



PANTERRA

over-seeding ryegrass



Panterra, turf-type annual ryegrass is the result of an extensive Texas A&M breeding program to provide high quality overseed that is economical and allows for easy transition. Panterra was developed specifically for winter overseeding; displaying excellent turf quality on golf courses, sport fields and other fine turf. Panterra overseeding ryegrass meets the winter annual turf demands of superintendents, sports turf managers, contractors and homeowners.

Why Panterra?

- ▶ Fast establishment
- ▶ Unique overseeding grass
- ▶ Easy spring transition, non-persistent
- ▶ Low growing - less clippings
- ▶ Fine leaf texture
- ▶ Beautiful medium green color
- ▶ Good turf quality
- ▶ Grows under low temperatures

Panterra COVERS the earth.



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Lolium multiflorum

PLANT CHARACTERISTICS

Panterra will germinate incredibly fast and establish a fine turf much quicker than perennial ryegrass. This overseeding ryegrass has a very prostrate growing habit which helps reduce mowing frequency. Panterra has a very nice green color throughout the winter months. In spring, Panterra will allow your turf to easily transition from cool season grass to warm season grass helping the overall health of your turf.

SEEDING AND MAINTENANCE INSTRUCTIONS

- ▶ **SEEDING RATE:** Depending on the desired color and turf quality, plant from 10 to 20 lbs. per 1,000 sq. ft.
- ▶ **GERMINATION & ESTABLISHMENT:** Keep seedbed moist to enhance germination. Under ideal conditions, germination should begin within 2 to 4 days and be complete within 10 days. The stand will be well established in 21 days.
- ▶ **FERTILIZATION:** For optimum results apply 0.50 to 0.75 lbs. of N/1,000 sq. ft. per application during the growing season. Requires 3 to 5 lbs. N/1,000 square feet per growing season. The fertilization rate will vary depending on the soil conditions and the usage of the grass.
- ▶ **MOWING HEIGHT:** Performs best at 1 to 2 inches. Will tolerate mowing to 1/2 inch under high maintenance conditions. Do not remove more than 1/3 of the total plant height with each mowing.
- ▶ **WATERING:** After establishment, a deep watering program is recommended to improve root depth. Irrigate according to turfgrass needs for your geographical area.

TRIAL DATA

AVERAGE TURF QUALITY†

MACH 1 PR	6.5
PANTERRA AR	5.9
TRANSIST 2200 IR	5.8
TRANSEZE IR	5.5
GULF AR	5.2
LSD (0.05)	0.3

VISUAL QUALITY, JAN 28‡

TURFSTAR/BARIVIERA PR/RB	8.0
PANTERRA AR	7.0
TRANSIST 2200 IR	6.3
FROGHAIR II IR	5.3
TRANSEZE IR	5.3
LSD (0.05)	1.4

SEEDLING VIGOR†

PANTERRA AR	7.7
TRANSEZE IR	7.0
AMERICUS PR	6.7
MACH 1 PR	6.3
PLAYMATE PR	6.0
LSD (0.05)	1.2

DENSITY/VIGOR OCT 28‡

PANTERRA AR	7.7
TRANSIST 2200 IR	6.7
TRANSEZE IR	6.0
FROGHAIR II IR	5.3
BRIGHTSTAR II PR	4.7
LSD (0.05)	1.3

VISUAL COLOR, OCT 28‡

AMERICUS PR	7.7
PANTERRA AR	5.3
TRANSEZE IR	5.0
PLAYMATE EZ PR	5.0
GULF AR	4.0
LSD (0.05)	1.2

% BERMUDA GRASS COVER AFTER TRANSITION - JUNE*

PANTERRA AR	96
TRANSEZE IR	93
GULF AR	91
HARBOUR IR	85
MACH 1 PR	79
LSD (0.05)	14

† Mississippi State University, Golf Fairway Overseeding Test, 2002-2003

‡ University of Arizona, Overseeding Turf Trials, 2002-2003

* University of Florida, Fairway Overseeding Trial, 2002-2003

AR=Annual Ryegrass; PR=Perennial Ryegrass; IR=Intermediate Ryegrass; RB=Roughstalk bluegrass



Great in Grass®
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