



Introducing



PERENNIAL RYEGRASS



CREEPING - **S**PREADING - **I**NNOVATIVE





SERIOUSLY!?

A perennial ryegrass that actually is creeping -- not just says it is?

**Athletic Fields, Sod Farms,
Golf Courses, Lawns**

**TAKE A CLOSER LOOK
AT CSI RYE**





- New Innovation for the permanent turf perennial ryegrass market
- Unsurpassed turf density
- Extremely fine textured
- Spreads via reproductive tillers
- Able to repair damaged turf

New Genetics Provide Better Turf





- Utility patent on its unique growth habit protects any varietal designated as “spreading”
- Genetics that continuously spread via reproductive tillers
- Tillers produce new turf plants at each node genetically identical to the mother plant

Patented Perennial Ryegrass





Greater turf density than any other material tested over a two year period

- All material seeded at 3 lbs/1000 sq.ft. and mowed at 1.25"
- Each received balanced N-P-K fertilizer at a rate 1-2 lbs of soluble N/1000 sq.ft. per application early fall, late fall and a late spring application
- Soil acidity measured annually between 5.4 pH and 5.7 pH

Unparalleled Turf Density





Variety	2007	2008	
Jacklin CSI 1	1105	1159	
Jacklin CSI 2	1122	1178	
Competitor A	491	541	
Competitor B	543	592	
Competitor C	696	676	
Competitor D	538	576	

Live Tillers per 100 cm²

Tiller Density of four perennial ryegrass turf varieties compared to others in July from turf plots that were three years old. Tiller counts were averaged from 3 replications per variety.

Tiller Density Table for Turf Density





RYE



Extremely Fine-Textured





Exhibits increased density translating to much greater sod strength than standard turf type perennial ryegrasses

The next slide shows CSI Rye planted in September. Harvested with a small walk-behind sod cutter the following April.

Grown without sod net and mowed at 1.25" during the growing period.

**Increased density
for greater sod-strength**





RYE

Trial in Oregon – winters are mild and allowed growth.



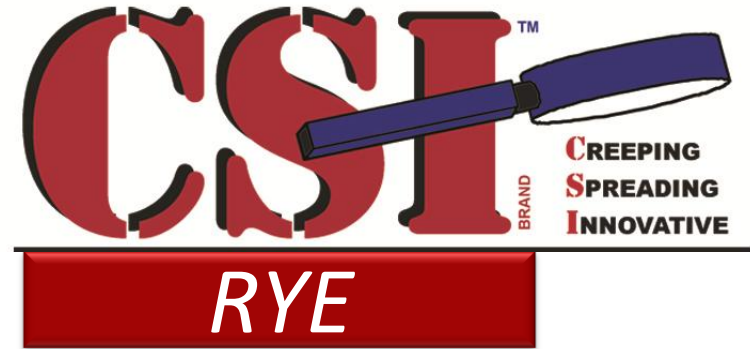
Harvested as Sod Without Net



We recommend 3 lbs/1000 ft.²

These trials were seeded at HALF that rate.





- Creeping characteristics via reproductive tillers that actually grow parallel to and with ground contact instead of upright
- CSI Rye tillers develop multiple internodes containing cells that divide and begin growing both shoots and roots (Normal varieties of perennial ryegrass do not)
- CSI Rye develops nodes genetically identical to plants from the original plant

“Creeping” Characteristics



RYE



Sod Washed to Show Tillers





RYE



**“Creeping”
Characteristics**





Normal PRG

Never –
Won't repair

CSI RYE

Spreads after
vernalization about
7 months after
seeding!

Recuperative PRG

Up to 2 years after
seeding if ever

Creeping Potential





- Components have gone through rigorous turf disease screening during development
- All CSI Rye varieties have exhibited the highest disease resistance ratings of any perennial ryegrass varieties tested to date at a research and development station in Oregon

Strong Disease Resistance Profile



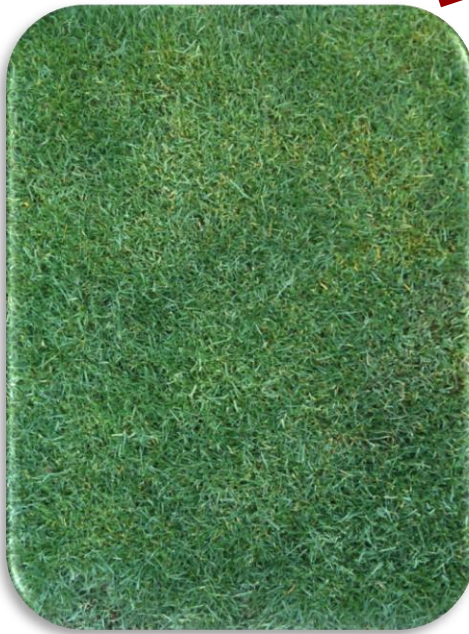


RYE



Normal PRG

Recuperative PRG



CSI Rye is Extremely Fine Textured – Great Color





**Normal PRG –
about 5”**



**CSI Rye –
about 3”**



**Recuperative PRG –
about 6”**

Seeded first week of September. Last mowing just before November.
Photos taken the following March. Less Top Growth = Less Mowing!

Top Growth





INVESTIGATE for yourself...



Recuperative PRG



Before Mowing



Recuperative PRG



After Mowing

Less Mowing, Better Quality





Can you afford **NOT** to use CSI?



90%+ plants exhibit spreading growth habit
90% MINIMUM germination
4 lbs./1000 ft.² seeding rate (Maximum rec. rate for CSI)

Approx. 4.93 lbs seed needed to achieve 4 lbs.
100% pure live spreading seed/1000 ft.²

Recuperative PRG:

11% of plants exhibit spreading growth habit (published information from competitor)
85% MINIMUM germination (from competitor's label)
7 lbs/1000 ft.² seeding rate (MINIMUM recommended rate by competitor)

Approx. 74.87 lbs. seed needed to achieve 7 lbs.
100% pure live spreading seed/1000 ft.²

AFFORDABLE Because It Works!





SAVINGS to cover a regular football field – 57,600 ft.



CSI: 3.5 bags = 175 lbs. covers 58,334 ft. (Rate 3 lbs.)

Normal PRG: 10 bags = 500 lbs. covers 55,560 ft. (Rate 9 lbs.)





NORMAL PRG
8-10 lbs.

Seeding cost of:
\$18/1,000 sq ft

CSI Rye
3 lbs.

Seeding cost of:
\$12/1,000 sq ft.

RECUPERATIVE
"Minimum" 7 lbs.

Seeding cost of:
\$19.25/1,000 sq ft

And that's figuring CSI Rye at TWICE the price used for the Normal PRG
LESS Money · MORE of Everything You Want

How CSI Rye SAVES you





- **CSI Rye SAVES** money in seeding costs with less seed needed for better results
- **CSI Rye SAVES** additional mowings with less top growth
- **CSI Rye SAVES** you from environmental concerns because better quality turf equals less inputs needed

We all need CSI Rye!





Simplot

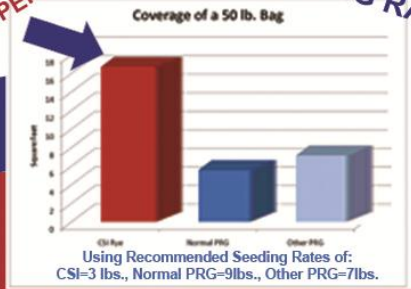
JACKLIN
S E E D

CSITM
BRAND
RYE
CREEPING
SPREADING
INNOVATIVE

- Protected by US Patent No. 7,696,418
- Reproductive Tillers Repair Damaged Turf
- Elite Turf Quality, Extremely Fine Blades
- Less Top Growth/Reduced Mowings for Sports Fields, Golf Courses, or Lawns

CSI COVERS
MUCH MORE
AREA PER BAG!

INVESTIGATE
SEEDING RATES!



CSI[®] may also be sold under
the brand NaturalKrot[™]

NET WT. 50 LBS. (22.68 kg)



www.jacklin.com

Proposed Bag





RYE

Summary

Bringing Earth's Resources to Life



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