incognita (Kofoid and White) Chitwood. NC 50's average height is 46 cm and it can be topped to produce approximately 21 leaves per plant. The cultivar produces a low number of ground suckers and flowers in approximately 66 days after transplanting. Plants possess a strong stalk and are not subject to premature flowering. Leaves are moderate in length and width and tend to be somewhat broader than 'NC 2326'. NC 50 had a yield of 3706 kg/ha which was 10 and 16 percent more than the yields of NC 2326 and Speight G-28, respectively, in the 1983 North Carolina Official Variety Test. Cured leaf is predominantly orange in color and medium bodied with a medium to smooth texture. Price per pound and quality index compared favorably with presently grown cultivars. Cured leaf of NC 50 received a high percent usability rating (52.7) by tobacco companies in the 1982 Regional Farm Tests.

NC 50 is a high-yielding, disease-resistant cultivar that has a desirable field appearance and performance, and should be adapted over a considerable portion of the flue-cured tobacco growing region. Breeder seed of NC 50 will be maintained at the Oxford Tobacco Research Laboratory. Foundation seed is distributed by the North Carolina Foundation Seed Producers, Inc., North Carolina State Univ., Raleigh, NC 27650.

G. R. GWYNN (4)

Reference and Notes

REGISTRATION OF BEAGLE 82 TRITICALE

'BEAGLE 82', a spring-type triticale, (Triticosecale Wittmack) (Reg. no. 2), was developed by the University of Georgia Coastal Plain Experiment Station, Tifton, and University of Florida Agricultural Research and Education Center, Quincy, in cooperation with the USDA-ARS. Beagle 82 originated from CIMMYT (International Maize and Wheat Improvement Center) in Obregon, Mexico from a cross made by Dr. F.J. Zillinsky between a University of Manitoba triticale line and a triticale bulk from Mexico. The full pedigree is not known but a seed lot was received from Mexico as an F₅ bulk (X1530A-12M-12M-5N-1M-0Y) named Beagle. Beagle 82 was selected from this bulk.

Beagle 82 is a hexaploid triticale with 42 (2n) chromosomes. Its photoperiod, the cultivar is not cold hardy. When Beagle 82 is planted in early December in north Florida, it will mature about the same time as Florida 301 which is an early wheat. However, due to its longer grain filling period, it will mature about the same time as Florida 301 which is an early wheat. It is resistant to most races of leaf rust (caused by Puccinia recondita Rob. et Magn.) and Septoria nodorum Berk. It is resistant to wheat glume blotch, caused by Helminthosporium sativum (Fr.) Tul., loose smut (caused by Ustilago tritici U. Rob. ex Desm. f. sp. Puccinia recondita Hbn.). Beagle 82 is susceptible to powdery mildew (caused by Erysiphegraminis tritici DC. f. sp. Puccinia recondita B. Rob. ex Desm. f. sp.), loose smut (caused by Ustilago tritici U. Rob. ex Desm. f. sp. Puccinia recondita Hbn.), or ergot (caused by Claviceps purpurea Rostr.), or ergot (caused by Claviceps purpurea Rostr.).

Beagle 82 has a good grain yield record in Florida and Georgia over a 4-year period. Average yields in Florida were 4520 kg/ha (4036 lbs/acre) and in GA 4352 kg/ha (3886 lbs/acre). Although it is shorter than that of 'McNair 1003' and 'Coker 747', respectively. In 33 trials conducted in Virginia from 1978 through 1982, the average yield of Wheeler was 1 and 7% higher than 'Tyler' and 6% less than 'Massey'. Beagle 82 is resistant to wheat glume blotch, caused by Helminthosporium sativum (Fr.) Tul., loose smut (caused by Ustilago tritici U. Rob. ex Desm. f. sp. Puccinia recondita Hbn.), or ergot (caused by Claviceps purpurea Rostr.), or ergot (caused by Claviceps purpurea Rostr.).

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D. D. MOREY AND R. D. BARNETT (3)

REGISTRATION OF WHEELER WHEAT

'Wheeler', CI 17900, is a soft red winter wheat (Triticum aestivum L.) (Reg. no. 685) developed by the Virginia Agricultural Experiment Station and released in 1980. The cultivar was named and released in Georgia and Florida in 1982. Breeder seed will be maintained by the Georgia Agricultural Experiment Station, Tifton, GA 31793, and Foundation Seed Producers, Inc., North Carolina State Univ., Raleigh, NC 27650. publication of information on Beagle 82 triticale.

References and Notes