regional trials from 1982 to 1986 as TX81V6614. It was the result of the cross TX71A1039-V1*3/'Amigo'. TX71A1039-V1 is a reselection of the line TX71A1039 which has the pedigree 391-56-D8/'Tasca'/'Centurk'. Selection 391-56-D8 was a sister line of the hard red winter wheat cultivar Sturdy. TAM-200 was a single-plant selection from a BC3F3 family. Yields and test weights have been higher than standard check cultivars over a wide range of environments. TAM-200 is resistant to greenbug (Schizaphis graminum Rondani) Biotype C, wheat curl mite (Eriophyes tulipae Keifer), powdery mildew (caused by Erysiphe graminis DC. f. sp. tritici Em. Marchal), and stem rust (caused by Puccinia graminis Pers.:Pers. f. sp. tritici Eriks. & E. Henn.). It is moderately resistant to leaf rust (caused by P. recondita Roberge ex Desmaz.). TAM-200 seed is maintained and distributed through the Texas Foundation Seed Service, College Station, TX 77843-2581.

TAM-200 grain yields have been greater than the standard cultivars at all locations in Texas. Average yields in 1984 and 1985 were 130, 142, 121, and 105% of TAM W-101, TAM-105, TAM 107, and 'Siouxland', respectively. Average yield of TAM-200 in the Southern Regional Performance Nursery (SRPN) in 1984-1985 was 3965 kg ha−1, which ranked 7th out of 39 total entries. In 1985, TAM-200 was the highest yielding of the 41 entries evaluated at 20 SRPN locations.

In the 1984 and 1985 SRPN, TAM-200 was 7 cm shorter and headed 1 d earlier than TAM-105. Winter survival of TAM-200 was 65%, compared with 88% for TAM-105 and 81% for 'Scout 66'. TAM-200 volume weight was 78.7 kg hL−1, whereas TAM-105 and Scout 66 hectoliter weights were 74.0 and 76.8 kg, respectively.

End-use quality of TAM-200 has been characterized as satisfactory by the Cereal Quality Laboratory at Texas A&M University. Tests conducted by the U.S. Grain Marketing Research Laboratory in Manhattan, KS, on 1984 and 1985 SRPN composites demonstrate that TAM-200 has high water absorption, average grain protein, long mixing time, high loaf volume, and acceptable overall milling and baking qualities.

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References and Notes


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