SEED RESEARCH OF OREGON

The germination of ideas

FEATURES

- Highest Gray Leaf Spot resistance
- Excellent wear tolerance
- Excellent seedling vigor
- Early development of spreading rhizomes
- Excellent seedling and mature plant salt tolerance
- Excellent for permanent turf and overseeding warm-season grasses
- Ideal for use on golf course fairways, tees and roughs, sports fields, schools, parks and lawns

BENEFITS

- Disease resistance results in fewer fungicide applications
- High levels of viable endophyte for insect control and stress tolerance
- Fast establishment
- Excellent drought tolerance
- Tolerates poor quality irrigation water
- Rapid tillering for excellent wear tolerance

SEEDING RATES

- Seeds/lb: 220,000 – 250,000
- Seeds/kg: 484,000 – 550,000
- New Turf:
  7–9 lbs/1000 sq ft
  33–45 grams/sq m
  300–400 lbs/acre
  340–455 kg/ha
- Winter Overseed Rate:
  Golf Green
  30 lbs/1000 sq ft
  140 grams/sq m
- Golf fairways and tees
  450–700 lbs/acre
  510–800 kg/ha
- Sports field and golf roughs
  250–450 lbs/acre
  285–510 kg/ha

SR 4650

PERENNIAL RYEGRASS

SR 4650 Perennial Ryegrass (PSRX-3701) *(Lolium perenne)* is an attractive, leafy, endophyte-enhanced ryegrass that has the highest level of Gray Leaf Spot resistance of any perennial ryegrass. It has demonstrated high overall performance under various maintenance levels ranging from golf course fairways to residential lawns. Early development of spreading rhizomes gives this variety increased density when used for permanent turf, along with improved wear tolerance and recovery.

The range of performance of SR 4650 makes it ideal for all perennial ryegrass uses, especially blended with other varieties of perennial ryegrass or with other turf species. SR 4650 has demonstrated excellent traffic tolerance, which makes it superior for use on sports fields, as well as parks and schools. The high summer performance, from its drought and stress tolerance, make SR 4650 ideal for permanent turf use. SR 4650 has also shown excellent performance as a grass for overseeding of dormant bermudagrass, with superior winter growth and good transition. Excellent germination and growth under saline water irrigation and under drought conditions, enables SR 4650 to be used in many marginal turf sites.

The dark green genetic color and high stress tolerances of SR 4650 makes it the ideal choice for a wide range 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 4650 makes an ideal winter overseed on dormant bermudagrass turf for lawns and landscape, sports fields and golf courses. The cool weather active growth of SR 4650 makes this a superior variety for all winter overseeding uses on dormant bermudagrass turf.

ESTABLISHMENT

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

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SR 4650 PERENNIAL RYEGRASS

2010 National Perennial Ryegrass Test (2011 Data) – Mean Turfgrass Quality Ratings of Named Perennial Ryegrass Cultivars. Grown at Seven Locations for AMMI Group 3

Turfgrass Quality Rating 1-9; 9=Ideal Turf

Variety	*Mean*	*Variety*	*Mean*	*Variety*	*Mean*	*Variety*	*Mean*	*Variety*	*Mean*
SR 4650	**6.0**	Pizzazz 2 GLR	5.9	Octane	5.8	Bonneville	5.7	Linn	3.8
Pangea GLR	6.0	Palmer V	5.9	Uno	5.8	Brightstar SLT	5.6	*LSD @ 5%*	*0.8*
Rio Vista	6.0	Sienna	5.9	Dominator	5.8	Haven	5.6		
Sideways	**5.9**	Fiesta 4	5.8	Insight	5.8	Pinnacle	5.1		

2010 National Perennial Ryegrass Test (2011 Data) – Mean Turfgrass Quality and Gray Leaf Spot Ratings of Named Perennial Ryegrass Cultivars. Grown at Adelphia, NJ (GLS Study)

Rating 1-9; 9=Ideal Turf or No Disease

Variety	*Quality*	*Gray Leaf Spot 71 Days*	*Variety*	*Quality*	*Gray Leaf Spot 71 Days*	*Variety*	*Quality*	*Gray Leaf Spot 71 Days*
SR 4650	**7.9**	**8.0**	Sox Fan	5.6	5.0	Insight	1.7	2.0
Sideways	**6.7**	**7.7**	Fiesta 4	5.0	4.7	Brighstar SLT	1.4	1.7
Pangea GLR	7.6	7.0	Palmer V	4.6	4.3	Allante	1.8	1.3
Bonneville	6.8	7.0	Haven	4.2	4.3	Pinnacle	1.1	1.0
Octane	7.6	6.7	Uno	3.6	3.0	Linn	1.0	1.0
Pizzazz 2 GLR	6.8	6.7	Dominator	3.0	3.0			
Rio Vista	6.1	6.0	Sienna	2.1	2.3	*LSD@5%*	*1.0*	*1.1*

2010 National Perennial Ryegrass Test (2011 Data) – Percent Green Cover of Named Perennial Ryegrass Cultivars – In Drought Study at Blacksburg, VA. Percent of Green Cover Shown

Variety	*1 month Irrigation Withheld 7/24*	*Recovery 9/6*	*Variety*	*1 month Irrigation Withheld 7/24*	*Recovery 9/6*	*Variety*	*1 month Irrigation Withheld 7/24*	*Recovery 9/7*
Sideways	**17.7**	**80.0**	Sox Fan	14.0	60.0	Linn	8.3	40.7
SR 4650	**28.7**	**76.3**	Palmer V	22.3	55.3	Brightstar SLT	21.0	43.3
Bonneville	20.3	70.7	Pangea GLR	19.0	52.0	Haven	11.7	41.7
Uno	21.0	68.3	Insight	16.7	50.0	Pinnacle	18.7	38.7
Pizzazz 2 GLR	7.0	65.0	Rio Vista	4.3	50.0			
Dominator	15.0	63.0	Allante	10.0	47.3	*LSD@5%*	*33.6*	*58.7*
Octane	18.0	61.0	Sienna	37.0	46.7			

2010 National Perennial Ryegrass Test (2011 Data) – Mean Turfgrass Quality Ratings of Named Perennial Ryegrass Cultivars. Southern Winter Overseeding Trial at Eufaula Country Club, Alabama

Turfgrass Rating 1-9; 9=Ideal Turf

Variety	*Mean*	*Variety*	*Mean*	*Variety*	*Mean*	*Variety*	*Mean*	*Variety*	*Mean*
Octane	7.0	Pinnacle	6.5	Uno	6.4	Dominator	6.2	*LSD @ 5%*	*0.4*
Palmer V	6.7	Allante	6.5	Fiesta 4	6.3	Pizzazz 2 GLR	6.2		
SR 4650	**6.6**	Haven	6.4	Sienna	6.3	Pangea GLR	6.1		
Rio Vista	6.6	Insight	6.4	Brightstart SLT	6.2	Linn	5.2		

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.