

SEED RESEARCH OF OREGON

The germination of ideas

FEATURES

- Very high seedling salt tolerance
- Excellent disease resistance across a wide range of climates
- Dark green color, fine textured, dense growth habit
- High levels of viable endophytes for insect control
- Uses: High performance variety ideal for golf, sports field, park and commercial turf

BENEFITS

- High Gray Leaf Spot, Crown Rust and Leaf Spot resistance
- Excellent cool weather performance, early spring green-up and winter recovery
- Good performance where water quality is an issue
- High shoot density for fast wear recovery and uniform color and texture
- Exceptionally fine texture and resists stemminess
- Tolerant of extremely close mowing heights

SEEDING RATES

- Seeds/lbs: 220,000–250,000
- New Turf:
7–9 lbs/1,000 sq ft
300–400 lbs/acre
- Winter Overseed Rate
Golf greens: 30 lbs/1,000 sq ft
Golf roughs and sports fields
250–450 lbs/acre
Golf fairways and tees:
450–700 lbs/acre

ESTABLISHMENT

- Germination: 3–7 days under ideal conditions
- First mowing: 15 days after emergence

SR 4220

PERENNIAL RYEGRASS

SR 4220 perennial ryegrass is a release from Seed Research of Oregon's new Gray Leaf Spot resistance breeding program. This variety also offers endophyte-enhanced insect protection, an ultra fine texture, a deep, rich color, and excellent seedling vigor.

SR 4220 is an excellent choice for high performance turf, whether it's on golf courses, sports fields, commercial lawns or sod farms. This variety ranks very high for seedling establishment in very saline conditions, such as poor quality wells or reclaimed, effluent water.



The original SR 4220 germplasm was collected and evaluated at Rutgers University for Gray Leaf Spot resistance, strong, viable endophyte and exceptional turf quality. SR 4220's ultra fine texture and dark green color make it an invaluable part of any turf. The heat, shade and drought tolerance of SR 4220 is beyond compare. Whether you plant it straight, in a perennial ryegrass blend, or in a mix with fine fescues and bluegrasses, SR 4220's superior disease resistance makes it ideal for seeding permanent turf in many areas.

Application

SR 4220 is perfectly suited for interseeding into existing cool season turf, and also provides a beautiful winter color for dormant warm season grass overseedings. Its texture, color and disease resistance make it an excellent choice in manicured lawns. Highly resistant to heat and drought stress, SR 4220 ryegrass is ideal for use on lower maintenance playgrounds and yards. SR 4220 is available with our "No Poa" tag in certified, 50-gram and 100-gram qualities.

PVP

IMPROVEMENT THRU RESEARCH

SR 4220

PERENNIAL RYEGRASS

Wear Tolerance Perennial Ryegrass Cultivars – Grown Under Traffic Stress at 3 Locations 2002 Data

Wear Tolerance Ratings: 1-9; 9=Ideal Turf

Variety	Mean	Manhattan 4	5.8	Fiesta 3	5.7	Charger II	5.2
Grand Slam	6.1	Blazer IV	5.8	Quest II	5.6	Monterey II	5.1
SR 4220	6.0	Churchill	5.8	Brightstarr II	5.6	Palmer III	5.0
Courage	6.0	SR 4420	5.7	Mach 1	5.5	Affinity	5.0
Kokomo	6.0	Premier II	5.7	Pizzazz	5.5	<i>LSD Value</i>	0.7
SR 4350	5.9	Divine	5.7	Secretariat	5.4		

Gray Leaf Spot Ratings of Perennial Ryegrass Cultivars NTEP Trials – Southern Illinois University, Carbondale IL. 2000 Data

Gray Leaf Spot Ratings: 1-9; 9=No Disease

Variety	Mean	Kokomo	6.0	Fiesta 3	5.0	Panther	3.3
Courage	6.3	Divine	5.7	Manhattan 4	5.0	<i>LSD Value</i>	1.5
SR 4220	6.0	Pizzazz	5.7	Manhattan 3	4.0		
SR 4350	6.0	Mach 1	5.7	Pennant II	4.0		
SR 4500	6.0	Applaud	5.3	Palmer III	3.7		

Gray Leaf Spot Ratings of Perennial Ryegrass Cultivars NTEP Trials – University of Maryland, Colleg Park, Maryland 2002 Data

Gray Leaf Spot Ratings: 1-9; 9=No Disease

Variety	Mean	Fiesta 3	6.3	Applaud	5.7	Catalina	4.3
Cruisier	7.3	Pentium	6.3	Mach 1	5.7	Panther	3.0
SR 4350	6.7	Pinnacle II	6.3	Paragon	5.3	<i>LSD Value</i>	1.6
SR 4220	6.3	SR 4500	6.0	Jet	5.0		
All Star 2	6.3	Premier II	6.0	Promise	4.7		

2000 NTEP National Perennial Ryegrass Trial Genetic Color Ratings 2001 Data

Turfgrass Quality Ratings: 1-9; 9=Dark Green

Variety	Mean	SR 4220	6.9	Paragon	6.6	Charger II	6.1
Radiant	7.4	SR 4420	6.8	Affirmed	6.3	Linn	4.3
Hawkeye	7.1	Pennant II	6.7	Racer	6.2	<i>LSD Value</i>	0.2

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.