



**SR 4420** Perennial Ryegrass is specially designed for high turf quality and its resistance to grey 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.

### **HISTORY**

**SR 4420** was developed at Rutgers University in the fall of 1997 based primarily on its resistance to grey leaf spot and its excellent 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 in the fall of 1998. In the spring of 1999, it was 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**, which represents the early transitioning portion of the population.

### **CHARACTERISTICS**

- Excellent gray leaf spot, dollar spot and crown rust
- Extremely dark green color; Quick emergence
- High turf quality with a fine leaf texture and reduced stemminess
- Long term persistence excellent cold and hot weather performance
- Excellent winter color and winter density when overseeded into dormant bermudagrass
- Early spring green-up in northern climates. Very high spring, summer, fall and winter density
- High billbug resistance due to high endophyte levels

#### APPLICATION

**SR 4420's** dark green color makes it ideal for a variety of turf applications. Blend **SR 4420** with other perennial ryegrasses for golf course fairways, sports fields, sod production and home lawns. It also can be mixed with Kentucky bluegrasses and fine fescues. In blends with other perennial ryegrasses or mixed with Poa Trivialis, its dark green color and high turf quality make it ideal for overseeding permanent turf.

### SEEDING RATE

- New turf: 7-9 pounds per 1,000 square feet or 300-400 pounds per acre
- Overseeding rate: 30 pounds per 1,000 square feet for golf greens

250-450 pounds per acre for roughs 600-700 pounds per acre on fairways

• Seeds per pound: approximately 250,000

### **GERMINATION**

• Emergence in 3-7 days under proper conditions. First mowing 2 weeks after emergence.





### 2001 NTEP NATIONAL PERENNIAL RYEGRASS TRIAL\*

# Mean Turfgrass Ratings Using Schedule "A" (Golf Fairways)

Turfgrass Quality 1-9; 9=ideal											
<u>VARIETY</u>											
Amazing		6.0	Affirmed	5.6	5 (	Charger II		5.3			
SR 4420											
SR 4220		5.5	5 ]	Linn							
<b>SR 4500</b>											
Catalina II		5 (	<i>CV</i> ***								
2000 RUT	ΓGEI	RS U	JNIVERSITY PEREN Grey Leaf Spot Ra		RY	EGRASS TRIAL					
2000 RUT	rgei	RS U		tings		EGRASS TRIAL					
	ΓGEI Sept. (		Grey Leaf Spot Ra Disease ratings 1-9; 9=leas	<b>atings</b> st disease	;		3.3	3.7			
<u>VARIETY</u> Ave.	Sept. (	Oct.	Grey Leaf Spot Ra Disease ratings 1-9; 9=leas	ntings st disease 4.7 4	.3						
<u>VARIETY</u> Ave. SR 4420 5.30	Sept. ( 5.3	Oct. 5.3	Grey Leaf Spot Ra  Disease ratings 1-9; 9=leas  High Life LF 4.05	atings st disease 4.7 4 4.3 4	.3	Greenland		3.7			

# 2000-2001 NTEP NATIONAL PERENNIAL RYEGRASS TRIAL\*

Bayou . . . . . . . . . . . . 3.85 3.7

# **Summer Density Ratings**

Turfgrass Quality 1-9; 9=maximum density

<u>VARIETY</u>	<b>MEAN</b>	Elflin	Headstart
SR 4500	7.3	Radiant	Racer
SR 4420	7.0	Jet6.8	Buccaneer
SR 4220	6.9	Exacta	Linn
Hawkeye	6.9	Premier	LSD**
Affirmed	6.8	Fiesta 3	<i>CV</i> ***

## 2000-2001 NTEP NATIONAL PERENNIAL RYEGRASS TRIAL\*

# **Red Thread Ratings**

Disease ratings 1-9; 9=least disease

<u>VARIETY</u>	<b>MEAN</b>	Jet	LSI
Applaud	6.3	Pennant II	CV
Gator 3	6.3	Pizzazz5.3	*—F
SR 4420	6.0	Manhattan 4	<u>www</u>
Hawkeye	5.7	Buccaneer	truly
SR 4220	5.3	Palmer III5.0	high for tl
Cabo	5.3	Panther	***_
Fiesta 3	5.3	Paradigm	cates

SR 4220 ............4.65

SR 4400 .....4.50

5.0 4.3

4.3 4.7

4.3

5.0

LSD**										1.2
$CV^{***}$										.16.0

2.0

2.0

1.4

2.0

2.0

1.1

4.0

3.7

3.7

3.7

3.7

E—Full data set available on the NTEP web site at <a href="https://www.ntep.org">www.ntep.org</a>.

\*\*—To determine if ratings between two varieties are truly different, subtract the lower rating from the higher one. If the result is greater than the LSD value for that column, then the difference is real.

\*\*\*—CV is the coefficient of variation, which indicates the percent variation of the mean in each column.