

 **BARENBRUG®**



**RPR**  <sup>®</sup>  
**REGENERATING**  
*Perennial Ryegrass*

## A New Kind of Grass

With recognition as a new turfgrass distinctly different than traditional perennial ryegrass, RPR is now the first and only true turf-quality stoloniferous ryegrass available.

[Learn More](#)

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## Determinate Stolons

In 2009, Barenbrug's innovative research and development team introduced a unique perennial ryegrass subspecies to the turf industry, RPR. Receiving its utility patent in 2015, RPR can tolerate extreme heavy traffic and displays outstanding recuperative abilities. It provides excellent turf quality and appearance in the harshest of conditions, get off on the right foot with early establishment, and continues to thrive through summers. RPR is the ideal selection for all applications receiving heavy, destructive traffic.



Determinate-stolons arise from an auxiliary bud near the base of the mother plant and then grow horizontally 6-8" at, or just below, the soil surface, creating identical new plants as they grow. When RPR turf is damaged from an extreme traffic event or worn from persistent traffic, its determinate-stolons will grow horizontally into the worn areas, develop roots and rapidly repair the damaged area.

Protected by patent #8,927,804, RPR's patent includes 50 statements which cover various aspects including determinate-stolon counts, crown perimeter and a determinate-stolon index. Other companies have claimed similar levels of performance from spreading perennial ryegrasses; these other products, however, do not produce determinate-stolons and are not capable of regeneration after sever traffic. Barenbrug extensively tests all of its varieties and RPR is no exception. It has exceeded our most stringent quality requirements for traffic tolerance, speedy recovery, drought tolerance, and turf quality.

***"Repeated seedings over the entire playing surface with RPR plus Yellow Jacket coating produced a steady improvement in overall turf quality. RPR has literally been a life saver!"***

*Don Moody, Grounds Supervisor  
SUNY Cortland, Cortland, NY*





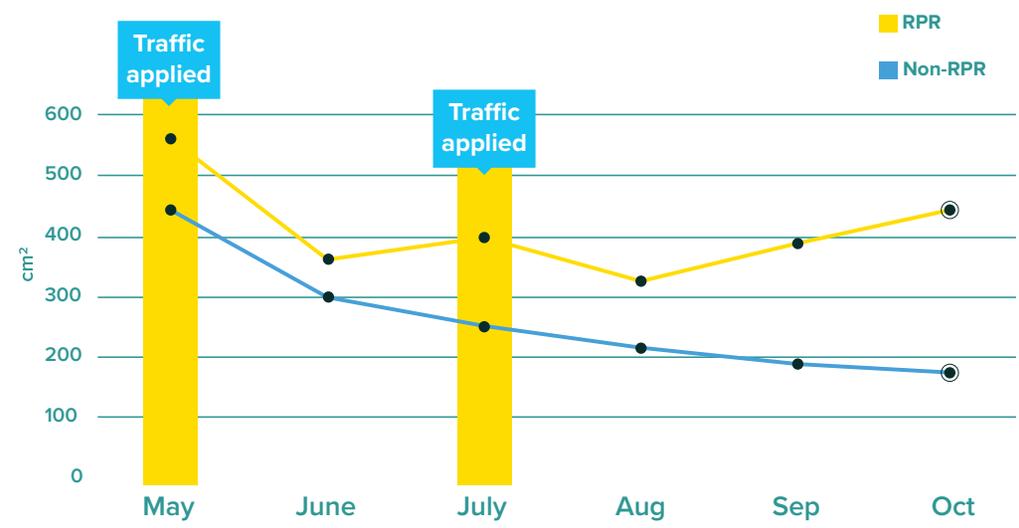
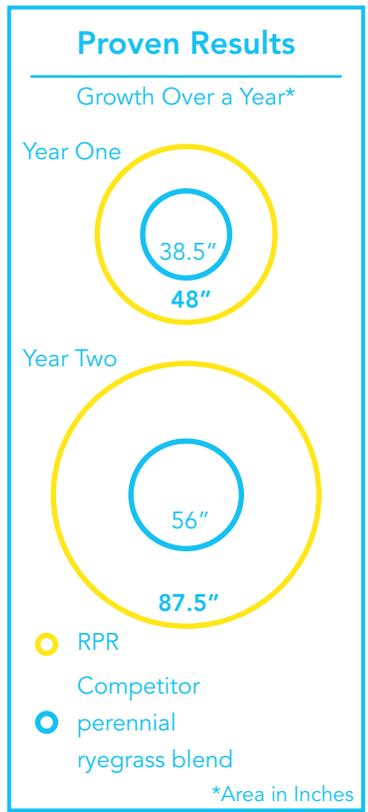
# RPR®

## Years of Research

RPR first drew the attention of turfgrass plant breeders at the Barenbrug research site in Virginia where new grasses are developed for traffic, drought and cold tolerance. Researchers noticed that RPR was thriving under very difficult conditions, producing determinate-stolons and recovering in areas of highest traffic stress.

With the best plants selected, continued development of RPR was performed at Barenbrug's turf research center in Oregon. Utilizing the technique of space plants and frequent mowing, Barenbrug's turfgrass breeders studied the lateral growth of RPR comparing it to a typical perennial ryegrass blend.

**Traffic Recovery**  
After traffic was applied, regeneration of the plants was evaluated and it was clear RPR greatly outperforms the non-RPR variety.

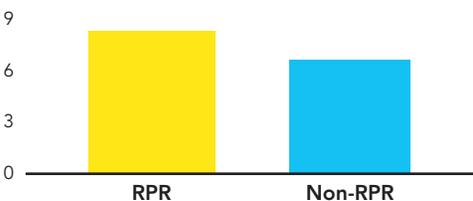


## Trials

In recent years, RPR performance has been evaluated by turf researchers at several different universities where it was analyzed for fundamental turf characteristics including establishment under traffic, traffic tolerance and recovery. The results: RPR is superior in traffic tolerance trials when compared to traditional perennial ryegrass and maintains high turf quality under these conditions of heavy traffic.

At The Ohio State University, research plots were rigorously subjected to damage by a traffic simulator. In the graph below, data supports RPR's ability to maintain quality and integrity despite three days of traffic applied.

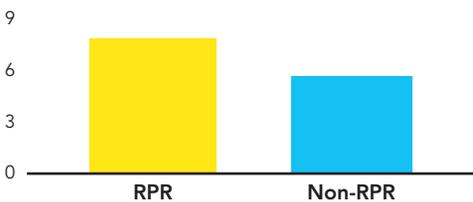
### Intense Traffic Recovery



Ohio State University

RPR was also tested for traffic tolerance at the Southeastern Turfgrass Research Center in Lexington, Kentucky. As in The Ohio State University study, the results showed RPR to be superior to traditional perennial ryegrass when evaluating traffic tolerance.

### Intense Wear Tolerance

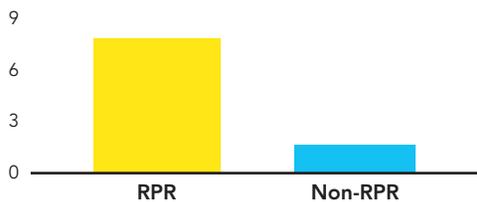


Southeastern Turfgrass Research Center

In separate studies conducted by Iowa State in 2010, the establishment of RPR was evaluated under various levels of traffic and compared with mixtures containing both Kentucky bluegrass and SOS Turf Annual Ryegrass. Conducted in both the spring and fall, and using a traffic simulator, the trial area was subjected to various levels of traffic intensity. For the spring study, traffic started six days after planting in mid-April. The Kentucky bluegrass never established and the SOS turf annual transitioned as early summer temps spiked. Only the RPR and mixtures containing it thrived and maintained cover during the trial duration through August.

In the Iowa State fall study, an early September planting was again subjected to various intensities of traffic simulation 13 days after planting. Similar to the spring, the Kentucky bluegrass was again the poorest performer, while the RPR and SOS, alone or in mixtures, topped the trial with superior ground cover.

### Summer Performance



Iowa State University

## RPR Varieties

### Barbeta

Barbeta regenerating perennial ryegrass exhibits extreme traffic tolerance with the ability to recover following significant wear events. This fine textured grass has a medium-green appearance, and is endophyte enhanced for increased resistance to external stresses.

### Barlennium

Barlennium turf-type perennial ryegrass exhibits rapid germination and exceptionally fast establishment. Its fine leaf texture, very dark green color and excellent mowing quality make this dense turf widely adaptable for multiple uses.



Bargamma



Barbeta



Traditional\*

### Leaf Color Chart



## Products

### Turf Star® RPR®

A mixture of RPR varieties and elite perennial ryegrass, Turf Star RPR is the solution for all golf, sports, and recreational facilities where elite perennial ryegrass quality is required.

Turf Star RPR's extreme wear tolerance and ability to recover thin and damaged turf is unique to the industry. Extremely fast germinating and quick to establish, Turf Star RPR can also be over-seeded into traditional cool season turf lawns, such as Kentucky bluegrass, fine fescue, and traditional perennial ryegrass.

[Learn More](#)

Characteristics	
Color	● ● ● ● ●
Turf Quality	● ● ● ● ●
Wear Tolerance	● ● ● ● ●
Aggressiveness	● ● ● ● ●
Mowing Frequency	● ● ● ● ●
Close Mowing Tolerance	● ● ● ● ●





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