

OCTANE

PERENNIAL RYEGRASS

OCTANE perennial ryegrass offers the golf and turf professional the latest in enhanced gray leaf spot resistance and improved overall turf quality. Originally developed from materials at Rutgers University, reselected and code named CL301, OCTANE is among the higher performing varieties in current testing.

OCTANE perennial ryegrass has a high endophyte level and salt tolerance that enhances turf performance. This endophyte is a naturally occurring fungus. It works together with the developing and mature plant to enhance stress tolerance and improve insect resistance.

The major improvement that OCTANE offers is a new level of gray leaf spot tolerance. This disease plagues establishing and mature perennial ryegrass stands. In late summer during seeding establishment, gray leaf spot can infect turf stands and leave vast expanses with undesirable browning turf. During late summer season heat, established permanent perennial ryegrass lawns may also become infected.

OCTANE is assured to offer the golf and turf pro as well as homeowner the latest developments in improved turf and gray leaf spot resistance.



- **High NTEP performance**
- **Quick establishing**
- **Better traffic tolerance**
- **Improved greenup and cover**
- **Endophyte enhanced**
- **Gray leaf spot resistant**
- **Top overseeding variety**

Traffic Tolerant

GLSR

Salt Tolerant



Burlingham Seeds



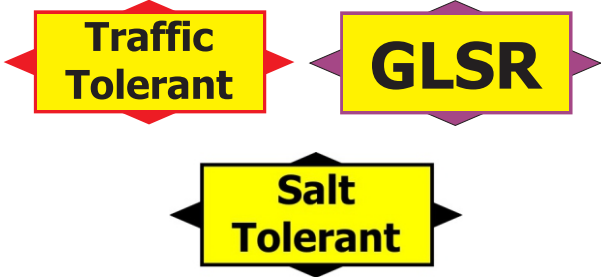
Burlingham Seeds LLC
PO Box 46 Rickreall, Oregon USA 97371
Toll Free 800-221-7333
Phone 503-623-2306
Fax 503-623-2477
info@burlinghamseeds.com

Quality Seed Since 1911

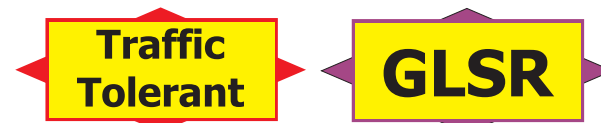


Permanent Northern Turf:
New Lawns: 6# per 1000 square feet
Overseed: 3# per 1000 square feet
Sports turf: 10# per 1000 square feet

Dormant Southern Overseeding:
Lawns & Fairways: 8-15 # per 1000 square feet
Tees and Greens: 20-35 # per 1000 square feet



Variety	Octane	High	Low	LSD
Summary of Quality Statistics	5.6	6.0	3.1	0.3
Northeast Region Quality	5.7	6.3	2.0	0.5
Transition Region Quality	5.7	6.3	3.0	0.5
North Central Region Quality	5.4	5.9	3.1	0.5
Riverside, CA Quality (Southwest Region)	6.6	7.7	5.3	0.4
Corvallis, OR Quality (Pacific Region)	6.1	6.4	4.9	0.3
AMMI Analysis Quality for LPI Group 1 (2011)	6.3	7.4	0.9	0.8
AMMI Analysis Quality for LPI Group 2 (2011)	5.5	6.0	2.1	0.8
AMMI Analysis Quality for LPI Group 3 (2011)	5.8	6.1	3.8	0.8
AMMI Analysis Quality for LPI Group 4 (2011)	6.2	6.5	4.7	0.8
AMMI Analysis Quality for LPI Group 1 (2012)	5.8	6.5	3.5	0.8
AMMI Analysis Quality for LPI Group 2 (2012)	6.0	6.4	2.6	0.8
AMMI Analysis Quality for LPI Group 3 (2012)	5.6	6.2	3.1	0.8
AMMI Analysis Quality Mean at 11 Locations (2013)	5.4	5.9	3.0	0.3
AMMI Analysis Quality for LPI Group 1 (2014)	5.5	6.2	2.6	1.1
AMMI Analysis Quality for LPI Group 2 (2014)	5.7	6.7	3.3	1.0
Overseeding Quality (AL1)	7.0	7.0	5.2	0.4
Overseeding Quality (AZ1)	7.3	7.4	3.9	1.7
Overseeding Quality (FL1)	7.5	8.0	6.9	2.2
Traffic Stress Quality (CA1) (2011-12)	3.9	4.3	2.4	0.8
Traffic Stress Quality (PA1) (2011-14)	90.4	95.0	75.1	3.6
Traffic Stress Quality (VA1) (2011-13)	5.1	6.2	3.0	2.5
Traffic Stress Quality (WI1) (2012)	4.9	5.7	3.8	1.0
Percent Cover for Salt Tolerance (RI2)	26.5	69.3	-	23.3
Drought Stress Quality at Blacksburg, VA	61.0	81.3	23.3	58.7
Drought Stress Quality at Puyallup, WA	4.7	5.4	3.8	0.4
Genetic Color	6.5	7.8	3.6	0.4
Leaf Texture	5.9	6.7	4.0	0.8
Spring Density	6.3	6.7	3.3	1.0
Summer Density	6.3	7.3	3.7	0.9
Fall Density	5.3	7.0	3.0	0.9
Spring Greenup	5.3	6.1	4.7	0.8
Seedling Vigor	5.9	6.7	4.0	0.8
Percent Establishment (IL1 & MA1)	70.0	70.8	45.0	9.4
Percent Establishment (MI2)	36.7	38.3	17.5	11.5
Percent Living Ground Cover Spring	88.9	94.2	80.2	8.5
Percent Living Ground Cover Summer	79.0	96.6	68.9	11.9
Percent Living Ground Cover Fall	72.8	87.7	65.9	16.7
Percent Winter Kill	88.0	97.7	20.0	38.6
Winter Kill	1.0	2.7	1.0	1.0
Stem Rust	7.6	7.7	3.2	1.6
Dollar Spot (MO1)	3.7	6.7	2.7	2.2
Dollar Spot at Adelphia, NJ	3.7	8.0	2.5	1.3
Red Thread	5.3	6.3	3.8	1.7
Brown Patch (Warm Temp.)	4.7	6.2	2.2	1.2
Pythium Blight (VA1)	3.0	6.3	1.3	1.7
Crown Rust (MO1)	8.0	8.0	1.7	1.8
Gray Leaf Spot (MD1)	7.3	8.7	3.0	2.0
Gray Leaf Spot (NJ1)	7.6	7.9	1.0	1.0
Pink Snow Mold (MN1)	6.3	7.3	2.7	2.4
Seedhead Ratings (NJ2)	5.3	9.0	1.0	1.5
Mowing Quality	4.5	7.2	2.8	1.4
Percent Poa Annua (MD1)	5.7	45.8	0.8	9.4
Poa Annua Counts (MA1)	28.7	110.8	8.7	27.8
Wear Tolerance at Amherst, MA	5.9	6.5	3.7	0.8
Locations By Region				
Northeast Region - MA1, NJ2 & PA1				
Transition Region - MD1, MO1 & VA1				
North Central Region - IA1, IL1, MI1, MN1 & NE1				
green highlight = ranks within top LSD				



- High NTEP performance
- Quick establishing
- Better wear & traffic tolerance
- Improved greenup and cover
- Endophyte enhanced
- Gray leaf spot resistant
- Top overseeding variety

2010 National Perennial Ryegrass Test
 2011-2014 Data
 Final Report NTEP No. 15-7

Turf Features

Germination Time - Fast

7 to 10 days is normal in spring and fall with irrigation

Growth habit - bunch grass

Drought Tolerance - Good

Mowing Height - from .175 inch daily to 3 inches weekly

Disease Resistance

Excellent resistance to gray leaf spot
 High resistance to dollar spot and red thread

Traffic tolerance - Good

pH Tolerance

Ranges from 5.5 to 8.5, Ideally at 6.0 to 6.5

Texture

Fine leaf texture and dwarf vertical growth habit

Compatibility - with Kentucky bluegrasses and fine fescues, turf type tall fescues

Color - Dark green

Shade tolerance - poor to fair - likes full sun

Salt tolerance - Good

Endophyte enhanced - Yes - helps insect and stress tolerance

Preferred use - Home and commercial lawns, sports fields, golf fairways, tees and roughs