

ZODIAC

CHEWINGS FESCUE

Zodiac was bred to have good turf quality in low maintenance and shady turf areas. It is adapted for use in a wide variety of soils. It is well suited to infertile soils or home lawns where top soil is limited. Zodiac will withstand drought conditions through natural dormancy, returning to a lush growth when the rain begins. Thus, it fits well in shade mixtures or mixes designed for low maintenance, roadsides, orchards and vineyards.

Conversely, Zodiac chewings fescue may improve golf play in mixtures with short cut overseeded or permanent perennial ryegrass or Kentucky bluegrass because of the ability to mow Zodiac at ½ inch or higher. It has added levels of endophyte which improve insect resistance, providing better summer stress tolerance.

Zodiac has improved turf persistence in shade in the cool season and transition zone climates where usage and climatic conditions favor chewings fescues. Under low fertility maintenance and organic gardening, it should be allowed to grow at 3 to 4 inches or mature at 12 inches or more. Growth will stabilize and infrequent mowing reduces demands for irrigation at this height. In the recent national trial results, Zodiac was rated at the top of the NTEP fine fescues for its deep green color and performance in low and higher maintenance.

This new fine fescue can be used alone, in trouble shade spots, and with higher maintenance golf and dormant southern overseeding in shady conditions. Zodiac will persist on slopes, roadsides, tree farms, orchards and low maintenance areas where low fertility and grass cover is required.

- **#1 in NTEP 2004-2009**
- Better under stress
- Short cut or no mow cover
- Excellent turf quality
- Low maintenance
- Sun to deep shade
- Endophyte enhanced



As seen, Zodiac chewings fescue plot pictured in East Lansing, Michigan during a field day in July, 2004.

Seed Specification:
New Lawns:
 4 pounds per 1000 square feet or 175 # per Acre

Overseed:
 2 pounds per 1000 square feet or 90# per Acre



**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



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NTEP Chewings Fescue data 2004-2007 Final Report Turf Quality by State

Variety	CA8 Palo Alto	IA1 Ames	IL1 Urbana	IN1 W Lafayette	MA1 Amherst	KS3 Olathe	MD1 College Park	ME1 Orono	MN1 St. Paul	ND1 Fargo
Zodiac	6.4	7.4	5.4	6.5	5.1	6.1	5.3	7.7	6.1	5.3
TQ High	6.9	7.4	5.4	6.6	5.4	6.1	5.3	7.7	6.1	5.3
TQ Low	6.2	6.6	4.0	5.2	4.0	5.3	3.1	7.0	4.0	4.6
LSD	1.0	0.7	0.7	0.9	0.8	1.1	0.8	1.0	1.3	0.5

Out of 14 varieties in the new NTEP trial on Chewings Fescue
(N/M) = Locations Non-Mowed

green highlight = ranks within top LSD
tan highlight = top rated in trial

Variety	NJ1 N. Brunswick	NJ2 Adelphia	NY1 Ithaca	PA1 Univ. Park	QE1 Quebec City	RI1 Kingston	SD1 Brookings	VA1 Blacksburg	WA3 Puyallup
Zodiac	6.0	5.7	5.4	6.7	6.2	6.3	6.4	5.8	5.3
TQ High	6.0	6.2	6.2	6.7	6.3	6.8	6.6	5.9	5.8
TQ Low	2.9	3.9	5.4	5.2	6.0	5.7	5.7	4.5	4.2
LSD	1.5	0.6	0.4	0.9	0.4	0.9	0.7	1.0	0.7

2003 National Fineleaf Fescue Test

2004-07 Data

Final Report NTEP No. 08-9

Variety	Zodiac	High	Low	LSD
Turf Quality Summary	5.8	5.8	4.7	0.8
Turf Quality Northeast Region (8 loc)	6.0	6.0	4.6	0.4
Turf Quality Transition Region (3 loc)	5.2	5.2	2.4	0.6
Turf Quality No. Central Region (7 loc)	5.9	5.9	5.2	0.3
Turf Quality Pacific Region (2 loc)	5.6	5.9	5.2	0.8
Turf Quality Under Stress Madison, WI	7.2	7.9	5.2	1.6
Non-Mowed Palo Alto, CA	7.2	7.9	6.4	1.5
Non-Mowed Lemont, IL	6.3	6.5	4.3	1.3
Shade (3 loc)	6.3	6.3	4.9	0.9
Genetic Color	5.8	6.8	5.3	0.3
Winter Color	5.2	5.7	4.5	0.7
Spring Density	6.6	6.6	4.9	0.9
Summer Density	6.8	6.8	5.1	1.0
Fall Density	6.7	6.7	5.4	0.7
Spring Greenup	4.8	5.2	4.4	0.4
% Living Ground Cover Spring	93.7	94.2	79.6	10.2
% Living Ground Cover Summer	97.7	99.0	84.2	7.5
% Living Ground Cover Fall	90.4	90.4	75.8	5.5
Red Thread	6.5	7.2	5.1	0.9

Locations By Region -

Northeast - MA1, ME1, NJ1, NJ2, NY1, PA1, QE1 & RI1
Transition - KS3, MD1 & VA1
North Central - IA1, IL1, IN1, MI1, MN1, ND1, & SD1
Pacific - CA8 & WA3

Shade - IL2, NE1 & UT1

Top Rated
Top ranked against LSD value

Turf Features

Germination Time - Medium
12 to 17 days is normal in spring and fall with irrigation

Growth habit - bunch grass

Drought Tolerance - Medium to Good

Mowing Height - from 1/2 inch to 3 inches weekly or unmowed for meadow effect in orchards, vineyards, slopes

Disease Resistance
Very good with low fertilizer maintenance - can be diseased when on well fed programs

Traffic tolerance - Medium tolerance when used with other lawn grasses

pH Tolerance
Ranges from 5.5 to 8.5, Ideally at 6.0 to 6.5

Texture - Very fine leaf texture and dwarf vertical growth

Compatibility - in mixtures with Kentucky bluegrass or perennial ryegrass or tall fescue

Color - Medium green

Shade tolerance - Very good to excellent

Salt tolerance - Good

Endophyte enhanced - Yes - helps insect and stress tolerance