REGISTRATION OF PARENTAL LINES

REGISTRATION OF AM 2147 TRITICALE
GERMPLASM
(Reg. No. GP 3)

J. L. Hughes, V. T. Sapra, G. C. Sharma, and L. L. Walker

AM 2147, a hexaploid triticale (× Triticosecale Wittmack), is the bulked progeny of a single plant selection made in the spring of 1972 from an obvious mixture of wheat (Triticum aestivum L.), hexaploid triticale, and rye (Secale cereale L.) plants labeled Graize Grain 70, obtained from International Grain, Dallas, Tex., during 1971. This line is classified as a spring type, day-length insensitive, but does possess some winter-hardiness.

AM 2147 is medium in height (approximately 110 cm) and medium-early in maturity. It matured in approximately 165 days from 1 January, at Huntsville, Ala. in 1975-76, from a 4 October planting date. The spikes averaged 12.8 cm in length with about 8 cm of the peduncle from the base of the spike having pubescence (hairy-neck). The average seeds per spike and florets per spike were 56.6 and 57.7, respectively. The fertility is good with a mean seed set of 98.1% (based on two florets per spikelet). The kernels are non-vitreous, medium shrivelled, with floury endosperm, averaging 0.9 cm long, and weighing about 42.2 g/1,000 kernels. Flour yield was 51% on 1976 samples that had a test weight of 62.3 kg/hi. The mean somatic chromosome number, determined from a bulk seed sample, was 42.

Small amounts of seed are available to interested plant breeders upon request to registering institutions which will maintain basic seed stock.

1 Registered by the Crop Sci. Soc. Am. Contribution from the Dep. of Natural Resources and Environmental Studies, School of Agriculture, Alabama A & M Univ., Normal, AL 35762.
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REGISTRATION OF AM 2149 TRITICALE
GERMPLASM
(Reg. No. GP 4)

J. L. Hughes, V. T. Sapra, G. C. Sharma, and L. L. Walker

AM 2149, a hexaploid triticale (× Triticosecale Wittmack), is the bulked progeny of a single plant selection made in the spring of 1972 from a mixture of wheat (Triticum aestivum L.), hexaploid triticale, and rye (Secale cereale L.) plants labeled Graize Grain 70, obtained from International Grain, Dallas, Texas during 1971. AM 2149 is classified as a facultative type, partially day-length sensitive, and possesses a fair degree of winterhardiness.

AM 2149 has medium height (approximately 120 cm) and medium-late maturity. It matured in approximately 175 days from 1 January at Huntsville, Ala., in 1975-76, from a 4 October planting date. It is a good fall forage producer with high yields of forage over the entire grazing season. It is resistant to leaf rust (Puccinia rubigovera (DC.) Wint. f. sp. triticii (Eriks.) Carl) and moderately susceptible to glume blotch (Septoria nodorum Berk.). The spikes averaged 12.9 cm in length with 50.6 and 62.2 average seeds per spike and florets per spike, respectively. The fertility is fair with a mean seed set of 81.3% (based on two florets per spikelet). The kernels are semi-vitreous and medium shrivelled, with floury endosperm, and averaged 0.95 cm long and 39.4 g/1,000 kernels. It had a test weight of 58.4 kg/hi. The mean somatic chromosome number, determined from a bulk seed sample, was 42.

Small amounts of seed are available upon request.

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