Title: Spring Wheat Varietal Blend Study - 2017

Objective: To determine if agronomic difference exist among mixtures of Egan spring wheat with other varieties.

Results:

Egan was planted as a 9:1 blend with other spring wheat varieties to attain a target population of 24 plants per square foot. Stand densities were recorded on May 30. The established population was slightly lower than the target, averaging 19 plants per square foot. However, all varietal combinations had similar stand densities. High temperatures and drought conditions characterized the growing season. As a result, yields were about one-quarter of the normal long term average for this area. There were no differences noted among the variety blends for any measured variable. While the refuge system helps delay the development of resistance to the Sm1 gene, these results indicate that the varietal choice for a 9:1 blend is of little consequence with respect to agronomic performance.

Summary:

All treatments performed similarly, regardless of the varietal combination.

Table 1. Materials and Methods.

Seeding Date:	5/4/2017	Harvest Date:	8/7/2017
Julian Date:	124	Julian Date:	219
Seeding Rate:	80 lb/A	Soil Type:	Creston SiL
Previous Crop:	peas	Soil Test:	29-16-156
Tillage:	Conventional	Fertilizer:	150-30-30

Table 2. Agronomic performance of Egan blends. Kalispell, MT. 2017

Treatment	Plants per sqft	Heading Julian	Height inches	Yield bu/A	Protein %	TWT lb/bu	TKW g
Egan	19.7	176.3	20.6	23.2	16.73	56.6	30.6
Egan + Soren	17.9	177.0	20.9	25.3	16.66	56.8	29.6
Egan + Tyra	18.1	175.7	19.8	23.1	16.64	57.0	30.1
Egan + Vida	22.4	176.3	20.4	25.7	16.54	56.8	29.9
Egan + Expresso	21.0	177.7	19.6	23.4	16.49	56.8	29.7
Egan + Solano	18.3	177.7	20.4	22.8	16.75	56.8	30.1
Egan + Cabernet	18.5	176.7	20.0	21.5	16.71	56.8	29.5
Egan + WB9518	18.5	177.3	19.3	21.6	16.74	56.8	29.7
mean	19.3	176.8	20.1	23.3	16.66	56.8	29.9
LSD P=0.05	ns	ns	ns	ns	ns	ns	ns
Pr>F	0.5509	0.0891	0.9127	0.8383	0.7928	0.6397	0.6310

TWT: Test weight, TKW: 1000 kernel weight.