

AGTIV®



EFFICACY REPORT 2026
CEREALS



DURUM WHEAT

AVERAGE YIELD INCREASE

AGTIV®
REACH®

3.5 bu/ac
5.8%

237 kg/ha
14 sites over 12 years
Canada

AGTIV®
IGNITE®

4.1 bu/ac
8.5%

276 kg/ha
13 sites over 5 years
Canada



Durum wheat split field with AGTIV® vs untreated.
More uniform field, head and spikes almost all out on the right.



Young wheat plants whose root systems show better growth with AGTIV®
and the plants are stronger with more leaves.
Better nitrogen absorption through the more developed root system.



► SPLIT FIELD DEMOS

Research partners: Growers

Research sites:

- Canada;
- Europe.

Treatments*: a) Untreated check;
b) AGTIV REACH®.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Split field: 45 demos

Table 1. Average yield increase with AGTIV REACH® in Canada and Europe

Number of sites	Average increase (%)
45	6.4%

Table 2. Average yield increase with AGTIV REACH® in Canada

Number of sites	Average increase (bu/ac)	Average increase (%)
14	3.5	5.8%

Table 3. Average yield increase with AGTIV® mycorrhizal inoculant in France and Germany, Europe

Number of sites	Average increase (bu/ac)	Average increase (%)
31	8.3	6.5%

► PLOT TRIAL

Research partner: Eurofins Agrosience Services

Research site: Beauce, France

Treatments: a) Untreated check;
b) AGTIV® FIELD CROPS • Powder*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design, 8 repetitions.

Variety: Anvergur

Previous crop: Sugar beet

Seeding details: Seeded on November 15 at 300 seeds/m² with 15 cm row spacing.

Table 1. Summary of yields per treatment

Treatment	Yield ¹ (bu/ac)	Yield ¹ (t/ac)
Untreated check	142.8 ^a	9.6 ^a
AGTIV® FIELD CROPS • Powder	155.2 ^b	10.4 ^b

¹ Yields with same letter are not statistically different according to a Tukey HSD test (p≤0.05).

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:

- N:P+S (450 kg/ha): February 18
- Ammonitrate (290 kg/ha): March 18

Pesticides:

- Atlantis Pro: March 21
- Priori Xtra: April 21
- Bofix and Chardol: April 23
- Rubric 125 SC: May 15
- Prosaro: May 29

Harvesting: July 25, 2019

Month	Precipitation (mm)
November	96.7
December	57.9
January	41.2
February	34.3
March	77.5
April	30.8
May	79.2
June	70.7
TOTAL	488.3



► PLOT TRIAL

Research partner: Wheatland Conservation Area Inc.

Research site: Swift Current, SK

Treatments: a) Untreated check;
b) AGTIV® FIELD CROPS • Granular*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design, 4 repetitions.

Variety: Precision durum

Previous crop: Canola stubble

Seeding details: Seeded with fabro plot drill & Atomjet knife openers on May 13, at 115 lb/ac on 20 m² plots with 9 in row spacing.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: • 21-0-0-24 (58 lb/ac)
• 11-52-0 (67 lb/ac)
• 46-0-0 (111 lb/ac)

Pesticides: Clean Start: pre-seeding

Harvesting: Combined on August 9, 2018.

Month	Precipitation (mm)
May	8.8
June	23.6
July	15.1
August	28.3
TOTAL	75.8

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield (kg/ha)
Untreated	12.0	806
AGTIV® FIELD CROPS • Granular	13.3	894

EFFICACY REPORT
SUMMARY – SERENDIPITA ON SEED INOCULANT

DURUM WHEAT



► PLOT TRIALS

Research partners:

- Ag-Quest;
- Murphy et al Inc.;
- Prairie Ag Research Inc.;
- Small Plot Inc.;
- Wheatland Conservation Area Inc.

Research sites:

- Alberta;
- Saskatchewan.

Treatments*:

- a) Untreated check;
- b) AGTIV IGNITE® L.

*Products applied according to the manufacturer's recommended rate.

Experimental design:

Randomized Complete Block Design:
10 trials (6-8 repetitions each)

► GROWER DEMONSTRATIONS

Experimental design:

Split field: 3 demos

Table 1. **Summary of yield (bu/ac) per trial**

Year	Sites	Untreated check yield	AGTIV IGNITE® L yield	Yield increase
2021	Lethbridge	66.7	73.3	6.6
	Vulcan	25.8	28.8	3
	Taber	39	40.6	1.6
	Swift Current	11.8	14.4	2.6
2022	Lethbridge	50.2	59	8.8
	Swift Current	54	55.8	1.8
	Vulcan	29.2	31	1.8
	Taber	27.3	31.8	4.5
2023	Raymond	53	56.1	3.1
	Lethbridge	32.6	34.6	2

EFFICACY REPORT
2023 – SERENDIPITA INOCULANT

DURUM WHEAT



AGTIV

IGNITE

► PLOT TRIAL

Research partners: Prairie Ag Research Inc.

Research sites: Raymond, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block,
6 repetitions, 12 m² plots

Variety: Grainland

Previous crop: Spring barley

Seeding details: Seeded on May 12 with a cone seeder at a rate of 100 kg/ha
in a clay loam soil (pH: 7.3, OM: 3.7%).
Emergence on May 19.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: None

Pesticides: • Glyphosate: May 11
• Pardner: June 19

Harvesting: August 30, 2023

Month	Precipitation (mm)
May	13.2
June	30.1
July	7.8
August	26.2
TOTAL	64.3

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	53.0	-
AGTIV IGNITE® L	56.1	3.1





► PLOT TRIAL

Research partners: Murphy et al Inc.

Research sites: Lethbridge, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block,
6 repetitions, 12.0 m² plots.

Variety: Stronghold Cert #1 treated with Raxil Pro

Previous crop: Canola

Seeding details: Seeded on May 31 with a cone seeder at a rate of 110 kg/ha in
clay soil (pH: 8.2, OM: 1.6 %).

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	32.6	-
AGTIV IGNITE® L	34.6	2.0

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 28-10-11-3 (310 kg/ha): May 31

Pesticides:

- OcTTain XL(450 mL/ac): June 20
- 2,4-D (86 mL/ac): June 20 and July 15
- Dicamba (117 mL/ac): July 15

Harvesting: September 5, 2023

Month	Precipitation (mm)	Irrigation (mm)
May	17.8	19.1
June	36.3	69.9
July	13.3	151.3
August	10.7	50.8
TOTAL	78.1	291.1



► PLOT TRIAL

Research partner: Prairie Ag Research Inc.

Research site: Lethbridge, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
6 repetitions, 12 m² plots.

Variety: Grainland

Previous crop: Fallow

Seeding details: Seeded on May 23, with a cone seeder at a rate of 100 kg/ha in a
clay loam soil (pH: 7.4, OM: 4%).
Emergence on May 30.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: None

Pesticides: • Glyphosate: May 20
• Infinity: June 30

Harvesting: September 14, 2022

Month	Precipitation (mm)
May	17.5
June	140.5 *
July	204.3 *
August	84.9 *
September	9.7
TOTAL	456.9

* Plots were irrigated during those months.

Table 1. Summary of yields per treatment

Treatment	Yield ¹ (bu/ac)	Yield increase (bu/ac)
Untreated check	50.2 ^b	-
AGTIV IGNITE® L	59.0 ^a	8.8

¹ Yield mean with the same letter are not statistically different according to a Tukey HSD test (p≤0.05).



► PLOT TRIAL

Research partner: Wheatland Conservation Area Inc.

Research site: Swift Current, SK

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 17 m² plots.

Variety: Alloy

Previous crop: Wheat

Seeding details: Seeded on May 18, with a cone seeder at a rate of 123 kg/ha in a sandy loam soil (pH: 6.1, OM: 2.7%).

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	54.0	-
AGTIV IGNITE® L	55.8	1.8

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 30-15-0-6 (374 kg/ha): sidebanded on June 8.

Pesticides: • RT540: May 2
• Achieve: June 8

Harvesting: August 16, 2022

Month	Precipitation (mm)
May	51.2
June	37.7
July	90.4
August	7.5
TOTAL	186.8



► PLOT TRIAL

Research partner: Small Plot Inc.

Research site: Vulcan, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 16 m² plots.

Variety: Spitfire

Previous crop: Rye

Seeding details: Seeded on May 16, with a plot drill machine at a rate of 130 kg/ha
in a clay loam soil (pH: 7.6, OM: 3%).
Emergence on May 28.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 60-15-15-6 kg/ha: sidebanded on May 16.

Pesticides:

- Epic: June 25
- Stellar XL: June 25
- ZIVATA: June 25

Harvesting: August 30, 2022

Table 1. Summary of yields per treatment.

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	29.2	-
AGTIV IGNITE® L	31.0	1.8

Month	Precipitation (mm)
May	9.8
June	136.8
July	86.0
August	18.1
TOTAL	250.7

► PLOT TRIAL

Research partner: Ag-Quest

Research site: Vulcan, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
6 repetitions, 22.5 m² plots.

Variety: Strongfield

Previous crop: Rye

Seeding details: Seeded on May 17, 2022, with a cone seeder at a rate of 117 kg/ha
in a sandy loam soil (pH: 7.8, OM: 2.6%). Emergence on May 20.

Table 1. Summary of yields per treatment.

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	27.3	-
AGTIV IGNITE® L	31.8	4.5

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 5-20-5 kg/ha prior to seeding

Pesticides: • Roundup Transorb: May 18
• Achieve liquid: June 19 and July 6
• Infinity: July 6

Harvesting: August 30, 2022

Month	Precipitation (mm)
May	16.1
June	78.2
July	204.3*
August	89.3*
TOTAL	387.9

* Plots were irrigated during those months.



► PLOT TRIAL

Research partner: Prairie Ag Research Inc.

Research site: Lethbridge, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 12 m² plots.

Variety: Grainland

Previous crop: Barley

Seeding details: Seeded on May 31, with a cone seeder at a rate of 100 kg/ha in a
clay loam soil (pH: 7.4, OM: 2.9%).
Emergence on June 7.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: None

Pesticides:

- Glyphosate: May 31
- Achieve: June 28
- Infinity: June 28
- Turbocharge: June 28

Harvesting: September 14, 2021

Month	Precipitation (mm)
May	33.1
June	76.5
July	70.3
August	35.6
TOTAL	215.5

Table 1. Summary of yields and protein per treatment

Treatment	Yield ¹ (bu/ac)	Yield increase (bu/ac)	Protein (%)
Untreated check	66.7 ^b	-	19.2
AGTIV IGNITE® L	73.3 ^a	6.6	20.3

¹ Yields with same letter are not statistically different according to a Tukey HSD test (p≤0.05).



► PLOT TRIAL

Research partner: Small Plot Inc.

Research site: Vulcan, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 32 m² plots.

Variety: Spitfire

Previous crop: Oats

Seeding details: Seeded on May 16, with a plot drill machine at a rate of 115 kg/ha
in a loam soil (pH: 7.5, OM: 3%). Emergence on May 20.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 70-20-20-20 kg/ha sidebanded at seeding.

Pesticides: ZIVATA: July 25

Harvesting: August 30, 2021

Month	Precipitation (mm)
May	167
June	109
July	152
August	163
TOTAL	591

Table 1. Summary of yields per treatment.

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	25.8	-
AGTIV IGNITE® L	28.8	3.0

EFFICACY REPORT

2021 – SERENDIPITA INOCULANT

DURUM WHEAT 

AGTIV

IGNITE

► PLOT TRIAL

Research partner: Ag-Quest

Research site: Taber, AB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 22.5 m² plots.

Variety: Strongfield

Previous crop: Rye

Seeding details: Seeded on June 6, with a cone seeder at a rate of
130 kg/ha in a loam soil (pH: 7.8, OM: 2.2%).
Emergence on June 20.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: None

Pesticides:

- Achieve: July 2
- Infinity: July 2
- Axial Herbicide: July 16

Harvesting: September 3, 2021.

Month	Precipitation (mm)
May	24.8
June	89.9
July	78.5
August	53.7
TOTAL	246.9

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	39	-
AGTIV IGNITE® L	40.6	1.6



► PLOT TRIAL

Research partner: Wheatland Conservation Area Inc.

Research site: Swift Current, SK

Treatments: a) Untreated check;
b) AGTIV IGNITE® L*.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 18 m² plots.

Variety: Transcend

Previous crop: Barley

Seeding details: Seeded on May 28, with a cone seeder at a rate of
130 kg/ha in a sandy loam soil (pH: 6.5, OM: 2.7%).
Emergence on June 11.

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	11.8	-
AGTIV IGNITE® L	14.4	2.6

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 30-15-06-6 sidebanded at seeding (374 kg/ha)

Pesticides:

- Aim EC: May 4
- RT540: May 4
- Achieve: June 17
- Buctril: June 17

Harvesting: August 27, 2021

Month	Precipitation (mm)
May	44.1
June	74.5
July	51.9
August	43.2
TOTAL	213.7



SPRING WHEAT

AVERAGE YIELD INCREASE

AGTIV[®]
IGNITE

4.0 bu/ac
8.9%

269 kg/ha
5 sites over 3 years
Canada



► PLOT TRIALS

Research partners:

- Ag-Quest;
- New Era Technologies.

Research sites:

- Manitoba;
- Saskatchewan.

Treatments*:

- a) Untreated check;
- b) AGTIV IGNITE® L.

*Products applied according to the manufacturer's recommended rate.

Experimental design:

Randomized Complete Block Design:
2 trials (6 repetitions each)

► GROWER DEMONSTRATIONS

Experimental design:

Split field: 3 demos

Table 1. Summary of yield (bu/ac) per trial

Year	Sites	Untreated check yield (bu/ac)	AGTIV IGNITE® L yield (bu/ac)	Yield increase (bu/ac)
2023	Swan River	68.1	74.7	6.6
2023	Saskatoon	13.9	17.6	3.7



► PLOT TRIAL

Research partners: New Era Technologies

Research sites: Swan River, MB

Treatments: a) Untreated check;
b) AGTIV IGNITE® L.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block,
6 repetitions, 16.95 m² plots.

Variety: AAC Wheatland treated with Raxil Pro

Previous crop: Peas

Seeding details: Seeded on May 11 with an air drill at a rate of 139 lb/ac in a sandy loam soil (pH: 7.0, OM: 4.1%).
Emergence on May 16.

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	68.1	-
AGTIV IGNITE® L	74.7	6.6

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 46-0-0 (259 lb/ac): May 16
11-52-0 (67 lb/ac): May 16

Pesticides:

- Fortress: May 9
- Stellar XL (405 mL/ac): June 7
- Decis (30 mL/ac): June 7
- Miravis Neo 300SE (303 mL/ac): June 13
- Miravis Ace (405 mL/ac): July 6

Harvesting: September 3, 2023

Month	Precipitation (mm)
May	19.7
June	45.3
July	33.0
August	118.2
September	5.6
TOTAL	221.8



► PLOT TRIAL

Research partners: Ag-Quest Inc

Research sites: Saskatoon, SK

Treatments: a) Untreated check
b) AGTIV IGNITE[®] L

*Products applied according to the manufacturer's recommended rate.

Experimental design: Randomized Complete Block,
6 repetitions, 8.74 m² plots.

Variety: AAC Wheatland treated with Vibrance Quattro

Previous crop: Oat

Seeding details: Seeded on May 23 with a cone seeder at a rate of 90 kg/ha in a loam soil (pH: 5.9, OM: 3.8%).

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	13.9	-
AGTIV IGNITE [®] L	17.6	3.7

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: Fertilizer blend of 1-52-0 + 0-0-60 (136 kg/ha)

Pesticides:

- Glyphosate (0.67 L/ac): May 15
- Aim (30 mL/ac): May 15
- Everest 2.0 (24.3 mL/ac): June 7
- Foothills NG (376 mL/ac): June 14
- Coragen Max (83 mL/ac): June 16
- Reglone Ion (84 mL/ac): August 23

Harvesting: September 27, 2023

Month	Precipitation (mm)
May	47.9
June	52.4
July	19.0
August	41.3
September	14.7
TOTAL	175.3



BARLEY

AVERAGE YIELD INCREASE



AGTIV
REACH

6.4 bu/ac
7.5%
344 kg/ha

34 sites over 14 years
Canada and Europe

AGTIV
IGNITE

4.3 bu/ac
5.3%
231 kg/ha
7 sites over 3 years
Canada

EFFICACY REPORT

SUMMARY – MYCORRHIZAL INOCULANT

► SPLIT FIELD DEMOS

Research partners: Growers

Research sites:

- Canada;
- Europe.

Treatments*:

- a) Untreated;
- b) AGTIV REACH®.

*Products applied according to the manufacturer's recommended rate.

Experimental design: Split field: 28 demos

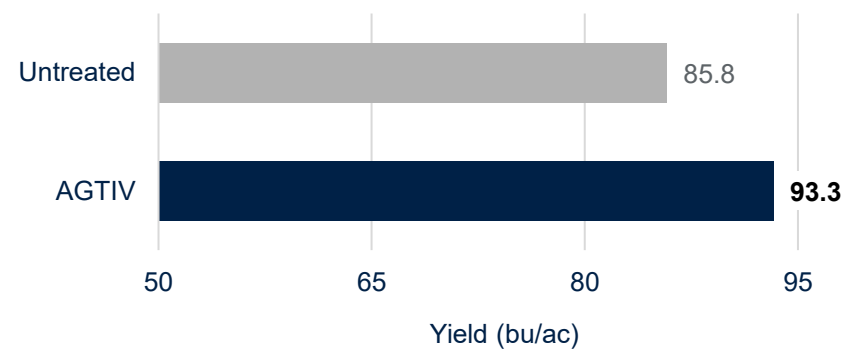


Barley plants have an increased root mass on the right with AGTIV®, which leads to enhanced plant health and growth.

Table 1. Average yield increase with AGTIV REACH®

Number of sites	Average increase (bu/ac)	Average increase (kg/ha)	Average increase (%)
28	7.5	394.4	8.7%

Figure 1. Average yield increase with AGTIV® mycorrhizal inoculant in Canada and Europe (28 sites, 2012 to 2017).



► PLOT TRIALS

Research partners:

- Ag-Quest;
- New Era Ag Research;
- Northeast Agriculture Research Foundation;
- Prairie Ag Research Inc.;
- Wheatland Conservation Area Inc.

Research sites:

- Manitoba;
- Saskatchewan.

Treatments*:

- a) Untreated check;
- b) AGTIV IGNITE® L.

*Products applied according to the manufacturer’s recommended rate.

Experimental design:

Randomized Complete Block Design:
6 trials (6-8 repetitions each)

► GROWER DEMONSTRATION

Experimental design:

Split field: 1 demo

Table 1. Summary of yield (bu/ac) per trial and demo

Year	Sites	Untreated check yield (bu/ac)	AGTIV IGNITE® L yield (bu/ac)	Yield increase (bu/ac)
2023	Elm Creek	101.9	104	2.1
	Swift Current	22.8	25.6	2.8
	Petruic Family farm	59.5	70.7	11.2
2025	Melfort	114.0	116.9	2.9
	Raymond	105.0	106.7	1.7
	Swan River	114.0	119.0	5.0
	Swift Current	52.9	57.1	4.2

► PLOT TRIAL

Research partner:	Northeast Agriculture Research Foundation
Research site:	Melfort, SK
Treatments*:	a) Untreated check; b) AGTIV IGNITE® L; c) Competitor inoculant B.
	*Products applied according to the manufacturer’s recommended rate.
Experimental design:	Randomized Complete Block Design, 8 repetitions, 16.5 m² plots.
Variety:	Claymore treated with Raxil Pro
Previous crop:	Canola
Seeding details:	Seeded on May 12 with a Fabro plot seeder at a rate of 167 lb/ac in a clay soil (pH: 7.1, OM: 5.7%). Emergence on May 28.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:	46-0-0 (151 kg/ha) and blend of 11-52-0 + 0-0-60-21-0-0-24S (73 kg/ha): May 12
Pesticides:	• Avadex (1.2 L/ac): May 15 • StartUp (650 mL/ac): May 15 • Puma Advance (413 mL/ac): June 11 • Momentum (0.45 L/ac): June 20 • MCPA (0.38 L/ac): June 20 • StartUp (670 mL/ac): August 28
Harvesting:	September 8, 2025

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	114.0	-
AGTIV IGNITE® L	116.9	2.9
Competitor inoculant B	113.9	-

Month	Precipitation (mm)
May	4.8
June	93.0
July	26.0
August	114.0
September	20.0
TOTAL	257.8

► PLOT TRIAL

Research partner: Prairie Ag Research Inc.

Research site: Raymond, AB

Treatments*: a) Untreated check;
b) AGTIV IGNITE® L;
c) Competitor inoculant B.

*Products applied according to the manufacturer’s recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 14 m² plots.

Variety: CDC Austenson

Previous crop: Spring Barley (silage)

Seeding details: Seeded on May 25 with a cone planter at a rate of 100 kg/ha
in a clay loam soil (pH: 7.7, OM: 3.8%).
Emergence on June 2.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: None

Pesticides: Infinity: June 18

Harvesting: September 5, 2025

Month	Precipitation (mm)	Irrigation (mm)
May	43.8	25.0
June	96.9	
July	103.5	25.0
August	27.9	
TOTAL	272.1	50.0

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	105.0	-
AGTIV IGNITE® L	106.7	1.7
Competitor inoculant B	108.3	3.3

► PLOT TRIAL

Research partner:	New Era Ag Research
Research site:	Swan River, MB
Treatments*:	a) Untreated check; b) AGTIV IGNITE® L; c) Competitor inoculant B.
	*Products applied according to the manufacturer’s recommended rate.
Experimental design:	Randomized Complete Block Design, 8 repetitions, 30 m² plots.
Variety:	CDC Austenson treated with Vibrance Quattro
Previous crop:	Field pea
Seeding details:	Seeded on May 13 with a plot planter at a rate of 132 kg/ha in a sandy loam soil (pH: 7.5, OM: 3.9%). Emergence on May 23.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:	Blend of 46-0-0 + 11-52-0 (117 kg/ha): May 8
Pesticides:	• Stellar XL (0.405 L/ac): June 5 • Tilt 250EC (0.2L/ac): June 20
Harvesting:	August 31, 2025

Month	Precipitation (mm)
May	17.7
June	100.6
July	11.5
August	185.6
TOTAL	315.4

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	114.0	-
AGTIV IGNITE® L	119.0	5.0
Competitor inoculant B	113.4	-

EFFICACY REPORT
2025 – SERENDIPITA INOCULANT

► PLOT TRIAL

Research partner: Wheatland Conservation Area Inc.

Research site: Swift Current, SK

Treatments*: a) Untreated check;
b) AGTIV IGNITE® L;
c) Competitor inoculant B.

*Products applied according to the manufacturer’s recommended rate.

Experimental design: Randomized Complete Block Design,
8 repetitions, 21.8 m² plots.

Variety: Bow treated with Rancona Trio

Previous crop: Durum wheat

Seeding details: Seeded on April 28 with a cone planter at a rate of 132 kg/ha in a
silty loam soil (pH: 6.4, OM: 3.2%).
Emergence on May 13.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 30-15-0-6 (298 kg/ha): April 28

Pesticides:

- Roundup Transorb (1 L/ac): April 18
- Aim EC +(47 mL/ac): April 18
- Merge (1 L/ac): April 18
- Buctril (0.4 L/ac): June 4
- Liquid Achieve (0.2 L/ac): June 4
- Carrier (0.5/100 L): June 4

Harvesting: September 29, 2025

Month	Precipitation (mm)
April	39.5
May	34.2
June	31.3
July	78.2
August	92.6
September	0.8
TOTAL	277.0

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	52.9	-
AGTIV IGNITE® L	57.1	4.2
Competitor inoculant B	55.9	3.0

EFFICACY REPORT
2023 – SERENDIPITA INOCULANT

► PLOT TRIAL

Research partner:

Ag-Quest Inc

Research site:

Elm Creek, MB

Treatments:

a) Untreated check;
b) AGTIV IGNITE® L.

Products applied according to the manufacturer's recommended rate.

Experimental design:

Randomized Complete Block,
6 repetitions, 18 m² plots.

Variety:

CDC Austenson treated with Sexodane and Lumivia

Previous crop:

Soybean

Seeding details:

Seeded on May 16 with a cone planter at a rate of 71 lb/ac in a
clay loam soil (pH: 7.8, OM: 4.6%).
Emergence on May 17.

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	101.9	-
AGTIV IGNITE® L	104.0	2.1

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:

46-0-0 and 11-52- 0; May 9

Pesticides:

Infinity

Harvesting:

August 25, 2023

Month	Precipitation (mm)
May	38.0
June	49.8
July	20.8
August	31.0
TOTAL	139.6

EFFICACY REPORT
2023 – SERENDIPITA INOCULANT

► PLOT TRIAL

Research partners:

Wheatland Conservation Area Inc.

Research sites:

Swift Current, SK

Treatments:

a) Untreated check;
b) AGTIV IGNITE® L.

*Products applied according to the manufacturer’s recommended rate.

Experimental design:

Randomized Complete Block,
6 repetitions, 17.3 m² plots.

Variety:

CDC Bow treated with Cruiser Vibrance Quattro

Previous crop:

Durum Wheat

Seeding details:

Seeded on May 18 with a cone seeder at a rate of 90 lb/ac in a silty loam soil (pH: 6.7, OM: 2.9%).
Emergence on May 26.

Table 1. Summary of yields per treatment

Treatment	Yield (bu/ac)	Yield increase (bu/ac)
Untreated check	22.8	-
AGTIV IGNITE® L	25.6	2.8

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:

30-15-0-6 (267lb/ac): May 18

Pesticides:

- RT540 (0.67 L/ac): May 12
- Liquid Achieve (200 mL/ac): June 16
- Buctril M (400 mL/ac): June 16
- Carrier (0.5 L/100L): June 16
- Decis (60 mL/ac): July 1

Harvesting:

September 19, 2023

Month	Precipitation (mm)
May	48.8
June	33.8
July	76.7
August	47.5
TOTAL	206.8



FLAX

EFFICACY REPORT

2019 – MYCORRHIZAL INOCULANT

► PLOT TRIAL

Research partner:	Antedis
Research site:	Bourbourg, North department, France
Treatments:	a) Untreated check; b) AGTIV® FIELD CROPS • Powder*.
	*Products applied according to the manufacturer's recommended rate.
Experimental design:	Randomized Complete Block, 9 répétitions.
Seeding details:	Seeded April 26 at 2 000 seeds/m ² 16.5 cm row spacing.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:	None
Pesticides:	• Patton M: April 26 • Lontrel: May 22 • Oil: May 22 • Nissodium: May 31
Harvesting:	October 15, 2019

Month	Precipitation (mm)
April	3.8
May	47
June	66.6
July	33.2
August	25.4
September	69.6
October	60.6
TOTAL	306.2

Table 1. Summary of marketable yield (whole) per treatment

Treatment	Yield ¹ (kg/ha)	Yield ¹ (lb/ac)
Untreated check	5490 ^a	4898 ^a
AGTIV® FIELD CROPS • Powder	6390 ^b	5701 ^b

¹ Yields with the same letter are not statistically different according to a Tukey HSD test (p≤0.05).

Table 2. Summary of marketable yield (fiber) per treatment

Treatment	Yield ¹ (kg/ha)	Yield ¹ (lb/ac)
Untreated check	730 ^a	651 ^a
AGTIV® FIELD CROPS • Powder	856 ^b	764 ^b

¹ Yields with the same letter are not statistically different according to a Tukey HSD test (p≤0.05).

EFFICACY REPORT 2026

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