

Triticale Variety Trial

Summary

Triticale variety trials were conducted at two sites in 2018 to evaluate the performance of these varieties in east-central Alberta (Acadia Valley and Consort). Only two triticale varieties were tested this year. Brevis variety yielded a 92 bu/A in the Consort site when compared with Acadia Valley with an average of 67 bu/A. This increase in yield could be attributed to a higher moisture conditions (~4 inch of rain) during the growing season at the Consort site.

More information on varieties is available in the seed.ab.ca seed guide published by the Alberta Seed Industry Partnership, the www.seed.ab.ca website or the Varieties of Cereal and Oilseed Crops report on the Alberta Agriculture and Rural Development website at www.agric.gov.ab.ca. Feel free to call the CARA office with your questions.

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Project Description: Please see “Variety Trials”, page 1.

Site Information:

Table 1 **Soil Analysis**

Soil Analysis	Acadia Valley	Consort
Nitrogen* (0-24")	24 lb/A (D)	36 lb/A (D)
Phosphorus* (0-6")	12 lb/A (D)	27 lb/A (D)
Potassium* (0-6")	1200 lb/A (E)	664 lb/A (O)
Sulfate* (0-24")	13 lb/A (M)	62 lb/A (O)
Soil Salinity* (E.C.)	0.43 (G)	0.38 (G)
pH	8 (alkaline)	6.4 (neutral)
OM (%)	4.6 (normal)	2.4 (normal)
Soil Texture	Clay	Loam

* D = Deficient, M = Marginal, O = Optimum, E = Excess,

Table 2. **Precipitation 2018 (inches)**

Month	Acadia Valley	Consort
May	1.0	1.1
June	3.1	4.7
July	2.1	1.0
Aug	2.0	0.9
Total	8.2	7.7

Table 3 **Agronomic Information**

Acadia Valley/Consort	
Previous Crop	Field Peas/Canola
Seeding Date	May 17
Seeding Depth	1.5 – 2.0 inches
Seedbed Condition	Adequate moisture conditions for germination
Seeding Rate	18 plants per square foot
Fertilizer	150 lb/A of 26-18-5-3 placed between the paired seed rows
Seeder	Henderson 500 drill (5 paired rows on 11" spacing, fertilizer between rows)
Seedbed Preparation	Pre-seed glyphosate
Herbicide	Buctril M, Achieve, Turbocharge
Fungicide	None
Harvest Date	September 10

Results:Table 4 **Triticale – Acadia Valley 2018**

Variety	Yield (lb/A)	Yield (bu/A at 52 lb/bu)	Height (cm)	Bushel Weight (lb/bu)	TKW (grams)
AAC Delight	3449	66	85	59	35
Brevis	3463	67	86	62	37
Mean	3453	66	85	61	36
LSD (0.05)	NS				
C.V. %					

Comments: There were no statistically significant differences in yield between the two varieties. Mean average for the trial was 66 bu/A.

Table 5 **Triticale – Consort 2018**

Variety	Yield (lb/A)	Yield (bu/A at 52 lb/bu)	Height (cm)	Bushel Weight (lb/bu)	TKW (grams)
AAC Delight	4132	79	97	56	42
Brevis	4798	92	97	59	36
Mean	4354	84	97	58	39
LSD (0.05)	NS				
C.V. %					

Comments: There were no statistically significant differences in yield among the two varieties tested in Consort, but Brevis has an average yield of 92 bu/A. Mean average for the trial was 84 bu/A. The Consort site yielded 18 bu/A higher than Acadia Valley site.