



Nov-18-2016

OAT VARIETY TRIAL 2016

Location: NPARA Trial Year: 2016
 Investigator: Tom Fromme
 Crop: Oats 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 Location

City: North Star **Country:** CAN Canada
State/Prov.: Alberta

Conducted Under GLP: No
Conducted Under GEP: No

Crop Description

Crop 1: AVESS Avena sp. Oats

Description: Variety Trial

Planting Date: May-7-2016

Planting Rate, Unit: 24 P/FT2

Planting Method: DRILLE drilled

Depth, Unit: 1.5 in

Planting Equipment: DD Disc Drill

Row Spacing, Unit: 9 in

Harvest Date: Sep-14-2016

Soil Temperature, Unit: 16 C

Harvested Width, Unit: 1.15 m

Harvested Length, Unit: 8 m

Harvest Equipment: plot harvester

% Standard Moisture: 14.0

Site and Design

Treated Plot Width: 1.4 m

Treated Plot Length: 8 m

Treated Plot Area: 11.2 m² **Treatments:** 13

Tillage Type: NOTILL no-till

Replications: 4

Study Design: RACOB L Randomized Complete Block (RCB)

Trial Comments: This trial was relatively disease and insect free. Folicur was tank-mixed with the in-crop Prestige herbicide application. There were a few aphids on the grains at milk stage but pressure was very light. All varieties stood well through the season to harvest.

Maintenance

No.	Date	Maintenance Product Name	Form Conc	Form Type	Rate	Rate Unit	Tank Mix
1.	Jun-21-2016	Prestige A	180	EC	314	mL/A	yes
2.	Jun-21-2016	Prestige B	4	L	700	mL/A	yes
3.	Jun-21-2016	Folicur 250 EW			202	mL/A	yes
4.	Aug-17-2016	Roundup Transorb	540		670	mL/A	

Comment: Alpine G22 06-22-06 @ 810 mL/A on June 21st

Additional Measured Elements

Date	Element	Quantity	Unit
May-7-2016	46-0-0-0 (Urea)	104	#/ac
May-7-2016	11-52-0-0 (Phosphorus)	76	#/ac

Moisture and Weather Conditions

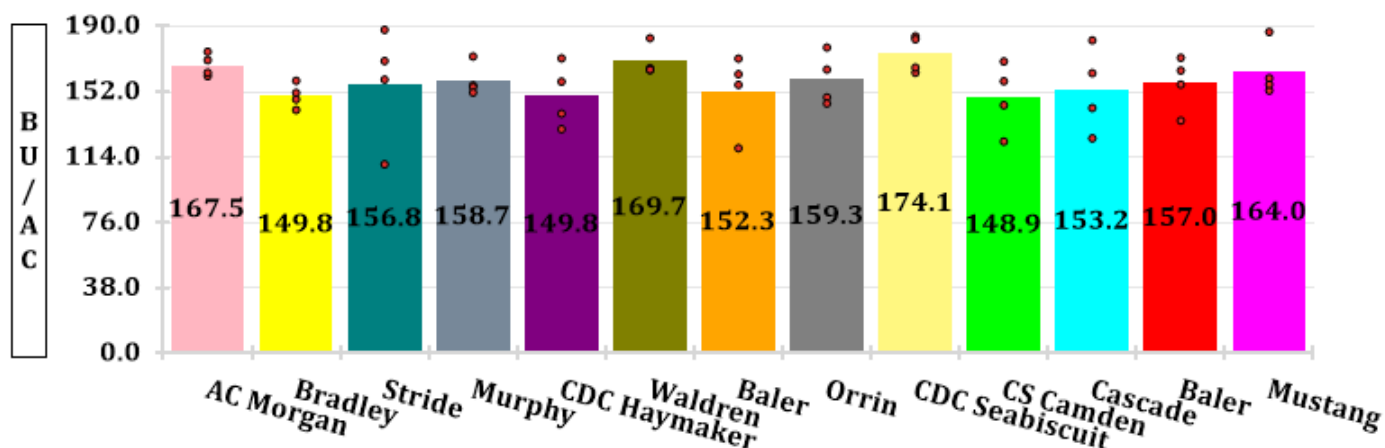
Overall Moisture Conditions: DRWEWE dry-wet-wet

Closest Weather Station: NPARA

Distance, Unit: 0.5 km

See the weather report tab for more information.

2016 Oat Variety Trial



AOV Means Table

Rating Date	May-30-2016	May-30-2016	Sep-19-2016	Sep-19-2016	TEST WT	Sep-19-2016
Rating Data Type	EMERGE	EMERGE	moicon	yield	LB/BU	YIELD
Rating Unit	MROW	MROW	%	g		BU/AC
Sample Size				1		1
Entry No.	1	2	6	7	8	9
Entry Name						
1AC Morgan	47.5a	45.5a	14.00ab	5873.75	40.500	167.5
2Bradley	47.0a	50.5a	14.05ab	5255.50a	40.240	149.8a
3Stride	51.3a	51.3a	13.93ab	5490.38a	42.280	156.8a
4Murphy	46.8a	42.5a	13.98ab	5563.75a	40.000	158.7a
5CDC Haymaker	47.3a	46.8a	13.65ab	5233.25a	36.700	149.8a
6Waldren	38.8a	33.5a	13.65ab	5925.38a	39.930	169.7a
7Baler Trt	57.5a	54.3a	13.95ab	5336.25a	38.720	152.3a
8Orrin	43.8a	43.5a	14.03ab	5585.63a	42.250	159.3a
9CDC Seabiscuit	48.8a	47.8a	14.13a	6112.00a	39.030	174.1a
10CS Camden	50.8a	51.8a	13.90ab	5213.75a	42.530	148.9a
11Cascade	42.8a	46.5a	14.13a	5377.00a	41.650	153.2a
12Baler	55.3a	52.5a	13.90ab	5497.75a	40.000	157.0a
13Mustang	58.8a	54.3a	13.60b	5723.00a	43.450	164.0a
LSD P=.05	14.04	14.30	0.292	878.186	.	25.03
Standard Deviation	9.79	9.97	0.203	610.436	.	17.40
CV	20.02	20.9	1.46	11.05	.	11.03
Bartlett's X2	17.058	8.425	8.863	10.934	.	11.65
P(Bartlett's X2)	0.147	0.751	0.635	0.449	.	0.39
Skewness	0.2197	-0.0151	-0.6513	-0.5965	-0.3894	-0.5965
Kurtosis	0.167	0.6908	0.3689	0.2754	0.119	0.3008
Replicate F	1.538	1.007	1.503	2.319		2.360
Replicate Prob(F)	0.2213	0.4011	0.2302	0.0935		0.0893
Treatment F	1.392	1.338	2.985	0.842		0.849
Treatment Prob(F)	0.2145	0.2410	0.0055	0.6010		0.5948

Rating Data Type
 EMERGE = emergence
 moicon = moisture content
 YIELD = yield
 Rating Unit
 MROW = meter of row
 % = percent
 g = gram
 BU = bushel
 ARM Action Codes
 $TY1 = 0.02852261 * [7] * (100 - [6]) / 86$

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.
 Could not calculate LSD (% mean diff) for columns 8 because error mean square = 0.