

## AGS 104 -- A New Rye Cultivar for Winter Forage and Silage Production<sup>1</sup>

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AG 104 is a new early winter rye cultivar developed by the University of Florida and the University of Georgia.

The average rye season lasts from December through April in the southeastern US. Some rye cultivars produce early-season forage, while others are typically late-season. Several rye cultivars may be blended or broad-based populations used to produce tonnage fairly evenly over the course of the growing season. AGS 104 was developed for early season forage production, which is well suited for various livestock operations.

Rye production is required more in December, January, and February than in March and April by southeastern livestock producers. Typically by mid-April the summer perennial grasses come out of dormancy and begin to grow. Earlier rye growth accelerates the winter grazing period where early forage production is desirable. It is particularly useful for dairy silage operations where cool-season forages are followed by early-planted corn.

AGS 104 (tested experimentally as: FLPL97P20) originated from an equal mixture of 5 strains that were developed in 1996 at Griffin, GA: Strain 1 = Bates, WALC7 and Florida 401; Strain 2 = Maton, WALC7 and Florida 401; Strain 3 = Oklon, WALC7 and Florida 401; Strain 4 = NF 73, WALC7 and Florida 401; Strain 5 = BR1, WALC7 and Florida 401. This mixture was selected over a period of years (4 cycles of selection) at Quincy, FL 1998-2001. Bates, Maton, Oklon, and NF 73 were developed by the Samuel Roberts Noble Foundation. The BR1 is a rye from Brazil. The WALC7 is a selection developed from Wrens Abruzzi and was released as Wrens 96. Good forage production, disease resistance and high seed yield were used as selection criteria for advancing each cycle.

AGS 104 has performed well in variety trials throughout the southeastern US, particularly for early season forage production. It also performs well in blends with annual ryegrass for long-season forage production. AGS 104 most closely resembles Wrens 96. It is slightly shorter and earlier than Wrens 96. AGS 104 has good leaf rust resistance. AGS 104 was

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