Trial Guide 2017

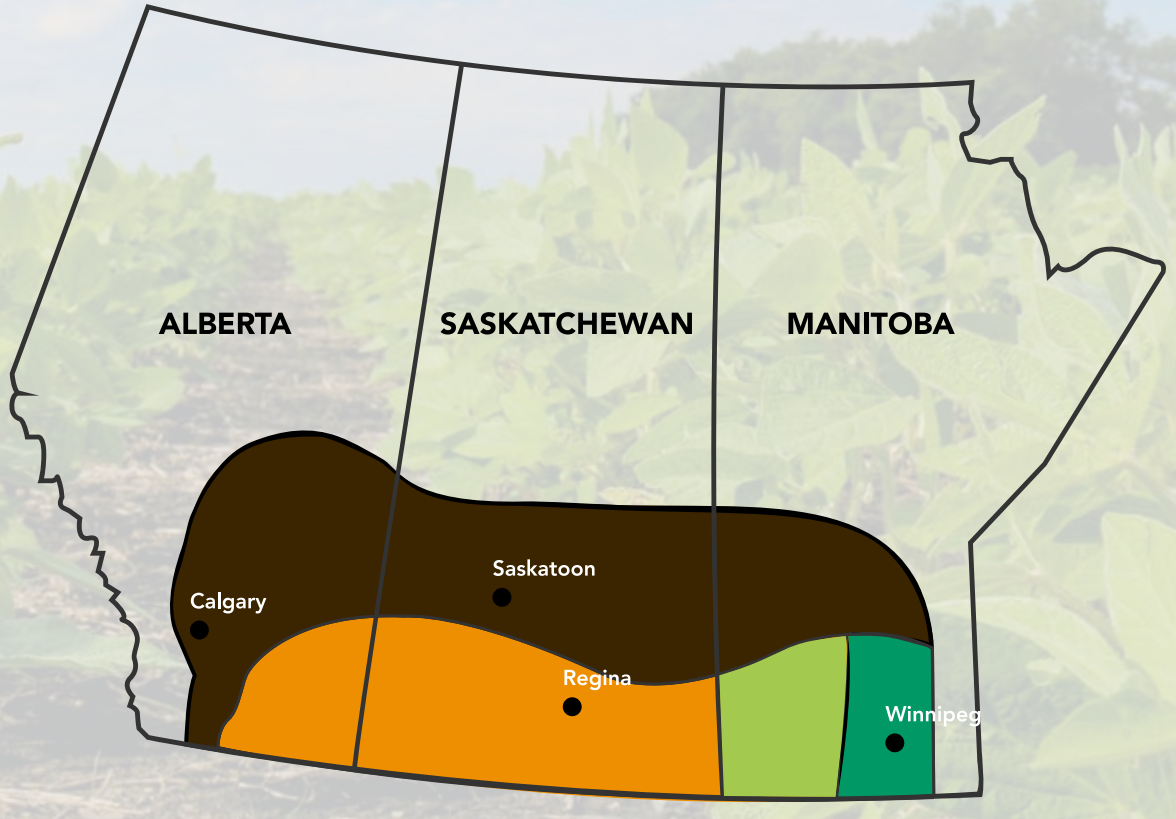
Quarry Seed is Western Canada's premier seed distributor focusing on exclusive soybean genetics as well as added value crop inputs. Our extensive third party replicated plot trials and strip trials prove again and again that our dealers can offer optimal solutions for soybean production.

Making crop decisions is becoming more difficult in these challenging times, with the marketplace offering products that are not tested and proven under our Western Canadian conditions. Rely on Quarry Seed's research and knowledge to gain the upper hand on your farm.

2017 was a challenging year due to drought. It has been difficult to properly assess varieties' performance based on the weather this past summer. This trial booklet is a composite of the most extreme trial work done by any organization to give the Western Canadian producers a better idea on what varieties to grow and what inputs to use. Our knowledge and experience helped many growers withstand 2017 with a good yield.

-Ron and the Quarry Seed Team

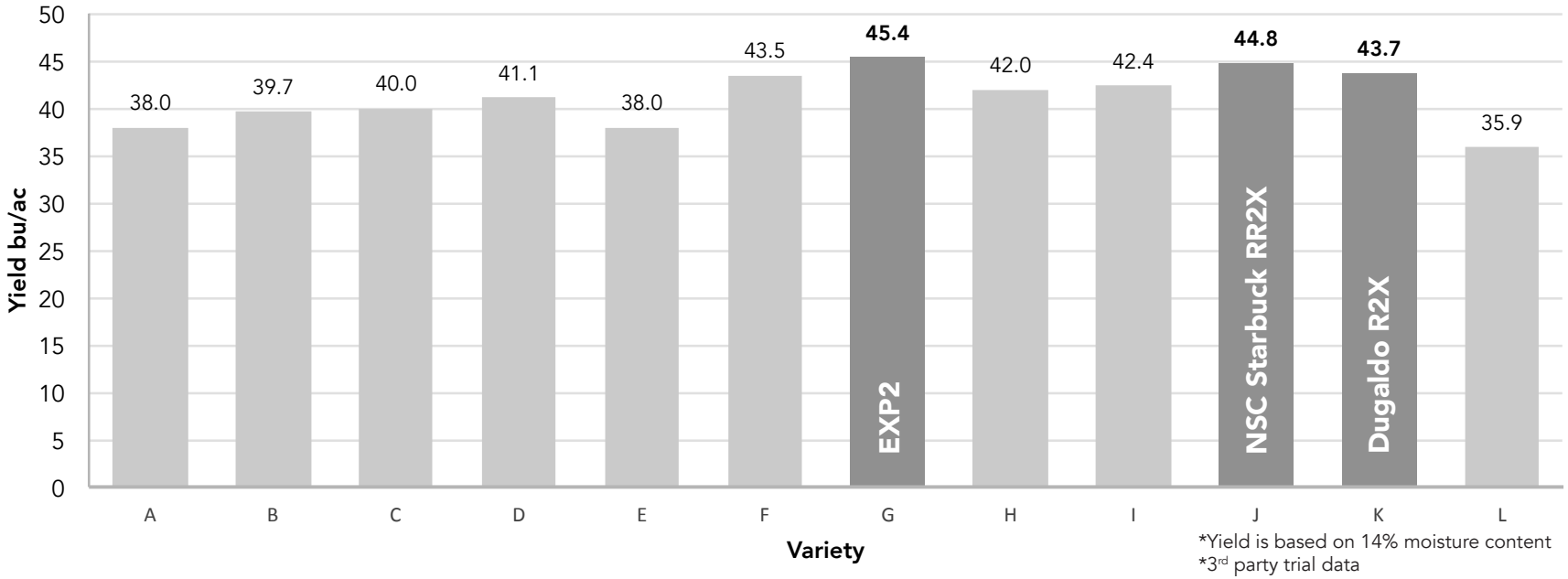
- Red River Valley, Manitoba
- Southwestern Manitoba
- Southern Saskatchewan and Alberta
- Northern Prairies



OAKVILLE, MB Planting Date: May 19th 2017

		Variety	Yield	Maturity
A		EXP 1 (2250)	38.0	113
B		Dario R2X (2275)	39.7	115
C		S0009-M2 (2275)	40.0	115
D		Torro R2 (2300)	41.1	117
E		EXP3 (2425)	38.0	119
F		Kosmo R2 (2400)	43.5	120
G		**EXP2 (2400)**	**45.4**	**121**
H		P006T46R (2450)	42.0	121
I		Dylano R2X (2425)	42.4	121
J		**NSC Starbuck RR2X (2425)**	**44.8**	**121**
K		**Dugaldo R2X (2450)**	**43.7**	**123**
L		Domingo R2X (2500)	35.9	125

A large portion of varieties did well at this location even though drought and iron chlorosis conditions did not allow for full yield potential to be achieved.

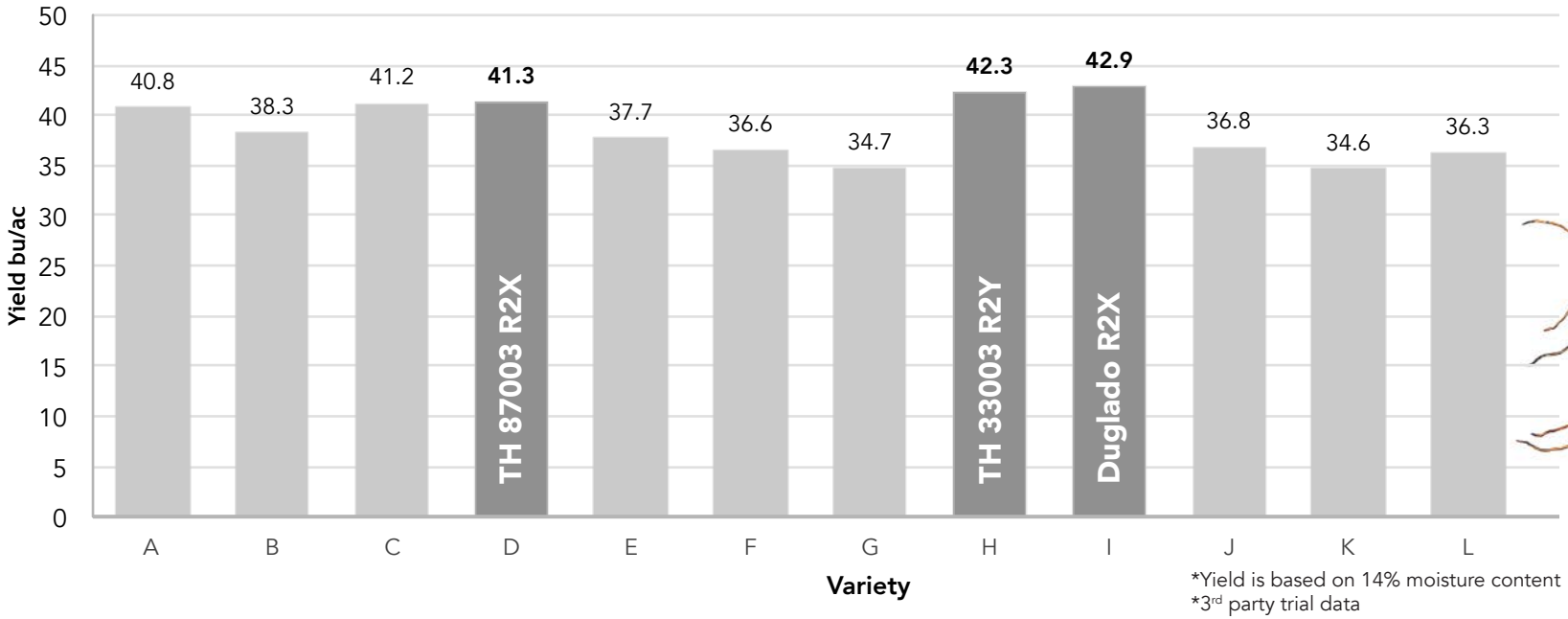


*Yield is based on 14% moisture content
*3rd party trial data

NIVERVILLE, MB Planting Date: May 13th 2017

	Variety	Yield	Maturity
A	S007-Y4 (2350)	40.8	118
B	TH 32004 R2Y (2425)	38.3	119
C	P006T46R (2425)	41.2	119
D	**TH 87003 R2X (2400)**	**41.3**	**120**
E	Dylano R2X (2425)	37.7	120
F	TH 37004 R2Y (2425)	36.6	121
G	TH 33005 R2Y (2450)	34.7	121
H	**TH 33003 R2Y (2400)**	**42.3**	**121**
I	**Dugaldo R2X (2450)**	**42.9**	**121**
J	TH 34006 R2Y (2475)	36.8	122
K	TH 88008 R2X (2500)	34.6	123
L	Astro R2Y (2525)	36.3	125

Dugaldo has won this site and is consistent throughout the Red River Valley.



*Yield is based on 14% moisture content
*3rd party trial data
* Trial data provided by South East Seeds

2017 AVERAGE FOR RED RIVER VALLEY 7 Trial Sites

	Variety	Maturity	Yield % (Check 24-10RY)
A	S0009-M2 (2275)	-6	99.2
B	Dario R2X (2275)	-6	99.4
C	**Torro R2 (2300)**	**-5**	**102.5**
D	Kosmo R2 (2400)	-2	99.7
E	S007-Y4 (2350)	-1	98.4
F	TH 33005 R2Y (2450)	0	91.6
G	Dylano R2X (2425)	0	99.2
H	**24-10 RY (2425)**	**0**	**100.0**
I	TH 37004 R2Y (2425)	0	98.6
J	**Dugaldo R2X (2450)**	**1**	**107.9**
K	NSC Starbuck RR2X (2425)	3	96.3
L	Domingo R2X (2500)	3	96.2
M	Astro R2Y (2525)	4	92.6

Trial results were unusual this year. Mostly due to the near drought like conditions especially in the second half of the season. This resulted in earlier maturing varieties yielding nearly as good or better than later maturing varieties.

Dario R2X
Dario, much like Torro has great yield potential for its' maturity grouping. In 2017, we basically had no exposure to Dario in the Valley other than in plot trials. Because of its ultra early maturity characteristics, we don't promote Dario in the Valley. However on productive soils it can yield extremely well.

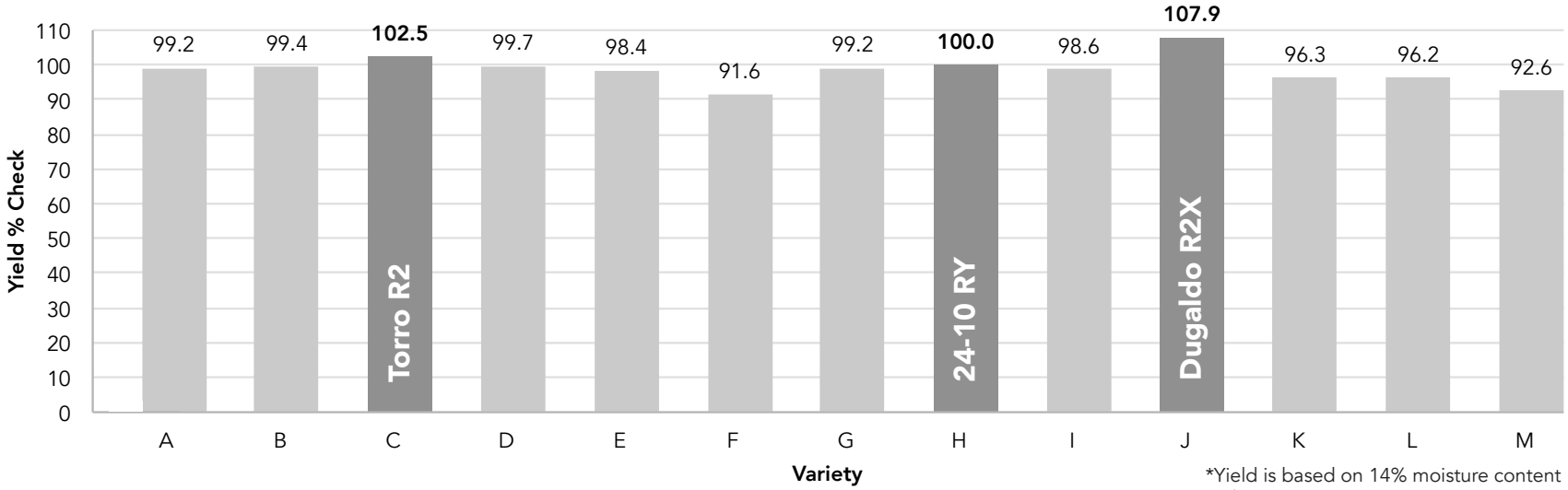
Torro R2
Torro has an extremely high yield potential for being an ultra early maturing variety. It does well in heavy IDC conditions and has a great pod clearance for harvesting ease.

Kosmo R2
Kosmo showed a respectable yield this year throughout the province, and really did great in certain geographies.

Dylano R2X
Dylano showed disappointing results in certain areas and good results in other areas. It performed excellent on lighter soils and where it had moisture, it really shined. This is typical of a very offensive variety. The yield potential can be incredible, but it has to be under the right conditions.

Dugaldo R2X
Dugaldo was the clear winner this year, placing first in 4 of the 7 sites tested. It also performed very well last year which is telling us that it will be a contender on a yearly basis.

Domingo R2X
Domingo R2X is truly a full season soybean. We identified a great fit for southern Manitoba in 2016 and 2017 proved to be another season where Domingo yield really got growers paying attention.

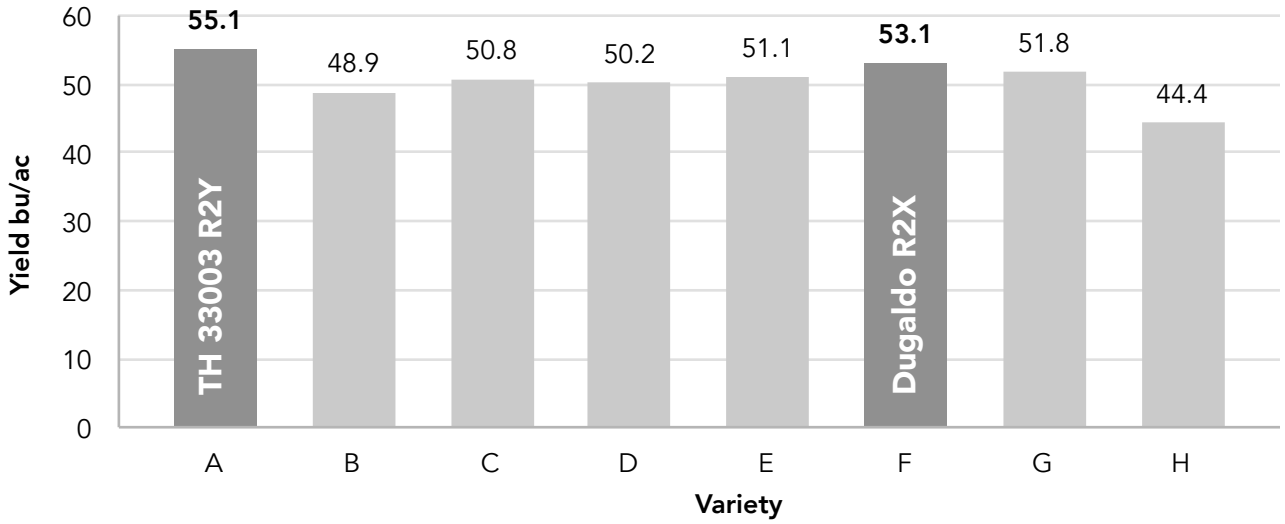


*Yield is based on 14% moisture content
*3rd party trial data

VIRDEN, MB Planting Date: May 13th 2017

		Variety	Yield	Maturity
A		**TH 33003 R2Y (2400)**	**55.1**	**121**
B		Dario R2X (2275)	48.9	114
C		Torro R2 (2300)	50.8	115
D		Kosmo R2 (2400)	50.2	122
E		Dylano R2X (2425)	51.1	125
F		**Dugaldo R2X (2450)**	**53.1**	**126**
G		S0009-M2 (2275)	51.8	114
H		NSC Watson RR2Y (2250)	44.4	114

*Yield is based on 14% moisture content
*3rd party trial data
*August 2nd and 9th rains filled yield potential for later maturing varieties better than earlier maturing varieties.

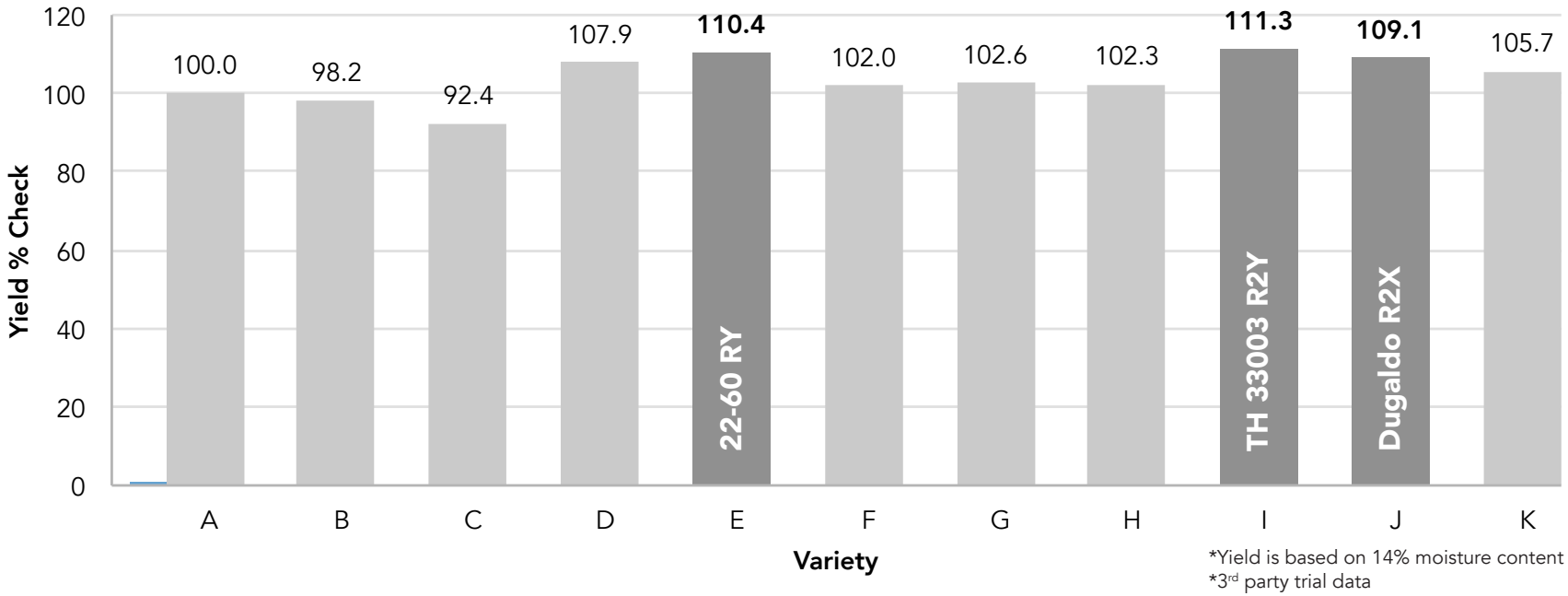


2017 AVERAGE FOR SOUTHWESTERN MANITOBA 5 Trial Sites

	Variety	Maturity	Yield % Check (S0009-M2)
A	S0009-M2 (2275)	112	100.0
B	Dario R2X (2275)	112	98.2
C	NSC Watson RR2Y (2250)	113	92.4
D	Torro R2 (2300)	113	107.9
E	**22-60 RY (2275)**	**117**	**110.4**
F	Kosmo R2 (2400)	117	102.0
G	S007-Y4 (2350)	119	102.6
H	Dylano R2X (2425)	118	102.3
I	**TH 33003 R2Y (2400)**	**121**	**111.3**
J	**Dugaldo R2X (2450)**	**121**	**109.1**
K	TH 37004 R2Y (2425)	123	105.7

In general, the later maturing varieties (2425-2475 CHU) performed better; mostly due to the very late fall frost (open fall). Generally speaking, there was adequate moisture to allow the mid/late season varieties to fill. The spring presented some stresses with dry and then wet conditions followed, which brought on Iron Chlorosis as we transitioned into summer.

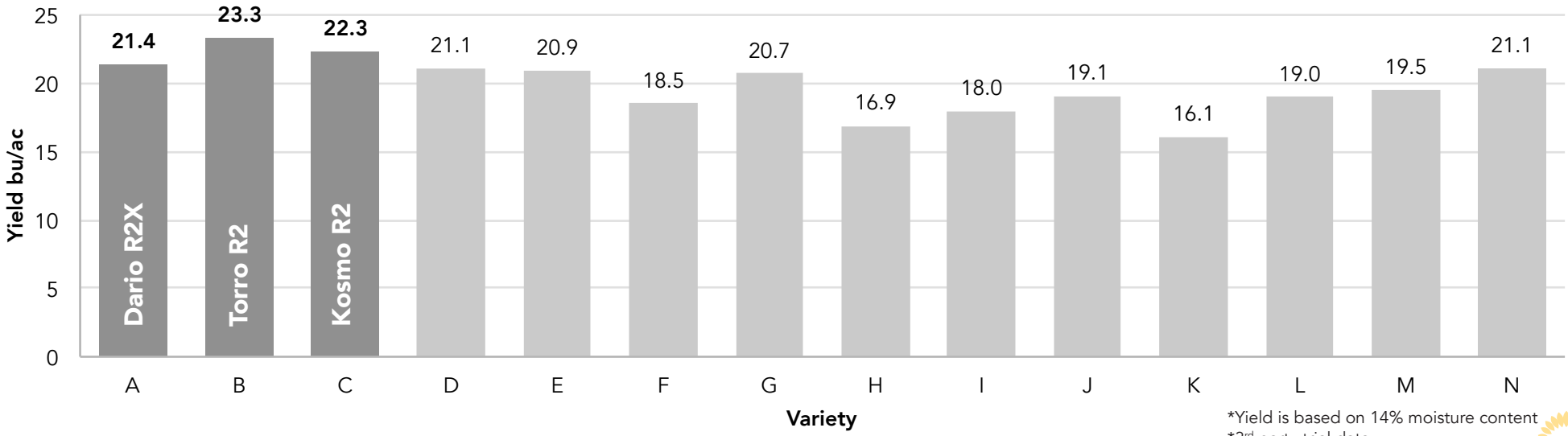
Torro did exceedingly well considering how early the variety is. It is important to note, there was considerable variation among the 5 sites. In 2017, Dylano showed average yields. However, it was a clear winner last year in our trials. Over all, the Dugaldo's and TH 33003's performed fairly well looking at the last 2 year average.



*Yield is based on 14% moisture content
*3rd party trial data

HALBRITE, SK Planting Date: May 20th 2017

	Variety	Yield	Maturity
A	**Dario R2X (2275)**	**21.4**	**98**
B	**Torro R2 (2300)**	**23.3**	**98**
C	**Kosmo R2 (2400)**	**22.3**	**98**
D	Dylano R2X (2425)	21.1	98
E	Dugaldo R2X (2450)	20.9	98
F	Domingo R2X (2500)	18.5	98
G	Kendo R2 (2525)	20.7	98
H	S0009-M2 (2275)	16.9	98
I	Akras R2 (2375)	18.0	98
J	P006T46R (2425)	19.1	98
K	NSC Starbuck RR2X (2425)	16.1	98
L	Exp 1	19.0	98
M	Exp 2	19.5	98
N	Exp 3	21.1	98

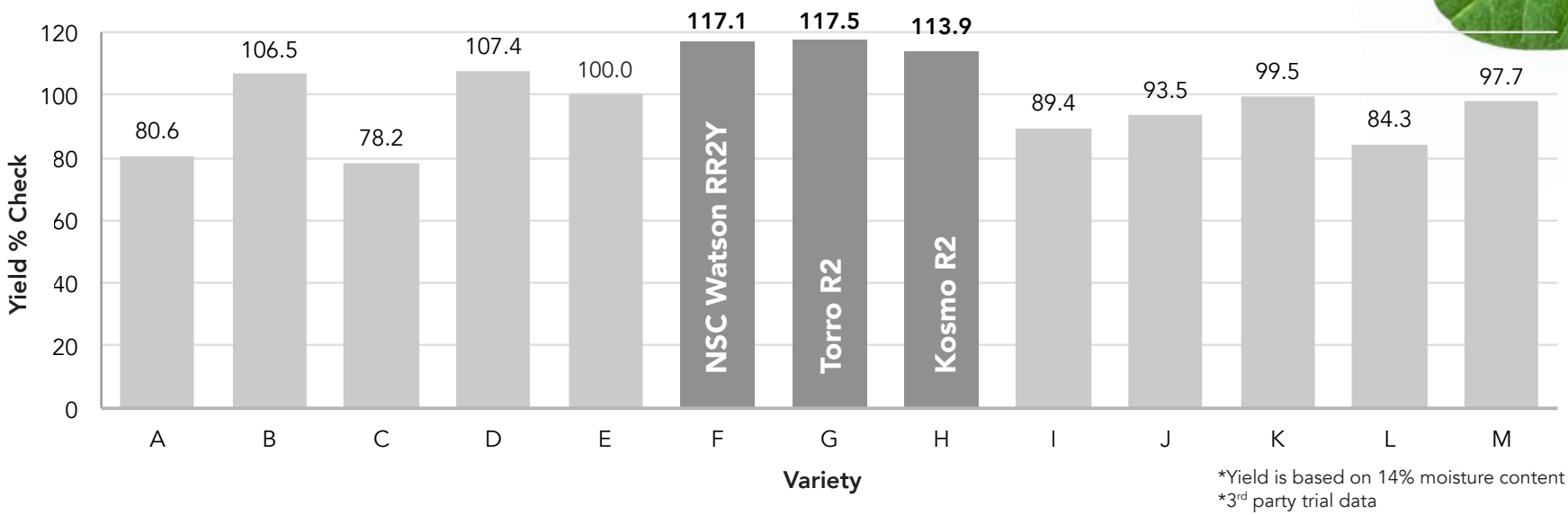


*Yield is based on 14% moisture content
*3rd party trial data

2017 AVERAGE FOR SOUTHERN SASKATCHEWAN AND ALBERTA 4 Trial Sites

	Variety	Yield	Maturity	Yield % Check (S0009-M2)
A	NSC StarCity RR2X (2250)	17.4	102	80.6
B	NSC Leroy RR2Y (2225)	22.0	103	106.5
C	TH 87000 R2X (2250)	16.9	104	78.2
D	Dario R2X (2275)	23.2	105	107.4
E	S0009-M2 (2275)	21.6	105	100.0
F	**NSC Watson RR2Y (2250)**	**25.3**	**105**	**117.1**
G	**Torro R2 (2300)**	**25.4**	**107**	**117.5**
H	**Kosmo R2 (2400)**	**24.6**	**110**	**113.9**
I	P006T46R (2450)	19.3	111	89.4
J	TH 87003 R2X (2375)	20.2	112	93.5
K	Dugaldo R2X (2450)	21.5	112	99.5
L	Akras R2 (2375)	18.2	114	84.3
M	Dylano R2X (2425)	21.1	114	97.7

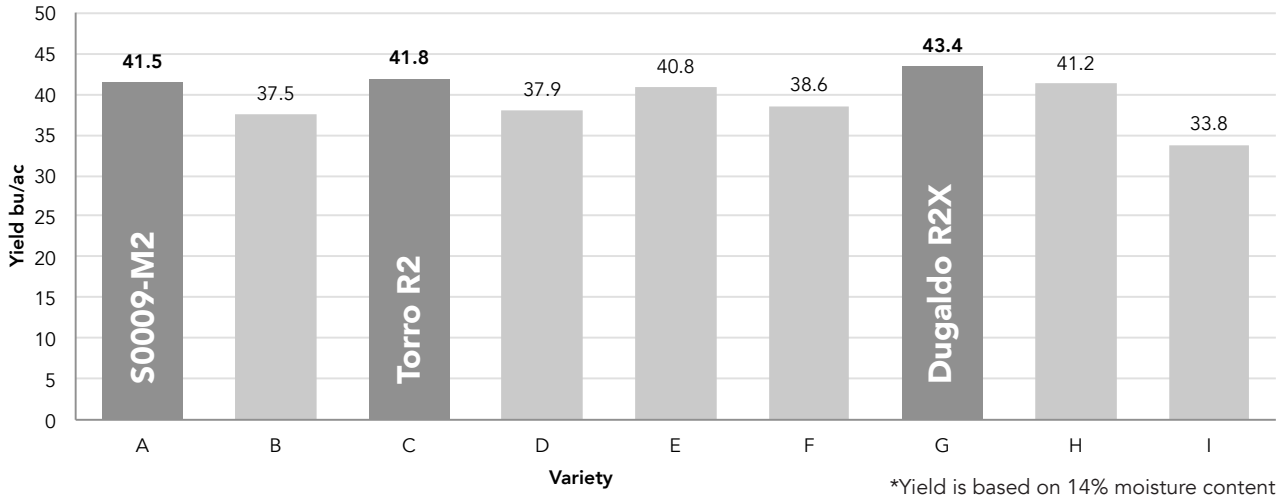
In general, we had very dry growing conditions, and as you travelled north in the region there was more moisture available. Therefore the varieties that had an earlier maturity and higher pod clearance performed better. We saw this especially in Torro and Watson holding true to these comments with Kosmo following right behind in performance.



*Yield is based on 14% moisture content
*3rd party trial data

CODETTE (NIPAWIN), SK Planting Date: May 20th 2017

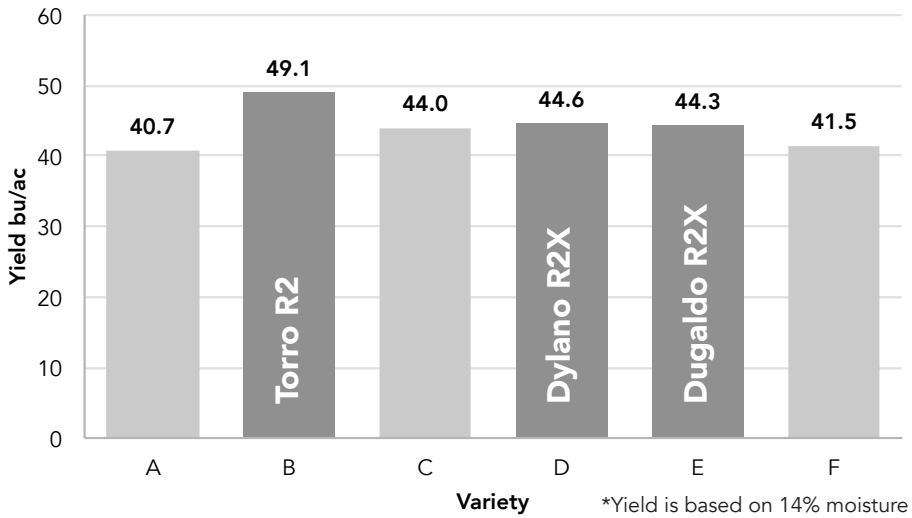
	Variety	Yield	Maturity
A	**S0009-M2 (2275)**	**41.5**	**112**
B	NSC Watson RR2Y (2250)	37.5	113
C	**Torro R2 (2300)**	**41.8**	**113**
D	Exp 1 (2250)	37.9	114
E	Dario R2X (2275)	40.8	115
F	Kosmo R2 (2400)	38.6	118
G	**Dugaldo R2X (2450)**	**43.4**	**121**
H	Exp 2 (2400)	41.2	122
I	Dylano R2X (2425)	33.8	124



*Yield is based on 14% moisture content
*3rd party trial data

STE. ROSE DU LAC, MB Planting Date: May 20th 2017

	Variety	Yield
A	Dario R2X (2275)	40.7
B	**Torro R2 (2300)**	**49.1**
C	Kosmo R2 (2400)	44.0
D	**Dylano R2X (2425)**	**44.6**
E	**Dugaldo R2X (2450)**	**44.3**
F	Domingo R2X (2500)	41.5

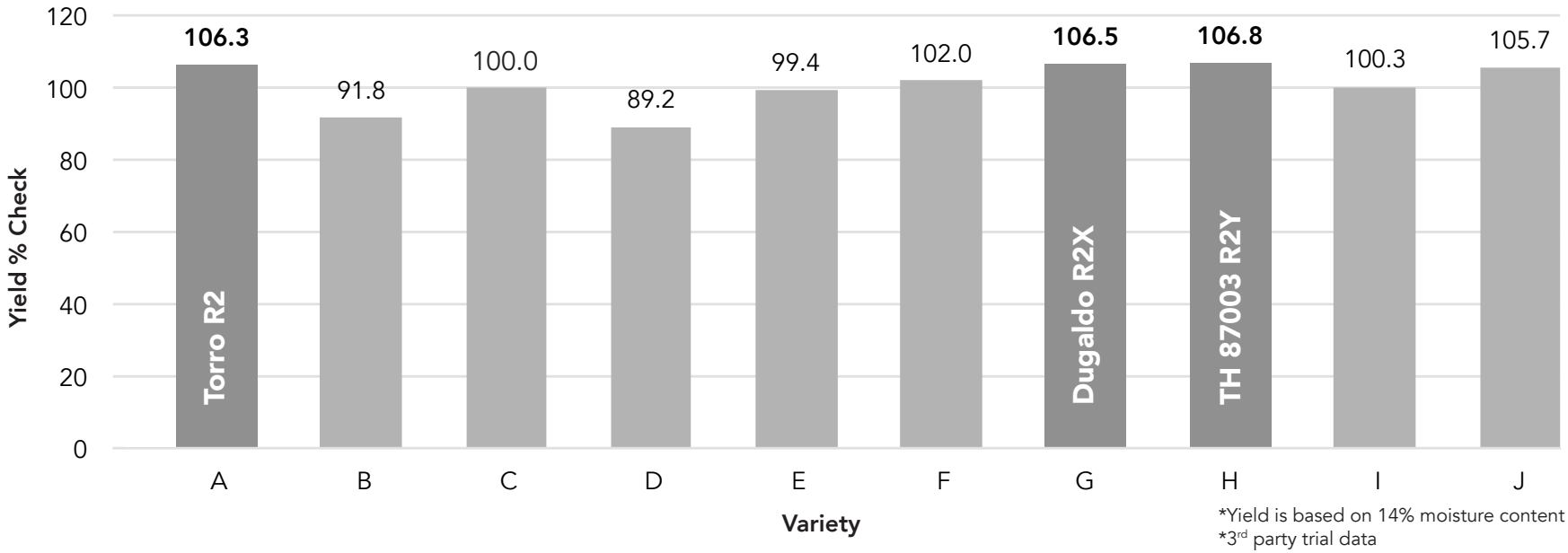


*Yield is based on 14% moisture content
*3rd party trial data

2017 AVERAGE FOR NORTHERN PRAIRIES

	Variety	Yield % Check (S0009-M2)	Maturity
A	**Torro R2 (2300)**	**106.3**	**112**
B	NSC Watson RR2Y (2250)	91.8	112
C	S0009-M2 (2250)	100.0	113
D	TH 87000 R2X (2250)	89.2	114
E	Dario R2X (2275)	99.4	115
F	Kosmo R2 (2400)	102.0	117
G	**Dugaldo R2X (2450)**	**106.5**	**119**
H	**TH 87003 R2Y (2375)**	**106.8**	**120**
I	Dylano R2X (2425)	100.3	121
J	TH 37004 R2Y (2425)	105.7	123

Even amongst the Northern Prairies, some areas can be much warmer or cooler. In the cooler areas, varieties like Dario R2X or earlier should be the only ones considered. In the earlier season varieties, Torro R2 again was the clear winner. Torro R2 has very good spring vigour and excellent pod clearance. As for the warmer areas or with an open fall the slightly later varieties performed as well as the Torro which include; TH 87003, and Dugaldo.



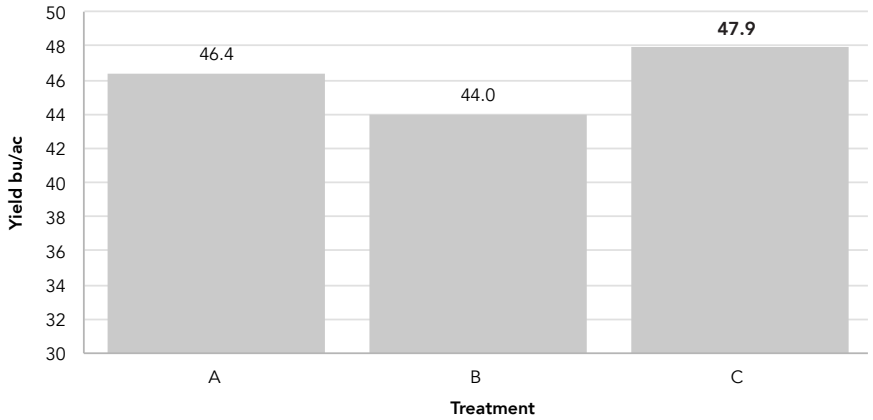
*Yield is based on 14% moisture content
*3rd party trial data

LIQUID INOCULANTS

OAKVILLE,MB Planting Date: May 19th 2017

Dylano R2X

	Treatment	Yield	Yield increase bu/ac
A	Primo on seed / CMVB	46.4	2.4
B	Optimize / CMVB (Check)	44.0	Check
C	**SoyRhizo on seed / CMVB**	**47.9**	**3.9**

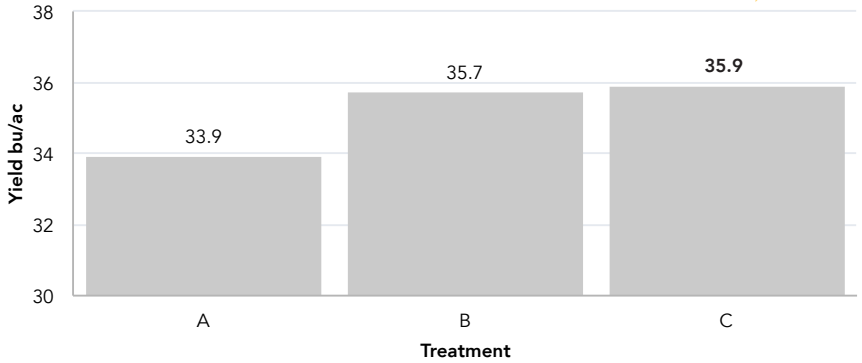


AVERAGE FROM 4 TRIAL SITES

Dylano R2X

	Treatment	Yield	% of check	Yield increase bu/ac
A	Optimize / CMVB (Check)	33.9	Check	Check
B	Primo on seed / CMVB	35.7	105.7	1.8
C	**SoyRhizo on seed / CMVB**	**35.9**	**105.9**	**2.0**

Both Primo and SoyRhizo are superior liquid inoculants, especially in adverse conditions. On average, these products have 6% or 1.5 bu/ac advantage.



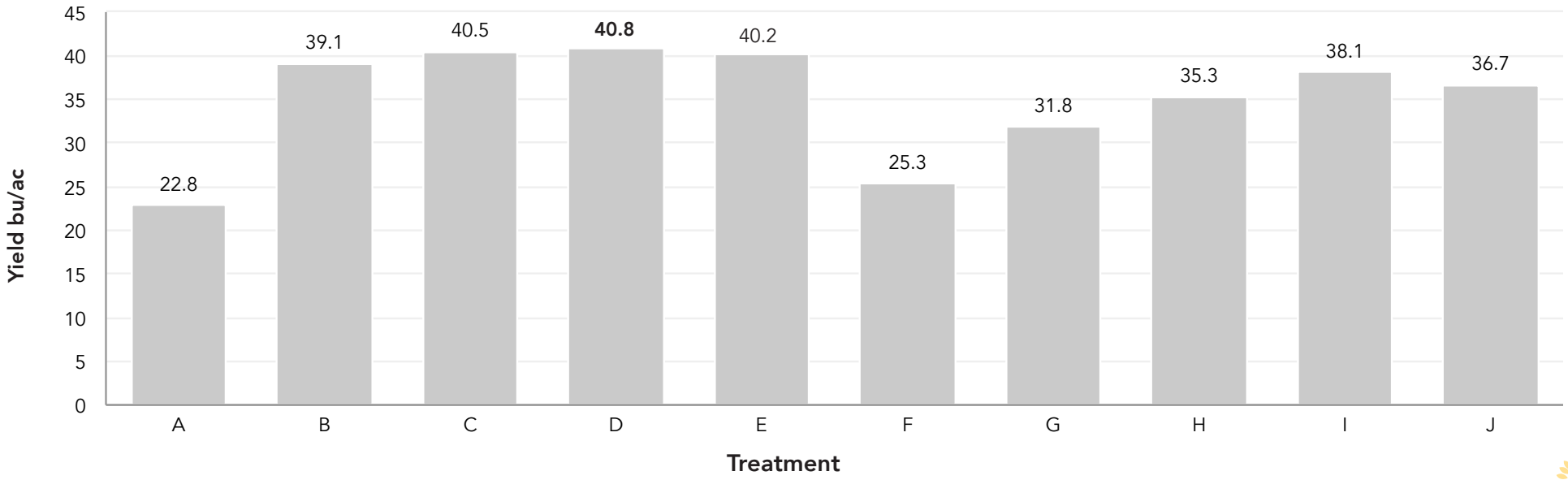
GRANULAR INOCULANTS

CODETTE (NIPAWIN), SK Planting Date: May 20th 2017

Program Dario R2X

	Treatment	Yield bu/ac	Maturity	Yield increase bu/ac over check
A	Optimize (no in furrow inoculant) (Check)	22.8	114	Check
B	Primo on seed / Primo GX2 granular 4 lb/ac	39.1	115	16.3
C	Primo on seed / Primo GX2 granular 8 lbs/ac	40.5	115	17.7
D	**Primo on seed / Primo GX2 granular 12 lbs/ac**	**40.8**	**116**	**18.0**
E	Primo on seed / Primo GX2 granular 16 lbs/ac	40.2	116	17.4
F	Primo (no in furrow inoculant)	25.3	113	2.5
G	Primo on seed / NROW granular 4 lbs/ac	31.8	114	9.0
H	Primo on seed / NROW granular 8 lbs/ac	35.3	115	12.5
I	Primo on seed / NROW granular 12 lbs/ac	38.1	116	15.3
J	Primo on seed / NROW granular 16 lbs/ac	36.7	116	13.9

A good example of how granular inoculants work on relatively new soils to soybeans.



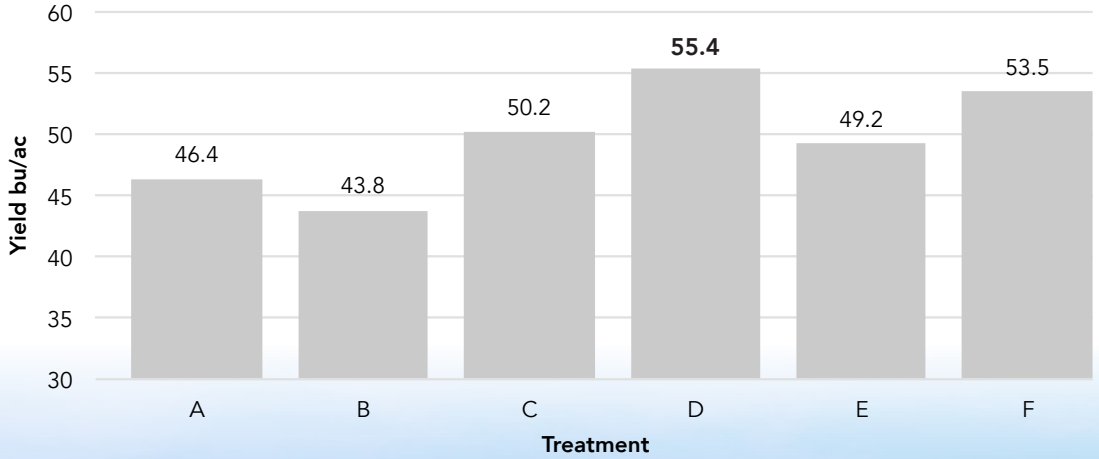
GRANULAR INOCULANTS

OAKVILLE,MB Planting Date: May 19th 2017

Dylano R2X

	Treatment	Yield bu/ac
A	Primo on seed / CMVB	46.4
B	Primo on seed / Primo in furrow / CMVB	43.8
C	Primo on seed / NROW granular 4 lbs/ac / CMVB	50.2
D	**Primo on seed / NROW granular 8 lbs/ac / CMVB**	**55.4**
E	Primo on seed / Primo GX2 granular 4 lbs/ac / CMVB	49.2
F	Primo on seed / Primo GX2 granular 8 lbs/ac / CMVB	53.5

Even on fertile ground like in Oakville, there is an economical response. Remember; granular inoculant costs $1.80/lb



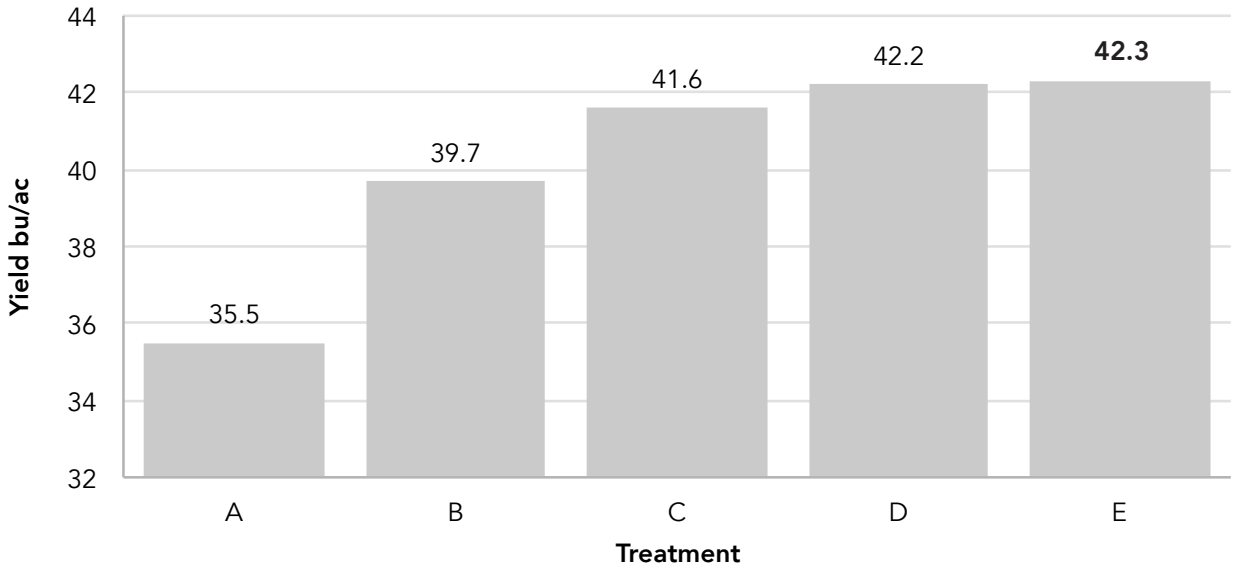
GRANULAR INOCULANTS

AVERAGE FROM 3 TRIAL SITES

Dylano R2X

	Treatment	Winnipeg	Oakville	Codette	Average of 3 Locations
A	Primo on seed / CMVB (Check)	34.8	46.4	25.3	35.5
B	Primo on seed / NROW granular 4 lbs/ac / CMVB	37.5	50.2	31.3	39.7
C	Primo on seed / Primo GX2 granular 4 lbs/ac / CMVB	38.9	49.2	36.6	41.6
D	Primo on seed / NROW granular 8 lbs/ac / CMVB	36.0	55.4	35.3	42.2
E	**Primo on seed / Primo GX2 granular 8 lbs/ac / CMVB**	**35.5**	**53.5**	**38.0**	**42.3**

Quarry Seed's long term data continues to show that a minimum of 8 lbs of granular inoculant should be applied. In newer soybean growing areas, higher rates are recommended.

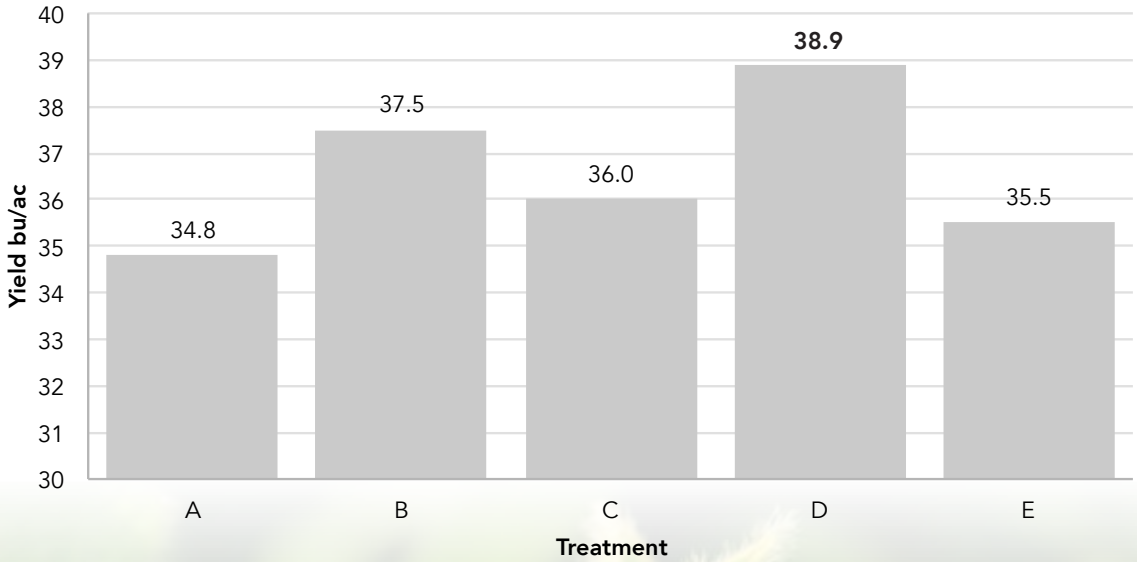


GRANULAR INOCULANTS

WINNIPEG, MB Planting Date: May 19th 2017

	Treatment	Yield bu/ac
A	Primo	34.8
B	Primo on seed / CMVB / 4lbs/ac NROW granular	37.5
C	Primo on seed / CMVB / 8lbs/ac NROW granular	36.0
D	**Primo / CMVB / 4lbs/ac Primo GX2 granular**	**38.9**
E	Primo / CMVB / 8lbs/ac Primo GX2 granular	35.5

There still is an economic response of 2 bu/ac when using 4lbs granular inoculant.

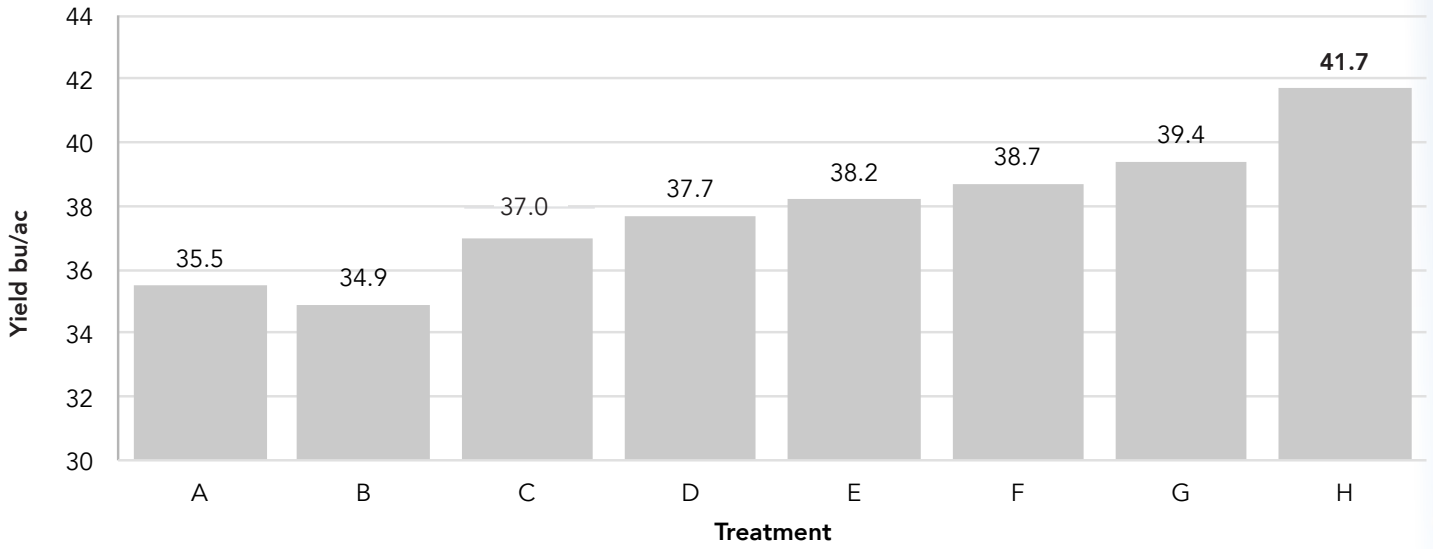


SIDEBAND APPLIED FERTILITY

HALBRITE, SK Planting Date: May 20th 2017

	Treatment	Yield bu/ac	Maturity
A	No Fertilizer (Check)	35.5	Check
B	20 lbs phosphate	34.9	98.3
C	40 lbs phosphate	37.0	104.2
D	20 lbs potassium	37.7	106.2
E	40 lbs potassium	38.2	107.9
F	20 lbs phosphate / 20 lbs potassium	38.7	109.0
G	20 lbs phosphate / 60 lbs potassium	39.4	111.0
H	**20 lbs phosphate / 100 lbs potassium**	**41.7**	**117.5**

Somewhat consistent to Quarry Seed's long term average, generally beans respond well to phosphate and potassium depending on soil fertilities.

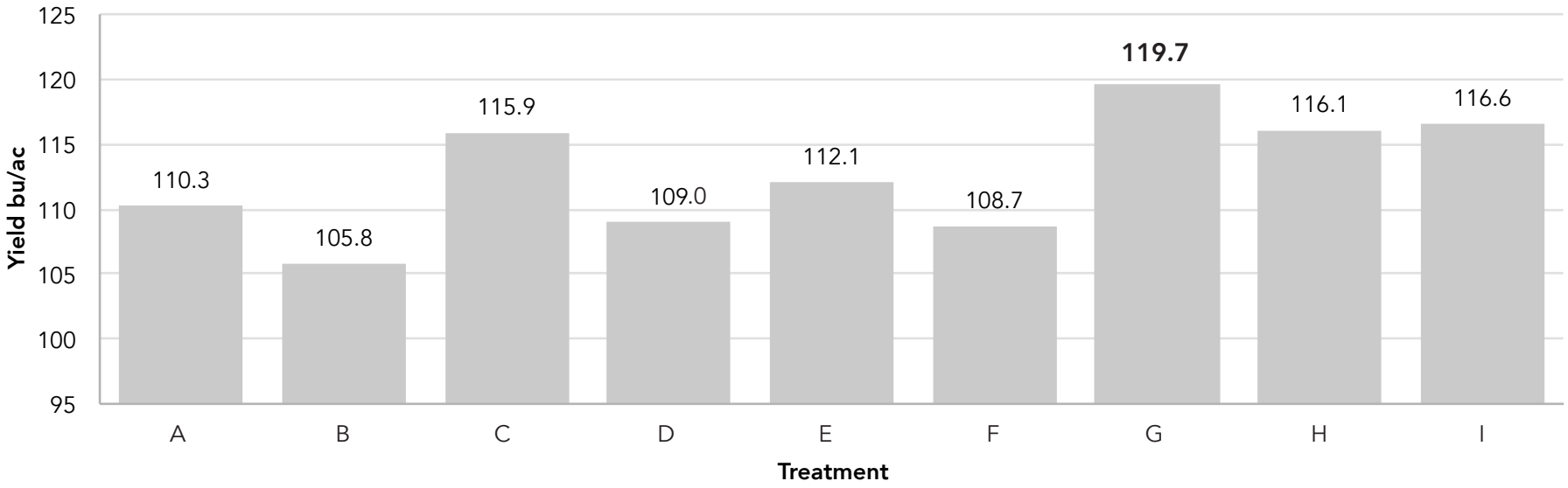


LIQUID STARTER AND BIOLOGICALS

OAKVILLE, MB FERTILITY TRIAL ON CORN Planting Date: May 19th 2017

	Treatment	Yield bu/ac	Moisture
A	2 gal/ac 10-34-0	110.3	27.4
B	4 gal/ac 10-34-0	105.8	27.0
C	6 gal/ac 10-34-0	115.9	26.6
D	8 gal/ac 10-34-0	109.0	26.0
E	10 gal/ac 10-34-0	112.1	27.0
F	4 gal/ac 10-34-0 / Avail in furrow	108.7	28.1
G	**6 gal/ac 10-34-0 / Avail in furrow**	**119.7**	**27.1**
H	4 gal/ac 10-34-0 / Avail / Accolade in furrow	116.1	26.6
I	4 gal/ac 10-34-0 / 3 lbs/ac liquid zinc in furrow	116.6	25.9

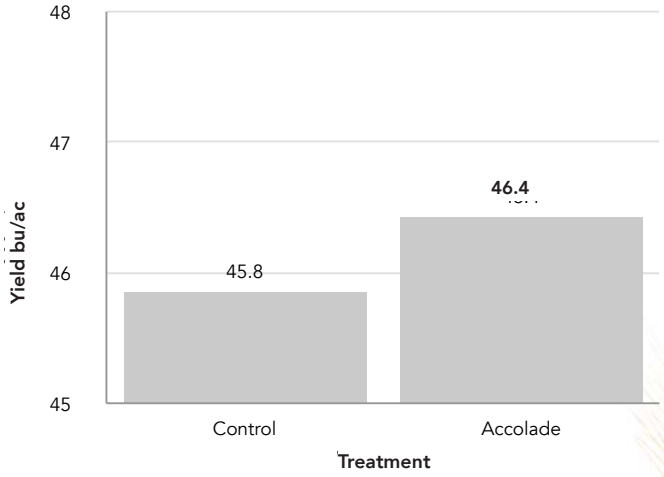
10-34-0 shows a clear ecomonic response as a starter fertilizer. In 3 years of trials, the addition of Avail and Accolade has shown a large yield increase. Note: liquid zinc on its own also shows a yield increase.



ACCOLADE TRIAL ON WINTER WHEAT

HALBRITE, SK Planting Date: May 19th 2017

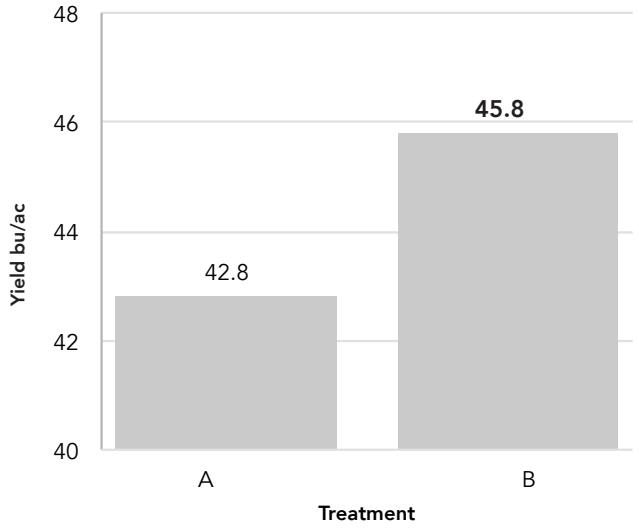
Treatment	Weight	Acres	Yield bu/ac	Percentage
Control	8280	3.01	45.8	100.0
Accolade	**8440**	**3.03**	**46.4**	**101.2**



OAKVILLE, MB Planting Date: May 19th 2017

Dylano R2X

	Treatment	Yield bu/ac
A	SoyRhizo on seed / SoyRhizo in furrow 175 ml/ac / CMVB	42.8
B	**SoyRhizo on seed / Yield+ in furrow / CMVB**	**45.8**

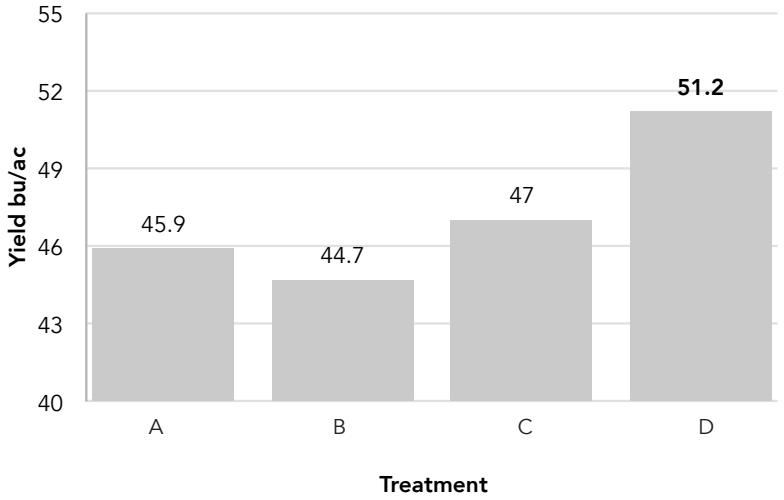


MICRONUTRIENT TRIAL

OAKVILLE, MB Planting Date: May 19th 2017

Dylano R2X

	Treatment	Yield bu/ac
A	Primo on seed / Nutri Pak / CMVB	45.9
B	SoyRhizo on seed / Nutri Pak / CMVB	44.7
C	Primo on seed / Nutri Pak / CMVB / ValuPak (post emerg)	47.0
D	**Primo on seed / Nutri Pak / CMVB / BorPak / ValuPak (post emerg)**	**51.2**



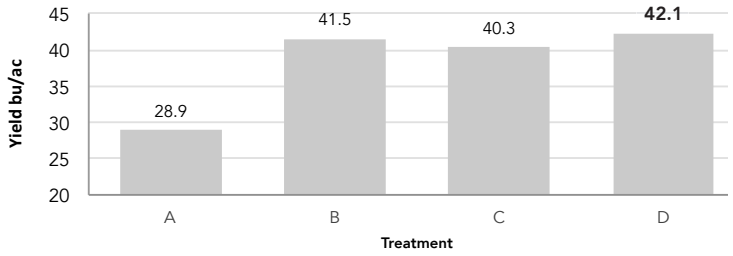
BIOLOGICAL AND MICRONUTRIENT TRIAL

CODETTE, SK Planting Date: May 19th 2017

Dario R2X

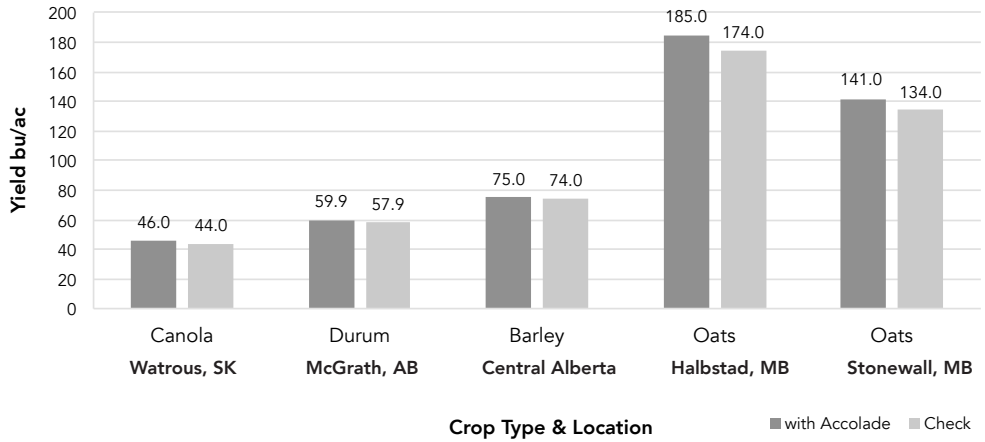
2017 was Quarry Seed's first year testing AgXplore products. The BorPak showed a significant yield increase and we will continue to test a number of these products.

	Treatment	Yield bu/ac	Maturity
A	Primo on seed	28.9	113
B	Primo on seed / NROW granular / CMVB / Nutri Pak	41.5	114
C	Primo on seed / NROW granular / CMVB / Nutri Pak / ValuPak (post emerg)	40.3	115
D	**Primo on seed / NROW granular / CMVB / Nutri Pak / ValuPak (post emerg) / BorPak**	**42.1**	**114**



ACCOLADE ON SEED TRIAL 2017

Location	Crop	Yield bu/ac	Check	Yield increase bu/ac	% Of Check
Watrous, SK	Canola	46.0	44.0	2.0	104.55
McGrath, AB	Durum	59.9	57.9	2.0	103.45
Central Alberta	Barley	75.0	74.0	1.0	101.35
Halbstad, MB	Oats	185.0	174.0	11.0	106.32
Stonewall, MB	Oats	141.0	134.0	7.0	105.22



Accolade on Canola

		Per Acre
Gross Revenue	2 bu/ac increase * $11/bu	$ 22.00
Accolade cost	5 lbs/ac seeding rate at $0.25/lb	$ 1.25
Gross Return		**$ 20.75**

Accolade on Durum

		Per Acre
Gross Revenue	2 bu/ac increase * $6.50/bu	$ 13.00
Accolade cost	2 bu/ac seeding rate at $2.40/bu	$ 4.80
Gross Return		**$ 8.20**

Accolade on Barley

		Per Acre
Gross Revenue	1 bu/ac increase * $4.50/bu	$ 4.50
Accolade cost	2 bu/ac seeding rate at $2.40/bu	$ 4.80
Gross Return		**$ -0.30**

Accolade on Oats 1

		Per Acre
Gross Revenue	11 bu/ac increase * $3.25/bu	$ 35.75
Accolade cost	2.5 bu/ac seeding rate at $2.40/bu	$ 6.00
Gross Return		**$ 29.75**

Accolade on Oats 2

		Per Acre
Gross Revenue	7 bu/ac increase * $3.25/bu	$ 22.75
Accolade cost	2.5 bu/ac seeding rate at $2.40/bu	$ 6.00
Gross Return		**$ 16.75**

AVAIL TRIAL 2017

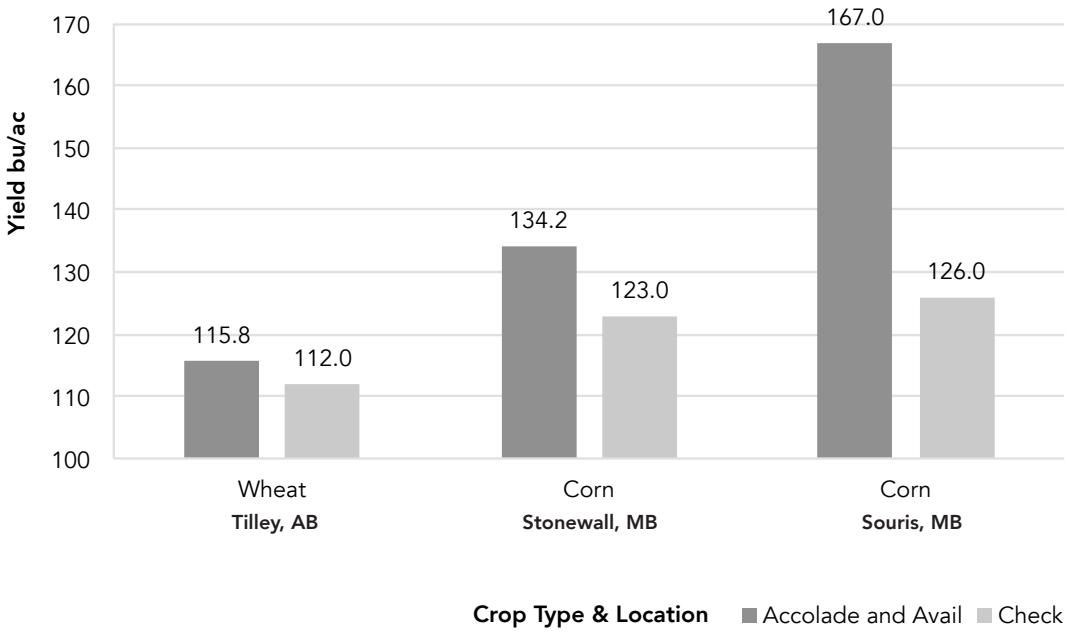
Location	Crop	Yield bu/ac	Check	Yield increase bu/ac	% Of Check
Stonewall, MB	Corn	129.0	123.0	6	104.88

Avail with 10-34-0 in furrow on corn

		Per Acre
Gross Revenue	6 bu/ac increase * $4/bu	$ 24.00
Avail cost	6 gal/ac rate	$ 7.70
Gross Return		**$ 16.30**

ACCOLADE AND AVAIL TRIAL 2017

Location	Crop	Yield bu/ac	Check	Yield increase bu/ac	% Of Check
Tilley, AB	Wheat	115.8	112.0	3.8	103.39
Stonewall, MB	Corn	134.2	123.0	11.2	109.11
Souris, MB	Corn	167.0	126.0	41.0	132.54



Avail and Accolade on wheat in furrow

		Per Acre
Gross Revenue	3.8 bu/ac increase * $6.50/bu	$ 24.70
Avail cost	4 gal/ac rate	$ 5.10
Accolade cost	70 acres per case	$ 4.00
Gross Return		**$ 15.60**

Avail and Accolade on corn in furrow 1

		Per Acre
Gross Revenue	11.2 bu/ac increase * $4/bu	$ 44.80
Avail cost	6 gal/ac rate	$ 7.70
Accolade cost	70 acres per case	$ 4.00
Gross Return		**$ 33.10**

Avail and Accolade on corn in furrow 2

		Per Acre
Gross Revenue	41 bu/ac increase * $4/bu	$164.00
Avail cost	5 gal/ac rate	$ 6.40
Accolade cost	70 acres per case	$ 4.00
Gross Return		**$153.60**

Avail and Accolade on peas with Primo GX2 Pulse granular

		Per Acre
Gross Revenue	8 bu/ac increase * $6/bu	$ 48.00
Avail cost	$4.50	$ 4.50
Accolade (equivalent) cost	117 bu per case	$ 6.84
Gross Return		**$ 36.66**

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