

2012 VARIETAL RECOMMENDATION

SY TYRA

Syngenta Seeds, Inc. requests that “SY Tyra” hard red spring wheat be considered for variety recommendation in the state of Montana. We move that SY Tyra be considered for all crop reporting districts for both dryland and irrigated conditions.

SY Tyra was released to AgriPro Associates in 2011. PVP was applied for in 2011. Certified seed will be available to Montana growers for the 2012 season. SY Tyra originated from a marker assisted backcross program at Montana State University. The purpose was to convert the high yielding hollowed stemmed Syngenta/AgriPro variety “Norpro” to a solid stem background using “Choteau” as the solid stem donor. F2 seed from marker screened BC3F1 plants of the cross “Choteau/4*Norpro” were generated and transferred to Syngenta/AgriPro in 2005. Further selections on this material were made based on phenotypic stem solidness. SY Tyra has partial stem solidness. In small plot trials where sawfly infestations were prevalent at NARC in Havre, MT, SY Tyra has exhibited reduced stem cutting compared to hollow stemmed varieties.

SY Tyra has been tested in Montana State Trials for the past three seasons. It has exhibited very good yields across the state on both dryland and irrigated trials. It has very good test weight averaging 1.2 lbs above Vida. It has medium heading, slightly earlier than Vida. Height is very short, slightly shorter than Kelby. Protein is low, slightly below Volt and Kuntz and 0.4% lower than Vida.

Documentation of the disease resistance on SY Tyra has been limited to observations in the western areas. It has fair foliar disease tolerance. It is intermediate to leaf rust and moderately susceptible to stripe rust. It is susceptible to fusarium head blight. Under orange wheat blossom midge pressure, SY Tyra was one of the less infested varieties in small plot trials at NWARC in Creston, MT. This evidence of resistance by non-preference, or relative antixenosis, could be an important consideration for growers challenged by orange wheat blossom midge.

SY Tyra has acceptable overall breadmaking quality.