

AGTIV®

EFFICACY REPORT 2024

POTATO





POTATO

AVERAGE MARKETABLE
YIELD INCREASE

AGTIV
REACH

31.6 cwt/ac
9.1%

3.6 t/ha
1197 sites over 13 years
North America and Europe

+
AGTIV
STIMULATE

11.3 cwt/ac
more

1.3 t/ha
14 third-party sites over 3 years
North America



Potato split field with AGTIV[®] POTATO vs untreated.
Faster plant development and larger plants on the right,
and row closure occurs sooner with AGTIV[®].



Increased tuber count per plant and marketable yield on AGTIV[®] side.



► GROWER SPLIT FIELDS AND TRIALS

- Research sites:**
- Belgium;
 - Canada;
 - France;
 - Germany;
 - Mexico;
 - Switzerland;
 - United States.

- Treatments:**
- Untreated;
 - AGTIV® REACH™ L POTATO*.

*Products applied according to manufacturers recommended rate.

Experimental design: 1197 split fields

Table 1. Average increase of marketable yield* with AGTIV® REACH™ L POTATO

Territory	Number of sites	Yield increase (t/ha)	Yield increase (cwt/ac)	Yield increase (%)
Canada	598	3.1	27.6	9.9
United States	67	3.3	29.8	10.8
Mexico	4	2.3	20.0	8.6
Belgium, France & Switzerland	496	4.1	36.3	9.9
Germany	32	4.2	37.4	10.0
Total	1197 sites	3.5 t/ha*	31.6 cwt/ac**	9.1%

Table 2. Average increase of marketable yield* with AGTIV® REACH™ L POTATO

Year	Number of sites	Yield increase (t/ha)	Yield increase (cwt/ac)	Yield increase (%)
2011	32	2.6	23.3	6.6
2012	33	3.2	28.5	9.0
2013	70	3.6	31.9	11.2
2014	116	4.5	40.3	12.8
2015	145	4.0	35.3	10.7
2016	243	3.9	34.8	10.5
2017	213	2.7	24.0	7.7
2018	113	3.4	30.2	11.2
2019	117	3.5	31.1	8.6
2020	49	2.9	25.6	9.8
2021	41	4.1	36.4	10.2
2022	12	3.4	29.2	7.8
2023	13	2.7	23.9	8
Total	1197 sites	3.5 t/ha*	31.6 cwt/ac**	9.1%

* Statistically significant at p<0.001 following a T test.

**cwt/ac = 100 lb/ac

Before 2022:
 AGTIV® REACH™ L POTATO was formerly known as AGTIV® POTATO

EFFICACY REPORT 2023 – MYCORRHIZAL INOCULANT

► PLOT TRIAL

Research partners:	New Marc Research
Research sites:	St-Marc-sur-Richelieu
Treatments:	a) Untreated check; b) AGTIV® REACH™ L POTATO.
	<small>*Products applied according to manufacturers recommended rate.</small>
Experimental design:	Split plot block, 6 repetitions, 21.6 m ² plots
Variety:	Chieftain
Previous crop:	Soybean
Seeding details:	Seeded on May 27 at rate of 1700 kg seeds/ha in a clay loam soil (pH: 7.3, OM: 3.7%).

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	174.0	-
AGTIV® REACH™ L POTATO	184.0	10.0

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:	14.5-21.7-12.7 (691 kg/ha): May 26 46-0-0 (217 kg/ha): June 20
Pesticides:	<ul style="list-style-type: none">• Sencor 480 (2.25 l/ha): June 1• Dual II Magnum (1.75 l/ha): June 1• Delegate (240 g/ha): July 8 and 26
Harvesting:	September 4, 2023

Month	Precipitation (mm)
May	51.6
June	111.5
July	218.9
August	126.8
September	42.8
TOTAL	551.6

EFFICACY REPORT

2019 – MYCORRHIZAL INOCULANT

► STRIP TRIAL

Research partner: Willard Waugh & Sons LTD.

Research site: Bedeque, PEI

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

*Products applied according to manufacturers recommended rate.

Experimental design: 20 acres strip

Variety: Prospect

Previous crop: Alfalfa

Seeding details: Seeded May June 7, at 6 tubers/m with 33 cm row spacing. Conventional tillage.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 17-16-10 (392.4 kg/ac)

Pesticides:

- Titan
- Emesto

Harvesting: October 10, 2019

Month	Precipitation (mm)
June	113.0
July	26.6
August	115.1
September	204.9
October	100.0
TOTAL	559.6

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (t/ac)
Untreated check	359.1	40.2
AGTIV® REACH™ L POTATO	405.2	45.4



► GROWER SPLIT FIELD TRIALS

Research Partner: EUROCELP

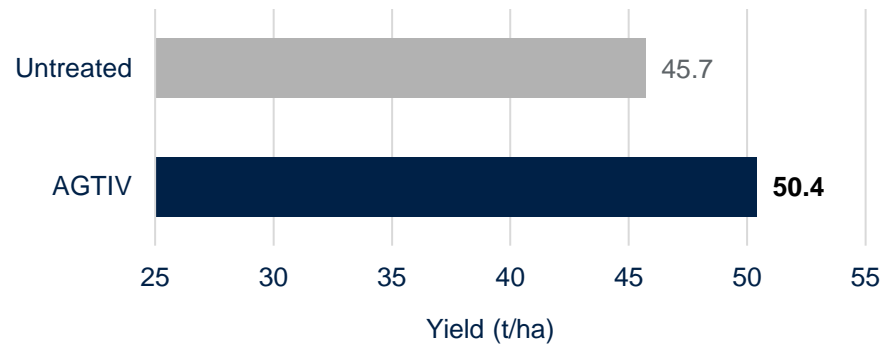
Research Sites: 75 farms (fields) in France, Europe

Treatments: a) Untreated;
b) AGTIV® mycorrhizal inoculant.

*Products applied according to manufacturers recommended rate.

Experimental design: Every data point per field consists in an average of 3 samples each (untreated and AGTIV®).

Figure 1. Marketable potato yields (t/ha) per treatment (all markets)



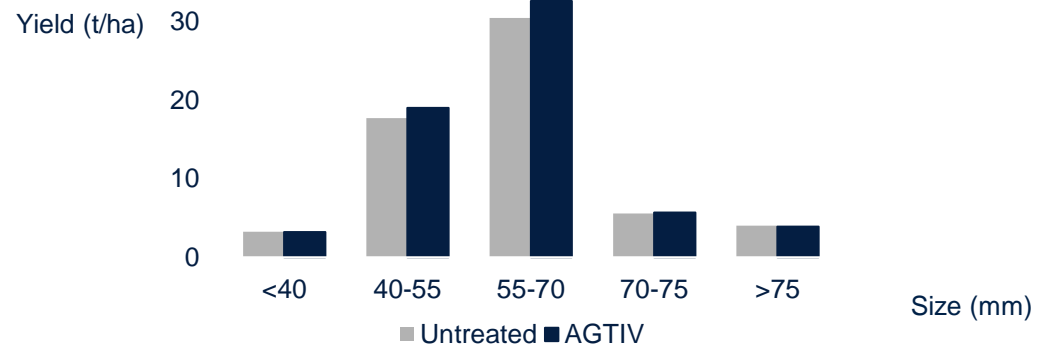
Before 2022:
AGTIV® REACH™ L POTATO was formerly known as AGTIV® POTATO

Table 1. Marketable potato yields per treatment (all markets)

Treatment	Yield (cwt/ac)	Yield increase (t/ac)	Difference (%)
Untreated	412.7	45.7	
AGTIV® mycorrhizal inoculant	455.1	50.4	+9.3%*

*Statistically significant at p≤0,05 using T Test analysis for paired samples.

Figure 2. Potato yield (t/ha) for the tablestock market (32 plots) by marketable size (40/75 mm)



► PLOT TRIAL

Research partner:	Agréco
Research site:	Rawdon, QC
Treatments:	a) Untreated check; b) AGTIV [®] REACH [™] L POTATO*.
	*Products applied according to manufacturers recommended rate.
Experimental design:	8 replicated plots per treatment in randomized complete block design.
Variety:	Goldrush
Previous crop:	Potato in 2010, Wheat in 2009
Seeding details:	Planted manually in sandy soil. Each plot comprised four rows of 20 seed pieces (35.6 cm apart). Inoculant in liquid suspension applied in furrow. Planted May 21, 2011.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation:	206 kg/ha N; 170 kg/ha P ₂ O ₅ and 270 kg/ha K ₂ O.
Pesticides:	<ul style="list-style-type: none"> • Actara: planting time • Quadris: planting time • Titan: planting time • Sencor: June 13 • Polyram: June 15 • Bravo: once a week from end of June to August 12 • Reason: August 12
Harvesting:	September 18, 2011

Table 1. Summary of marketable yields per treatment

Treatment	Yield (t/ha)	Yield (cwt/ac)	Average potato weight (g/potato tuber)
Untreated	8,4	74,9	123 ^a
AGTIV [®] REACH [™] L POTATO	9,7	96,4	136.5 ^b

Results followed by different letters are statistically different according to Duncan
(Marketable yield at $p \leq 0.1$; Marketable potato weight at $p \leq 0.05$)

► PLOT TRIAL

Research partner: Agréco

Research site: Lyster, QC

Treatments: a) Untreated check;
b) AGTIV[®] REACH[™] L POTATO*.

*Products applied according to manufacturers recommended rate.

Experimental design: 6 replicated plots per treatment in randomized complete block design.

Variety: Goldrush

Seeding details: Each plot of 6 m (20 feet) long with 15 seed pieces per treatment. Inoculant in liquid suspension applied in furrow. Planted May 26.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: According to host grower's recommendations.

Pesticides:

- Actara: planting time
- Quadris: planting time

Month	Precipitation (mm)
May	39.8
June	104.4
July	48.8
August	112.0
September	184.8
TOTAL	489.8

Meteorological data from Québec

Table 1. Summary of yields per treatment

Treatment	Yield (t/ha)	Yield (cwt/ac)	Marketable tuber number per plot
Untreated	13	115	34 ^a
AGTIV [®] REACH [™] L POTATO	17,2	153,5	48 ^b

Results followed by different letters are statistically different according to Duncan ($p \leq 0.1$)

EFFICACY REPORT

1999 – MYCORRHIZAL INOCULANT



REACH

► PLOT TRIAL

Research partner: Laval University (Qc), Canada

Research site: Lavaltrie, QC

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

*Products applied according to manufacturers recommended rate.

Experimental design: 4 replicated plots per treatment in randomized complete block design.

Variety: Goldrush

Seeding details: The trial plot consisted of 32 60-meter rows spaced at 0.9 meter.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 1800 kg/ha of 10-12-12 (3% Mg, 0.22% B) at planting time;
336 kg/ha of 10-0-15 during the summer.

- Pesticides:**
- Fumigation:
 - Vapam: Previous fall
 - Insecticides:
 - Admire
 - Cymbush
 - Furadan
 - Herbicides:
 - Gramoxone
 - Lexone
 - Laroxe

Month	Precipitation (mm)
May	33.1
June	103.6*
July	58.9*
August	73.1
September	123.6
TOTAL	392.3

Meteorological data from Québec
* Plots were irrigated during those months.

Table 1. Summary of total yields per treatment

Treatment	Yield (cwt/ac)	Yield (t/ac)
Untreated check	446.1 ^a	49.4 ^a
AGTIV® REACH™ L POTATO	466.9 ^b	51.7 ^b

Results followed by different letters are statistically different according to Duncan ($p \leq 0.05$).

Table 2. Summary of marketable yields per treatment

Treatment	Yield (cwt/ac)	Yield (t/ac)
Untreated check	417.2 ^a	46.2 ^a
AGTIV® REACH™ L POTATO	442.5 ^b	49.0 ^b

Results followed by different letters are statistically different according to Duncan ($p \leq 0.05$).

EFFICACY REPORT

SUMMARY – MYCORRHIZAL & BACILLUS INOCULANT



► PLOT TRIALS

- Research partners:**
- AgriTech Inc
 - Atlantic Agri Tech;
 - New Marc Research;
 - Prairie Ag Research;
 - Progest inc.;
 - Tall Pines Agricultural Research Ltd.;
 - Wellington Agricultural Research Ltd.

- Research sites:**
- Alberta;
 - Ontario;
 - Prince-Edward Island;
 - Quebec.

- Treatments:**
- AGTIV® REACH™ L POTATO*;
 - AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO*.

*Products applied according to manufacturers recommended rate.

- Experimental design:**
- Latin square:
- 13 trials of 6 repetitions;
 - 1 trial of 5 repetitions.

Table 1. Average increase of marketable yield* in cwt/ac per trial

Year	Sites	AGTIV® REACH™	AGTIV® REACH™ and AGTIV® STIMULATE™	Yield increase*
2021	Sainte-Croix	320.3	319.3	-1
2021	Saint-Marc	107.8	112.8	5
2021	New Glasgow	242.1	247.4	5.3
2021	Rockwood	279.7	322.3	42.6
2021	Elmira	320.7	343.9	23.2
2022	Saint-Marc	145.4	142.2	-3.2
2022	Newton	235.9	237.8	1.9
2022	Newton	92.5	109.3	16.8
2022	Rockwood	402.5	429	26.5
2023	New Glasgow	413.1	425.6	12.5
2023	Raymond	138.5	141.1	2.6
2023	Underhills Farm	361.8	360	-1.8
2023	Newton	282.4	291.2	8.8
2023	Newton	482.7	502.3	19.6
Average	14 sites	273.2	284.5	11.3 cwt/ac

*Comparison of the double inoculation vs AGTIV® REACH™ L POTATO

Before 2022:
AGTIV® REACH™ L POTATO was formerly known as AGTIV® POTATO

EFFICACY REPORT

2023 – MYCORRHIZAL & BACILLUS INOCULANT



► PLOT TRIAL

Research partners: AgriTech Inc

Research sites: New Glasgow, PEI

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin Square (LS), 6 repetitions, 21.6 m² plots.

Variety: Gold Rush treated with Actara

Previous crop: Spring barley

Seeding details: Hand seeded on May 10 at a rate of 1900 kg/ha, in a sandy loam soil (pH: 6.5, OM: 2.4%).
Emergence on June 12.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 15-15-15-2Mg (970 kg/ha): May 10

Pesticides:

- Armory (2.0 l/ha): September 4
- Bravo ZN (2 l/ha): July 28 and August 24
- Dual II Magnum (1.75 l/ha): June 1
- Minecto PRO (556 ml/ha): July 15
- NIS (2 l/1000L): July 15
- Penncozeb DG 75 (2.25 kg/ha): July 6, 14, 23, August 3, 12, September 4
- Phostrol 4.17 SL (5 l/ha): July 23
- Sencor 75 DF (1.5 kg/ha): June 1
- Zampro 4.38 SL (1 l/ha): August 12

Harvesting: October 10, 2023

Month	Precipitation (mm)
May	41.2
June	113.0
July	115.0
August	147.8
TOTAL	417.0

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	395.6	-
AGTIV® REACH™ L POTATO	413.1	17.5
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L	425.6	30.0

EFFICACY REPORT

2023 – MYCORRHIZAL & BACILLUS INOCULANT

POTATO 

AGTIV

REACH

+

AGTIV

STIMULATE

► PLOT TRIAL

Research partners: Prairie Ag Research

Research sites: Raymond, AB

Treatments:

- a) Untreated check;
- b) AGTIV® REACH™ L POTATO;
- c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L;
- d) AGTIV® REACH™ P POTATO;
- e) AGTIV® REACH™ P POTATO + AGTIV® STIMULATE™ L.

*Products applied according to manufacturers recommended rate.

Experimental design: Randomized Complete Block (RCB), 5 repetitions, 12.0 m² plots

Variety: Norkotah

Previous crop: Spring barley

Seeding details: Seeded on May 9 at rate of 2000 kg/ha in a clay loam soil (pH: 7.3, OM: 3.7%).
Emergence on June 2.

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	130.8	-
AGTIV® REACH™ L POTATO	138.5	7.7
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L	141.1	10.3
AGTIV® REACH™ P POTATO	139.3	8.7
AGTIV® REACH™ P POTATO + AGTIV® STIMULATE™ L	140.3	9.5

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: None

Pesticides: Roundup WeatherMAX: May 26

Harvesting: September 12, 2023

Month	Precipitation (mm)	Irrigation (mm)
May	13.2	15.0
June	30.1	30.0
July	7.8	45.0
August	26.2	-
TOTAL	77.3	90.0

EFFICACY REPORT

2022 – MYCORRHIZAL & BACILLUS INOCULANT



► PLOT TRIAL

Research partner: New Marc Research

Research site: St-Marc-sur-Richelieu, QC

Treatments: a) Untreated Check;
 b) AGTIV® REACH™ L POTATO;
 c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L.

*Products applied according to manufacturers recommended rate.

Experimental design: Randomized Complete Block (RCB), 6 repetitions, 21.6 m² plots

Variety: Chieftain

Previous crop: Spring wheat

Seeding details: Seeded on May 25 at a rate of 2250 kg/ha in a clay soil (pH: 6.3, OM: 4.2%).
 Emergence on June 9.

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	138.4	-
AGTIV® REACH™ L POTATO	145.4	7.0
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L	142.2	3.8

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 16.9-22.2-12.7 (675 kg/ha): May 23
 46-0-0 (109 kg/ha): June 14

Pesticides:

- Sencor 480 (2.25 l/ha): June 20
- Dual II Magnum (1.75 l/ha): June 20
- Delegate (240 g/ha): July 7

Harvesting: September 6, 2022

Month	Precipitation (mm)
May	110.6
June	121.7
July	130.4
August	114.1
September	133.8
TOTAL	610.6

EFFICACY REPORT

2022 – MYCORRHIZAL & BACILLUS INOCULANT

POTATO 



► PLOT TRIAL

Research partner: Atlantic AgriTech

Research site: Newton, PEI

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L.

*Products applied according to manufacturers recommended rate.

Experimental design: Randomized Complete Block (RCB), 6 repetitions, 24.0 m² plots

Variety: Gold Rush treated with Actara

Previous crop: Turnip

Seeding details: Hand seeded on May 20 at a rate of 1250 kg/ha in a sandy loam soil (pH: 5.4, OM: 2.3%).
Emergence on June 8.

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	232.2	-
AGTIV® REACH™ L POTATO	235.9	3.7
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L	237.8	5.6

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 15-15-15-4S-2Mg (1000 kg/ha): May 19

Pesticides:

- Lorox DF (3 l/ha): June 12
- Sencor 75DF (1.7 l/ha): June 12
- Coragen (350 ml/ha): July 17
- Penncozeb (2.24 kg/ha): July 17 + once a week from July 27 until August 19
- Reglone Ion (2.47 l/ha): September 3

Harvesting: September 20, 2022

Month	Precipitation (mm)
May	51.2
June	78.0
July	60.0
August	130.6
September	130.6
TOTAL	478.6

EFFICACY REPORT

2022 – MYCORRHIZAL & BACILLUS INOCULANT

POTATO 

AGTIV

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+

AGTIV

STIMULATE

► PLOT TRIAL

Research partner: Tall Pines Agricultural Research Ltd

Research site: Rockwood, ON

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin Square (LS), 6 repetitions, 12.0 m² plots

Variety: Chieftain

Previous crop: Soybean

Seeding details: Seeded on June 15 at a rate of 18000 seeds/ac in a sandy loam soil (pH: 7.2, OM: 3.4%).
Emergence on July 5.

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	395.1	-
AGTIV® REACH™ L POTATO	402.5	7.4
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L	429.0	33.9

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 120-70-90 (620 kg/ha): May 5

Pesticides:

- Lorox (2.3 l/ha): June 22
- Dual II Magnum (2.25 l/ha): June 22
- Coragen (0.2 l/ha): July 17 and August 8
- Bravo ZN (2.4 l/ha): August 5

Harvesting: October 27, 2022

Month	Precipitation (mm)
June	42.8
July	24.0
August	90.0
September	24.2
October	62.3
TOTAL	243.3

EFFICACY REPORT

2022 – MYCORRHIZAL & BACILLUS INOCULANT



► PLOT TRIAL

Research partner: Atlantic AgriTech

Research site: Newton, PEI

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin square (LS), 6 repetitions, 24.0 m² plots

Variety: EVA treated with Actara

Previous crop: Turnip

Seeding details: Hand seeded on May 20 at a rate of 1250 kg/ha in a sandy loam soil (pH: 5.4, OM: 2.3%). Emergence on June 8.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 15-15-15-4S-2Mg (1000 kg/ha): May 19

- Pesticides:**
- Lorox DF (3 l/ha): June 12
 - Sencor 75DF (1.7 l/ha): June 12
 - Penncozeb (2.24 kg/ha): July 7, 17 and 27, then once a week until August 19
 - Coragen (350 ml/ha): July 17
 - Reglone Ion (2.47 l/ha): August 20

Harvesting: October 8, 2022

Month	Precipitation (mm)
May	51.2
June	78.0
July	60.0
August	130.6
September	130.6
TOTAL	478.6

Table 1. Summary of yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	92.3	-
AGTIV® REACH™ L POTATO	92.5	0.2
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ L	109.3	17.0



EFFICACY REPORT

2021 – MYCORRHIZAL AND BACILLUS INOCULANT

POTATO 



► PLOT TRIALS

Research partner: Progest inc.

Research site: Sainte-Croix de Lotbinière, QC

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO*;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO*.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin Square, 6 repetitions, 22 m² plots.

Variety: Norland

Previous crop: Oat

Seeding details: Seeded on June 3 at a rate of 36 400 seeds/ha.

Table 1. Summary of marketable yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	313.1	-
AGTIV® REACH™ L POTATO	320.3	7.2
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO	319.3	6.2

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 12-12-15 (1333 kg/ha): at seeding

Pesticides:

- Quadris: June 4, 25 and July 5
- Titann, June 4
- Lorox: June 9
- Select and Amigo: June 24
- Manzate: June 25, July 5 and August 13
- Coragen: July 15 and 29
- Delegate: July 23
- Agrovia Top: July 29 and August 13
- Reglone: August 23 and September 10

Harvesting: September 23, 2021

Month	Precipitation (mm)
June	103.0
July	85.8
August	28.4
September	80.8
TOTAL	298.0

EFFICACY REPORT

2021 – MYCORRHIZAL AND BACILLUS INOCULANT



► PLOT TRIALS

Research partner: New Marc Research

Research site: Saint-Marc-sur-Richelieu, QC

Treatments: a) Untreated check;
 b) AGTIV® REACH™ L POTATO*;
 c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO*.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin Square, 6 repetitions, 22 m² plots.

Variety: Chieftain

Previous crop: Soybean

Seeding details: Seeded on June 4, at a rate of 2200 kg/ha.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 16.9-22.2-12.7: June 1
 Urea (46-0-0): June 5

Pesticides: Coragen: June 10 and July 22
 Delegate: August 27

Harvesting: September 30, 2021

Month	Precipitation (mm)
May	15.9
June	56.3
July	47.4
August	49.2
September	55.0
TOTAL	223.8

Table 1. Summary of marketable yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	103.1	-
AGTIV® REACH™ L POTATO	107.8	4.7
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO	112.8	9.8

EFFICACY REPORT

2021 – MYCORRHIZAL AND BACILLUS INOCULANT

POTATO 



► PLOT TRIALS

Research partner: Atlantic Agri Tech

Research site: New Glasgow, IPE

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO*;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO*.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin Square, 6 repetitions, 16 m² plots.

Variety: Russet Burbank

Previous crop: Oat

Seeding details: Seeded on May 21, at a rate of 1900 kg/ha.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 15-15-15-4 (S)-2 (Mg): May 1

Pesticides:

- Lorox: June 2
- Sencor: June 2
- Pencozeb 75DF: June 28, July 12, 28 and August 9
- Zampro: July 5
- Coragen: July 5
- Revus: July 19
- Delegate: July 19
- Echo: August 25
- Reglone: September 8

Harvesting: October 4, 2021

Table 1. Summary of marketable yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	236.9	-
AGTIV® REACH™ L POTATO	242.1	5.2
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO	247.4	10.5

Month	Precipitation (mm)
May	96.8
June	45.8
July	142.4
August	39.2
September	217.2
TOTAL	541.4

EFFICACY REPORT

2021 – MYCORRHIZAL AND BACILLUS INOCULANT



► PLOT TRIALS

Research partner: Tall Pines Agricultural Research Ltd.

Research site: Rockwood, ON

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO*;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO*.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin Square, 6 repetitions, 18 m² plots.

Variety: Chieftain Red

Previous crop: Fallow

Seeding details: Seeded on May 21, at a rate of 26 000 seed pieces/ha.

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: 120-60-90 (590 kg/ha): April 20

Pesticides:

- Boundary LQD: May 28
- Bravo Zn: July 15
- Coragen: July 28

Harvesting: November 9, 2021

Month	Precipitation (mm)
May	28
June	95.5
July	128.4
August	28.2
September	142.6
TOTAL	422.7

Table 1. Summary of marketable yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	266.7	-
AGTIV® REACH™ L POTATO	279.7	13.0
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO	322.3	55.6

EFFICACY REPORT

2021 – MYCORRHIZAL AND BACILLUS INOCULANT

POTATO 



► PLOT TRIALS

Research partner: Wellington Agricultural Research Ltd.

Research site: Elmira, ON

Treatments: a) Untreated check;
b) AGTIV® REACH™ L POTATO*;
c) AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO*.

*Products applied according to manufacturers recommended rate.

Experimental design: Latin Square, 6 repetitions, 22 m² plots.

Variety: Chieftain Red

Previous crop: Canola

Seeding details: Seeded on June 17, at a rate of 27 778 seed pieces/ha.

Table 1. Summary of marketable yields per treatment

Treatment	Yield (cwt/ac)	Yield increase (cwt/ac)
Untreated check	298.2	-
AGTIV® REACH™ L POTATO	320.7	22.5
AGTIV® REACH™ L POTATO + AGTIV® STIMULATE™ POTATO	343.9	45.7

OPERATIONAL NOTES AND RAIN FALL

Fertilisation: None

Pesticides:

- Sencor DF: July 1
- Bravo: July 26, August 5, 7, 13, 19, 23 and September 9
- Revus: July 26, August 5, 7, 13, 19, 23 and September 9

Harvesting: October 9, 2021

Month	Precipitation (mm)
June	136.4
July	79.9
August	49.9
September	177.8
TOTAL	444

EFFICACY REPORT 2024

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PEOPLE AND TECHNOLOGIES MAKING A DIFFERENCE

Making a difference, this is what we are all about at Premier Tech. One team driven by a shared passion to deliver solutions that will better the lives of people, businesses and communities. At Premier Tech, People and Technologies connect in lasting, transformative ways, giving life to products and services that help feed, protect and improve our world. We are committed to creating sustainable solutions that help bring beautiful gardens to life, increase crop yields, improve the efficiency of manufacturing facilities, treat and recycle water, and much more as we keep innovating.



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