates:
Golf greens –
30 lbs/1,000 sq ft
140 gr/m²
Golf fairways and tees –
450–700 lbs/acre
Sports fields and golf roughs
250–450 lbs/acre

ESTABLISHMENT

- Germination: 3–7 days under ideal conditions
- First mowing: 14 days after emergence
- First limited use: 3 weeks after emergence

SR 4600

PERENNIAL RYEGRASS

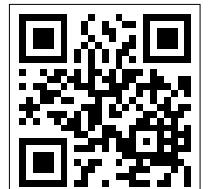
SR 4600 perennial ryegrass is a new perennial ryegrass that is the result of years of cooperative research between Rutgers University and Seed Research of Oregon. SR 4600 traces its origins back to 33 clones selected at Rutgers University for improved Gray Leaf Spot resistance, very high turf quality, improved color, summer stress tolerance, and a spreading growth habit. Progeny of those clones were sent to Seed Research of Oregon's research facility where further screening was completed for higher seed yield, color, and improved stress and disease resistance in the production environment.



SR 4600 was bred for its spreading growth habit which resulted in excellent wear tolerance and rapid recovery from turf injury. SR 4600 has excellent Gray Leaf Spot resistance along with high resistance to both Crown Rust and Red Thread diseases. SR 4600 has a demonstrated an improved winter active growth profile which provides a marked advancement over other varieties.

These enhancements, along with excellent summer stress tolerance, make SR 4600 adaptable to a variety of turf situations, from northern climates south through the transition zone.

SR 4600's dark green color and high stress tolerances makes it ideal for a variety of professional turf applications. It blends well with other perennial ryegrasses for golf course fairways, sports fields, sod production and home lawns. It also mixes well with Kentucky bluegrass and fine fescues. When blended with other perennial ryegrasses or mixed with *Poa trivialis* or fine fescue, SR 4600 makes an ideal winter overseed on permanent bermudagrass turf.



SR 4600

PERENNIAL RYEGRASS

2004 NTEP National Perennial Ryegrass Trial Gray Leaf Spot Ratings – Mean of 2 Locations (2005 Data)

Disease Rating: 1-9; 9=No Disease

Variety	Mean	Charismatic II GLSR	8.2	Keystone 2	6.8	Brightstar SLT	4.7
Fiesta 4	9.0	Palmer IV	8.0	Overdrive	6.5	Pinnacle	3.3
SR 4600	8.8	Regal 5	7.8	Pizzazz	5.5	<i>LSD @ 5%</i>	<i>1.1</i>
Harrier	8.5	Revenge GLX	7.7	Palmer III	5.3		
Derby Xtreme	8.3	Fusion	7.3	Affinity	5.2		
Manhattan 5 GLR	8.3	Buena Vista	7.2	Pianist	5.2		

2004 NTEP National Perennial Ryegrass Trial Mean Turfgrass Quality Ratings Grown Under Traffic Stress – Puyallup, WA (2005 Data)

Turfgrass Quality Rating: 1-9; 9=Ideal Turf

Variety	Mean	Regal 5	5.4	Inspire	4.7	Premier	4.4
SR 4600	5.7	Citagion Fore	5.2	Affinity	4.6	Pinnacle	4.1 <i>LSD</i>
Palmer IV	5.6	Galatti	5.2	Manhattan 5 GLR	4.9	<i>@ 5%</i>	<i>0.6</i>
Buena Vista	5.5	Derby Xtreme	5.1	Top Gun II	4.8		
All*Star 3	5.4	Wind Dance	5.0	Brightstar SLT	4.5		

2004 NTEP National Perennial Ryegrass Trial Medium Maintenance – Quality Ratings at 12 Locations (2005 Data)

Turfgrass Quality Rating: 1-9; 9=Ideal Turf

Variety	Mean	All*Star 3	6.0	Citation Fore	5.8	Palmer III	5.2
SR 4600	6.2	Panther GLS	6.0	Quicksilver	5.7	Premier II	5.3
Paragon GLR	6.1	Mach I	5.9	Brightstar SLT	5.5	Pinnacle	4.7
Fiesta 4	6.1	Manhattan 5 GLR	5.8	Pinnacle II	5.5	<i>LSD @ 5%</i>	<i>0.3</i>
Palmer IV	6.1	Line Drive GLC	5.8	Top Gun II	5.4		

2004 NTEP National Perennial Ryegrass Trial Summer Density Ratings – Mean of 5 Locations (2005 Data)

Density Rating: 1-9; 9=Maximum Density

Variety	Mean	Charismatic II GLSR	7.5	Manhattan 5 GLR	7.1	Pinnacle	6.1
Homerun	7.9	Pizzazz	7.4	Pinnacle II	7.0	<i>LSD @ 5%</i>	<i>0.6</i>
SR 4600	7.7	Inspire	7.3	Top Gun II	6.9		
Mach I	7.6	Palmer IV	7.3	Fusion	6.9		
Paragon GLR	7.5	Caddieshack II	7.2	Premier	6.6		

To determine whether a cultivar's performance is different from another, subtract one entry's mean from another entry's mean. If this value is larger than the LSD value, the observed difference in cultivar performance is significant and did not happen by chance. Complete tables are available upon request.