

Features

- Excellent choice for golf courses and sports fields
- Very dark green
- Dwarf growth, tolerates very low mowing heights
- Active growth in cold weather, for southern overseeding
- Excellent seedling salt tolerance
- Good heat and drought

Benefits

- Excellent Gray Leaf Spot, Dollar Spot and Crown Rust resistance
- Extremely dark green color
- Quick emergence and fast seedling establishment
- High turf quality with a fine leaf texture and reduced stemminess
- Early Spring green-up
- Very high turf density ratings all year
- High resistance to billbugs and other insect pests due to high endophyte levels

Seeding Rates

- New Turf: 4-5 Kgs/100m² or 400-500 Kgs/Ha.
- Overseed Rate: 3-4 Kgs/100m² or 300-400 Kgs/Ha for golf fairways and sports fields

SR 4420 Perennial Ryegrass was specifically developed for high turf quality, excellent heat tolerance and its resistance to Gray Leaf Spot, Snow Mold, Brown Patch and Crown Rust. **SR 4420** is an excellent choice for golf courses and sports fields because of its dark green color, good seedling vigor, fine leaf texture, extremely high fall density and superior traffic stress tolerance. **SR 4420** has shown high levels of tolerance to salt in the seedling germination stage, a critical trait for turf managers using reclaimed water.



Rutgers University selected the initial clones based primarily on resistance to Gray Leaf Spot and heat tolerance. Following rigorous testing at the Rutgers Turfgrass Breeding program, seed from 25 plants with dark green color, high shoot density and high seed yield was sent for further trials at Seed Research. Dr. Leah Brilman, Research Director for Seed Research of Oregon, noted that these progeny had two distinct heading and anthesis periods. The progeny from six plants with early heading were separated from the remainder of the population and designated SRX 4820, now known as **SR 4420**. This variety exhibits an earlier transition when used in Southern areas for Winter overseeding of dormant bermudas.

Application

SR 4420's dark green color makes it ideal for a variety of professional turf applications. **SR 4420** blends well with other perennial ryegrasses for golf course fairways, sports fields, sod production and home lawns. It also mixes well with Kentucky bluegrasses and fine fescues. In blends with other perennial ryegrasses or mixed with Poa trivialis or fine fescues, the dark green color and high turf quality of **SR 4420** make it ideal for Winter overseeding of permanent bermudagrass turf in warm climate zones.

Establishment

Emergence: 3-7 days under ideal conditions

First Mowing: 14 days after emergence



SR 4420 Perennial Ryegrass

1999 NTEP National Perennial Ryegrass Trial Red Thread Ratings – 2001 Data

Disease Rating: 1-9; 9=No Disease

| Variety | Mean | Radiant | 5.7 | Buccaneer | 5.0 | Affinity | 4.3 |
|----------------|------------|----------------|------------|------------|-----|------------------|-----|
| Applaud | 6.3 | SR 4220 | 5.3 | Palmer III | 5.0 | Extreme | 4.3 |
| SR 4420 | 6.0 | Cabo | 5.3 | Charger II | 4.7 | Premier II | 4.0 |
| Hawkeye | 5.7 | Pizzazz | 5.3 | Panther | 4.7 | Paradigm | 3.7 |
| Kokomo | 5.7 | Manhattan 4 | 5.3 | Paragon | 4.7 | <i>LSD Value</i> | 1.2 |

1999 NTEP National Perennial Ryegrass Trial – High Maintenance Fairways Quality Ratings at Ten Locations – 2000-03 Data

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

| Variety | Mean | Pinnacle II | 5.9 | Fiesta 3 | 5.8 | Charger II | 5.5 |
|----------------|------------|----------------|-----|---------------|-----|------------------|-----|
| Mach 1 | 6.1 | Brightstar SLT | 5.8 | Manhattan 4 | 5.8 | Affinity | 5.4 |
| SR 4420 | 6.0 | Premier II | 5.8 | Palmer III | 5.7 | Linn | 3.3 |
| SR 4220 | 5.9 | Paragon | 5.8 | Brightstar II | 5.6 | <i>LSD Value</i> | 0.3 |
| All Star 2 | 5.9 | Divine | 5.8 | Monterey II | 5.5 | | |

2000 Rutgers University Perennial Ryegrass Trial Gray Leaf Spot Ratings – 2000 Data

Disease ratings 1-9; 9=Least Disease

| Variety | Ave. | Sept. | Oct. | High Life LF | 4.05 | 4.7 | 4.3 | Greenland | 3.50 | 3.3 | 3.7 |
|----------------|-------------|------------|------------|--------------|------|-----|-----|------------|------|-----|-----|
| SR 4420 | 5.30 | 5.3 | 5.3 | Vibrant | 4.15 | 4.3 | 4.0 | Fiesta II | 3.50 | 3.3 | 3.7 |
| Ecologic | 5.15 | 5.3 | 5.0 | Lowgrow II | 4.00 | 3.7 | 4.3 | Headstart | 2.70 | 2.7 | 2.7 |
| Jet | 5.00 | 4.7 | 5.3 | Dancer | 3.85 | 3.7 | 4.0 | Exacta | 2.00 | 2.0 | 2.0 |
| SR 4220 | 4.65 | 5.0 | 4.3 | Bayou | 3.85 | 3.7 | 4.0 | Platinum | 2.00 | 2.0 | 2.0 |
| Barefoot | 4.65 | 5.0 | 4.3 | Racer | 3.70 | 3.7 | 3.7 | Churchill | 2.00 | 2.0 | 2.0 |
| SR 4400 | 4.50 | 4.3 | 4.7 | Fiesta III | 3.70 | 3.7 | 3.7 | <i>LSD</i> | 1.25 | 1.4 | 1.1 |

1999 NTEP National Perennial ryegrass Trial – Sports Wear Study Quality and Density – Puyallup, WA – 2000-2003 Data

Ratings 1-9; 9=Best

| Variety | After traffic in July | | After traffic in November | | Variety | After traffic in July | | After traffic in November | |
|----------------|--------------------------|--------------------|------------------------------|--------------------|------------|--------------------------|--------------------|------------------------------|--------------------|
| | Quality 6 weeks | Density 6 weeks | Density 4 weeks | Density 4 weeks | | Quality 6 weeks | Density 6 weeks | Density 4 weeks | Density 4 weeks |
| SR 4420 | 6.0 | 9.0 | 6.0 | | Pizzazz | 5.3 | 8.0 | | 5.3 |
| Manhattan 4 | 6.0 | 9.0 | 4.7 | | Palmer III | 5.3 | 8.3 | | 5.0 |
| Brightstar II | 5.7 | 9.0 | 5.7 | | Mach 1 | 5.0 | 7.3 | | 5.0 |
| Grand Slam | 5.7 | 8.7 | 5.3 | | Sunkissed | 5.0 | 8.0 | | 6.3 |
| Fiesta 3 | 5.7 | 8.7 | 5.0 | | Linn | 3.3 | 6.3 | | 3.3 |
| Brightstar SLT | 5.7 | 9.0 | 5.0 | | <i>LSD</i> | 1.6 | 2.4 | | 2.2 |

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.