

2012 VARIETAL RECOMMENDATION

BRENNAN

Syngenta Seeds, Inc. requests that “Brennan” hard red spring wheat be considered for variety recommendation in the state of Montana. We move that Brennan be especially considered for crop reporting districts 1 and 5 dryland and district 6 under irrigation. In consideration of its combination of early maturity and high protein, Brennan could be considered in all other crop districts as well.

Brennan was developed by Syngenta Seeds, Inc. and released to AgriPro Associates in 2009. Certified seed was available to growers in 2010. PVP was issued in 2009. It is a hollow stemmed, semidwarf, hard red spring variety that has shown good adaptation across the northern plains including several areas in Montana. Brennan was derived from the cross “Reeder//China Scab #140/N90-0690”. The pedigree of N90-0690 is “Amidon//Norseman/Coteau”. China Scab #140 is a Chinese wheat used for its fusarium head blight tolerance.

Brennan has been tested in Montana State Trials for the past three seasons. Its best performances have been in dryland trials at Kalispell and Havre, and under irrigation at Sidney. Brennan would provide growers with an improvement in yield over Kelby while maintaining Kelby’s high test weight, early maturity and high protein. It has very high test weight, higher than all checks except Volt. It has earlier heading than all checks, similar to Kelby and 2.5 days earlier than Vida. It is a short semi-dwarf, similar to Kelby in height. Protein has averaged above all checks except Kelby.

The disease resistance of Brennan has been well documented from testing in North Dakota and Minnesota. It is resistant to stem and leaf rust and has good tolerance to leaf spotting diseases. Its scab rating is intermediate which would make it a good choice for use under irrigation. In small plot trials evaluating orange wheat blossom midge infestation at the NWARC in Creston, MT, Brennan was consistently one of the least infested varieties. This is evidence of resistance by non-preference, or specifically, relative antixenosis. This could be an important consideration for growers in regions facing challenging populations of orange wheat blossom midge.

Brennan has acceptable overall breadmaking quality. It has slightly shorter mixing time and slightly lower tolerance than average.