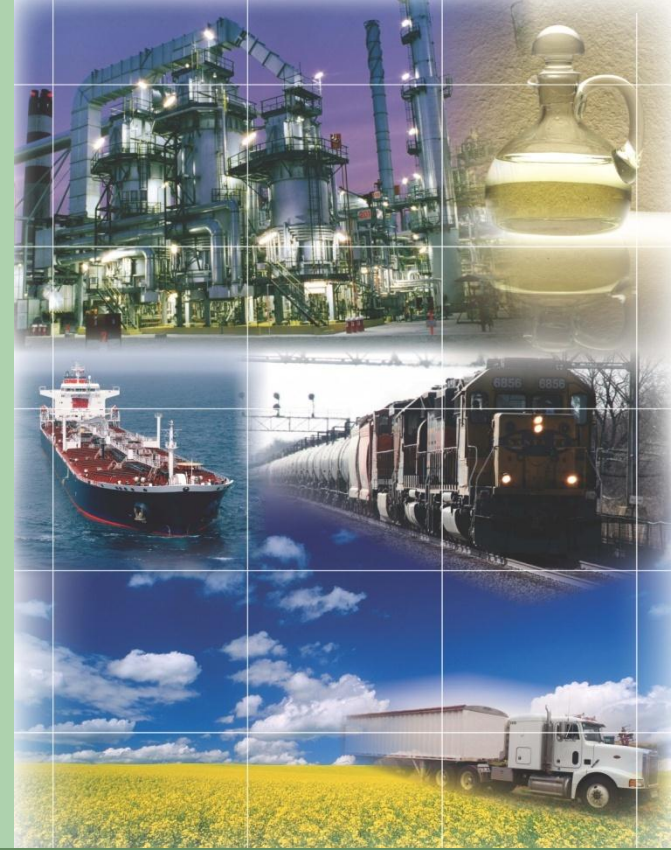




TRT ETGO Oilseed Crushing plant

By : Étienne Tardif, agronomist



TWIN RIVERS TECHNOLOGIES

- ☐ Canola and soybean swing crushing plant
- ☐ Food grade Oil refinery
- ☐ Located within Industrial Park of Bécancour, Quebec
- ☐ The plant is owned and operated by TRT ETGO

Crush capacity

- ☐ 3000 T/day
- ☐ 1 000 000 T/Year



PARTNERS IN THE PLANT



Felda

- ☐ *Federal Land Development Authority*
- ☐ Malaysian government agency (created in 1956)
- ☐ Work Mainly in palm oil industry in Malaysia
 - Owned and crop over 2 millions acres of land
- ☐ Became the sole investor of ETGO in December 2007
 - Around 200 millions dollars investment
- ☐ Felda Owned and Operated TRT ETGO crushing plant



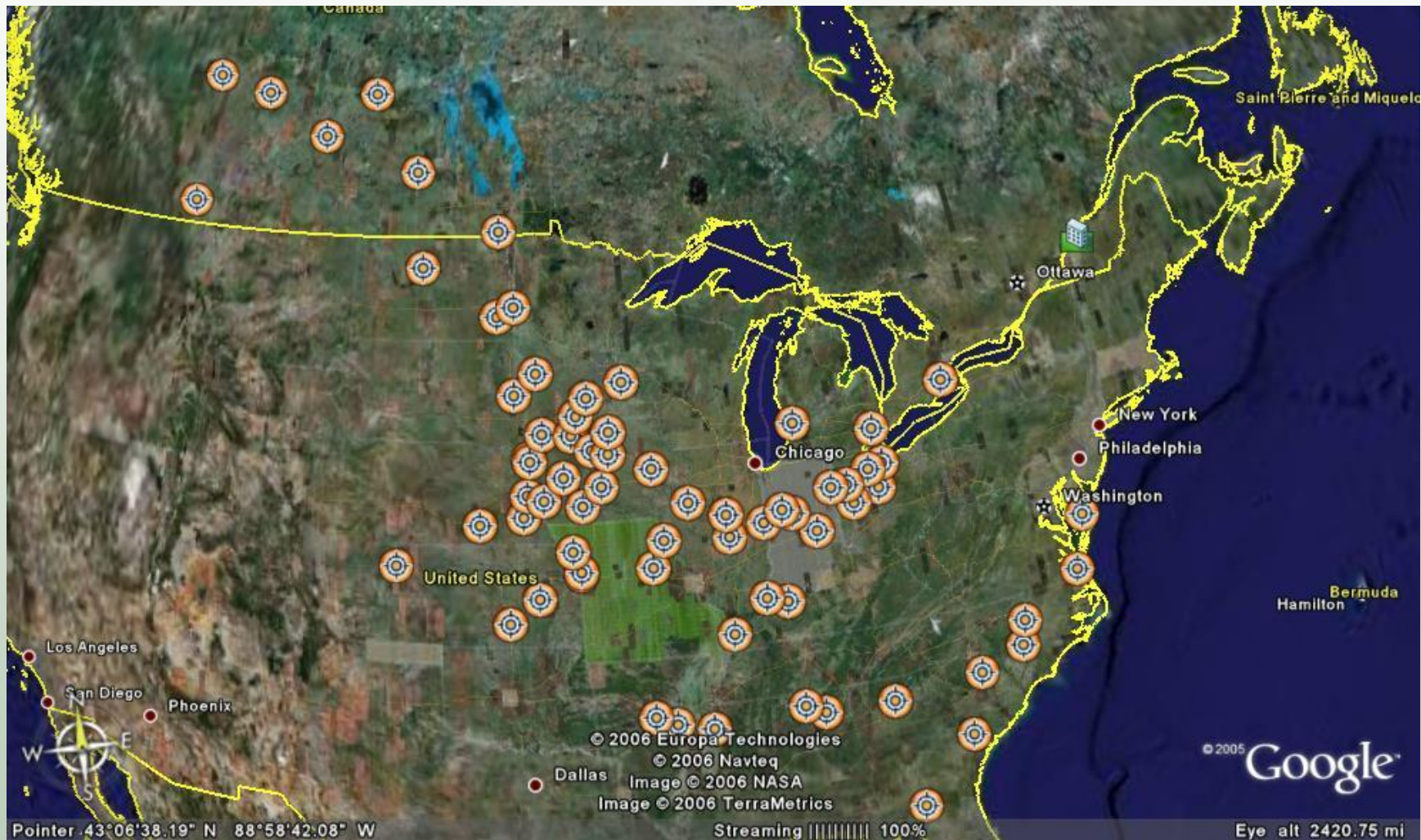
PARTNERS IN THE PLANT



- New Joint Venture with Bunge Canada
 - Created in mid December 2011
- The JV is responsible of commercial aspect for
 - TRT ETGO, Bécancour crushing plant
 - Bunge, Hamilton crushing plant
 - Take care of seed supply for both plant
 - Sales Oil, Meal and Hulls
- All commercial activity are done from Oakville office in Ontario



NORTH AMERICA OILSEED CRUSHING LOCATION



WHY BÉCANCOUR?



AIR PICTURE SUMMER 2011

CONSTRUCTION SITE



ECODA RESEARCH

Overall budget over 4 millions \$

- ☐ Split half and half with soybean and canola
- ☐ 3 years grant

General objective:

- ☐ Build knowledge of oilseed crop for Eastern Canada
- ☐ Have good communication plan
 - Wide results distribution
- ☐ TRT will focus on Canola work
- ☐ Put 500 000\$ cash in canola work
 - Create a pool of data for eastern canola crop
 - Put the basis for longer term work on canola

RESEARCH CENTER INVOLVE



University

- ☐ McGill, Laval, Guelph, Manitoba



Nova Scotia Agricultural College



AAFC research Station

- ☐ Charlottetown, Fredericton, Normandin, Ottawa



New-Brunswick Government



CEROM



DIFFERENT ACTIVITY

Project	Project title	Start time	End time
B1	Development of high-oil canola varieties for Eastern Canada	Winter 2011	Winter 2013
B2	Improve quality of canola oil	Spring 2011	Winter 2013
B3	Disease management	Spring 2011	Winter 2013
B4	Insect management	Spring 2011	Winter 2013
B5	Best nutriment management practices	Spring 2010	Winter 2013
B6	Canola best management practices	Spring 2010	Winter 2013

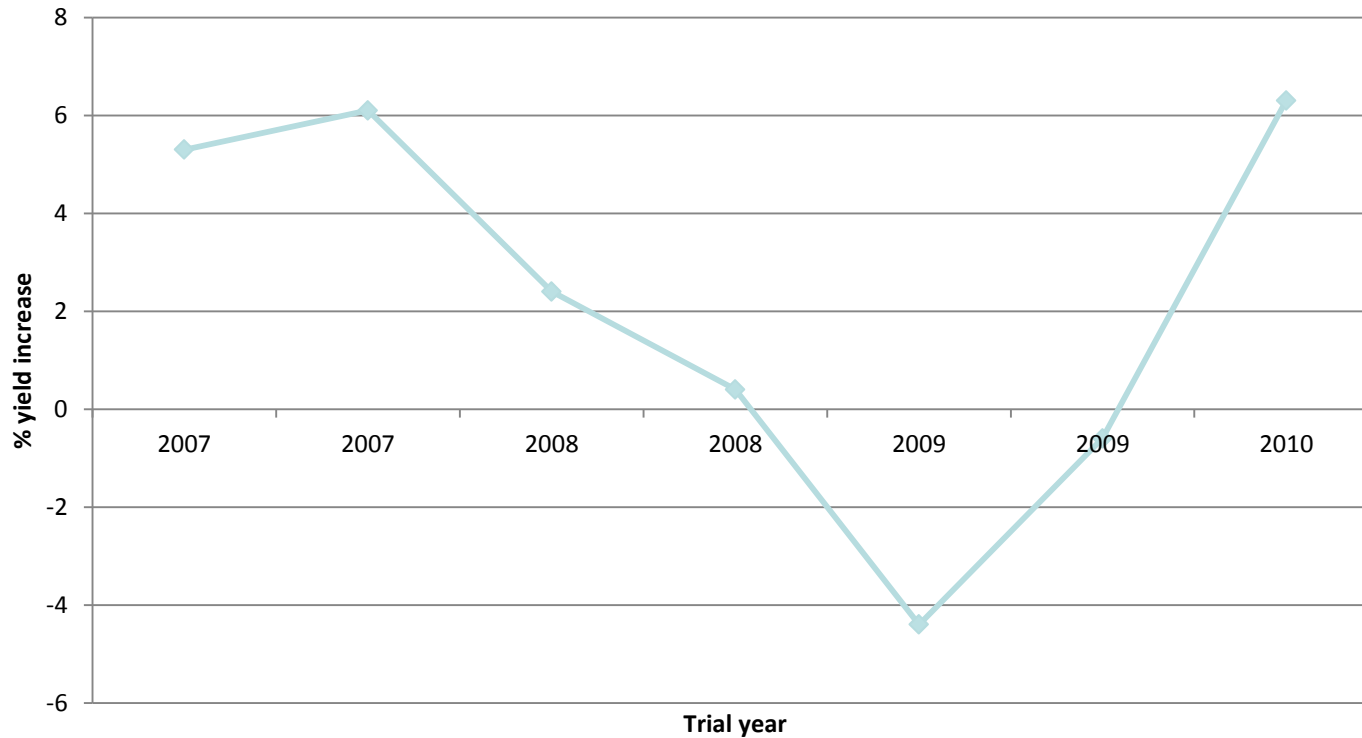


OIL QUALITY PROJECT



University of Guelph, Ontario

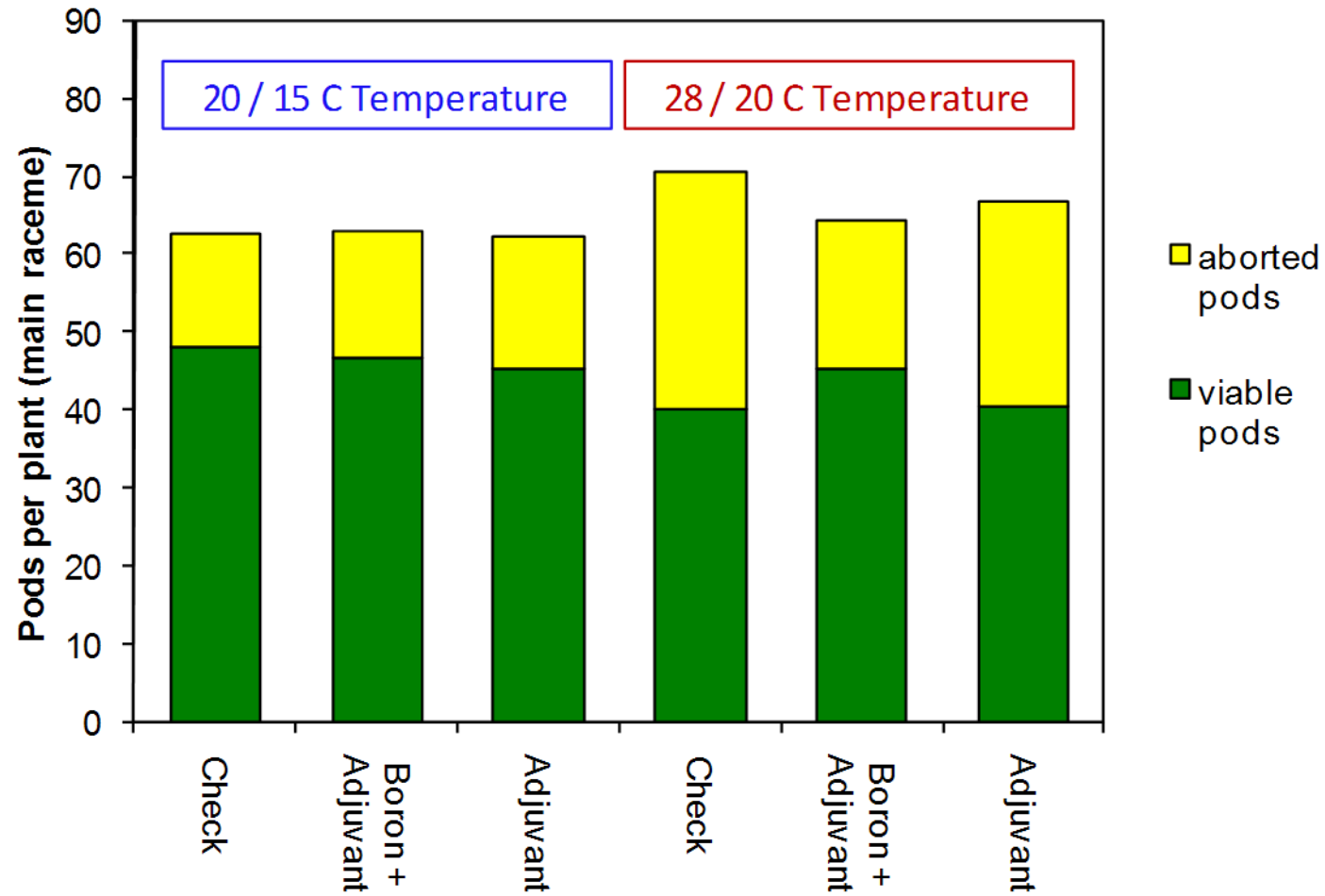
Yield increase with Foliar Boron



- 2007 and 2010 Hot summer
- 2008 and 2009 Cooler summer



Oil Quality Project Guelph



DISEASE MANAGEMENT CHARLOTTETOWN



No statistical difference from any treatment against control

☐ Some treatment higher than Abound and Quadris

Testing fungicide spray for the management of stem rot

Treatment	Sclerotinia Incidence Infected Plants (%)	Severity Infected Plants (1-9)	Yield (kg/ha)	Seed weight (g/1000)
Control	0.83	8.50	2327	2.745
Tilt	1.25	8.38	2539	2.750
Quadris	0.00	9.00	2210	2.782
Abound	2.50	8.25	2278	2.788
Lance	0.00	9.00	2391	2.815
Proline	0.83	8.50	2560	2.804
Astound	1.67	8.50	2301	2.757
Headline	0.83	8.50	2533	2.768
Headline + Lance	0.00	9.00	2540	2.855
LSD(0.05)	ns	ns	282	ns



DISEASE MANAGEMENT NORMANDIN



No Statistical difference between treatment

	5440	5020	5030
Check	3706	3548	3806
Lance	3670	3572	3787
Proline	3907	3419	3867
Prosaro	3877	3720	3905
Serenade	3795	3493	3843
Astound	3712	3864	3645



Rotation is still the best way to avoid disease

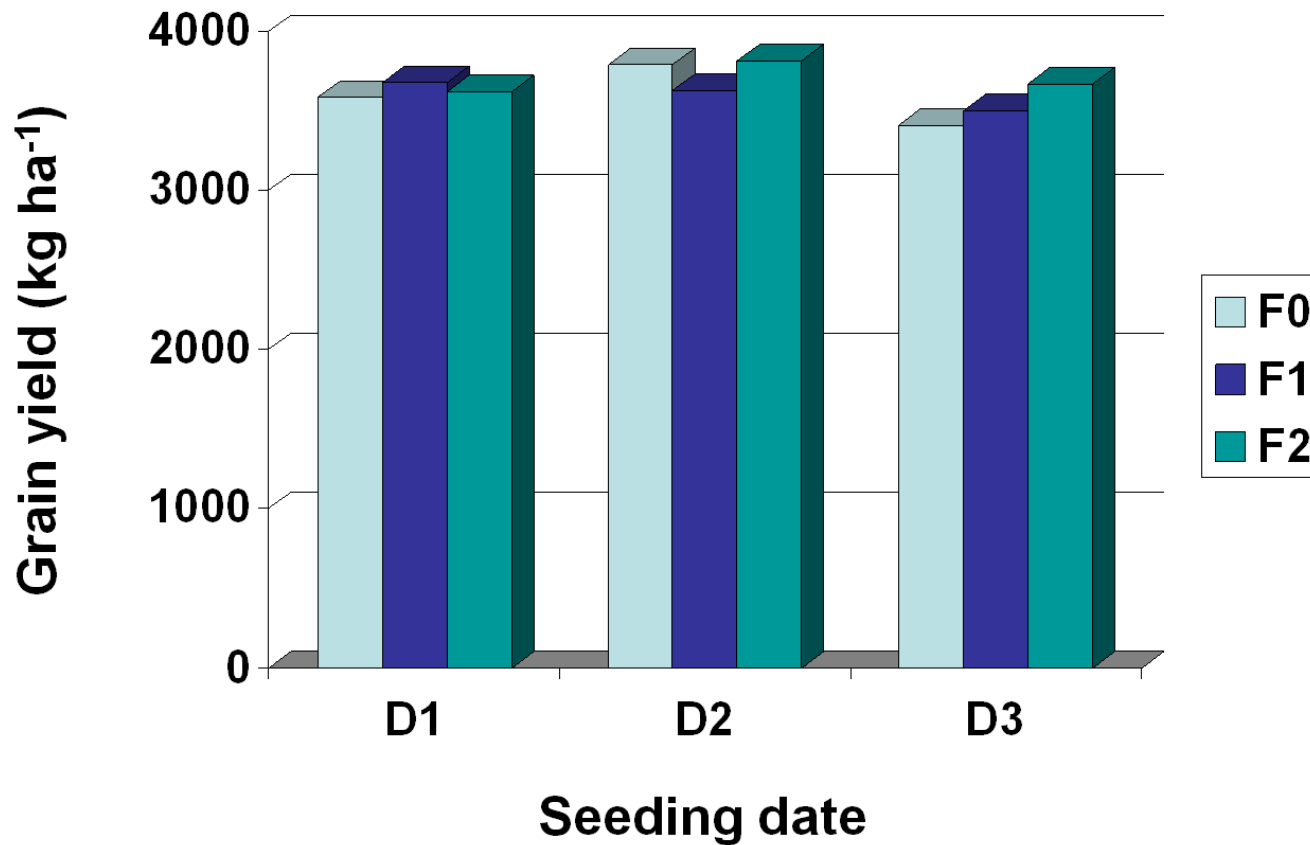


INSECT MANAGEMENT Normandin

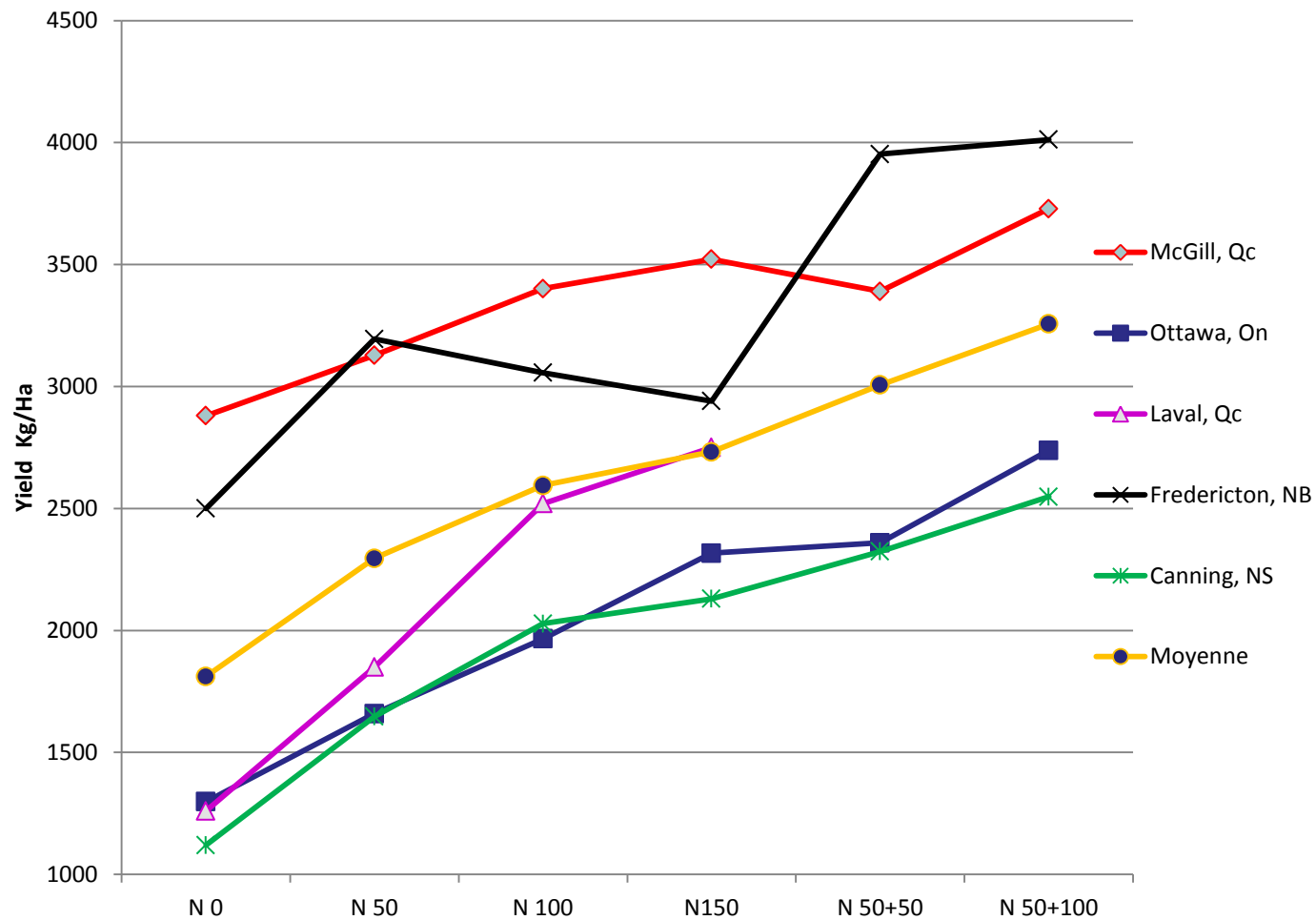


Effect of Seeding date and Insecticide application

□ against flea beetle on grain yield

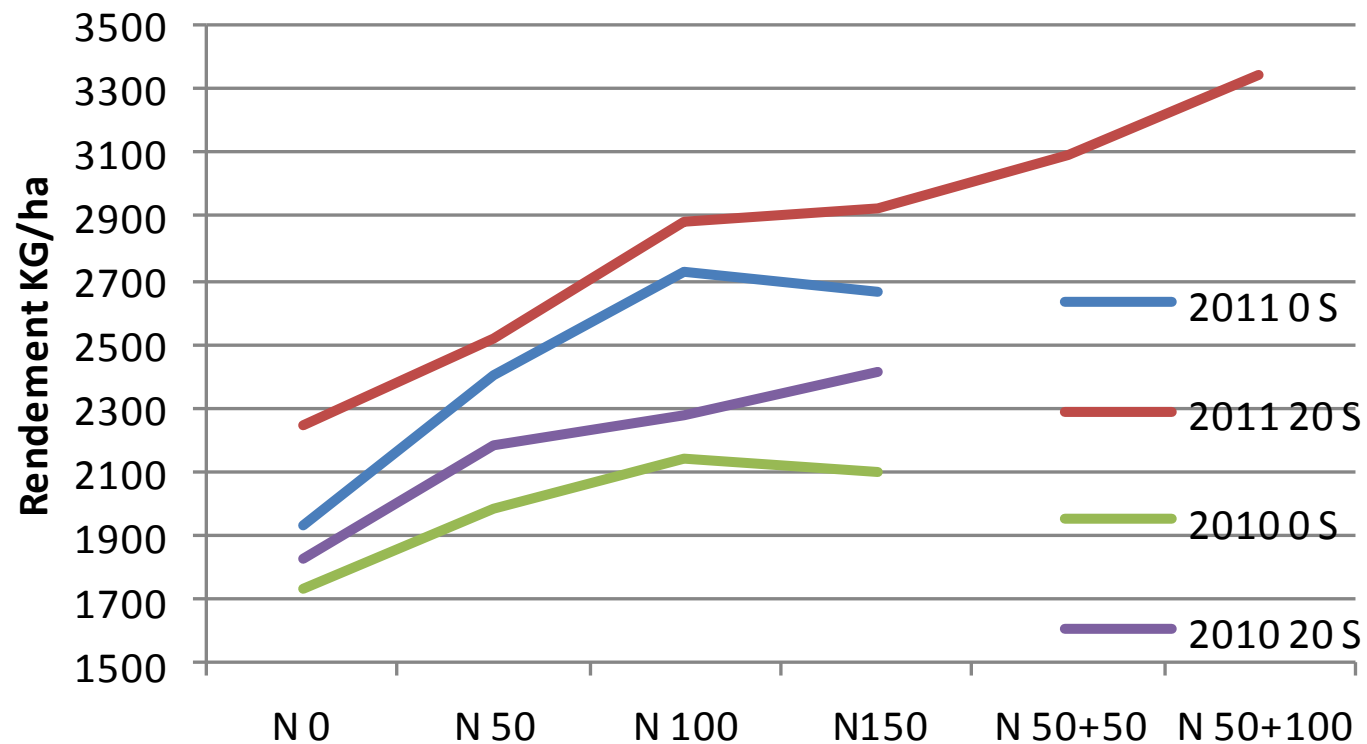


EFFECT OF N FERTILIZATION ON YIELD



N AND S INTERACTION ON YIELD

Rendement en fonction de N et S



COST OF PRODUCTION

Budget produce by Guy Beauregard , agro economist production cost

	crop yield (T/ha)	S. Canola 2	W. Canola 3	Soya RR 3	Barley 3,5	Oats 3,1	Wheat 3,6	Corn 10
	yield (T/ac)	0,81	1,21	1,21	1,42	1,26	1,46	4,05
	Price \$/T	570,00	570,00	465,00	180,00	175,00	260,00	220,00
A-/Product								
Grain		1140,00	1710,00	1395	630,00	542,5	936	2200
straw		185	185		125	125	125	
Total		1325,00	1895,00	1395	755,00	667,5	1061	2200
B-Disbursement								
B-1 Supply								
Seed		116,84	116,84	247,14	149,85	100	174,8	222,17
Royalty 15\$/ac		43,3		16,96				
Fertilizer		189,53	189,53	144,13	169,85	143,99	212,39	238,51
Side-dress fertilizer		64,52	150				67,6	159,1
Lime		11,1	11,1	7,4	11,1	11,1	11,1	18,5
Pesticides/Herbicides		6,25	6,25	10,44	17,97	10,77	52,25	20,88
Total		431,54	473,72	426,07	348,77	265,86	518,14	659,16
B-2 Opérations culturales/crop operations								
Ploghing (4 or 5 harrow)		50,8	50,8	63,23	50,8	50,8	50,8	63,23
heavy harrow		10,59	10,59	10,59	10,59	10,59	10,59	10,59
Cultivator		8,38	8,38	8,38	8,38	8,38	8,38	8,38
Fertilizer spread		7,12	7,12	3,56	3,56	3,56	7,12	15,25
Seeder		19,92	19,92	19,92	19,92	19,92	19,92	19,51
Spraying		4,07	4,07	4,58	4,58	4,07	9,16	9,16
Stone removal				30,61				
Swathing		9,18	9,18	6				
Combine		36,96	36,96	40,3	33,01	33,01	33,01	38,3
Field transport		3,24	3,24	4,21	4,95	5,01	5,46	14,23
Field to bin transport		3,24	3,24	4,21	4,95	5,01	5,46	14,23
Total		153,5	153,5	195,59	140,74	140,35	149,9	192,88
Total Disbursement (B)		585,04	627,22	621,66	489,51	406,21	668,04	852,04
C-Margin (A-B)		739,96	1267,78	773,34	265,49	261,29	392,96	1347,96



Questions?

Contact me at 819 294-1342

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