

OREGON AGRICULTURAL EXPERIMENT STATION  
OREGON STATE UNIVERSITY  
CORVALLIS, OREGON

and

IDAHO AGRICULTURAL EXPERIMENT STATION  
UNIVERSITY OF IDAHO  
MOSCOW, IDAHO

RELEASE OF 'MALCOLM' SOFT WHITE WINTER WHEAT

The Oregon and Idaho Agricultural Experiment Stations announce the release of "Malcolm" soft white winter wheat to growers.

"Malcolm" was developed cooperatively by W.E. Kronstad, W.L. McCuistion, R.J. Metzger and N.H. Scott, OSU Crop Science Department, Corvallis, Oregon; S.R. James, Central Oregon Experiment Station, Redmond, Oregon; C.R. Rohde and M.F. Kolding, Columbia Basin Ag Research Center, Pendleton, Oregon.

"Malcolm" is a semi-dwarf, stiff strawed soft white common winter wheat. The spike is awned, oblong and mid-dense and nodding. The glumes are globorous and white with narrow shoulders and beaks. The kernels are white, midsized with a shallow crease. They are 6-8mm long and the germ is small. The awns are 3-10cm in length.

"Malcolm" was developed from a top-cross between Stephens and 63-189-66-7/Bezostaja. The cross was made in 1972 at the Hyslop Agronomy Farm. The original selection was bulked from an F5 plant row in 1977. Head rows were selected and grown at the Central Oregon Branch Experiment Station in 1983 for seed increase to provide breeders' seed.

"Malcolm" appears to be widely adapted to the irrigated winter wheat areas of Oregon, especially central Oregon. However, it should not be



recommended where the Cephalosporium stripe is a problem and areas where extreme winterhardiness is required.

"Malcolm" is better on leaf rust than the commercial cultivars now available. It is similar to "Stephens" in its reaction to stripe rust and Septoria tritici. It appears to be more resistant to mildew than "Stephens", but like "Stephens" is susceptible to Cephalosporium stripe.

The Western Wheat Quality Laboratory identified "Malcolm" as having promising overall quality for milling and baking.

The name "Malcolm" was chosen to recognize the many contributions Dr. Malcolm Johnson has made to the agriculture of Central Oregon.

Breeder and Foundation seed will be maintained by the Foundation Seed & Plant Materials Project, Oregon State University. Limited quantities of Foundation seed are available for 1985 planting from the Oregon Foundation Seed & Plant Materials Project and seed may be requested from Mr. Greg Vollmer, Manager.

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Acting Director  
Oregon Agricultural Experiment Station  
Oregon State University

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Date

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Director  
Idaho Agricultural Experiment Station  
University of Idaho

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Date

