Southern Regional Plant Introduction Stn. The wild parent was probably *A. monticola* Krap. et Rig., since no other wild species are known to produce highly fertile hybrids with *A. hypogaea*. The cross was made in 1961 at the Tex. A&M Univ.-Tarleton Exp. Stn., and subsequent selections were made at that field station. Single plant selections were made through the F$_2$ followed by selection within progeny rows in the F$_3$ and F$_4$ preliminary testing in F$_5$ and F$_6$ and a mass selection in the F$_7$.

Average yield of Tamnut 74 exceeded all of the commercial Spanish cultivars of similar seed size (35 to 54 g/100) and maturity range (120 to 130 days) during the 1969-73 testing period. In 39 tests conducted throughout Texas, Tamnut 74 exceeded the commercial cultivars in average yield as follows: 'Spancross,' 5%; 'Spanhoma,' 6%; Starr, 7%; 'Comet,' 8%; 'Tifspan,' 8%; and Spantex, 22%. Tests conducted in Oklahoma and Georgia in cooperation with the USDA have given similar results.

Pods of Tamnut 74 are more symmetrical than Starr; the enlargements within individual pods are near equal in average size. Also, less variability in diameter among pods has been observed in Tamnut 74 than in Starr. The pod diameter at the constriction averages 9% larger than Starr; whereas the pod length is equal.

Quality and organoleptic evaluations indicated Tamnut 74 is similar to other Spanish cultivars. Chemically, Tamnut 74 has averaged 48.5% oil and 28.1% protein (N × 5.67) with an iodine number of 97 and O/L ratio of 1.28.

The reactions of Tamnut 74 to pathogens and insects have been similar to that of other commercial Spanish cultivars. However, damaged kernels have averaged significantly lower than Starr in 5 years of testing.

Breeder seed will be maintained at the Tex. Agric. Exp. Stn., Tex. A&M Univ.-Tarleton Exp. Stn., Stephenville, TX 76401.

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**REGISTRATION OF RUGBY DURUM WHEAT**

(Reg. No. 557)

J. S. Quick, D. E. Walsh, K. L. Lebsock, and J. D. Miller

'RUGBY' (*Triticum turgidum* L. var. *durum*), CI 17284, is a spring durum wheat developed cooperatively by the N.D. Agric. Exp. Stn. and the ARS, USDA. It was selected from the cross 'Langdon'/3/Ld357//CI 7780/Ld362/4/Bri80/Wells.' Langdon and Wells were important North Dakota durum cultivars and CI 7780 is a source of stem rust resistance from Ethiopia. Ld 357 and Ld 362 have 'Heiti,' 'Stewart,' 'Carleton,' 'Mindum,' and 'Nugget' in their pedigrees. Br180/Wells derived from the same F$_2$ plant as 'Leeds.' The cross was made in 1963 to combine stiff stalk with large kernels, and high test weight, and to combine resistance from several sources. Rugby was bulked selection as a single F$_4$ derived line and first entered yield trials in 1968 as selection D6722. It has been in the Uniform Regional Durum Nursery (URDN) in North Dakota drill strips since 1971.

Rugby has midtall, strong, white culms that develop a glossy coloration under some conditions. The glumes (dehisce at maturity), oblong, dense, and erect. Glume size is similar to other Spanish cultivars. Chemically, Tamnut 74 has a higher than Leeds. Rugby had a slightly higher kernel weight and a slightly lower test weight than Leeds in the same tests. Rugby has been equal to Ward in stem rust, leaf rust, and leaf spot diseases, heights, and the Northern Region. Rugby was one day later in heading, the highest level of resistance to stem rust of all 810 wheats tested in 33 important wheat producing countries in the 1971 International Spring Wheat Rust Nursery. The rust resistance of Rugby is excellent compared with all other Spanish cultivars. The protein quality and quantity, milling performance, and spaghetti firmness of Rugby were good. The spaghetti color of Rugby was higher than that of the North Dakota variety in tests during 1971-1973.

Rugby was named and released by the N.D. Agric. Exp. Stn. and the ARS, USDA, Dec. 27, 1973. Breeder seed is maintained by the Seedstocks Project, N.D. Agric. Exp. Stn., ND 58102. The National Small Grain Varieties Committee has approved Rugby for certification.

Rugby is described further in N.D. Farm Res. Paper no. 528A. Received Mar. 27, 1974.

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**REGISTRATION of GERmplASMs**

**REGISTRATION of ALFALFA GERmplASm POOLS NC-83-1 AND NC-83-2**

(Reg. Nos. GP 45 and GP 46)


Source II consisted of 36 foreign plant introductions from some resistance to one or more important pest species were all winter-hardy.

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1 Registered by the Crop Sci. Soc. of Am. Paper entitled "Seed production of breeding lineal durum, " series 2, paper no. 528A. Received Mar. 27, 1974.