HARTING (in Northeastern Ontario)

2008 Cochrane oat plots

- The objectives of this project; to evaluate different seeding rates of oats and their impact on yield and quality
- 1. lower seeding rate: target 200 plants/ m2 (or 800,000 seeds/ac)
- 2. medium seeding rate: target 250 plants/ m2 (or 1M seeds/ac)
- 3. higher seeding rate: target 300 plants/ m2 (or 1.2Mseeds/ac)

OMAFRA recommendations between 200-300 plants/m2

We also split the plots in two to evaluate 2 nitrogen rates; lower rate 45lbs and higher rate 65lbs of actual N

Seed size information



- AC Rigodon 22,049 seeds/kg and 45.5 grams TKW
- Triple Crown 26,693 seeds /kg and 37.5 grams TKW
- OAC Markdale 21,758 seeds /kg and 41.6 grams TKW
- Lachute 20,448 seeds/kg and 44.5 grams **TKW**
- * This information is useful before you seed not too much after the work is done!

Recommended seeding rates

	O			
Variety	Seeds /lbs	Low (800,000/ac)	Med (1,000,000)	High (1,200,000)
AC Rigodon	10,022	100lbs/ac	120lbs/ac	140lbs/ac
OAC Markdale	10,879	90lbs/ac	110lbs/ac	130lbs/ac
Triple Crown	12,084	80lbs/ac	100lbs/ac	120lbs/ac
Lachute	10,224	90lbs/ac	120lbs/ac	140lbs/ac

Field variability Adjusted to a moisture level of 13.5%

Treatment	Higher N rate			
	Yield per acre			
AC Rigodon 110 ck1	2,258 lbs or 1.02T			
OAC Markdale-110	2,703 lbs or 1.23 T			
Triple Crown – 110	2,703 lbs or 1.23 T			\
Lachute – 110	2,661 lbs or 1.21 T			
Ac Rigodon- 110 ck2	2,854 lbs or 1.29 T		4	
AC Rigodon -120 lbs	3,145 lbs or 1.43 T			
OAC Markdale -120	2,722 lbs or 1.23 T			
Triple Crown – 120	2,845 lbs or 1.29 T			/
Lachute- 120	2,517 lbs or 1.14 T			
AC Rigodon 110 ck3	2,855 lbs or 1.29 T			[/
AC Rigodon- 130	2,614 lbs or 1.18 T	¥		/
OAC Markdale-130	2,473 lbs or 1.12 T			/
Triple Crown- 130	2,642 lbs or 1.20 T		/	
Lachute- 130	2,462 lbs or 1.17 T	1		
AC Rigodon 110ck4	2,467 lbs or 1.12 T			
Average of plots	2,608 lbs or 1.18 T		1	

Canola Plots at Ferguson farms

2 608 lbs

acceptable

Therefore

- Field information;
- 45 acres tilled at 50ft
- 2-4 acres plots
- 2007 wheat, chiselled
- pH 7.4, phosphorous 35, potassium 137, Magnesium 526
- Seeded with 20' great plain with 5gal/ac 6-24-6 Alpine
- 200 lbs of 46-0-0 at seeding
- 100lbs of ammonium sulphate applied June 9th



Average of the 4 checks =

+/- 10 % variability is

90% of 2,608= 2,347 lbs

110% of 2,608= 2,868 lbs

Nitrogen rates -conclusions

acre for the best economical yield.

Seeding rates - conclusion

• seed cost per acre were higher

tions

• Most of the seeding rates were above

no yield advantage to increase seeding

rate. The plots confirmed that we should

aim at the 800,000 - 1,200,000 seeds per

the OMAFRA / research recommenda-

- Cost of Nitrogen \$612 per tonne (\$15.27/ bag) for $34-0-0\ 2,205 \times 34\% = 750$ lbs actual N = \$.82/lb
- Higher rate 200lbs of 34-0-0 = 68lbs of N, cost \$56/acre average yield was 2,608
- Lower rate was 130lbs of 34-0-0 = 45lbs of N, cost \$37/ac Average yield was 2,001

Conclusion: extra N cost \$19 per acre more for an additional yield of 607 lbs. If oats are trading at \$245 per tonne (\$.11/lb) = \$66/ac -\$19 fertilizer = net \$48/acre

Quality? Excellent!

Variety	Grade	Average moisture at harvest %	Average bushel weight
AC Rigodon	#2	15.3%	45lbs
OAC Markdale	#2	15.6%	44lbs
Triple Crown	#2	15.6%	43lbs
Lachute	#2	15.4%	43lbs

Standard test weight for oats; 34lb/bu at 13.5% moisture

Canola Plots at Ferguson farms

	Dekalb 71-45RR	Dekalb 72-55RR	Dekalb 71-25RR		
Plot size	4 acres	4 acres	37 acres		
Seeding date	June 7 th 2008				
Herbicide	1/2 litre Round-up June 24th				
Swathing date	September 11 th				
Combine date	October 13 th				
Yield (adj. @10%)	2,150lbs	2,048lbs/ac	1,771lbs/ac		
Moisture at harvest	11.3%	9.6%	10.2%		
Dockage	2.9%	1.4%	3.9%		
Test weight	50.2lbs/bushel	51.4lbs/bushel	51.7 lbs /bushel		

ALGOMA CANOLA YIELD

Certified Crop Advisor Terry Phillips reports that Desbarats grower Paul Oikari undertook a Canola trial this past summer with three Dekalb products. The results are as follows:

Dekalb 71-25: 1.333 mt/ac (2933.33#/ac) Dekalb 72-55: 1.360 mt/ac (2992.47#/ac) Dekalb 71-45: 1.290 mt/ac (2838.71#/ac) In all three cases, yields were recorded on harvested strips measuring 28' X 578' (.372 ac). For more information, contact Paul at 705-782-6823.