



# Fababean Variety Trial

Location: NPARA    Trial Year: 2016  
 Investigator: Tom Fromme  
 Crop: fababean    Study Director:  
 Sponsor Contact:

### General Trial Information

**Study Director:** Nora Paulovich    **Title:** Research Manager  
**Investigator:** Tom Fromme    **Title:** Research Coordinator  
  
**Discipline:** S    varietal screening  
**Trial Status:** R    reviewed and reported    **Trial Reliability:** UNKNOWN

### Trial Location

**City:** North Star    **Country:** CAN    Canada  
**State/Prov.:** Alberta  
  
**Conducted Under GLP:** No  
**Conducted Under GEP:** No

### Crop Description

**Crop 1:** VICFX    Vicia faba    Faba bean  
**Description:** Varietal Trial  
  
**Planting Rate, Unit:** 4    P/FT2    **Planting Date:** May-7-2016  
**Depth, Unit:** 2    in    **Planting Method:** DRILLE    drilled  
**Row Spacing, Unit:** 9    in    **Planting Equipment:** DD    Disc Drill  
  
**Soil Temperature, Unit:** 16    C    **Harvest Date:** Sep-15-2016  
**Harvested Width, Unit:** 1.4    m  
**Harvested Length, Unit:** 8    m  
**Harvest Equipment:** plot harvester  
**% Standard Moisture:** 16

**Site and Design**  
**Treated Plot Width:** 1.4    m  
**Treated Plot Length:** 8    m  
**Treated Plot Area:** 11.2    m2    **Treatments:** 4  
**Replications:** 4    **Study Design:** RACOBL    Randomized Complete Block (RCB)

**Trial Comments:** Fababeans were seeded at a good, early date in 2016, in dry conditions. The remainder of the season was moist to wet, and we monitored for disease frequently. No fungicide or insecticide was applied, however, as pressure was light and damage minimal. Nodulation was affected; some were watery and clearly not healthy, but the plants were vigorous. Stands were at low population; seeding was deeper than usual and subsequent rain prevented some emergence. Finally, though, the crop performed fairly well and we were surprised at the final yields. All materials stood well through harvest and had similar maturity dates.

Variety selection is important for growers. Even though the materials represented in the trial had comparable results, producers will want to investigate their market. Non-tanin and tannin varieties have distinct end-uses.

### Maintenance

No.	Date	Maintenance Product Name	Form Conc	Form Type	Rate	Rate Unit	Tank Mix
1.	Jun-10-2016	Basagran Forte			910	mL/A	yes
2.	Jun-10-2016	Assure	0.8	EC	255	mL/A	yes

**Comment:** Alpine G22 06-22-06 @ 810 mL/A on June 10th

#### Additional Measured Elements

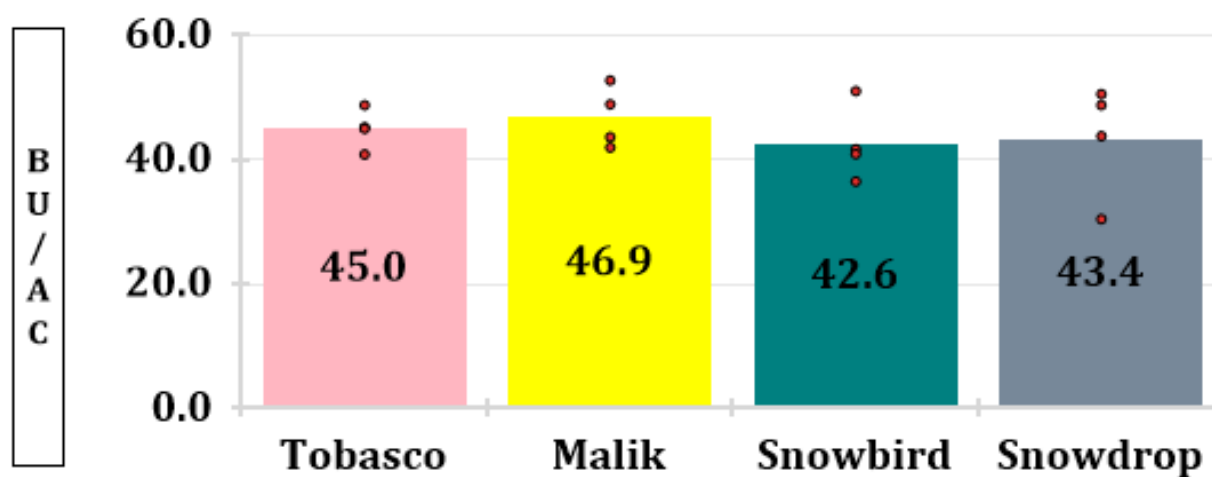
Date	Element	Quantity	Unit
May-7-2016	11-52-0-0 (phosphorus)	76	#/ac

#### Moisture and Weather Conditions

**Overall Moisture Conditions:** DRWEWE    dry-wet-wet  
**Closest Weather Station:** NPARA    **Distance, Unit:** 0.5    km

See the weather report tab for more information.

## 2016 Fababean Trial



**AOV Means Table**

Rating Date	Sep-20-2016	Sep-20-2016	Sep-20-2016
Rating Data Type	moicon	yield	YIELD
Rating Unit	%	g	BU/AC
Entry No.	3	4	5
Entry Name			
1Tobasco	19.08a	3520.38a	45.0a
2Malik	16.83a	3565.50a	46.9a
3Snowbird	16.95a	3246.88a	42.6a
4Snowdrop	17.90	3347.38a	43.4a
LSD P=.05	1.889	802.090	10.13
Standard Deviation	1.092	501.436	6.33
CV	6.2	14.66	14.24
Bartlett's X2	0.099	2.371	2.839
P(Bartlett's X2)	0.952	0.499	0.417
Skewness	0.0011	-0.8324	-0.7748
Kurtosis	-0.319	0.4681	0.7979
Replicate F	1.107	0.789	0.863
Replicate Prob(F)	0.4167	0.5298	0.4948
Treatment F	5.368	0.353	0.355
Treatment Prob(F)	0.0461	0.7885	0.7869

Rating Data Type  
 moicon = moisture content  
 YIELD = yield  
Rating Unit  
 % = percent  
 g = gram  
 BU = bushel  
ARM Action Codes  
 $TY1 = 0.0132766 * [C4] * (100 - [C3]) / 84$

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.