



‘Sunrise’ A New High-Performance Rye

by Susan Samudio, MSc.

A brand new perennial ryegrass is making its market debut this spring: **Sunrise** perennial ryegrass rises to the challenge!

Several years in the making, **Sunrise** features speedy spring greenup, a dark green color with fine leaf texture and high density to provide a superior year-round turf in cool-season regions.



Sunrise also performs well when used to overseed dormant bermudagrass. **Sunrise** was grilled in the University of Arizona 2010-

2011 fairway overseeding trial under the experimental code, JR-521. **Sunrise** ranked among the best on: establishment, color, density, texture, quality, and transition. More details about that trial appear on Page 2.

Sunrise has good salt tolerance and is one of the few perennial ryegrass varieties that can tolerate irrigation with effluent water at salt levels up to 7,500 ppm for periods of time. In a salinity study at the University of Rhode Island, **Sunrise** maintained 98% living ground cover when subjected to 10,000 ppm (or 16 dS/m), which is equal to about one-third seawater strength salinity. Living ground cover decreased to 63% at 12,500 ppm (or 20 dS/m, or about half-strength seawater).

Sunrise was developed in the Northwest where winters can be harsh. **Sunrise** was selected for a greenup trait that survives cold winters and comes back reliably in the spring with good greenup, providing a dense turf. **Sun-**

rise is adaptable to management regimes and mowing heights from high to low.

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An attractive backyard lawn of ‘Sunrise’ perennial ryegrass.



Introducing ‘V8’ Creeping Bentgrass

by Doug Brede, Ph.D.

Jacklin Seed is proud to introduce **V8** creeping bentgrass to the golf market. After a series of stellar scores in the 2008–2013 putting green NTEP, the decision was made to add another top bentgrass to our elite arsenal of golf grasses which includes **T-1** and **Alpha**, as well as the classic products, **L-93**, **Putter**, **Southshore**, and the **PLS** 3-way blend.



V8 on a practice putting green mowed at .100 inch on an elite golf course in Palm Desert, CA.

V8 brings some exceptional strengths to our bentgrass product line in addition to high turfgrass quality. **V8** has shown exceptional resistance to dollar spot disease – the most expensive fungal disease to treat for on golf courses worldwide. **V8** was bred and optimized for modern putting green mowing heights of .100 to .125 inch. It also does well under a wider range of mowing heights, as evidenced by the NTEP results. **V8** is a medium dark green variety with extremely fine leaves and high shoot density. Some top NTEP accolades for **V8** include:

- Tied #1 in overall putting green uniformity
- #2 in fine leaf texture at the University of Arkansas, fourth overall
- Tied #3 for best *Poa annua* resistance
- Tied #4 in take-all patch disease resistance

And **V8** ranked among the top 10 entries for:

- Brown patch resistance under traffic stress
- Least % snow mold
- Highest quality ratings under low input culture
- Wear tolerance
- Overall quality under traffic stress *Continued p. 2*

Sunrise, continued

Sunrise was selected and enhanced to contain an endophyte. Endophytes are living fungi that are inserted by the breeder to improve insect resistance. They form a natural symbiosis with the ryegrass plant, and give off insect-killing alkaloids in exchange for their home inside the grass blade. Endophytes transfer themselves from one seed generation to the next. Breeder seedlots of **Sunrise** contain over 90% endophyte to provide resistance to many surface feeding insects. In test trials, **Sunrise** has shown performance under disease pressure from brown patch, pink snow mold, and dollar spot. **Sunrise** is a good choice when used alone or matched with Jacklin bluegrasses or fescues in mixtures for permanent turf in temperate and transition zone climates.

Arizona study: The aforementioned winter overseeding trial at the University of Arizona, conducted by Dr. David Kopec, had 15 entries overseeded onto a Tifway bermudagrass stand. The trial was maintained at 5/8 inch with 4 replications. Entries included 1 fine fescue, 1 annual ryegrass, 2 tetraploid ryegrasses, and the remaining entries were perennial ryegrasses and blends. Establishment was rated 6 times between Oct. 29th and Jan. 26th. During each establishment rating **Sunrise** was among the top entries. On the Jan. 26th rating **Sunrise** had 97% living ground cover.

Turfgrass quality was rated 10 times between early November and mid-June. A quality index was used in the trial analysis based on the number of times an entry rated 6 or above plus the number of times an entry rated a 7 or above. The maximum possible quality index was 16 (10 + 6). **Sunrise's** quality index was a 14 (10 + 4).

Several aesthetic traits were evaluated including color, density, and texture. Color ratings were taken 10 times during the length of the trial and **Sunrise** was the darkest green variety on 1 rating period and comparable to the darkest 3 additional times.

Density was rated 10 times. **Sunrise** was the densest variety during 3 of these ratings and comparable to the densest entry 5 additional times. Texture was rated 5 times during the trial and **Sunrise** was among the finest leaved entries in the trial.

Transition back to bermudagrass was rated 3 times from the end of April until mid-June when the trial was terminated. **Sunrise's** transition was comparable to most of the perennial ryegrasses in the trial.

Commercial quantities of **Sunrise** perennial ryegrass are available today. But don't delay. We are expecting to deplete existing supplies before 2013 harvest. So get your orders in early for this top new ryegrass.



V8, continued

2008 NTEP Bentgrass Green Test

By Andrew Hollman, Research Scientist
Dr. Brian Horgan, Associate Professor
Dept. of Horticultural Science, University of Minnesota

NTEP Putting Green Stop at Field Day

Plots are maintained at 0.110 inches using a Toro Greensmaster 3150-Q. Plots are fertilized at 0.5 lbs. of N / 1000 ft² / month of the growing season. Plots are topdressed weekly using a Turfco Widespin 1530 with a very light rate so that sand is not picked up during mowing. Plots are rolled daily using a Smithco Tournament Ultra Roller. Irrigation is applied as needed to maintain acceptable turf quality. Insecticide applications have been made for control of cutworms.



Table 1. Ratings for 2010 ratings for NTEP bentgrass putting green test.

	Cultivar	Species ¹	Turf Quality ²										SGU ³		Color ⁴	
			2010 Ave.	April 2010	May 2010	June 2010	July 2010	August 2010	April 2010	July 2010	April 2010	July 2010				
1	V8	CRB	7.4 a	7 a	7 abc	7 a	8.3 a	7.7 a	6.3 b-f	7 b						
2	PST-OJO	CRB	7.1 a	6.7 ab	7 abc	7.3 a	7 abc	7.7 a	6 c-f	4 gh						
3	T-1	CRB	7.1 a	6 a-d	7.7 a	7 a	7.3 ab	7.3 ab	7 a-d	9 a						
4	A08-TDN2	CRB	6.9 ab	6.3 abc	7 abc	6.3 ab	7.3 ab	7.7 a	6.7 a-e	6 b-e						
5	MVS-AP-101	CRB	6.9 ab	6.3 abc	7 abc	7.3 a	6.7 bc	7 abc	7.7 ab	6 b-e						
6	Declaration	CRB	6.9 ab	6.7 ab	7.3 ab	7 a	6.3 bcd	7 abc	8 a	5.7 b-f						
7	SRP-1GMC	CRB	6.8 ab	6.3 abc	6.7 a-d	7 a	7 abc	7 abc	6 c-f	5.7 b-f						
8	SRP-1BLTR3	CRB	6.7 abc	6.7 ab	6.3 b-e	5.7 bc	7 abc	7.7 a	7.3 abc	4.3 fgh						
9	LTP-FEC	CRB	6.5 abc	5.7 b-e	6.3 b-e	5.7 bc	6.7 bc	7 abc	6.3 b-f	5 d-g						
10	Authority	CRB	5.9 bcd	5.3 c-f	6 c-f	5.7 bc	6.3 bcd	6.3 a-d	6.3 b-f	5.3 c-g						
11	AFM	CRB	5.7 cd	5.3 c-f	6 c-f	5.7 bc	6 bcd	5.7 b-e	6 c-f	4.3 fgh						
12	Pin-up	CRB	5.7 cd	4.7 e-h	5.7 def	5.7 bc	5.7 cde	6.7 a-d	5.7 def	6.3 bcd						
13	Alpha	CRB	5.7 cd	5.7 b-e	6.7 a-d	5.3 bc	5 def	5.7 b-e	6.3 b-f	6.7 bc						
14	Penn A-1	CRB	5.4 d	5 d-g	6 c-f	5 cd	5.7 cde	5.3 c-f	6 c-f	5.7 b-f						
15	Penn A-2	CRB	5.0 d	4.3 fgh	5.3 efg	5 cd	5 def	5.3 c-f	6.3 b-f	6.3 bcd						
16	L-93	CRB	4.9 d	5 d-g	5 fgh	4.7 cd	5 def	5 d-g	6.7 a-e	6.7 bc						
17	Penncross	CRB	3.9 e	4 ghi	4.3 ghi	4 de	3.7 fg	3.3 gh	5 f	6.7 bc						
18	Legendary	VEL	3.6 ef	3 ij	3.3 i	3.3 ef	4.3 ef	4 e-h	5 f	3 h						
19	Villa	VEL	3.5 ef	3.7 hij	3.7 i	2.7 fg	3.7 fg	3.7 fgh	5 f	3 h						
20	SR 7200	VEL	2.7 f	2.7 j	4 hi	2 g	2.3 g	2.3 h	5.3 ef	4.6 efg						
LSD (0.05)				1.19	1.19	1.08	1.48	1.74	1.34	1.42						

¹ Species abbreviations: CRB = creeping bentgrass, VEL = velvet bentgrass

Report on the NTEP putting green trial from the University of Minnesota by researchers Andrew Hollman and Brian Horgan, showing V8 creeping bentgrass in the solid lead for #1. V8 also placed #1 in trials at Purdue (Indiana), University of Kentucky, Virginia Tech, and the University of Arkansas. Certified V8 seed goes on sale for the first time this spring.

But perhaps the best University endorsement for **V8** came from Penn State University, the home of Penn-cross bentgrass and its numerous variety successors.

“At the Penn State Field day (September 5, 2012) Dr. Peter Landschoot praised **V8** as the best bentgrass by far in the NTEP putting trials,” says regional sales rep, Charlie Pisano. NTEP data confirmed that **V8** was indeed one of the best varieties in Penn State's trial, over the life of the study. 🏌️



V8 putting green at Chenequa country club in Wisconsin, 60 days after seeding.