

FACT SHEET  
**Selection OR4870453**  
HARD WHITE SPRING WHEAT  
PROPOSED NAME: Winsome  
Mary Verhoeven, Warren Kronstad, and Sanjaya Rajaram

Description

OR4870453 is a hard white spring wheat.

Pedigree and History

OR4870453 is derived from the cross: Hork's'/Yamhill//Kalyansona/Bluebird or Pfau's'. This line was selected from the 18th IBWSN (International Breed Wheat Screening Nursery) in 1985.

Area of Adaptation

OR4870453 is adapted to the higher yielding environments of the Pacific Northwest (PNW) because of its later maturity.

Disease Reaction

OR4870453 is moderately resistant to Stripe Rust (*Puccinia striiformis*) and Leaf Rust (*P. recondita* sp. *Triticii*). It is susceptible to the race complex of Stripe Rust observed in the Skagit Valley of the state of Washington.

Agronomic Data

OR4870453 is a late maturing line with a heading date averaging four days later than ID377S. It also has stiff-straw with no lodging reported.

Yield and Agronomic Traits

The major testing sites for spring wheat are Rugg's site near Pendleton and Klamath Falls. In three years of elite testing at Rugg's, OR4870453 has out-performed both Klasic and ID377S by three and 17 bushels per acre, respectively. In Klamath Falls it has out yielded Klasic by 17 bushels per acre. It was in the western regional testing program during 1990 - 1992 where it out-performed Klasic. Its average yield was three bushels less than ID377S across the locations.

Quality

OR4870453 was identified by the Wheat Marketing Center's 1995 collaborative foreign testing teams as a superior cultivar for Asian noodle production. OR4870453 scored well in the sensory evaluation as well as with the Minolta. The brightness score seems to be the most important in judging noodle sheet color across all types of Asian noodles. The brightness and its change after 24 hours are also presented in Table 7.

The Western Wheat Quality Laboratory reports on OR4870453 are presented in Table 8a,b,c. From this data it appears to have milling properties between those of Klasic and ID377S. It is suspected that post harvest sprouting is the cause of very low RVAs on OR4870453 the last two years (the comparisons with ID377S). In the previous years, the RVAs have ranged from 161 to 225 (1991-1993). In the WRSWN for 1991 and 1992, respectively, the RVAs on Klasic and ID377S were considerably higher; however, scores above 180 are acceptable.