than that of Nugaines. The milling characteristics of Sprague are similar to those of Nugaines. Sprague produces an excellent pastry-type flour.

Breeder and foundation seed will be maintained by the Washington State Crop Improvement Association under the supervision of the Agronomy and Soils Department, Washington State Agricultural Research Center and the USDA, Pullman, WA 99164.

REGISTRATION OF NEWTON WHEAT
(Reg. No. 601)

E. G. Heyne and C. L. Niblett

'Newton' CI 17715, is a hard red winter wheat (Triticum aestivum L. em Thell.) selected from the cross 'Plicic 62' //II 53-526 ('Chris' sib)/'Sonora 64'/3/Sonora 64/'Klein Rendidor'/4/'Scout' made by Pioneer Hi-Bred International, Inc. in 1967. The milling characteristics of Sprague are similar to those of Nugaines. Sprague produces an excellent pastry-type flour.

Breeder and foundation seed will be maintained by the Washington State Crop Improvement Association under the supervision of the Agronomy and Soils Department, Washington State Agricultural Research Center and the USDA, Pullman, WA 99164.

REGISTRATION OF DOUBLECROP WHEAT
(Reg No. 602)

F. C. Collins and J. P. Jones*

'Doublecrop' wheat (Triticum aestivum L. em Thell.) is a soft red winter wheat cultivar released by the Agronomic and Soils Department, University of Arkansas for the practice of doublecropping with soybeans and cotton. Although Doublecrop has been equal to Arthur for yield potential, it is straight; a straight line crease is often present on the top of the kernel. The brush is midsized. Quality of the protein is excellent and equal to that of 'Eagle'.

Variety protection has been applied for under the Plant Variety Protection Act, Public Law 91-577. Breeder seed of Doublecrop will be maintained by the Agricultural Research Center and the USDA, Pullman, WA 99164. Foundation seed will be maintained by the Kansas Agricultural Experiment Station, Manhattan, KS 66506.

Doublecrop closely resembles Arthur in some respects; however, it differs from Arthur earlier in maturity when grown in Arkansas. In a recent yield trial in 1971, Doublecrop was entered into the Uniform Eastern Soft Red Winter Wheat Nurseries in 1974 and in the SRPN in 1976 and 1977. Its yield performance has been above average.

The important characteristics of Newton are its resistance to soil-borne wheat mosaic virus and relatively short stiff straw. In addition to these two characteristics, Newton is moderately resistant to leaf rust (Puccinia recondita Rob. ex Desm. f. sp. tritici) and stem rust (P. graminis Pers. f. sp. tritici Eriks) races currently common in Kansas. It is susceptible to Hessian fly (Mayetiola destructor Say), bunt (Tilletia caries (DC.) Tul.) mildew (Erysiphe graminis tritici E. Marchal), and Septoria spp.

Quality of the protein is excellent and equal to that of 'Eagle'. Newton has a medium mixing time slightly longer than Scout, and average protein content, and above average loaf volume potential.

Newton is about equal to 'Triumph' in winterhardiness and has midseason maturity. It has short stiff straw but not as short as most one-gene short stature wheats. The culm, glumes, and awns are white; the peduncle often is wavy; the spike is awned, varying from 3 to 7 cm in length, with two to three more spikelets than most hard red winter wheats, and often has a third fertile floret. The shoulders are nearly square and narrow. The beaks vary from 2 to 6 mm long. The kernels are red, hard, midlong, and elliptical to ovate; germ is small. The crease is straight; a straight line crease is often present on the top of the kernel. The brush is midsized.

Variety protection has been applied for under the Plant Variety Protection Act, Public Law 91-577. Breeder seed of Doublecrop will be maintained by the Kansas Agricultural Experiment Station, Manhattan, KS 66506. Foundation seed will be maintained by the Kansas Agricultural Experiment Station, Manhattan, KS 66506.

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