

# Breaking Ground (in Northeastern Ontario)

## 2007 Cochrane Soil and Crop • Oat plots

Prepared by: Daniel Tassé, OMAFRA New Liskeard and Jay Labonté (OMAFRA Summer student)

Plots at Darrel Becker, RR#1, Taylor Twp., Val Gagné, ON

- Seeded May 18, 2007-05-22
- 11.8 Acres of land seeded
- Soil Type: Hearst clay loam
- Previous crop: 6 years of Alfalfa, not sprayed with Round-Up
- Seeding rate: 100lbs./acre
- Fertilizer: 50-30-30 broadcast, done post-seeding & Harrowed
- Seed drill: John Deere drill with 7" spacer, 18 rows wide = 10 ft.

### Varieties:

Variety	Treated/Not treated	Distributor
AC Rigodon (Check)	Treated	SeCan
OAC Markdale	Treated	PRO Seeds
Jay (P8640A1-31)	Not treated	Belterre
Goslin	Treated	Hyland Seeds
AC Aylmer	Treated	Advantage Seed Growers
AC Francis	Not treated	SeCan
Alcyon	Treated	Advantage Seeds Growers
Nice	Not treated	La Coop Fédérée
Triple Crown	Treated	La Coop Fédérée
Fjord	Treated	La Coop Fédérée
SW Exactor	Treated	Bonis & Company Ltd.

### Plot Layout and information

Varieties Plants Population June 14th Height August 27th

Varieties	Plants Population June 14th	Height August 27th
AC Rigodon (check #1)	30 plants / meter of row	37 inches
OAC Markdale	27 plants / meter of row	38 inches
Jay	38 plants / meter of row	25 inches
Goslin	30 plants / meter of row	36 inches
AC Rigodon (check #2)	32 plants / meter of row	38 inches
AC Alymer	35 plants / meter of row	36 inches
AC Francis	36 plants / meter of row	36 inches
Alcyon	37 plants / meter of row	44 inches
AC Rigodon (check #3)	29 plants / meter of row	39 inches
Nice	36 plants / meter of row	40 inches
Triple Crown	32 plants / meter of row	38 inches
Fjord	39 plants / meter of row	42 inches
AC Rigodon (check #4)	30 plants / meter of row	42 inches
SW Exactor	43 plants / meter of row	29 inches

Note: Plots are 66 feet in width = ¾ of acre Continued on page 9



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At Darrel Becker

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### Harvest Information

Harvest date: September 16th-17th, 123 days after planting

Notes: the plots could have been harvested probably 10 days sooner however the weather was unsettled. Bear damage were visible at the north end near the bush. Some varieties had more damage than others.

Varieties	Moisture at harvest %	Yield adjusted at 13.5% moisture		Bushel weight Lbs /bushel	Thousand Kernel Weight (grams)
		t/ac	bus/ac		
AC Rigodon (check #1)	14.3%	1.22	79	38 lbs	45
Markdale	14.5%	1.34	87	37lbs	38
Jay	14.7%	1.17	76	38 lbs	31
Goslin	14.6%	1.14	74	36 lbs	30
AC Rigodon (check#2)	14.2%	1.32	85	38 lbs	36.5
AC Alymer	14.5%	1.09	71	37 lbs	44
AC Francis	14.9%	1.20	78	37 lbs	42
Alcyon	14.8%	1.23	80	38 lbs	36.5
AC Rigodon (check#3)	14.1%	1.32	85	38 lbs	36
Nice	14.8%	1.31	85	37 lbs	38
Triple Crown	14.6%	1.4	91	36 lbs	34
Fjord	14.8%	1.27	83	36 lbs	36
AC Rigodon (check#4)	14.2%	1.22	80	38 lbs	40
SW Exactor	14.2%	1.24	80	36 lbs	35.8
Average of check 1,2,3,4	14.2%	1.27	82	38lbs	39
*Range 10% of check		1.14-1.39	74-90		
<b>Average of plots</b>	<b>14.5%</b>	<b>1.25</b>	<b>81 bus</b>	<b>37 lbs</b>	<b>40 grams</b>
Range of plots	14.1-14.8%	1.09-1.40	71-91	36-38	30-45

- Plot variability is within suitable limits. The 4 checks are within the 10% range of their average. The acceptable range is 1.14-1.39 tonnes per acre. Standard bushel weight for oats 34 lbs per bushel.
- The plots were weighed with Temiskaming Crop Coalition weigh wagon
- Bushel weight and thousand kernel counts were done in the agronomy lab of the New Liskeard Ag Research Station.



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