

## Disease and Insect:

### Stripe Rust

Both field and greenhouse tests conducted by the USDA-ARS indicate that Whit has durable, non-race specific high-temperature, adult-plant (HTAP) resistance to current predominate races of stripe rust found in the Pacific Northwest (PNW).

### Hessian Fly

Based on controlled environment insect screening trials conducted at the University of Idaho, Whit is resistant (95%) to local biotypes of Hessian fly.

### Quality

The USDA-ARS Western Wheat Quality Lab has evaluated Whit since 2004 for milling and baking properties. Whit displays good grain, milling and end-use quality, essentially equivalent to good quality check varieties such as Louise and Alturas.

In 2006 Whit was evaluated by the Pacific Northwest Wheat Quality Council, where commercial millers and bakers concluded that Whit has acceptable milling, dough handling, and baking properties and is comparable to other soft white spring wheat varieties that are currently in production in the PNW.

### Availability

Foundation seed of Whit will be maintained by the Washington State Crop Improvement Association. For seed inquiries please call (509)335-4365. U.S. Plant Variety Protection status for this cultivar is pending.



Our appreciation is extended to the dedicated personnel from Washington State University, University of Idaho and USDA-ARS for their assistance during the development of Whit. We are grateful to the Washington State Grain Alliance and the Washington State Agriculture Research Center for providing funds for this research.

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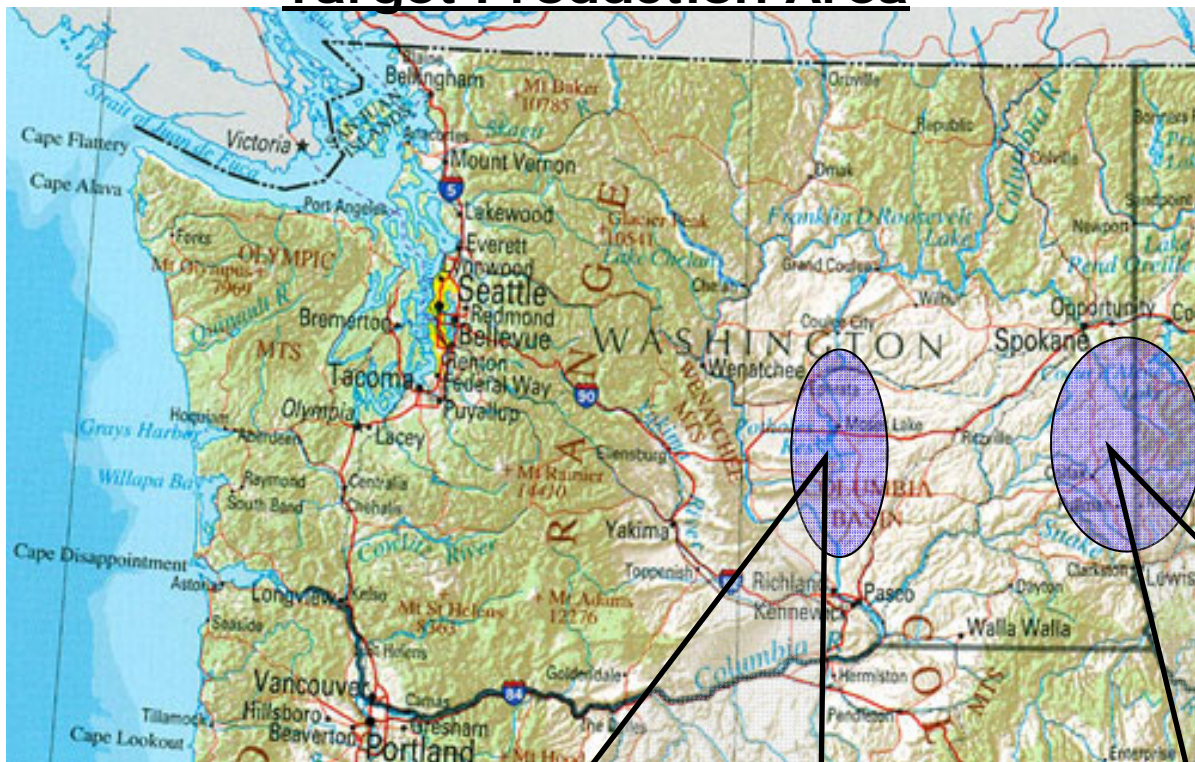


'Whit' is a new soft white spring wheat developed and released in 2008 by the Agricultural Research Center of Washington State University. Whit was named after Whitman County, which is known for its high rainfall and excellent production conditions for soft white wheat.

Whit is an awned, common, semidwarf variety with early maturity and high yield potential in the >18 inch rainfall areas of eastern Washington and northern Idaho and under irrigation.

Whit is best adapted to the Washington and Idaho Palouse region where Nick and Louise are commonly grown. Whit may also have utility in the irrigated production region of Washington State.

# Target Production Area



# Disease Ratings

	Stripe Rust	Hessian Fly	Mildew
<b>Whit</b>	R	R	MR
<b>Louise</b>	MR	MR	MR
<b>Nick</b>	MS	R	MR

R= resistant; MR= moderately resistant; MS= moderately susceptible; S= susceptible  
 Source: USDA Wheat Genetics, Quality, Physiology, and Disease Research Unit, Pullman, WA; WSU, Department of Plant Pathology, U of I Plant, Soil and Entomological Sciences.

## Average Ten Site Years Irrigated Data

	Heading Date	Plant Height (inches)	Test Weight (lbs/bu)	Yield (bu/A)
<b>Whit</b>	June 9	31	59.9	101
<b>Louise</b>	June 11	34	59.1	93
<b>Nick</b>	June 9	30	60.7	108

Source: WSU Uniform Extension Variety Testing, WSU Spring Wheat Breeding, U of I Variety Testing, U of I Wheat Breeding programs.

## Average Twenty-five Site Years >18 inch Rainfall Zone Data (Latah & Whitman County)

	Heading Date	Plant Height (inches)	Test Weight (lbs/bu)	Yield (bu/A)
<b>Whit</b>	June 25	31	58.9	67
<b>Louise</b>	June 27	34	58.3	68
<b>Nick</b>	June 25	30	58.9	66

Source: WSU Uniform Extension Variety Testing, WSU Spring Wheat Breeding, U of I Variety Testing, U of I Wheat Breeding programs.