

SEED RESEARCH OF OREGON

The germination of ideas

FEATURES

- Superior seedling and mature plant salt tolerance
- Excellent wear tolerance – multiple locations
- Superior drought tolerance and recovery
- Early spring green-up
- Early turf quality
- Very high resistance to Gray Leaf Spot, Brown Patch and high Red Thread resistance
- Excellent for permanent turf and overseeding warm-season grasses

BENEFITS

- Tolerates poor quality irrigation water
- High levels of viable endophyte for insect control
- Fast establishment
- Excellent drought tolerance
- Rapid spreading tiller production for excellent turf recovery

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 4660ST

PERENNIAL RYEGRASS

SR 4660ST Perennial Ryegrass (SRX-4MSH) (*Lolium perenne*) is an attractive, leafy, endophyte- enhanced ryegrass with extremely high levels of salt and drought tolerance. The plants used to develop SR 4660ST were irrigated with salt water during the heat of summer to select the plants that survived salinity and heat. The seed from these plants were also screened for germination with high salt levels to develop a cultivar that survives adversity. It has demonstrated high overall turf performance under various maintenance levels ranging from golf course fairways to residential lawns.

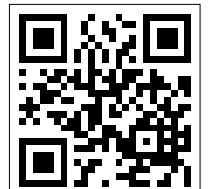


The range of performance of SR 4660ST makes it ideal for all perennial ryegrass uses. SR 4660ST has demonstrated excellent traffic tolerance which makes it superior for use on sports fields, as well as parks. The spreading growth habit

increases the recovery of wear. The high summer performance due to its drought and stress tolerance make it ideal for permanent turf. Yet SR 4660ST has also shown excellent performance as a grass for overseeding bermudagrass with superior winter growth. Excellent germination and growth with saline water enables SR 4660ST to be used in marginal sites.

Applications

The early spring green-up and cool weather growth of SR 4660ST make it ideal for permanent and overseeding turf. 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 ryegrasses or mixed with *Poa trivialis* or fine fescue, SR 4660ST makes an ideal winter overseed on permanent bermudagrass turf.



SR 4660ST
PERENNIAL RYEGRASS

2010 National Perennial Ryegrass Test – Mean Turfgrass Quality Ratings of Named Perennial Ryegrass Cultivars Overseeding Trial at Eufaula Country Club, Alabama – 2010–11 Data

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

Variety	Mean	Rio Vista	6.6	Uno	6.4	Pangea GLR	6.1
Octane	7.0	Pinnacle	6.5	Sienna	6.3	Linn	5.2
Palmer V	6.7	Allante	6.5	Brightstar SLT	6.2	LSD @ 5%	0.4
SR 4600ST	6.6	Haven	6.4	Dominator	6.2		
SR 4650	6.6	Insight	6.4	Pizzazz 2 GLR	6.2		

2010 National Perennial Ryegrass Test – 2011 Data
Mean Turfgrass Quality Ratings of Named Perennial Ryegrass Cultivars
Traffic Study Blacksburg, VA, Equivalent to 60 football games

Turfgrass Quality After Traffic: 1-9; 9=Idea Turf

Variety	Mean	Sideways	5.0	Evolution	4.7	LSD @ 5%	2.3
SR 4660ST	5.7	Diligent	5.0	Palmer V	4.3		
Haven	5.7	SoxFan	5.0	Pinnacle	4.0		
Pizzazz 2 GLR	5.7	Playoff	4.7	Sienna	4.0		
Monsieur	5.3	Dominator	4.7	Linn	2.7		

2010 National Perennial Ryegrass Test - 2011 Data
Percent Green Cover of Named Perennial Ryegrass Cultivars
In Drought Study at Blacksburg, VA

% Green cover Shown

Variety	1 month Irrigation Withheld (7/24)	Recovery 9/6	Variety	1 month Irrigation Withheld (7/24)	Recovery 9/6
Aspire	10.0	81.3	Palmer V	22.3	55.3
Sideways	17.7	80.0	Pangea GLR	19.0	52.0
SR 4660ST	17.0	76.7	Insight	16.7	50.0
SR 4650	28.7	76.3	Rio Vista	4.3	50.0
Thrive	20.3	70.7	Allante	10.0	47.3
Bonneville	20.3	70.7	Sienna	37.0	46.7
Uno	21.0	68.3	Linn	8.3	43.7
Pizzazz 2 GLR	7.0	65.0	Brightstar SLT	21.0	43.3
Dominator	15.0	63.0	Haven	11.7	41.7
Octane	18.0	61.0	Pinnacle	18.7	38.7
Sox Fan	14.0	60.0	LSD @ 5%	33.6	58.7

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.