MORAN

A Rust-Resistant, High-Quality Hard Red Spring Wheat For Eastern Idaho

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A Rust-Resistant, High-Quality Hard Red Spring Wheat for Eastern Idaho[1]

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Moran (C.I. 13743)[2] is a stripe and stem rust-resistant hard red spring wheat with superior milling and baking quality. It is a suitable replacement for Thatcher in areas where Thatcher is grown under irrigation and it may also be grown as a dryland wheat in the higher rainfall areas of eastern Idaho.

It is midseason to late in maturity. At Aberdeen, Moran and Thatcher are similar in maturity; at Tetonia, Moran is 3 to 5 days later than Thatcher. As a result, the variety must be planted early in short season areas if it is to mature before fall frosts.

Moran averages 1 inch shorter than Thatcher and has slightly stiffer straw. The variety has an oblong, awnleted, mid-dense spike with white glumes. Agronomic and disease data obtained from 4 years' tests of Thatcher, Moran and Komar are given in Table 1.

[1]Cooperative investigations, Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture, and the University of Idaho Agricultural Experiment Station.
[2]C.I. refers to the accession number assigned by the Crops Research Division, ARS, USDA.

Table 1. Summary of agronomic and disease data and on dryland for 4 years.

Variety	Date headed	Height in.	Lo
Aberdeen — Irrigated			
Thatcher	6/27	40	
Moran	6/25	39	
Tetonia — Dryland			
Thatcher	7/21	36	
Moran	7/24	35	
Komar	7/18	36	

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Test weight, pounds per b

Variety	Aber-deen	St. Anthony	Twin Falls
Thatcher	60.8	61.1	61.4
Moran	59.6	59.6	60.0

Yield and Test Weight

The average yield of Moran is higher than Thatcher when the varieties are grown under irrigation in eastern Idaho. In 3 of the 4 years of dryland tests at Tetonia, Moran yielded slightly less than Thatcher. However, under the higher average rainfall obtained at Tetonia in 1967, Moran had a considerably higher yield than Thatcher and became the high-yielding variety in the 4-year average of varieties grown on dryland.

Moran has a test weight 1 to 2 pounds lower than Thatcher.

Quality

Moran has milling quality equal to Thatcher and has superior dough mixing and baking quality. Under all conditions tested, it has had a longer mixing time and a greater mixing tolerance, and has made a better loaf of bread than any other variety in local tests.

Development of Moran

Moran was selected from progeny of a cross of (No. 58 x Thatcher) x (Thatcher x Kenya Farmer) which was originally made at the Minnesota Agricultural Experiment Station. Subsequent selection among progeny was made at the Aberdeen Branch of the Idaho Agricultural Experiment Station.

ed on spring wheat varieties grown under irrigation

Rust reaction		Test weight	Yield
Stripe	Stem	lbs./bu.	bu./A.
R	R	60.8	66.0
R	R	59.6	70.3
R	R	58.9	28.6
R	R	57.3	29.5
MR	R	60.2	27.3

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	Yield, bushels per acre			
ation erage	**Aber-deen**	**St. Anthony**	**Twin Falls**	**3-Station average**
1.1	66.0	51.2	58.9	58.7
9.7	70.3	58.0	58.8	62.4

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