

2015 VARIETAL RECOMMENDATION

SY WOLF

Syngenta Seeds, Inc. request that “SY Wolf” hard red winter wheat be considered for variety recommendation in the state of Montana. We move that SY Wolf be recommended for all districts except 1 and 6.

SY Wolf is a hollow stemmed, hard red winter wheat developed by Syngenta Seeds, Inc. and released to AgriPro Associates in 2011. PVP, Title V certificate was issued in 2012. SY Wolf was derived from the cross “W99-331/97x0906-8”. It has exhibited very good relative yield in all districts with the exception of Kalispell and Sidney. Test weight is very good averaging 1 lb. heavier than Yellowstone. Its heading is medium, similar to Jagalene. It is a strong strawed, semidwarf variety with height slightly taller than CDC Falcon. Winterhardiness is average, similar to Jagalene. SY Wolf has a very good overall disease package. It is resistant to stem rust and moderately resistant to leaf rust and tan spot. It has intermediate tolerance to stripe rust. Overall quality of SY Wolf is acceptable with good protein levels, averaging slightly above Yellowstone.

SY Wolf appears well adapted to the majority of Montana growing conditions. Compared to other hollow stemmed varieties, SY Wolf would provide growers with a shorter, strong strawed plant type while still maintaining good yield levels and good overall disease resistance.

Table 1. Yield of SY Wolf vs. a set of recommended varieties, 2011-2014^{1/}

Variety	Districts							All Locations
	1 Kalispell	2 Bozeman	3 Huntley	4 Moccasin	5 Conrad	5 Havre	6- Sidney & Williston	
location-years	4	4	4	4	4	3	5	28
Colter	125.0*	90.2*	77.9*	53.0*	99.2*	65.2	62.0*	81.6**
Yellowstone	114.6*	93.4*	78.6**	54.0**	102.5**	60.4	62.3**	80.9*
Promontory	128.8**	94.7**	78.5*	47.4	94.3	57.1	49.4	78.3*
SY Wolf	98.3	87.5*	78.2*	48.9	100.2*	66.2	50.6	75.2*
Jagalene	95.7	89.3*	74.5*	47.7	98.8*	56.3	50.2	73.0
CDC Falcon	73.2	75.4	71.1*	49.1	92.6	57.2	58.2*	68.1
Broadview	56.9	73.9	68.5	47.5	96.0	61.4	59.1*	66.1
Decade	45.3	80.5	72.9*	48.4	93.0	59.7	58.0*	65.3
Ledger	79.3	73.8	65.2	43.1	86.2	57.4	45.0	63.8
Jerry	51.9	80.1	63.7	46.6	85.5	52.8	61.5*	63.5
LSD (0.05)	21.2	12.5	8.8	4.0	5.7	ns	9.4	6.7

^{1/} = includes 2011-2014 Intrastate Tests

Table 2. Agronomic characteristics of Colter vs. a set of recommended varieties, 2011-2014^{1/}

Variety	Test weight lb/bu	Winter survival %	Heading date		Plant height in	Lodging %	Protein %	Sawfly cutting %	Stripe rust %	Coleoptile length in
			Julian	Calendar						
location-years										
Broadview	58.7	42*	167.2	16-Jun	32.4	6	12.5	8	69	2.8
CDC Falcon	59.2	47*	166.3	15-Jun	31.3	1	12.4	5	64	2.9
Colter	59.7	38	168.8	18-Jun	34.2	1	12.7	11	28*	2.9
Decade	58.5	49*	165.4	14-Jun	32.7	2	13.0**	8	75	3.2
Jagalene	61.5*	26	165.0	14-Jun	32.5	3	12.3	11	44	3.3
Jerry	58.2	52**	168.0	17-Jun	37.4	6	12.7	10	78	3.2
Ledger	60.1	22	166.5	16-Jun	32.0	5	12.1	5	66	3.3
Promontory	61.6**	17	166.4	15-Jun	34.3	7	11.9	19	27**	2.7
SY Wolf	60.4	23	165.0	14-Jun	31.7	0	12.6	6	31*	3.0
Yellowstone	59.4	33	168.3	17-Jun	34.4	1	12.4	8	37*	2.7
LSD (0.05)	1.0	12	0.6		0.7	ns	0.3	5	16	0.2

^{1/} = includes 2011-2014 Intrastate Tests

Table 3. Mill and bake characteristics of SY Wolf vs. a set of recommended varieties, 2011-2013

Variety	PPO ^{1/}	Kemel hardness	Flour yield %	Flour protein %	Flour Ash %	Mixograph mix time min	Mixograph absorption %	Baking mix time min	Baking absorption %	Loaf volume cc
location-years	12	12	12	12	12	12	12	12	12	12
Broadview	0.399	74.3	64.6	11.1*	0.42	3.1	60.2	4.1	69.0	1033*
CDC Falcon	0.361	76.4	63.2	11.0*	0.44	5.9	60.5	9.4	70.8	1060*
Colter	0.299	82.1	66.9	11.0*	0.42	8.9	62.8	15.5	73.7	1023
Decade	0.317	81.5	66.4	11.3**	0.42	8.0	64.5**	16.1	74.9**	1043*
Jagalene	0.332	83.1	68.3	10.8	0.41*	4.8	59.9	7.2	70.3	1042*
Ledger	0.345	77.1	69.7**	10.7	0.41**	5.5	59.8	9.2	69.9	1029
SY Wolf	0.316	81.7	66.8	11.1*	0.41*	4.7	58.6	6.3	68.6	984
Yellowstone	0.217**	81.2	67.3	11.0*	0.43	8.7	63.2	14.2	73.7	1061**
LSD (0.05)	0.046	3.4	0.8	0.3	0.01	1	1.1	1.8	1.2	30

** = indicates highest value within a column

* = indicates varieties with values equal to highest variety within a column based on Fisher's protected LSD (p=0.05)

^{1/} low is best for noodles