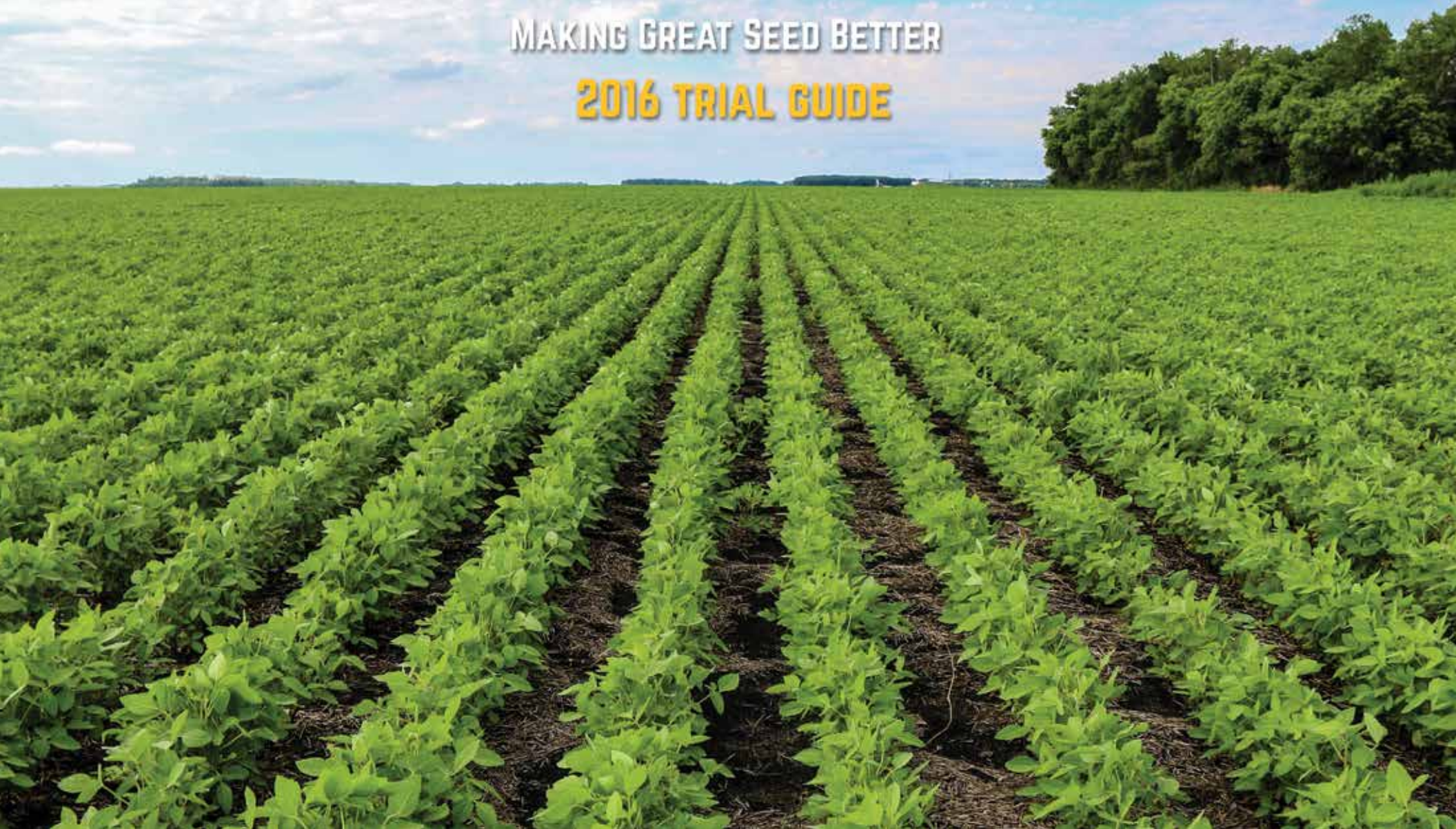




MAKING GREAT SEED BETTER

2016 TRIAL GUIDE







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We offer the best varieties in the industry exclusive to our dealer network, and combined with the most innovative inputs, we can provide the grower with the highest returns.

Our extensive third party replicated plot trials and strip trials prove again and again that our dealers can offer optimal solutions for soybean production.

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Prograin has a clear mission; to develop, condition, process and efficiently market soybeans of superior quality in order to satisfy the specific needs of our agricultural and commercial clientele. Prograin has a commitment to excellence and integrity, respect for people (employees, suppliers, customers and partners) and an ethical way of doing business. Quarry Seed shares and embraces these values as well; we are a proud Canadian company committed to our dealers and producers. Together, we strive to exceed our customer's expectations in all ways.

Personalized service, extensive research, and a knowledgeable dealer network makes Quarry Seed Western Canada's premier soybean distributor, and Prograin has entrusted us with their best.









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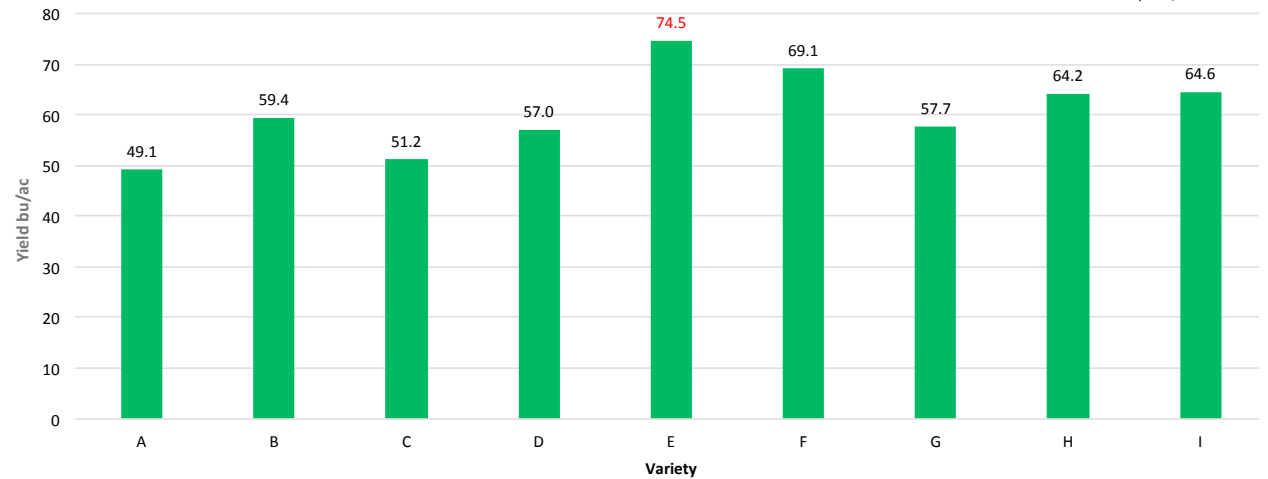


# 2016 VARIETY TRIALS

## CARMAN, MB TRIAL 2016 Planting Date: May 21<sup>st</sup> 2016

\*Yield is based on a 13% moisture content  
\*3<sup>rd</sup> party trial data










	Variety	Yield	Maturity
A	 Dario R2X (2250)	49.1	119
B	 Dekalb 23-60RY (2350)	59.4	119
C	 Kosmo R2 (2450)	51.2	120
D	 Torro R2 (2325)	57.0	122
E	 <b>Dylano R2X (2450)</b>	<b>74.5</b>	<b>126</b>
F	 Dugaldo R2X (2475)	69.1	128
G	 NSC Richer RR2Y (2475)	57.7	128
H	 Kendo R2 (2500)	64.2	133
I	 Domingo R2X (2525)	64.6	133

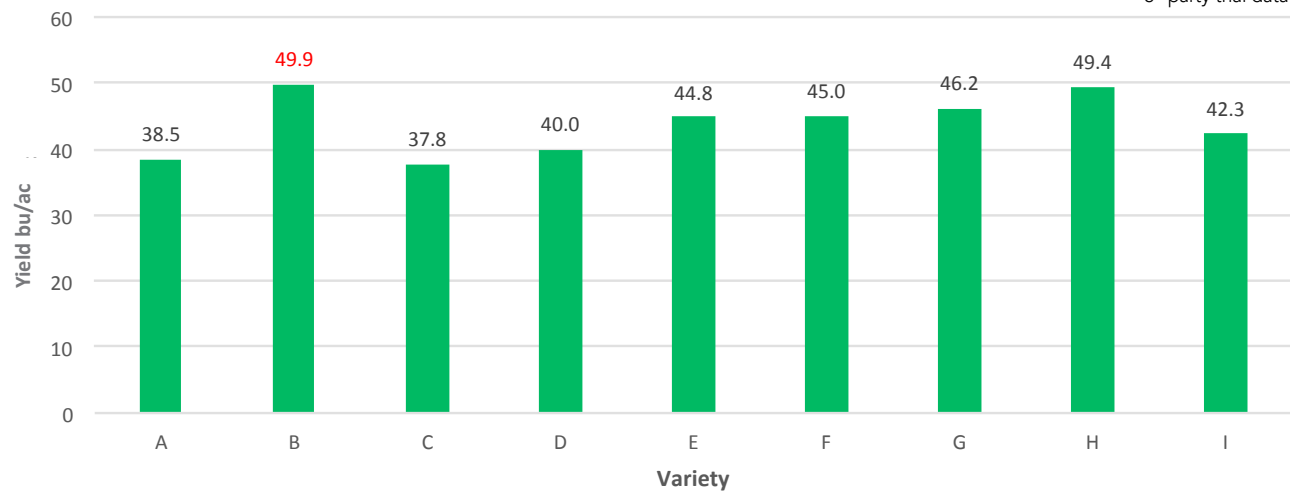


Early Maturing Varieties: Dario, Kosmo and Torro were lower than 23-60 in the Carman area; but very early maturing varieties are not normally recommended to grow in a full season area.  
Mid Maturing: Dugaldo, Dylano and Domingo express very high yield potential.

## OAKVILLE, MB TRIAL 2016 Planting Date: May 20<sup>th</sup> 2016

\*Yield is based on a 13% moisture content  
\*3<sup>rd</sup> party trial data

	Variety	Yield	Maturity
A	 Dario R2X (2250)	38.5	107
B	 <b>Torro R2 (2325)</b>	<b>49.9</b>	<b>109</b>
C	 Dekalb 23-60 RY (2350)	37.8	116
D	 Kosmo R2 (2450)	40.0	119
E	 Dylano R2X (2450)	44.8	124
F	 Dugaldo R2X (2475)	45.0	126
G	 NSC Richer RR2Y (2475)	46.2	127
H	 Domingo R2X (2525)	49.4	128
I	 Kendo R2 (2500)	42.3	129












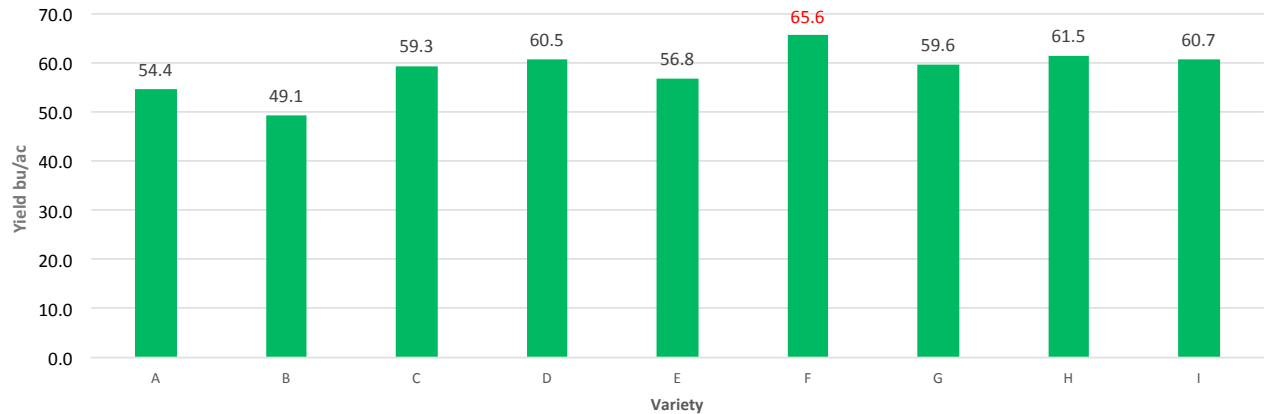
Both Torro and Dario matured much earlier than 23-60 and yield much higher. In fact, Torro was highest yielding with the second earliest maturity in a full season area. Dylano, Dugaldo and Kosmo were respectable for their maturity.

# 2016 VARIETY TRIALS

**OAKBLUFF, MB TRIAL 2016** Planting Date: May 18<sup>th</sup> 2016

\*Yield is based on a 13% moisture content  
\*3<sup>rd</sup> party trial data

	Variety	Yield	Maturity
A	 Kosmo R2 (2450)	54.4	114
B	 Dario R2X (2250)	49.1	115
C	 Dekalb 23-60 RY (2350)	59.3	118
D	 Dylano R2X (2450)	60.5	119
E	 Torro R2 (2325)	56.8	121
F	 <b>Dugaldo R2X (2475)</b>	<b>65.6</b>	<b>122</b>
G	 Domingo R2X (2525)	59.6	125
H	 NSC Richer RR2Y (2475)	61.5	126
I	 Kendo R2 (2500)	60.7	129

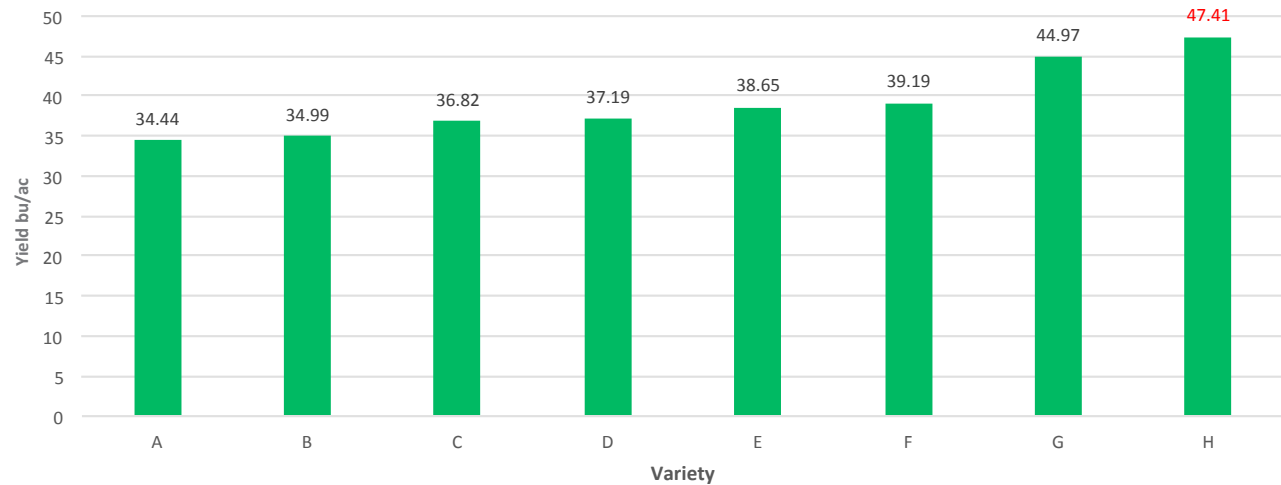


Mixed results: meaning results were not totally consistent to what we normally saw. 1) Normally Torro North of Highway #1 is very early and out yields 23-60 but not in this trial. 2) Kosmo is normally a bit later than Torro and 23-60 but definitely earlier in this one. 3) Dylano and Dugaldo yield again the highest, this was consistent to other trials.

**TEULON, MB TRIAL 2016** Planting Date: June 7<sup>th</sup> 2016

\*Killing frost on September 30<sup>th</sup>  
\*Yield is based on a 13% moisture content  
\*3<sup>rd</sup> party trial data

	Variety	Yield
A	NSC Watson RR2Y (2250)	34.44
B	 Dylano R2X (2450)	34.99
C	 Kendo R2 (2500)	36.82
D	 Dario R2X (2250)	37.19
E	 Domingo R2X (2525)	38.65
F	 Torro R2 (2325)	39.19
G	 Kosmo R2 (2450)	44.97
H	 <b>Dugaldo R2X (2475)</b>	<b>47.41</b>



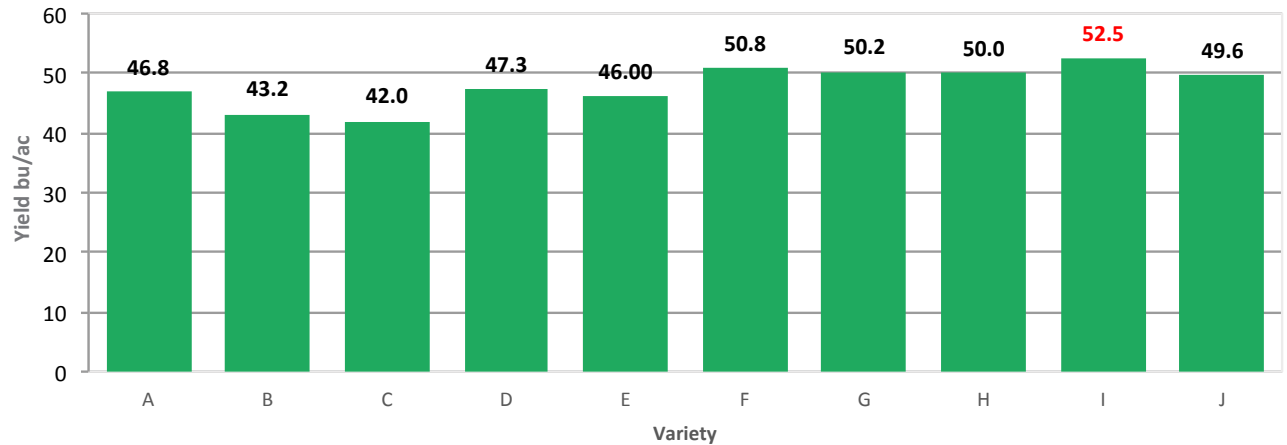
Torro performed well considering its maturity was similar to NSC Watson +4.75 bu/ac. Kosmo and Duglodo were the best yielding varieties but are 4 to 5 days longer in maturity.

# 2016 VARIETY TRIALS

**STONEWALL, MB TRIAL 2016** Planting Date: May 18<sup>th</sup> 2016

\*Yield is based on a 13% moisture content

	Variety	Yield	Maturity
A	 Torro R2 (2325)	46.8	107
B	NSC Watson RR2Y (2250)	43.2	109
C	Dekalb 23-60 RY (2350)	42.0	112
D	TH33003 R2Y (2400)	47.3	113
E	TH32004 R2Y (2425)	46.0	115
F	 Kosmo R2 (2450)	50.8	115
G	 Dylano R2X (2450)	50.2	117
H	 Dugaldo R2X (2475)	50.0	118
I	 <b>Domingo R2X 255</b>	<b>52.5</b>	<b>120</b>
J	Astro R2Y (2525)	49.6	122







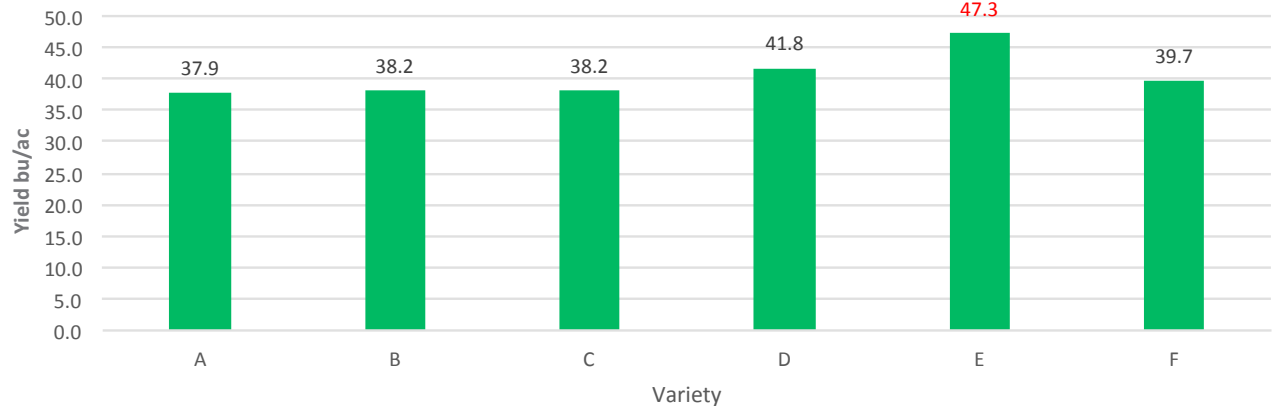
*Early Maturing Varieties: Torro yielded the highest in the early maturing class. Torro looks similar to TH33003; yields slightly less, matures 6 days earlier in this trial.*

*Mid Maturing: Kosmo is a fairly early maturing variety; similar to TH33003 but with slightly better yield. Domingo was the highest yielding variety in the plot.*

**VIRDEN, MB TRIAL 2016** Planting Date: May 18<sup>th</sup> 2016

\*Yield is based on a 13% moisture content  
\*3<sup>rd</sup> party trial data

	Variety	Yield	Maturity
A	NSC Watson RR2Y (2250)	37.9	113
B	 Torro R2 (2325)	38.2	115
C	 Dario R2X (2250)	38.2	115
D	Dekalb 23-60 RY (2350)	41.8	119
E	 <b>Dylano R2X (2450)</b>	<b>47.3</b>	<b>120</b>
F	 Dugaldo R2X (2475)	39.7	122




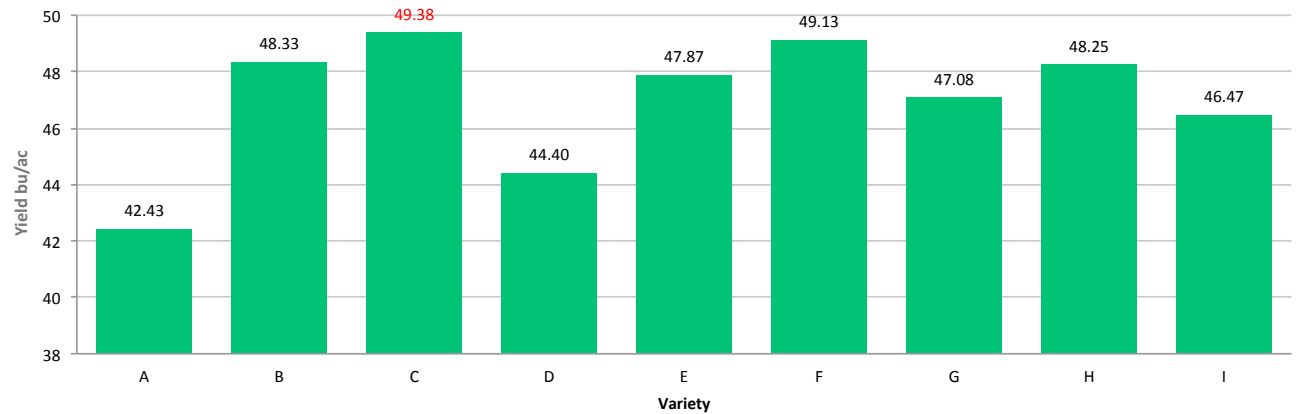
*Dylano was the clear winner in yield but the maturity was a bit long. 23-60 yielded well but was not as early in maturity as it is supposed to be. Dario, Torro and Watson were very respectable in yield for their maturity.*

# 2016 VARIETY TRIALS

## GLENELLA, MB TRIAL 2016 Planting Date: May 18<sup>th</sup> 2016

\*Torro was the highest yielding in the plot  
\*3<sup>rd</sup> party trial data





	Variety	Yield	Maturity
A	P002T04R (2350)	42.43	112
B	TH 35002 R2Y (2375)	48.33	113
C	 <b>Torro R2 (2325)</b>	<b>49.38</b>	<b>113</b>
D	 Kosmo R2 (2450)	44.40	114
E	TH32003 R2Y (2400)	47.87	114
F	TH32004 R2Y (2425)	49.13	115
G	P006T78R (2425)	47.08	117
H	TH33005 R2Y (2450)	48.25	118
I	Astro R2 (2525)	46.47	121

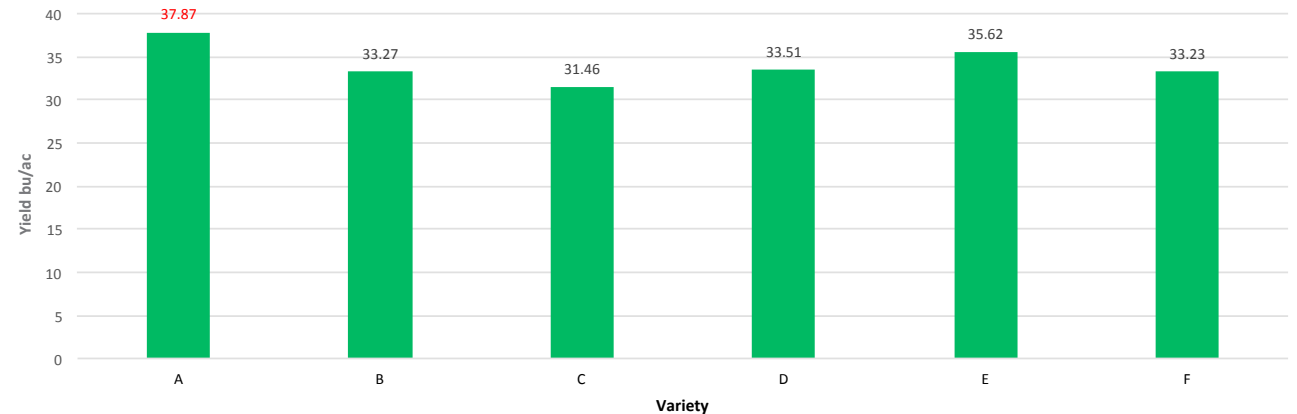


Torro was again the highest yielder for being also one of the earliest maturing varieties. A clear winner in this trial.

## MIDALE, SK TRIAL 2016 Planting Date: May 21<sup>st</sup> 2016

\*Yield is based on 13% moisture  
\*3<sup>rd</sup> party trial data

	Variety	Yield	Maturity
A	<b>NSC Watson (2250)</b>	<b>37.87</b>	<b>112</b>
B	 Torro R2 (2325)	33.27	113
C	 Dario R2X (2250)	31.46	114
D	Dekalb 23-60 RY (2350)	33.51	116
E	 Dylano R2X (2450)	35.62	117
F	 Dugaldo R2X (2475)	33.23	118



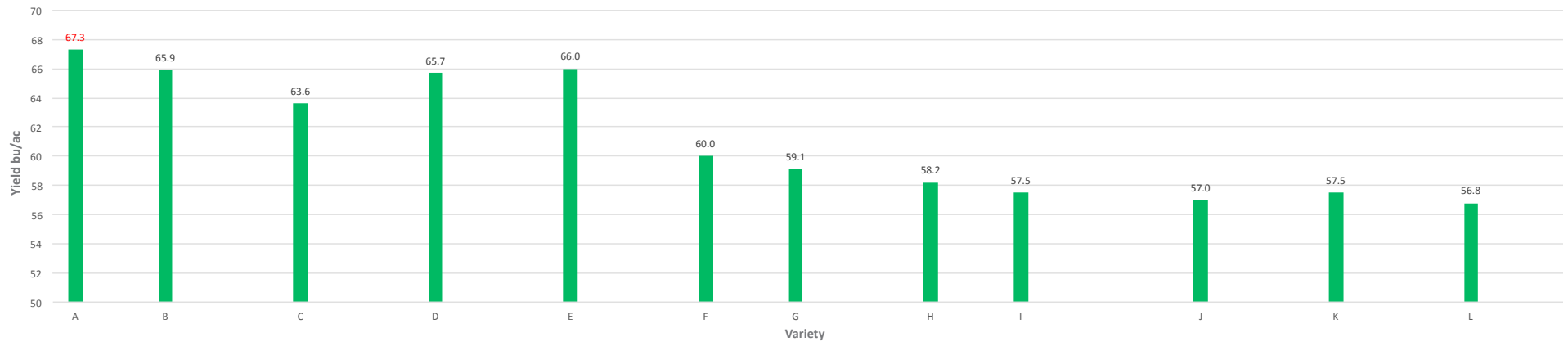
NSC Watson was the highest yielding and the earliest in maturity. Torro and Dylano looked good as well; but a bit later. Note: Our local dealer had seed production of Dario and it seems to be his favourite.

# 2016 INOCULANT/SEED TREATMENT TRIALS

## INOCULANT

CARMAN, MB TRIAL 2016 Planting Date: May 20<sup>th</sup> 2016

\*Yield is based on 13% moisture  
\*3<sup>rd</sup> party trial data



Variety	Yield	Maturity
A Primo on seed + CMVB	67.3	126
B Primo on seed + Primo in-furrow Low rate + CMVB	65.9	126
C Primo on seed + Primo in-furrow High rate + CMVB	63.6	126
D Primo on seed + N-Row granular 4 lbs/acre + CMVB	65.7	126
E Primo on seed + N-Row granular 8 bu/acre + CMVB	66.0	126
F Primo CL on seed + CMVB	60.0	126
G Primo CL on seed + Primo in-furrow High rate + CMVB	59.1	122
H Preside CL on seed + CMVB	58.2	122
I Preside CL on seed + Primo in-furrow High rate + Primo in-furrow + CMVB	57.5	122
J Preside CL on seed + Accolade on seed + CMVB	57.0	122
K Primo on seed + HeadsUp on seed + CMVB	57.5	122
L Primo on seed + HeadsUp on seed + CMVB	56.8	122

Results were inconsistent of what normally is expected. It seems like fewer additives enhanced maturity, but as a result reduced yield.



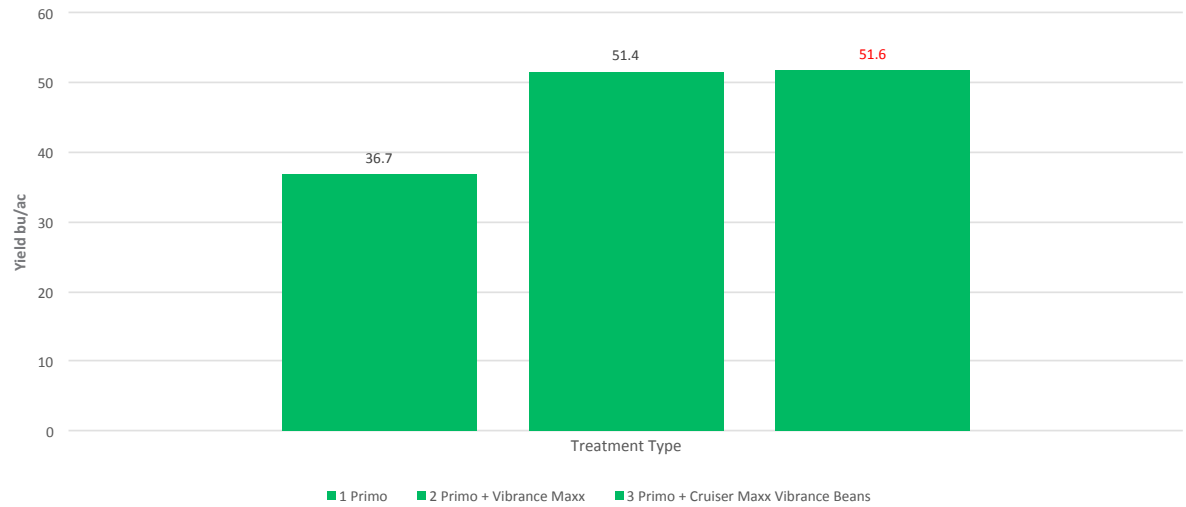
# 2016 INOCULANT/SEED TREATMENT TRIALS

## CRUISER MAXX VIBRANCE BEANS

OAKVILLE, MB TRIAL 2016 Planting Date: May 20<sup>th</sup> 2016

\*Yield is based on 13% moisture  
\*3<sup>rd</sup> party trial data

Inoculant	Yield
Primo	36.7
Primo + Vibrance Maxx	51.4
Primo + Cruiser Maxx Vibrance Beans	51.6



A massive difference this year between Cruiser Maxx and untreated 14.9 bu/ac. Approximately 7% yield advantage to Cruiser Maxx is the norm.



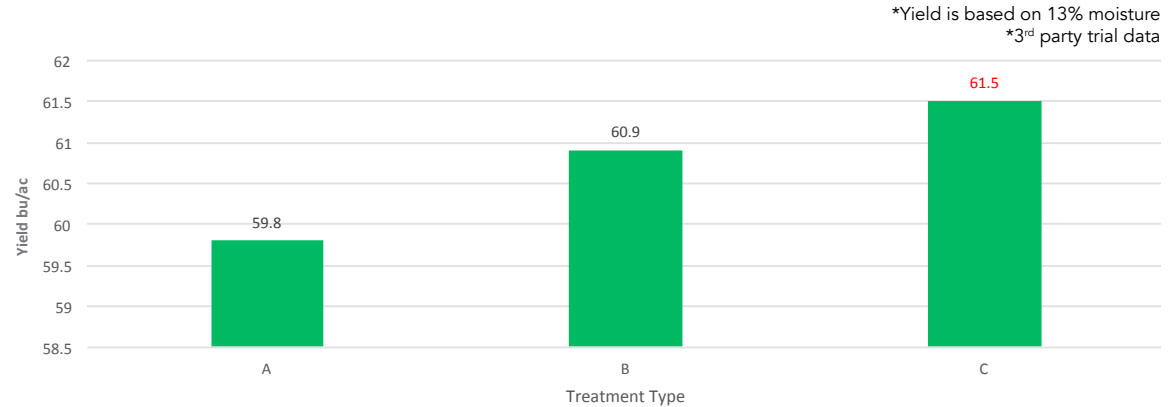


# 2016 INOCULANT/SEED TREATMENT TRIALS

## SOYRHIZO (LIQUID IN-FURROW)

OAKVILLE, MB TRIAL 2016 Planting Date: May 20<sup>th</sup> 2016

Inoculant	Yield
A SoyRhizo Seed Treatment	59.8
B SoyRhizo Seed Treatment + SoyRhizo 125 ml/ac in-furrow	60.9
C SoyRhizo Seed Treatment + SoyRhizo 250 ml/ac in-furrow	61.5

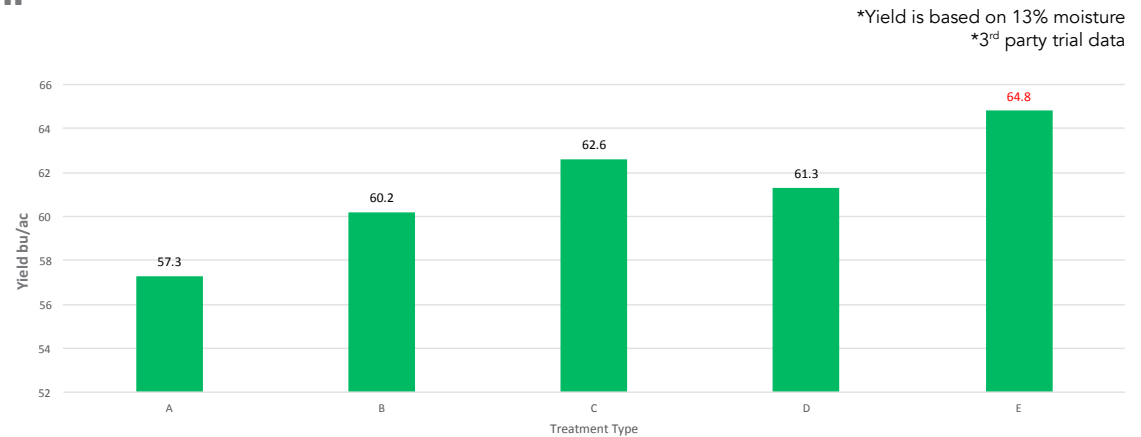


Previous in-furrow trials have been around 3-5% yield advantage (or 2 bushel advantage). This is a good economical response since liquid in-furrow is reasonably inexpensive (\$4-\$8 per acre).

## PRECEDE, HEADSUP, SOYGREEN, RELEAF, 42PHI

OAKVILLE, MB TRIAL 2016 Planting Date: May 20<sup>th</sup> 2016

Inoculant	Yield
A Primo on seed + Primo in-furrow + Precede on seed	57.3
B Primo on seed + Primo in-furrow + HeadsUp on seed	60.2
C Primo on seed + Primo in-furrow + Soygreen in-furrow	62.6
D Primo on seed + Primo in-furrow + Releaf in-furrow	61.3
E Primo on seed + Primo in-furrow + 42PHI foliar	64.8



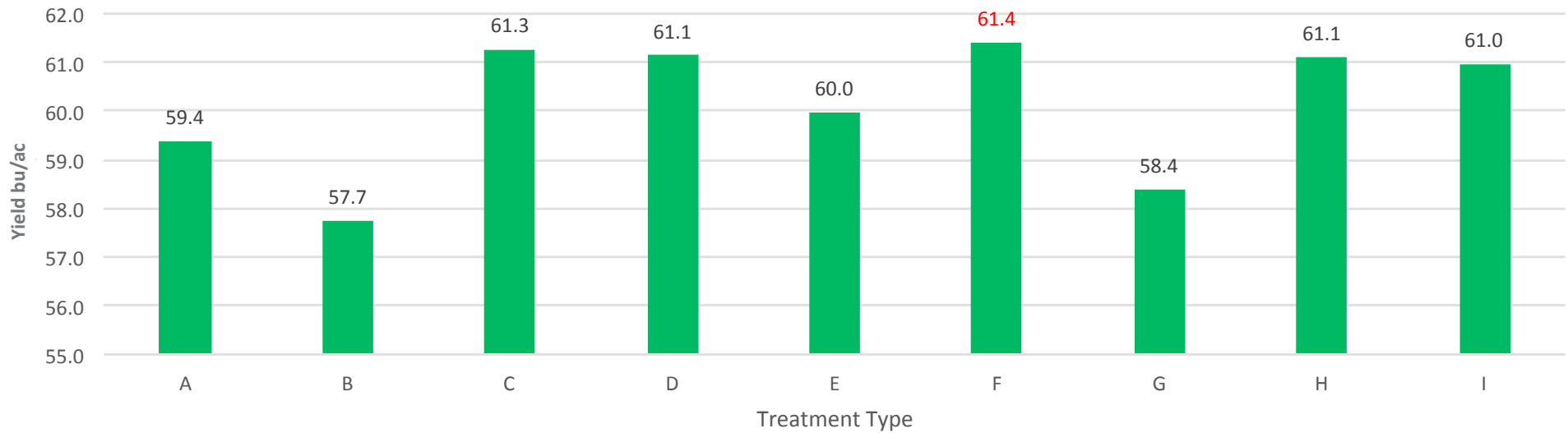
42PHI and Phosphate foliar showed a strong economic response +7.5 bu/ac.

# 2016 INOCULANT/SEED TREATMENT TRIALS

## INOCULANT

OAKBLUFF, MB TRIAL 2016 Planting Date: May 18<sup>th</sup> 2016

\*Yield is based on 13% moisture  
\*3<sup>rd</sup> party trial data



	Inoculant	Yield
A	Primo	59.4
B	Primo + CMVB	57.7
C	Primo + CMVB + 4 lbs N-Row	61.3
D	Primo + CMVB + 8 lbs N-Row	61.1
E	SoyRhizo	60.0
F	SoyRhizo + CMVB	61.4
G	SoyRhizo + CMVB + 4 lbs N-Row	58.4
H	SoyRhizo + CMVB + 8 lbs N-Row	61.1
I	Primo + CMVB + 8 lbs N-Row + HeadsUp	61.0



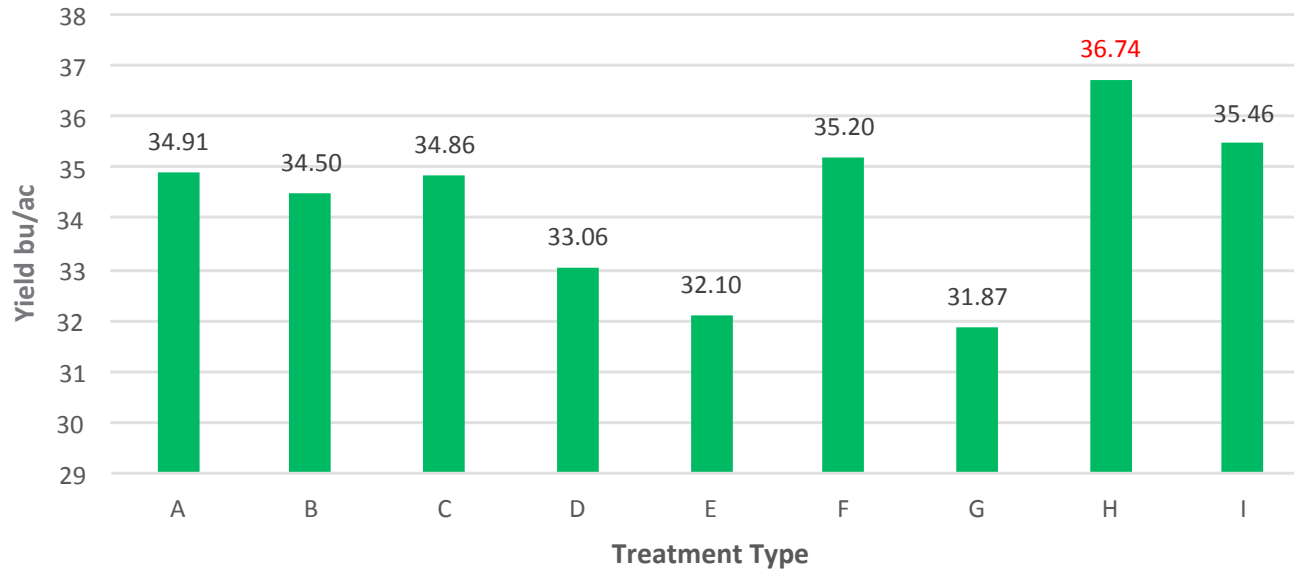
Fairly flat results; however there was a 1.5 bu/ac advantage using granular inoculant on land that has had soybeans in rotation for a number of years.

# 2016 INOCULANT/SEED TREATMENT TRIALS

## INOCULANT

**TEULON, MB TRIAL 2016** Planting Date: June 7<sup>th</sup> 2016

\*Killing frost on September 28<sup>th</sup>  
 \*Yield is based on a 13% moisture content  
 \*3rd party trial data



Inoculant	Yield
A Primo	34.91
B Primo + CMVB	34.50
C Primo + CMVB + 4 lbs N-Row	34.86
D Primo + CMVB + 8 lbs N-Row	33.06
E SoyRhizo	32.10
F SoyRhizo + CMVB	35.20
G SoyRhizo + CMVB + 4 lbs N-Row	31.87
<b>H SoyRhizo + CMVB + 8 lbs N-Row</b>	<b>36.74</b>
I Primo + CMVB + 8 lbs N-Row + HeadsUp	35.46

*SoyRhizo seemed to work better than N-Row granular. Normally this is not the case. Primo looked better than SoyRhizo by itself. 8lbs N-Row plus SoyRhizo was the best result, nearly 2 bushel advantage.*

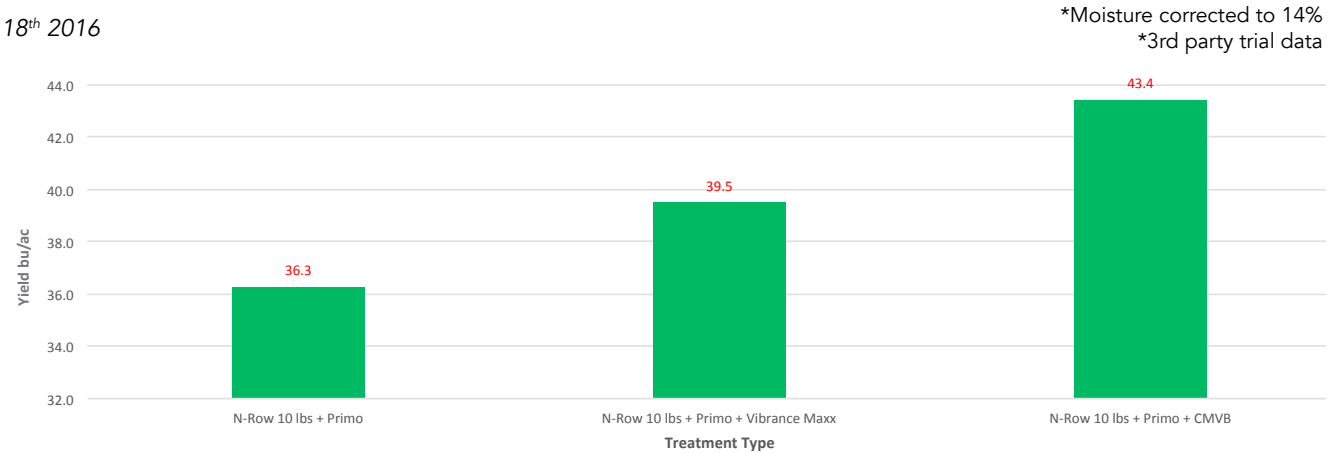


# 2016 INOCULANT/SEED TREATMENT TRIALS

## CRUISER MAXX VIBRANCE

**VIRDEN, MB TRIAL 2016** Planting Date: May 18<sup>th</sup> 2016

Inoculant	Yield
N-Row 10 lbs + Primo	36.3
N-Row 10 lbs + Primo + Vibrance Maxx	39.5
N-Row 10 lbs + Primo + CMVB	43.4

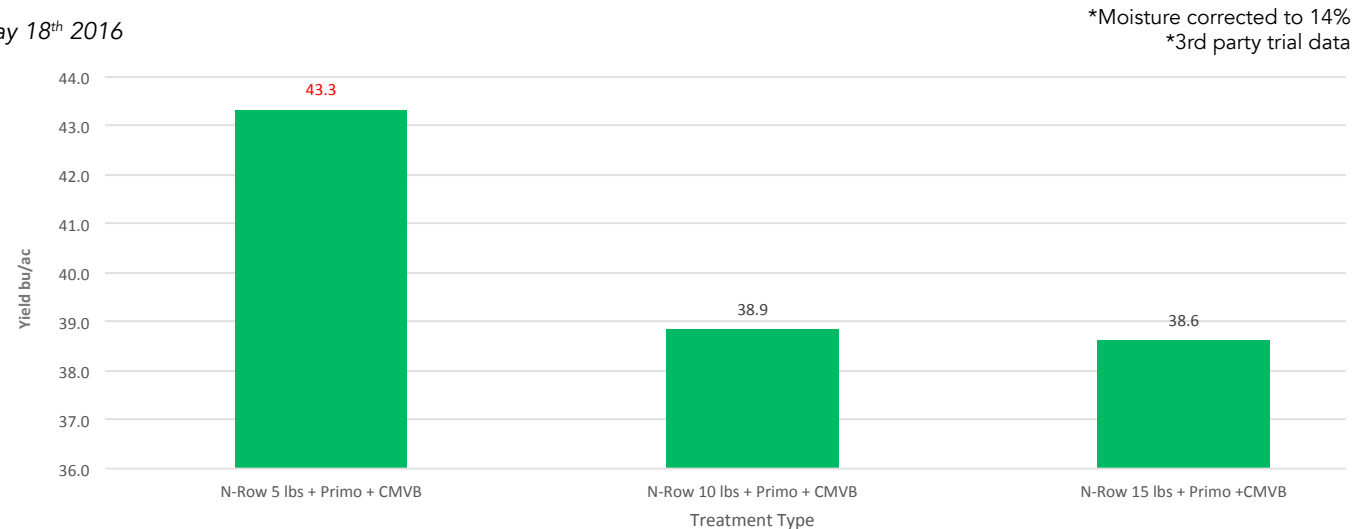


7.1 bu/ac advantage using Cruiser Maxx Vibrance, this is a bit higher than normal. Normally a 9% advantage of +3.25 bu/ac. Cruiser Maxx seems to give a more consistent response in cooler, minimum tillage soils and fields that have a heavy rotation to soybeans.

## N-ROW GRANULAR

**VIRDEN, MB TRIAL 2016** Planting Date: May 18<sup>th</sup> 2016

Inoculant	Yield
N-Row 5 lbs + Primo	43.3
N-Row 10 lbs + Primo + CMVB	38.9
N-Row 15 lbs + Primo + CMVB	38.6



Additional granular inoculant in minimum tillage results in higher yields, but not this time. Normally an economic response in using 10 lbs.



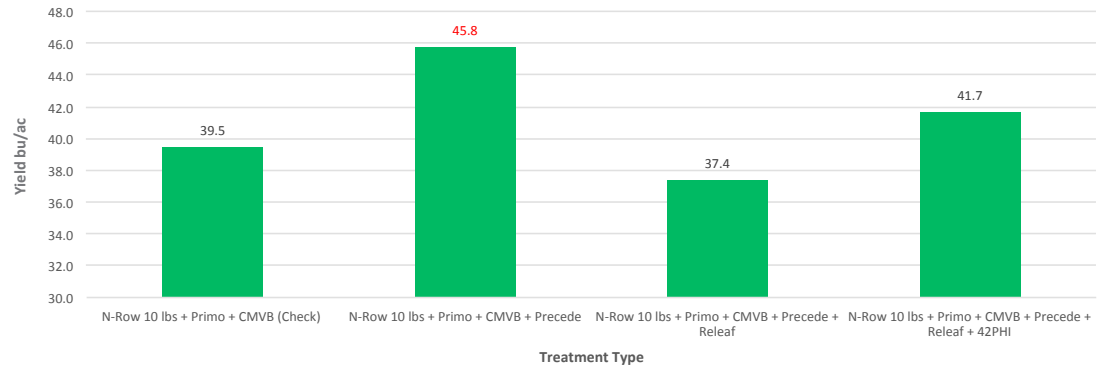
# 2016 INOCULANT/SEED TREATMENT TRIALS

## PRECEDE, RELEAF, 42PHI

VIRDEN, MB TRIAL 2016 Planting Date: May 18<sup>th</sup> 2016

\*Moisture corrected to 14%  
\*3rd party trial data

Inoculant	Yield
A N-Row 10 lbs + Primo + CMVB (Check)	39.5
B N-Row 10 lbs + Primo + CMVB + Precede	45.8
C N-Row 10 lbs + Primo + CMVB + Precede + Releaf	37.4
D N-Row 10 lbs + Primo + CMVB + Precede + Releaf + 42PHI	41.7



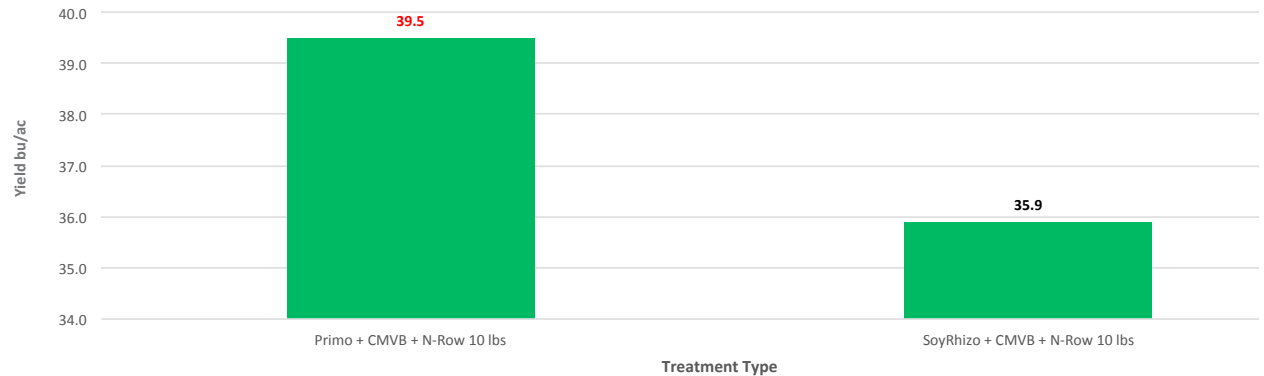
Precede gave a nice yield response of +6.3 bu/ac. 42PHI also had a positive result of +4.3 bu/ac.

## ON-SEED INOCULANT

VIRDEN, MB TRIAL 2016 Planting Date: May 18<sup>th</sup> 2016

\*Moisture corrected to 14%  
\*3rd party trial data

Inoculant	Yield
Primo + CMBV + N-Row 10 lbs	39.5
SoyRhizo + CMVB + N-Row 10 lbs	35.9



Normally there is not much difference between these two premium inoculant products. They are both the premium products for the inoculant market. Primo was 3.6 bushel advantage over SoyRhizo.

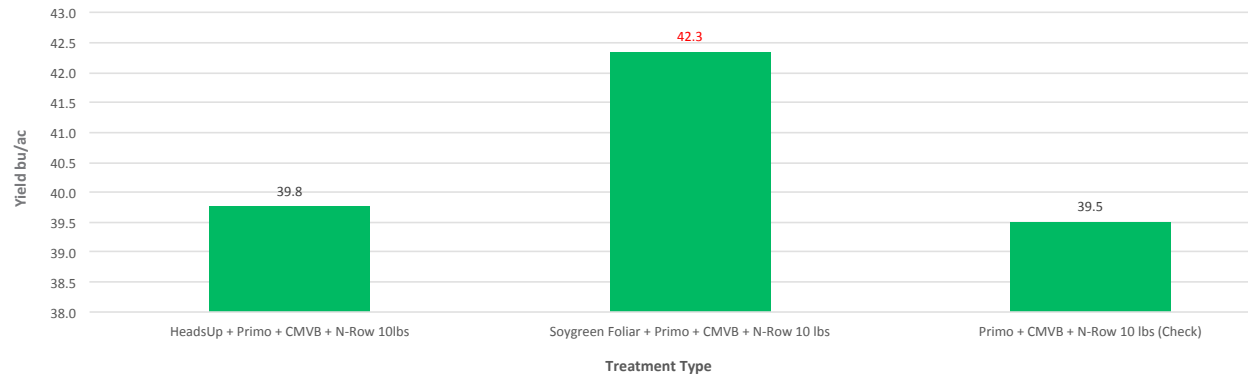
# 2016 INOCULANT/SEED TREATMENT TRIALS

## INOCULANT

**VIRIDEN, MB TRIAL 2016** Planting Date: May 18<sup>th</sup> 2016

\*Yield is based on 13% moisture  
\*3rd party trial data

Other Trials	Yield
HeadsUp + Primo + CMVB + N-Row 10 lbs	39.8
Soygreen Foliar + Primo + CMVB + N-Row 10 lbs	42.3
Primo + CMVB + N-Row 10 lbs (Check)	39.5



1) No response to HeadsUp. Normally 5% advantage. 2) Soygreen Foliar had a +2.5 bu/ac advantage. First year in trials.



# 2016 AVAIL TRIALS

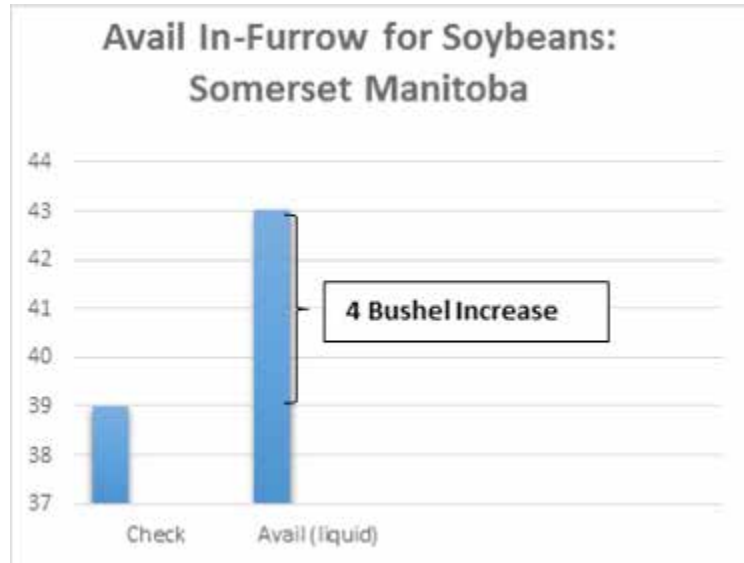
## KEY FACTS ABOUT AVAIL

P-fertilizer polymer liquid  
Increases availability of phosphate

## APPLICATION RATES FOR AVAIL

Liquid use rate is 0.5% of solution or case for 1000 U.S. gallons liquid phosphate fertilizer  
Granular use rate is one case per 4.5 metric tonnes

Ex: One jug of Avail would mix with 500 gallons 10-34-0 liquid fertilizer.



Check 39 bu/ac  
Avail (Liquid) 43 bu/ac

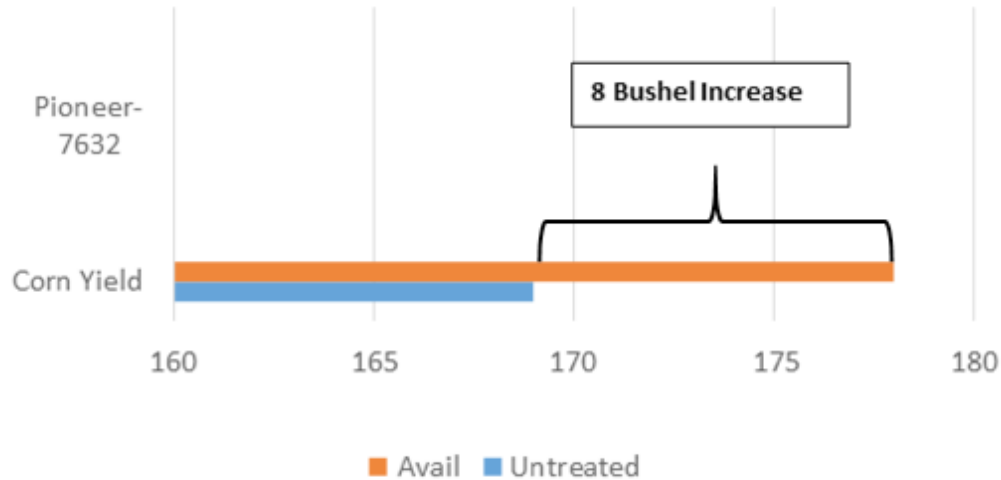
Gross Revenue 4 bu/ac increase \* \$11.00/bu  
Avail cost 6 gal/ac rate

Per Acre  
\$ 44.00  
\$ 7.70

**Gross Return \$ 36.30**

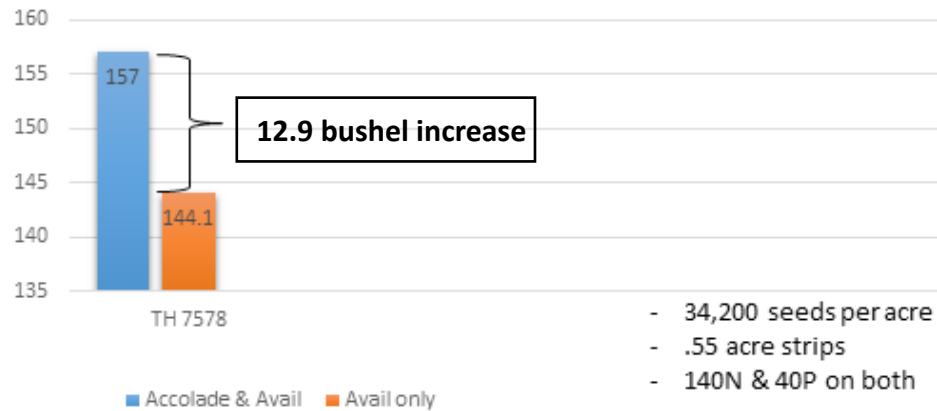


### Avail In-Furrow for Corn: Stonewall Manitoba



		Per Acre
Check		169 bu/ac
Avail with 10-34-0 (Liquid)		177 bu/ac
Gross Revenue	8 bu/ac increase * \$4.75/bu	\$ 38.00
Avail cost	6 gal/ac rate	\$ 7.70
<b>Gross Return</b>		<b>\$ 30.30</b>

### Avail & Accolade Corn Trial: Altona Manitoba



		Per Acre
Check is Avail with 10-34-0 (liquid)		144.1 bu/ac
Avail & Accolade (Liquid)		157 bu/ac
Gross Revenue	12.9 bu/ac increase * \$4.75/bu	\$ 61.28
Avail cost	6 gal/ac rate	\$ 7.70
Accolade cost	\$3.50/ac in-furrow corn	\$ 3.50
<b>Gross Return</b>		<b>\$ 50.08</b>



# 2016 ACCOLADE TRIALS

## KEY FACTS ABOUT ACCOLADE

Growth promoter for cereals, corn and canola  
 Azospirillum (PGPR) secretes Indole Acetic Acid  
 Increases root biomass which improves nutrient, mineral and water uptake

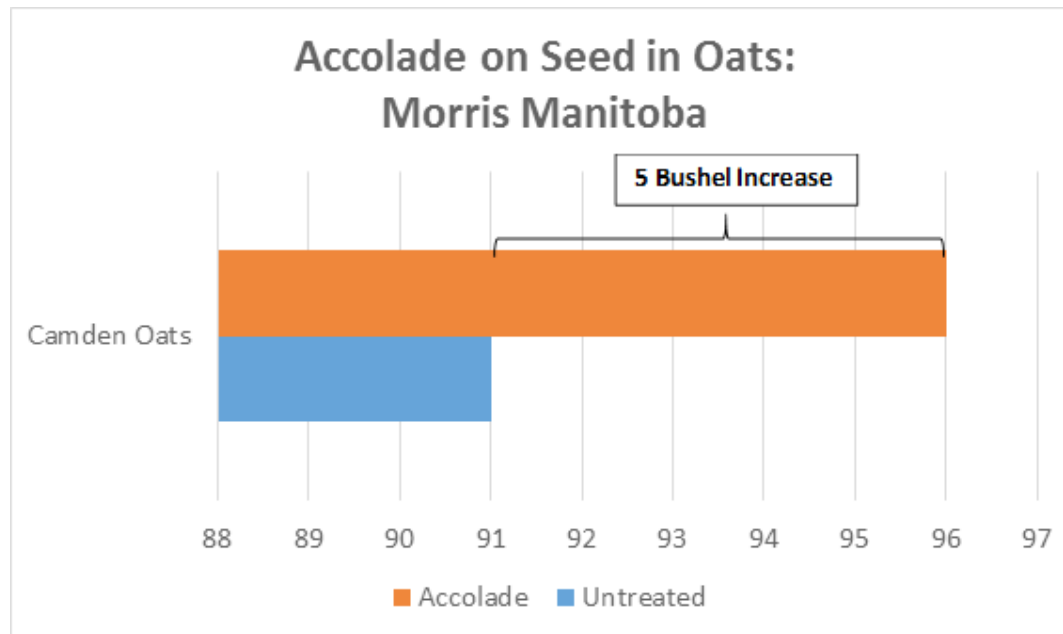
## APPLICATION RATES FOR ACCOLADE

### On Seed Rate

One 10.4L bladder treats 3175 kg of Cereals and Corn, and can be mixed with seed treatment or water

### In-Furrow Rate

One 10.4L bladder covers 70 acres. Recommended to dilute with 4-10 gallons/acre of water.



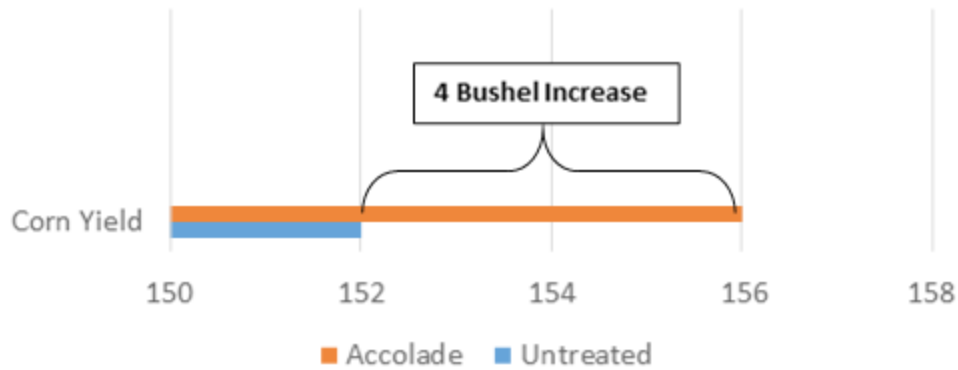
Check  
 Accolade (Liquid)

91 bu/ac  
 96 bu/ac

		Per Acre
Gross Revenue	5 bu/ac increase * \$2.75/bu	\$ 13.75
Accolade cost	2.5 bu/ac seeding rate at \$2.10/bu Accolade	\$ 5.25
<b>Gross Return</b>		<b>\$ 8.50</b>

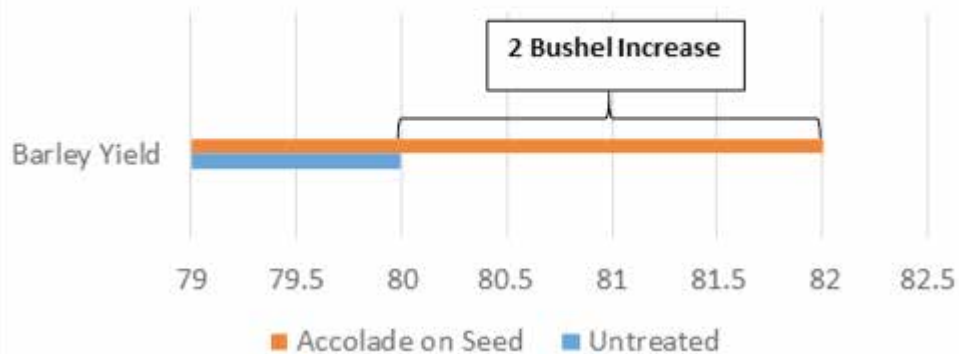


## Accolade on Seed in Corn: Souris Manitoba



Check	152 bu/ac	
Accolade (Liquid)	156 bu/ac	
		<i>Per Acre</i>
Gross Revenue	4 bu/ac increase * \$4.75/bu	\$ 19.00
Accolade cost	\$3.50/ac in-furrow corn	\$ 3.50
<b>Gross Return</b>		<b>\$ 15.50</b>

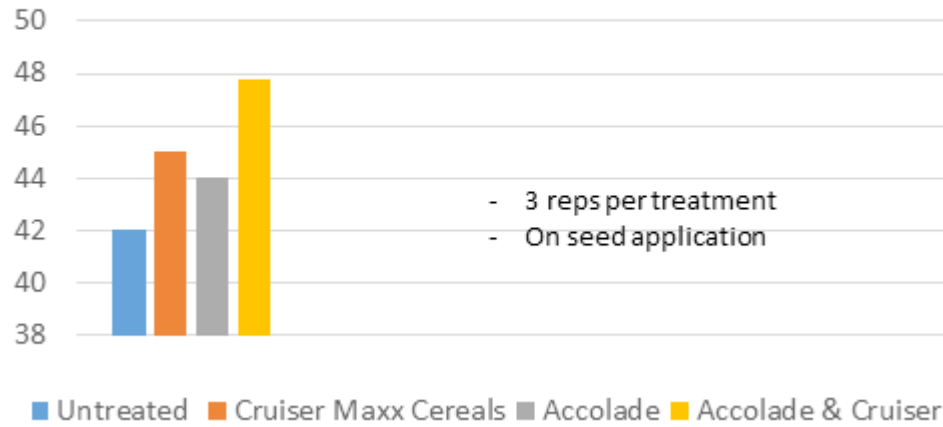
## Accolade on Seed in Barley: Souris Manitoba



Check	80 bu/ac	
Accolade (Liquid)	82 bu/ac	
		<i>Per Acre</i>
Gross Revenue	2 bu/ac increase * \$3.75/bu	\$ 7.50
Accolade cost	2.25 bu/ac seeding rate at \$2.10/bu Accolade	\$ 4.73
<b>Gross Return</b>		<b>\$ 2.77</b>



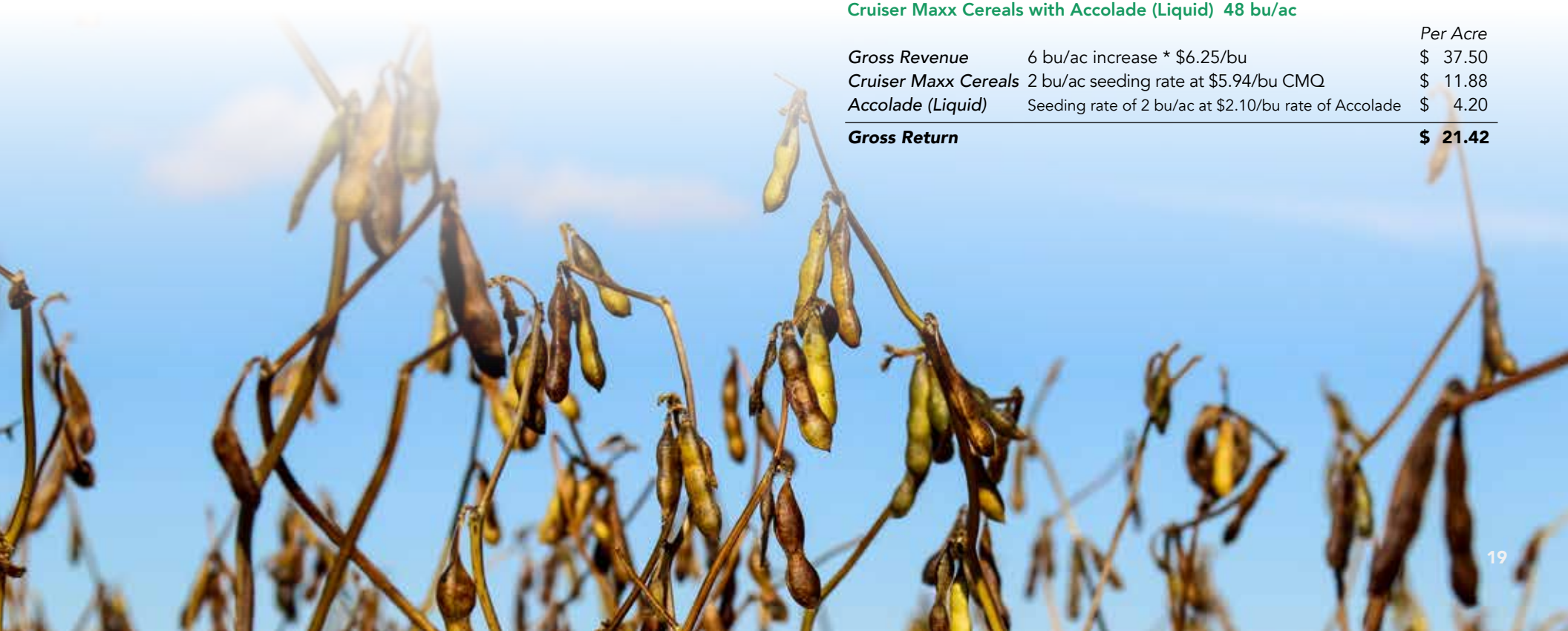
Accolade & Cruiser Maxx Cereals Wheat Trial:  
Rhineland Manitoba



Untreated		42 bu/ac	
Cruiser Maxx Cereals		45 bu/ac	
Gross Revenue	3 bu/ac increase * \$6.25/bu		Per Acre \$ 18.75
Cruiser Maxx Cereals	2 bu/ac seeding rate at \$5.94/bu CMQ		\$ 11.88
<b>Gross Return</b>			<b>\$ 6.87</b>

Untreated		42 bu/ac	
Accolade (Liquid)		44 bu/ac	
Gross Revenue	2 bu/ac increase * \$6.25/bu		Per Acre \$ 12.50
Accolade (Liquid)	2 bu/ac seeding rate at \$2.10/bu Accolade		\$ 4.20
<b>Gross Return</b>			<b>\$ 8.30</b>

Untreated		42 bu/ac	
Cruiser Maxx Cereals with Accolade (Liquid)		48 bu/ac	
Gross Revenue	6 bu/ac increase * \$6.25/bu		Per Acre \$ 37.50
Cruiser Maxx Cereals	2 bu/ac seeding rate at \$5.94/bu CMQ		\$ 11.88
Accolade (Liquid)	Seeding rate of 2 bu/ac at \$2.10/bu rate of Accolade		\$ 4.20
<b>Gross Return</b>			<b>\$ 21.42</b>



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