

KING **DIPLOID** **ANNUAL RYEGRASS** HIGH FORAGE YIELD • RUST RESISTANT



FORAGE

- Extensively Tested, Proven Performer
- Consistent High Forage Yields
- Medium Maturity
- Rust Resistant
- Cold Resistant
- Disease Resistant,
Including Gray Leaf Spot

COVER CROP

- Captures Residual Nitrogen
- Increases Water Infiltration
and Soil Moisture Holding Capacity
- Helps Prevent Soil Erosion
- Helps Increase Soil Organic Profile
- Aids in Weed Suppression
- Easily Controlled with Herbicides



BACKGROUND

Dr. Gordon Prine, ryegrass breeder for Florida Agricultural Experiment Station, developed King diploid annual ryegrass under the experimental designation FL X1998 (new) MR Select through recurrent selection in gridded nurseries of 6,000 to 8,000 plants. Classified as a genetic mixture of Italian and Westerwold types, King is described as being a medium maturing variety with excellent crown rust resistance and as being more cold hardy than Gulf.

APPLICATION

King is an aggressive producer of short-term forage, suitable for both beef and dairy. As a cover crop or buffer strip, King provides many positive economic and environmental benefits.

FORAGE:

As a short-term forage, King is suitable for hay, silage and pasture utilization. Primarily considered a southern winter overseeding/interseeding forage for dormant or existing pastures, one of the reasons for King's success is consistent high forage production over a wide geographical area. In the 2002-2003 University of Florida forage trial, King exhibited very good disease resistance, including gray leaf spot.

SEEDING RATE:

18-25 lbs/acre drilled, 20-30 lbs/acre broadcast

COVER CROP:

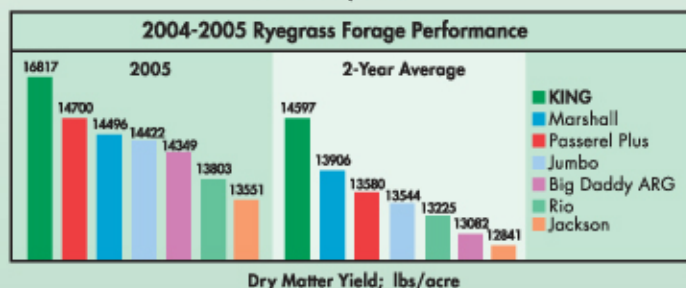
Annual ryegrass, such as King, is proving to be a more suitable crop cover than wheat or cereal rye when followed by no-till corn and soybeans. Annual ryegrass has shown greater root mass and deeper root penetration, up to 55 to 70 inches after the third year, while all along improving soil structure and increasing organic matter, thus forging the way for corn and soybeans to mine moisture and nutrients from a greater soil profile. This leads to improved yields, particularly in times of drought. However, cold tolerance can be a limiting factor, and King has proven to have excellent cold tolerance when compared against other annual ryegrasses.

BUFFER STRIPS:

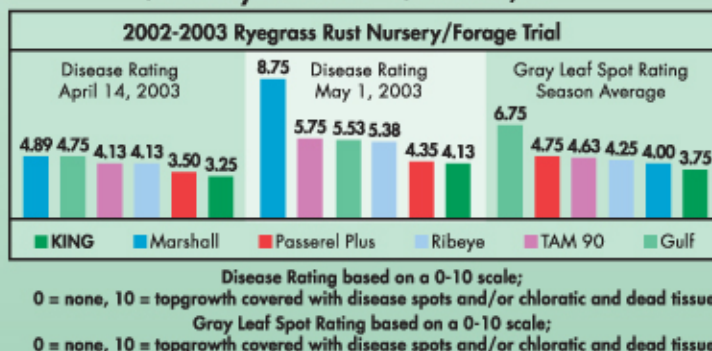
Annual ryegrass, such as King, can also play an important role in properly functioning buffer strips. According to research information compiled by the United States Department of Agriculture, properly installed, well maintained buffers help:

- Reduce nutrient and pesticide runoff into water bodies by 50 percent or more
- Reduce sediment loadings by 75 percent
- Reduce pathogen loadings by 60 percent

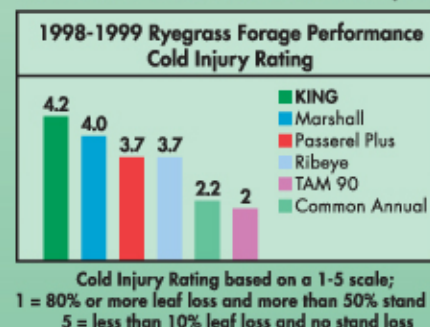
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