

NPARA**NP18-3 Oat Variety Trial**

Trial ID: NP18-3 Oat Variety Trial Location: NPARA Trial Year: 2018
 Protocol ID: NP18-3 Oat Variety Trial Investigator: Tom Fromme
 Crop: Other Study Director:
 Project ID: NP18-3 Oat Variety Trial Sponsor Contact:

General Trial Information

Investigator: Tom Fromme **Title:** Research Coordinator

Trial Status: E established

Trial Location

City: North Star **Country:** CAN Canada
State/Prov.: Alberta
Postal Code: T0H 2T0 **Climate Zone:** USMOU US Mountain

Conducted Under GLP: No
Conducted Under GEP: No

Investigator: Tom Fromme **Title:** Research Coordinator
Organization: North Peace Applied Research Association
Address: Box 750 **Phone No.:** (780) 836-3354
City+State/Prov: Manning
Postal Code: T0H 2M0 **E-mail:** tom@npara.ca
Country: CAN Canada

Crop Description

Crop 1: AVESS Avena sp. Oats
Planting Date: 5/14/2018
Planting Method: DRILLE drilled
Planting Equipment: DD Disc Drill
Depth, Unit: 1.5 IN
Row Spacing, Unit: 9 IN
Rows per Plot: 6
Planting Density, Unit: 28 P/FT2
Soil Temperature, Unit: 6.5 C
Harvested Width, Unit: 1.4 m
Harvested Length, Unit: 6.8 m
Harvest Equipment: plot harvester
% Standard Moisture: 14

Site and Design

Treated Plot Width: 1.4 m
Treated Plot Length: 8 m
Treated Plot Area: 11.2 m² **Treatments:** 15 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB L Randomized Complete Block (RCB)

Maintenance

No.	Date	Type	Maintenance Product Name	Rate	Rate Unit
1.	6/22/2018	MAINT	Spectrum A	40	mL/ac
2.	6/22/2018	MAINT	Spectrum B	600	mL/ac

Field Prep./Maintenance:

May 9, 2018

142 lbs/ac 46-0-0-0

123 lbs/ac 11-52-0-0

May 14, 2018

3 gal/ac Alpine G22

June 22, 2018

Alpine F16 Energy Pack 1L/ac + 25g/ac Lignigoule

Alpine Microbolt B 810 mL/ac

Alpine Copper 0.25-1 L/ac

June 25, 2018

Alleys rolled with MCPA (1.5L/ac) and Transorb (1L/ac)

Date By Notes

1/23/2019 Tom Fromme Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.

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Pest Type					
Pest Code					
Pest Name					
Crop Code	AVESS	AVESS	AVESS	AVESS	
BBCH Scale	BCER	BCER	BCER	BCER	
Crop Scientific Name	Avena sp.	Avena sp.	Avena sp.	Avena sp.	
Crop Name	Oats	Oats	Oats	Oats	
Part Rated					
Rating Date				10/1/2018	
Rating Data Type	MOICON	YIELD	YIELD	WEITES	
Rating Unit	percent	g	BU	pounds	
Sample Size, Unit		PLOT	A	BU	
Number of Subsamples	1	1	1	1	
Crop Stage Scale					
Crop Stage Majority					
Pest Density, Unit					
Footnote Number					
Assessed By					
Days After Emergence					
ARM Action Codes		ET15	TY1 ET15		
Number of Decimals			1		
Entry No.	Entry Name	1	2	3	4
1	AC Morgan	14.58 ab	5092.68 a	139.6 a	40.20
2	CDC Arborg	14.88 ab	4890.10 a	133.4 a	40.10
3	AC Stride	14.90 ab	4893.80 a	133.5 a	42.00
4	CDC Baler	15.18 a	4844.15 a	131.7 a	40.00
5	CDC Haymaker	14.38 b	4602.00 a	126.3 a	36.60
6	Waldern	14.93 ab	5427.75 a	148.0 a	40.20
7	AC Summit	14.60 ab	4536.16 a	123.9 a	43.40
8	CDC Seabiscuit	14.88 ab	4988.38 a	136.1 a	40.20
9	CS Camden	14.50 ab	4653.62 a	127.6 a	42.10
10	CDC Norseman	14.55 ab	4859.35 a	133.1 a	39.80
11	ORe3541M	14.40 b	4511.42 a	123.4 a	42.00
12	ORe3542M	14.25 b	4895.58 a	134.5 a	40.80
13	AC Ronald	14.83 ab	4784.33 a	130.6 a	43.00
14	CDC Ruffian	14.85 ab	4909.23 a	133.7 a	42.00
15	CDC Orrin	14.93 ab	5207.47	142.2	42.60
LSD P=.05	0.444	494.670	13.52	.	
Standard Deviation	0.311	344.235	9.41	.	
CV	2.12	7.1	7.1	.	
Levene's F	1.366	1.554	1.594	.	
Levene's Prob(F)	0.209	0.144	0.131	.	
Skewness	-0.3646	0.5139	0.5027	-0.982	
Kurtosis	0.0397	1.35*	1.2458	1.8406	
Replicate F	1.223	7.791	8.129		
Replicate Prob(F)	0.3131	0.0004	0.0003		
Treatment F	2.804	1.918	1.853		
Treatment Prob(F)	0.0050	0.0638	0.0743		

Crop Code
 AVESS, BCER, Avena sp., Oats = US
Rating Data Type
 MOICON = moisture content
 YIELD = yield
 WEITES = weight - test
Rating Unit
 g = gram
 BU = bushel

 PLOT = total plot
 A = acre
 BU = bushel

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.
 Missing data estimates are included in columns: Yates=2,3
 Could not calculate LSD (% mean diff) for columns 4 because error mean square = 0.

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<u>Plant-Eval Interval</u>	
140 DP-1 = 1 AVESS 5/14/2018	
<u>ARM Action Codes</u>	
ET15 = Excluded treatment 15	
TY1 = $0.02756386 * [C2] * (100 - [C1]) / 86$	

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