

SEED RESEARCH OF OREGON

The germination of ideas

FEATURES

- Highest Gray Leaf Spot resistance
- Very high summer stress tolerance
- Early development of aggressively spreading stolons, beneficial for permanent turf use
- Very dense turf, fine leaf texture and vibrant dark green color
- High drought tolerance, with good persistence as permanent turf
- Mature plant salt tolerance
- Ideal for use on commercial and home lawns, parks, schools, sports fields and golf course fairways, tees and roughs

BENEFITS

- Reduced fungicide requirements from strong disease resistance
- Fast establishment
- High levels of viable endophyte for insect control and stress tolerance
- Increased wear tolerance and persistence
- Excellent drought tolerance
- Improved summer turf quality

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

ESTABLISHMENT

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

SIDEWAYS

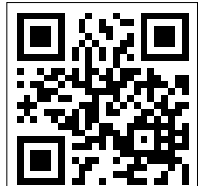
PERENNIAL RYEGRASS

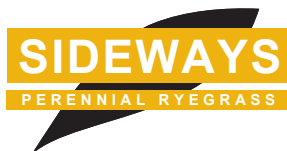
Sideways Perennial Ryegrass (PSRX-S84) (*Lolium perenne*) develops aggressive, strong spreading stolons at an early stage, which contributes improved wear tolerance and recovery, along with increased density when used for permanent turf. It was developed by Dr. Leah Brillman, working with Rutgers to increase persistence and summer stress tolerance. Sideways perennial ryegrass is a dwarf variety with dense, fine-textured leaves and excellent color for increased turf quality and appearance. This ryegrass variety also exhibits good resistance to Red Thread and Brown Patch and very high levels of Gray Leaf Spot resistance. Sideways delivers high turf performance when used for both permanent turf, or for overseeding of winter-dormant bermudagrass. It can be managed under a wide range of maintenance levels, ranging from residential turf to high end sports or golf courses. The high endophyte content in Sideways makes it resistant to many insects.



Sideways is the perfect choice for all perennial ryegrass uses. It delivers excellent traffic tolerance, making it superior for use on sports fields, as well as in other high-use situations such as parks and schools. The increased drought and stress tolerance gives Sideways very high summer performance and persistence in permanent turf zones. When used for winter overseeding of dormant bermudagrass, Sideways shows excellent performance every month when seeded with other ryegrasses, fine fescue or *Poa trivialis* as winter turf, with fast fall establishment and good spring transition. As established, mature turf, Sideways consistently shows good growth under saline water irrigation and under drought conditions, making this variety an ideal component for the turf manager with irrigation water issues.

Sideways blends well with other perennial ryegrasses for golf course fairways, sports fields, sod production and home lawns in the permanent cool season turf zones. It also mixes well with Kentucky bluegrass and fine fescues. The cool weather active growth of Sideways makes this a superior variety to compete with *Poa annua* during cool weather, under both permanent turf or winter overseeding situations.





2010 National Perennial Ryegrass Test – Mean Overall and Spring Turfgrass Quality Winter Overseed on Dormant Bermudagrass at Tucson Country Club – Tucson, AZ (2010-2011 Data)

Turfgrass Quality Rating: 1-9; 9=Best

Variety	Mean Quality	3/5/2011 Quality	Variety	Mean Quality	3/5/2011 Quality	Variety	Mean Quality	3/5/2011 Quality
Sideways	7.1	8.7	Pinnacle	5.9	7.0	Palmer V	5.4	6.0
Octane	7.3	8.0	Uno	6.1	6.7	Brightstar SLT	5.9	5.7
Sienna	6.8	7.3	Allante	5.9	6.7	Dominator	5.6	5.7
Rio Vista	6.7	7.0	Pangea GLR	6.2	6.3	Linn	4.1	4.0
Haven	6.8	7.0	Pizzazz 2 GLR	6.1	6.3			
Insight	6.6	7.0	Rinovo	6.2	6.0	<i>LSD@5%</i>	1.7	3.4
Sox Fan	6.0	7.0	Bonneville	5.7	6.0			

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

Turfgrass Quality 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	7.1	7.7	Fiesta 4	5.0	4.7	Brightstar 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	<i>LSD@5%</i>	1.0	1.1

2010 National Perennial Ryegrass Test – Mean Turfgrass Quality Ratings of Named Perennial Ryegrass Cultivars Grown at Two Locations for AMMI Group 4 (2011 Data)

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

Variety	Mean	Variety	Mean	Variety	Mean	Variety	Mean
Sideways	6.4	Pizzazz 2 GLR	6.3	Haven	6.2	Bonneville	6.2
SR 4650	6.4	Palmer V	6.3	Octane	6.2	Pinnacle	5.9
Rio Vista	6.4	Fiesta 4	6.2	Dominator	6.2	Linn	4.7
Pangea GLR	6.3	Sienna	6.2	Insight	6.2	<i>LSD @ 5%</i>	0.8

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

% 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 9/6
Sideways	17.7	80.0	Sox Fan	14.0	60.0	Linn	8.3	43.7
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	<i>LSD @5%</i>	33.6	58.7
Octane	18.0	61.0	Sienna	37.0	46.7			

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.