REGISTRATION OF COUNCILL TRITICALE
(Reg. No. 1)

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‘COUNCILL’, CI 17682, a hexaploid triticale (X Triticosecale Wittmack) is the increase of a single plant selection made in the spring of 1972 from a mixture of wheat (Triticum aestivum L. em. Thell.), hexaploid triticale, and rye (Secale cereale L.) labeled Graize Grain 70, obtained from International Grain, Dallas, Tex., in 1971. Several hundred plants were selected based on fertility and medium height characteristics. The progeny of one plant selected in 1974 was designated as AM 2149. This selection was registered with the Crop Science Society of America as Reg. No. G.P. 4 and assigned CI No. 17682 by the United States Department of Agriculture.

Councill is classified as a facultative type, partially day-length sensitive, and possesses a fair degree of winterhardiness. Councill is well adapted in northern and central Alabama (34° 39' N Lat, 86° 46' W Long and 157 m elevation). It has survived the cold winters of 1977 and 1978 (low record temperature --15 C) but showed some tissue injury on plants which recovered and produced new growth after warm temperatures resumed in late February.

Councill is mid-season in maturity. It matured in approximately 175 days from 1 January at Huntsville, Ala. from a mid-October planting. It is 2 to 3 days earlier than ‘6TA 131’ and 8 days later than ‘Arthur 71’ wheat. Councill has a medium plant height (120 to 125 cm). It is 15 cm shorter than triticale 6TA 131 and 44 cm taller than Arthur 71 wheat. The stem neck of Councill is wavy in shape with moderate hairiness. The flag leaf is flat and has a waxy bloom at boot stage. The length of the first leaf below the flag leaf averages 26.7 cm and width 1.9 cm. The spike is lax, awns are white. At maturity glumes are glabrous and oblique. Spike averaged 12.9 cm in length and 51 to 62 seeds. The mean seed set is 81.3% (based on two seeds per spikelet). The plant color at boot stage is green, the coleoptile color is purple. Anthocyanin became apparent during maturation on leaves.

Seeds are oval, slightly wrinkled, short, and amber in color. Kernels are semi-vitreous and averaged 0.95 cm long and 2.369 g/1,000 kernels. The mean somatic chromosome number was determined from a random sample of plants and was 42, all 14 rye chromosomes.

Councill is moderately resistant to leaf rust (incited by Puccinia recondita Rob. ex. Desm. f. sp. tritici Ericks), leaf blotch (incited by Septoria tritici Rob), and glume blotch (incited by Septoria nodorum [Berk.] Berk). Councill has on an average 6 and 1% higher grain yield and protein content than 6TA 131, respectively. However, the forage yield of Councill (2,334 kg/ha) was not significantly different from 6TA 131 (2,369 kg/ha).

Councill was released by the Alabama A&M University in 1979. The Alabama A&M University will maintain breeder seed.

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