PREMIER TECH

# AGTIV®

## EFFICACY REPORT 2026

# SPECIALTY CROPS


# ONION

AVERAGE YIELD INCREASE

AGTIV® REACH **2766** lb/ac

**6.8%**

**20 sites over 9 years**

Canada and Europe

EFFICACY REPORT

# SUMMARY – MYCORRHIZAL INOCULANT

ONION AGTIV REACH

## ► PLOT TRIALS

**Research partners:**
- Agricultural Development Group Inc. Reseach;
- Antedis;
- BlackCreek Research Inc.;
- Bröring;
- Prisme

**Research sites:**
- North America;
- Europe.

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

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

**Experimental design:** Randomized Complete Block Design: 9 trials

## ► GROWER DEMONSTRATIONS

**Experimental design:** Split field: 11 demos

Table 1. **Summary of marketable yields (t/ha) per trial and demo.**

| Year | Location | Seed variety | Yield Untreated | Yield AGTIV® |
|---|---|---|---|---|
| **2014** | Holland Marsh, ON | N/A | 67.7 | 74.5 |
| | | N/A | 67.7 | 71.8 |
| **2015** | La somme, France | N/A | 23.9 | 27.9 |
| | | N/A | 54.8 | 55.7 |
| | | N/A | 54.8 | 60.5 |
| | | N/A | 43.6 | 46.4 |
| **2016** | Bonneval, France | N/A | 60.7 | 64.1 |
| **2017** | Bright, ON | Norstar | 8.1 | 6.8 |
| | Napierville, QC | Trailblazer | 16.2 | 17.4 |
| **2018** | Issé, France | Santero F1 | 32.2 | 34.9 |
| | Earl du Meurisier, France | N/A | 59.9 | 66.2 |
| | Bright, ON | Catskill | 20.9 | 30.9 |
| | Napierville, ON | Catskill | 68.6 | 66.1 |
| **2019** | Boisseaux, France | Santero F1 | 46.1 | 44.4 |
| | Issé, France | Santero F1 | 62 | 63.3 |
| | Yèvres la Ville, France | Santero F1 | 40.8 | 36.2 |
| | Cézarville, France | Santero F1 | 47.4 | 44.2 |
| | Allemagne | N/A | 48.2 | 53 |
| | Loiret, France | N/A | 57.4 | 74.3 |
| **2022** | Hoerdt, France | Hybound | 25.8 | 29.9 |
| **Total** | **20 sites** | | **45.3** | **48.4** |

EFFICACY REPORT

# 2019 – MYCORRHIZAL INOCULANT

ONION AGTIV REACH

## ► PLOT TRIAL

**Research partner:** Antedis

**Research site:** Issé, Loire-Atlantique department, France

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

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

**Experimental design:** Randomized Complete Block Design, 8 repetitions.

**Variety:** Santero F1

**Previous crop:** Spring barley

**Seeding details:** Seeded April 1 at 80 seeds/$m^2$ with 32 cm row spacing.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:** Liquid Solution N 39: March 19
AVF K4: August 20 to 25

**Pesticides:**

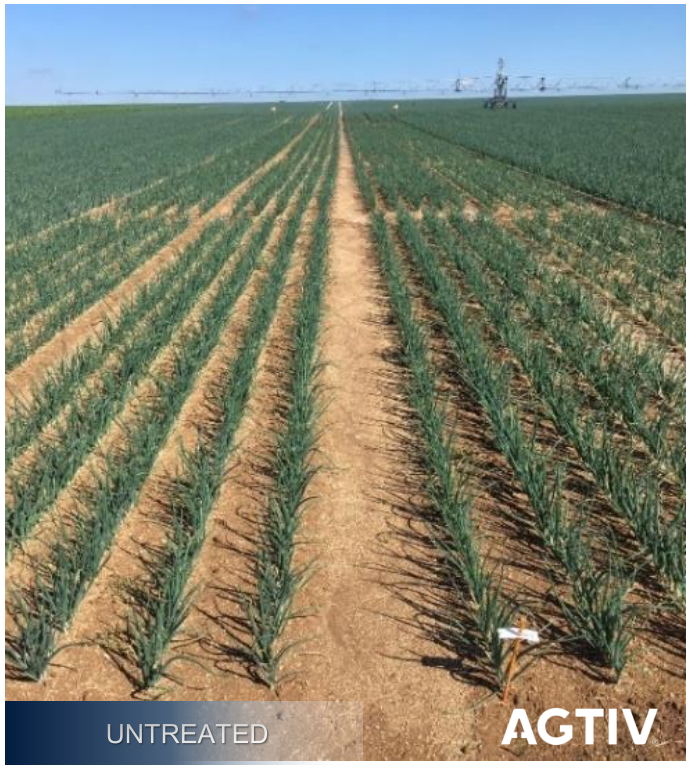
- Acrobat M DG : June, July and August
- Baroud SC :April
- Bordeaux mixture: June, July and August
- Caiman WP and DEFI : June
- Challenge 600 : May, June
- Dithane M 45 : June and August
- ITCAN SL 270 : September
- Lentagran : Aril and May
- Satarne 200 : May, June
- Scala : July

**Harvesting:** September 24, 2019

| Month | Precipitation (mm) |
|---|---|
| April | 36.4 |
| May | 90.6 |
| June | 34.4 |
| July | 10.6 |
| August | 42.9 |
| September | 4.6 |
| **TOTAL** | **219.5** |

Table 1. **Summary of marketable yields per treatment**

| Treatment | Yield (lbs/ac) | Yield (t/ha) |
|---|---|---|
| Untreated check | 55 315 | 62.0 |
| AGTIV® SPECIALTY CROPS • Powder | 56 474 | 63.3 |



EFFICACY REPORT

# 2018 – MYCORRHIZAL INOCULANT

ONION

AGTIV REACH

## ► PLOT TRIAL

**Research partner:** BlackCreek Research Inc.

**Research site:** Bright, ON

**Treatments:** a) Untreated check;
b) AGTIV REACH® P for Seed Encrusting.

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

**Experimental design:** Randomized Complete Block Design, 8 repetitions.

**Variety:** Catskill

**Previous crop:** Soybean

**Seeding details:** Seeded June 7 with Clean seeder at 40 seeds/m of row with 30 cm row spacing. Conventional till.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:** MAP (70 kg/ha)
Potash (98 kg/ha)
KMag (125 kg/ha)
Urea (112 kg/ha)

**Pesticides:**
- Venture L: June 20
- Pardner: June 25 and July 5
- Prowl H2O: June 29 and July 15

**Harvesting:** October 18, 2018

| Month | Precipitation (mm) |
|---|---|
| June | 91 |
| July | 63.1 |
| August | 116.6 |
| September | 57.8 |
| **TOTAL** | **328.5** |

Table 2. **Summary of marketable yields per treatment**

| Treatment | Yield (lb/ac) | Yield (t/ha) |
|---|---|---|
| Untreated check | 18 650 | 20.9 |
| AGTIV REACH® P for Seed Encrusting | 27 574 | 30.9 |


More developed root system on the right, and plants are larger with AGTIV®.

EFFICACY REPORT
**2018 – MYCORRHIZAL INOCULANT**

ONION AGTIV REACH

## ► GROWER SPLIT FIELD TRIAL

**Research Sites:** France, Europe

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

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

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

**Variety** Hytunes

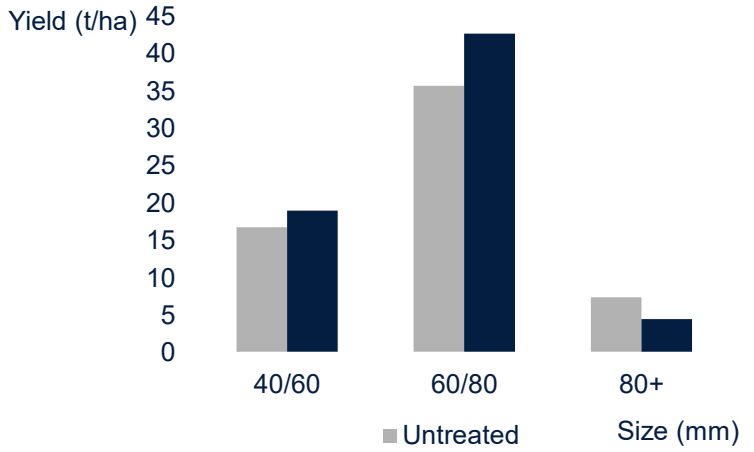
Table 1. **Marketable onion yields per treatment**

| Treatment | Yield (lb/ac) | Yield (t/ha) |
|---|---|---|
| Untreated check | 53 441 | 59.9 |
| AGTIV® mycorrhizal inoculant | 59 062 | 66.2 |

Table 2. **Marketable onion yields per treatment**

| Treatment | Bulb number / ha | Difference (%) AGTIV® vs untreated |
|---|---|---|
| Untreated check | 531 667 | |
| AGTIV® mycorrhizal inoculant | 616 667 | +10.5% |

Figure 1. **Onion yield (t/ha) by marketable size (mm)**



EFFICACY REPORT

# 2017 – MYCORRHIZAL INOCULANT

ONION

AGTIV REACH

## ► PLOT TRIAL

**Research partners:**
- BlackCreek Research Inc.;
- Prisme.

**Research Sites:**
- Bright, ON – Sandy loam soil;
  Napierville, QC – Black soil, organic.

**Treatments:**
a) Untreated;
b) AGTIV REACH® P for Seed Encrusting.

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

**Experimental design:** Randomized Complete Block Design, 8 replicates.

**Variety:**
Frontier: Ontario
Trailbrazer: Quebec

Table 2. **Summary of yields per treatment and % difference**

| Location | Untreated (t/ha) | AGTIV REACH® P for Seed Encrusting (t/ha) | Yield difference % |
|---|---|---|---|
| Ontario | 6.8 | 8.1 | +19.1% |
| Quebec | 16.2 | 17.4 | +7.4% |
| **Average** | **11.5** | **12.8** | **+11.3%** |


Onion split field with AGTIV® vs untreated.
Plant growth and health is enhanced on the right.

EFFICACY REPORT

# 2017 – MYCORRHIZAL INOCULANT

ONION AGTIV REACH

## ► GROWER SPLIT FIELD TRIAL

**Research Sites:** France, Europe

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

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

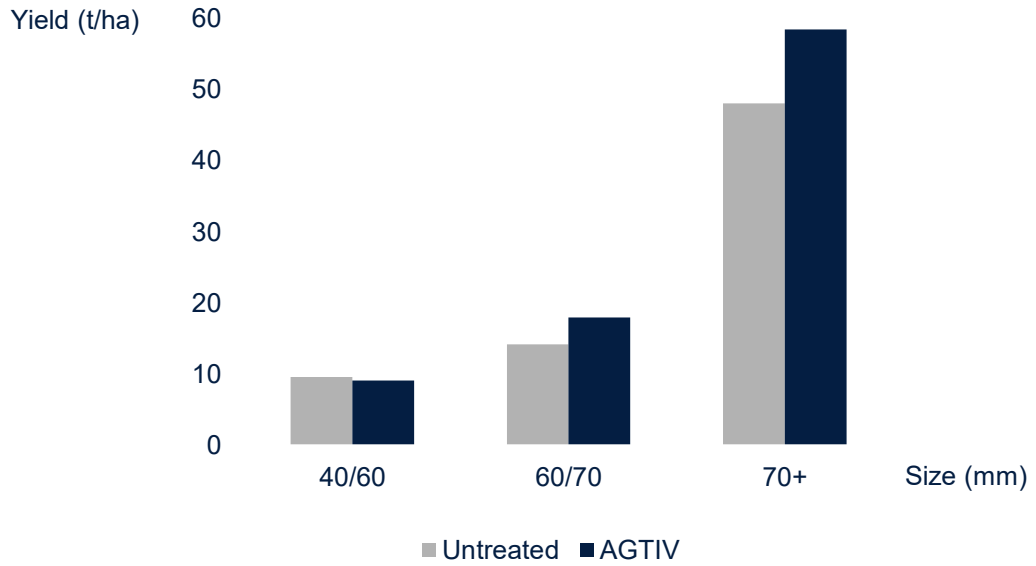
**Experimental design:** Every data point per field consists in an average of 3 samples each (untreated and AGTIV®).

**Variety** SPIRIT

Table 1. **Marketable onion yields per treatment and difference (%)**

| Treatment | Yield (t/ha) | Bulb number / ha |
|---|---|---|
| Untreated check | 71.9 | 409 877 |
| AGTIV® mycorrhizal inoculant | 85.7 | 459 259 |
| Difference (%) AGTIV® vs untreated | +19.2% | +12.0% |

Figure 1. **Onion yields (t/ha) by marketable size (mm).**



EFFICACY REPORT

# SUMMARY – MYCORRHIZAL & BACILLUS INOCULANT

ONION

AGTIV REACH + AGTIV STIMULATE

## ► PLOT TRIALS

**Research partners:**
- Agricultural Development Group Inc. Reseach;
- BlackCreek Research Inc.;
- Prisme.

**Research sites:**
- Quebec;
- Ontario;
- Washington.

**Treatments*:**
a) Untreated;
b) Commercial seed encrusting with AGTIV REACH® P and AGTIV STIMULATE® L.

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

**Experimental design:**
Randomized Complete Block Design:
4 trials

Table 1. **Summary of marketable yields (t/ha) per trial.**[1]

| Year | Sites | Variety | Untreated check yield (t/ha) | AGTIV® yield (t/ha) | Yield increase (t/ha) | Yield increase (%) |
|---|---|---|---|---|---|---|
| **2017** | **Bright, ON** | Frontier | 8.1 | 9.9 | 1.8 | 22.2 |
| **2017** | **Napierville, QC** | Trailblazer | 16.2 | 17 | 0.8 | 5 |
| **2018** | **Napierville, QC** | Catskill | 68.6 | 68 | - | - |
| **2018** | **Bright, ON** | Catskill | 20.9 | 29.1 | 8.2 | 39.2 |
| **Total** | **4 sites** | | **28.5[a]** | **31[b]** | **2.5 t/ha*** | **8.8%** |

*Summary of means are significantly different following a combined site ANOVA and a Tukey test (p<05) p = 036


# CARROT

AVERAGE YIELD INCREASE

AGTIV REACH **3837** lb/ac

**9.4%**

**9 sites over 6 years**
Canada

EFFICACY REPORT

# SUMMARY – MYCORRHIZAL INOCULANT

CARROT

AGTIV REACH

## ► PLOT TRIALS

**Research partners:**
- Agricultural Development Group Inc. Reseach;
- Antedis;
- BlackCreek Research Inc.;
- Eurofins Agroscience services;
- Prisme.

**Research sites:**
- France;
- USA;
- Canada.

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

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

**Experimental design:**
Randomized Complete Block Design:
8 trials (8 repetitions each)

## ► GROWER DEMONSTRATION

**Experimental design:**
Split field: 1 demo

Table 1. **Summary of yields (lb/ac) per trial and demo.**

| Year | Location | Seed variety | Untreated check | AGTIV REACH® |
|---|---|---|---|---|
| **2019** | Ploërmel, France | Bolero F1 | 87 450 | 96 285 |
| | Meneac, France | Bolero F1 | 79 062 | 84 773 |
| | Onesse-Laharie, France | Bolero F1 | 44 975 | 45 510 |
| **2018** | Eltopia, WA | Envy | 12 493 | 16 955 |
| | Bright, ON | Envy | 24 450 | 27 217 |
| | Napierville, QC | Envy | 25 789 | 24 004 |
| **2017** | Napierville, QC | Olympus | 29 269 | 35 069 |
| | Bright, ON | Bolero | 36 586 | 38 550 |
| **2014** | Saint Simon, QC | Olympus | 28 823 | 34 445 |

Table 2. **Summary of yields (t/ha) per trial and demo.**

| Year | Location | Seed variety | Untreated check | AGTIV REACH® |
|---|---|---|---|---|
| **2019** | Ploërmel, France | Bolero F1 | 98 | 107.9 |
| | Meneac, France | Bolero F1 | 88.6 | 95 |
| | Onesse-Laharie, France | Bolero F1 | 50.4 | 51 |
| **2018** | Eltopia, WA | Envy | 14 | 19 |
| | Bright, ON | Envy | 27.4 | 30.5 |
| | Napierville, QC | Envy | 28.9 | 26.9 |
| **2017** | Napierville, QC | Olympus | 32.8 | 39.3 |
| | Bright, ON | Bolero | 41 | 43.2 |
| **2014** | Saint Simon, QC | Olympus | 32.3 | 38.6 |

EFFICACY REPORT

# 2019 – MYCORRHIZAL INOCULANT

CARROT

AGTIV REACH

## ► PLOT TRIAL

**Research partner:** Antedis

**Research site:** Ploërmel, Morbihan department, France

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

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

**Experimental design:** Randomized Complete Block Design, 8 repetitions.

**Variety:** Bolero F1

**Previous crop:** Ray-grass

**Seeding details:** Seeded May 24 at 850,000 seeds/ha.

Table 1. **Summary of marketable yields per treatment**

| Treatment | Yield [1] (lb/ac) | Yield [1] (t/ha) | Yield increase (%) |
|---|---|---|---|
| Untreated check | 87 450 [a] | 98.0 [a] | |
| AGTIV® SPECIALTY CROPS • Powder | 96 285 [b] | 107.9 [b] | +10.1% |

[1] Yields with same letter are not statistically different following a Tukey HSD test at p≤0.05.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:** 30 $m^3$ of cattle manure: May 21

**Pesticides:**
- Baroud SC: June 2
- Centium 36 CS: June 2
- Racer ME: June 2
- Challenge 600: June 26 and August 01
- DEFI: June 26 and August 01
- Heliosoufre: August 13
- Switch: August 13

**Harvesting:** October 28, 2019

| Month | Precipitation (mm) |
|---|---|
| May | 3.0 |
| June | 144.4 |
| July | 18.4 |
| August | 57.4 |
| September | 67.8 |
| October | 172.5 |
| **TOTAL** | **463.5** |

EFFICACY REPORT

# 2019 – MYCORRHIZAL INOCULANT

CARROT

AGTIV REACH

## ► PLOT TRIALS

**Research partners:** Eurofins Agroscience services

**Research sites:** Meneac, Morbihan department, France

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

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

**Experimental design:** Randomized Complete Block Design, 8 repetitions.

**Variety:** Bolero F1

**Previous crop:** Barley

**Seeding details:** Seeded May 24 at 600,000 seeds/ha with 60 cm row spacing.

Table 1. **Summary of marketable yields per treatment**

| Treatment | Yield [1] (lb/ac) | Yield [1] (t/ha) | Yield increase (%) |
|---|---|---|---|
| Untreated check | 79 062 [a] | 88.6 [a] | |
| AGTIV® SPECIALTY CROPS • Powder | 84 773 [b] | 95.0 [b] | +7.2% |

[1] Yields with same letter are not statistically different following a Tukey HSD test at p≤0.05.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:**
- Chicken manure (2200 kg/ha): April 15
- Ammonitrate (180 kg/ha): February 23
- Ammonitrate (150 kg/ha): March 15

**Pesticides:**
- Cherokee: April 19
- Keynote: May 8
- Baroud: May 25
- Racer Centium: May 25
- Signum: June 25
- Heliosoufre: June 25
- Bordeaux mixture: June 25

**Harvesting:** October 1, 2019

| Month | Precipitation (mm) |
|---|---|
| June | 181.1 |
| July | 23.3 |
| August | 53.6 |
| September | 45.7 |
| **TOTAL** | **303.7** |

EFFICACY REPORT

# 2018 – MYCORRHIZAL INOCULANT

CARROT

AGTIV REACH

## ► PLOT TRIALS

**Research partners:** Agricultural Development Group Inc.

**Research sites:** Eltopia (WA), USA

**Treatments:** a) Untreated check;
b) AGTIV REACH® P for Seed Encrusting.

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

**Experimental design:** Randomized Complete Block Design, 8 repetitions.

**Variety:** Envy

**Previous crop:** Squash

**Seeding details:** Direct seeded May 24 at 20 seeds/m of row; 1.3 million seeds per hectare. Conventional till.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:** None

**Pesticides:**
- Lorox: July 13
- Nortron: August 23

**Harvesting:** October 8, 2019

| Month | Precipitation (mm) |
|---|---|
| May | 9.9 |
| June | 15.25 |
| July | 0 |
| August | 0 |
| September | 0.5 |
| October | 20.8 |
| **TOTAL** | **46.45** |

Table 1. **Summary of marketable yields per treatment**

| Treatment | Yield (lb/ac) | Yield (t/ha) | Marketable yield (%) |
|---|---|---|---|
| Untreated check | 12 493 | 14.0 | 92 |
| AGTIV REACH® P for Seed Encrusting | 16 955 | 19.0 | 92 |

EFFICACY REPORT

# 2018 – MYCORRHIZAL INOCULANT

CARROT

AGTIV REACH

## ► PLOT TRIALS

**Research partners:** BlackCreek Research Inc.

**Research sites:** Bright, ON

**Treatments:** a) Untreated check;
b) AGTIV REACH® P for Seed Encrusting.

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

**Experimental design:** Randomized Complete Block Design, 8 repetitions.

**Variety:** Envy

**Previous crop:** Soybean

**Seeding details:** Seeded June 11 with Clean seeder at 50 seeds/m of row; 3.3 million seeds per hectare. Conventional till.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:**
- MAP (70 kg/ha)
- Potash (98 kg/ha)
- KMag (125 kg/ha)
- Urea (112 kg/ha)

**Pesticides:**
- Lorox FL (480 g/L, 3.25 L/ha): June 1
- Venture L (125g/L, 2l/ha): July 10

**Harvesting:** September 24, 2018

| Month | Precipitation (mm) |
|---|---|
| June | 91 |
| July | 63.1 |
| August | 116.6 |
| September | 57.8 |
| **TOTAL** | **328.5** |

Table 1. **Summary of marketable yields per treatment**

| Treatment | Yield (lb/ac) | Yield (t/ac) |
|---|---|---|
| Untreated check | 24 450 | 27.4 |
| AGTIV REACH® P for Seed Encrusting | 27 217 | 30.5 |

Table 2. **Summary of yields percentage per treatment**

| Treatment | Marketable yield (%) |
|---|---|
| Untreated check | 66.5% |
| AGTIV REACH® P for Seed Encrusting | 85.5% |

EFFICACY REPORT

# 2017 – MYCORRHIZAL INOCULANT

CARROT

AGTIV REACH

## ► PLOT TRIALS

**Research partners:**
- BlackCreek Research Inc.;
- Prisme.

**Research sites:**
- Bright, ON – Sandy loam soil;
- Napierville, QC – Black soil, organic.

**Treatments:**
a) Untreated check;
b) AGTIV REACH® P for Seed Encrusting.

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

**Experimental design:** Randomized Complete Block Design, 8 replicates.

**Variety:**
Bolero: Ontario
Olympus: Quebec


Carrot split field with AGTIV® vs untreated.
Bigger plants and quicker row closure on the right.

Table 1. **Summary of marketable yields for untreated check**

| Location | Yield (lb/ac) | Yield (t/ha) | Total % Yield difference |
|---|---|---|---|
| Ontario | 36 579 | 41 | +5.4% |
| Quebec | 29 269 | 32.8 | +19.8% |
| **Average** | **32 653** | **36.6** | **+11.7%** |

Table 2. **Summary of marketable yields for AGTIV REACH® P for Seed Encrusting**

| Location | Yield (lb/ac) | Yield (t/ha) | Total % Yield difference |
|---|---|---|---|
| Ontario | 38 542 | 43.2 | +5.4% |
| Quebec | 35 069 | 39.3 | +19.8% |
| **Average** | **36 490** | **40.9** | **+11.7%** |

EFFICACY REPORT

# SUMMARY – MYCORRHIZAL & BACILLUS INOCULANT

CARROT

AGTIV REACH + AGTIV STIMULATE

## ► PLOT TRIALS

**Research partners:**

- Agricultural Development Group Inc. Reseach;
- BlackCreek Research Inc.;
- Prisme.

**Research sites:**

- Quebec;
- Ontario;
- Washington.

**Treatments*:**

a) Untreated;
b) Commercial seed encrusting with AGTIV REACH® P and AGTIV STIMULATE® L.

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

**Experimental design:**

Randomized Complete Block Design:
5 trials (8 repetitions each)

Table 1. **Summary of marketable yields (t/ha) per trial.**[1]

| Year | Sites | Variety | Untreated check yield (t/ha) | AGTIV® yield (t/ha) | Yield increase (t/ha) | Yield increase (%) |
|---|---|---|---|---|---|---|
| **2017** | **Bright, ON** | Bolero | 41 | 47.3 | 6.3 | 15.4 |
| **2017** | **Napierville, QC** | Olympus | 32.8 | 36.2 | 3.9 | 10.4 |
| **2018** | **Bright, ON** | Envy | 27.4 | 31.4 | 4 | 14.6 |
| **2018** | **Napierville, QC** | Envy | 28.9 | 28.1 | - | - |
| **2018** | **Eltopia, WA** | Envy | 14 | 17.2 | 3.2 | 22.9 |
| **Total** | **5 sites** | | **28.8[a]** | **32.0[b]** | **3.2 t/ha*** | **11.1%** |

*Summary of means are significantly different following a combined site ANOVA and a Tukey test (p<05) p = 03

EFFICACY REPORT

# SUMMARY – MYCORRHIZAL INOCULANT

SWEET CORN

AGTIV REACH

## ► PLOT TRIALS

**Research partners:**
- BlackCreek Research Inc.;
- Sandy Knolls Research Inc.

**Research sites:** Ontario

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

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

**Experimental design:** Randomized Complete Block Design:
2 trials (8 repetitions each)

Table 1. **Summary of yields (lb/ac) per trial**

| Year | Location | Seed variety | Untreated check | AGTIV REACH® | Yield increase |
|---|---|---|---|---|---|
| 2023 | Vienna, ON | Fast Lane SE | 3 022.6 | 3 274.8 | 252.2 |
| 2023 | Bright, ON | Fast Lane SE | 12 618 | 13 347 | 729 |

EFFICACY REPORT
**2023 – MYCORRHIZAL INOCULANT**

SWEET CORN

AGTIV REACH

## ► PLOT TRIAL

**Research partner:** BlackCreek Research Inc.

**Research site:** Bright, ON

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

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

**Experimental design:** Randomized Complete Block,
8 repetitions, 18 $m^2$ plots.

**Variety:** Fast Lane SE treated with Dividend Extreme and Vibrance Cinco

**Previous crop:** Soybean

**Seeding details:** Seeded on May 11 with a cone planter at a rate
27 000 seeds/ acre in a sandy loam soil (pH: 6.8, OM: 3.5%).
Emergence on May 22.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:** 24.3-10.8-14.6 -2.2S-1Mg (725 lb/ac): pre plant incorporate

**Pesticides:** Primextra II Magnum (4 L/ha) and Callisto (0.3 L/ha): May 16

**Harvesting:** August 11, 2023

| Month | Precipitation (mm) |
|---|---|
| May | 47 |
| June | 92.8 |
| July | 227 |
| August | 130.2 |
| **TOTAL** | **497** |

Table 1. **Summary of yields per treatment**

| Treatment | Yield (lb/ac) | Yield increase (lb/ac) |
|---|---|---|
| Untreated check | 12 618 | - |
| AGTIV REACH® film coating | 13 347 | 729 |

EFFICACY REPORT

# 2023 – MYCORRHIZAL INOCULANT

SWEET CORN

AGTIV REACH

## ► PLOT TRIAL

**Research partner:** Sandy Knolls Research Inc

**Research site:** Vienna, ON

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

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

**Experimental design:** Randomized Complete Block,
8 repetitions, 18 $m^2$ plots.

**Variety:** Fast Lane SE treated with Dividend Extreme and Vibrance Cinco

**Previous crop:** Fallow

**Seeding details:** Seeded on July 20 with a finger pickup planter at a rate of 32 000 seeds/ac in loamy sand soil (pH: 7.5, OM: 1.4%). Emergence on July 24.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:**
- 0-0-60 (150 lb/ac) and 46-0-0 (450 lb/ac): May 8
- Corn Starter (250 lb/ac): July 20

**Pesticides:** None

**Harvesting:** October 2, 2023

| Month | Precipitation (mm) |
|---|---|
| July | 192.2 |
| August | 117.8 |
| September | 32.6 |
| **TOTAL** | **342.6** |

Table 1. **Summary of yields per treatment**

| Treatment | Yield (lb/ac) | Yield increase (lb/ac) |
|---|---|---|
| Untreated check | 3 022.6 | - |
| AGTIV REACH® film coating | 3 274.5 | 251.9 |

EFFICACY REPORT

# 2019 – MYCORRHIZAL & BACILLUS INOCULANT

SWEET CORN

AGTIV REACH + AGTIV STIMULATE

## ► PLOT TRIALS

**Research partners:** Schreiber & Sons

**Research sites:** Eltopia (WA), USA

**Treatments:**
a) Untreated check;
b) AGTIV REACH® P for Seed Film Coating + AGTIV STIMULATE® L*.

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

**Experimental design:** Randomized Complete Block Design, 8 repetitions.

**Variety:** Nirvana

**Previous crop:** Fallow (2017) and wheat (2018)

**Seeding details:** Seeded June 4, at 30 000 seeds/ac with 75 cm row spacing.

Table 1. **Summary of yields per treatment**

| Treatment | Yield [1] (lb/ac) | Yield [1] (t/ha) | Yield increase (%) |
|---|---|---|---|
| Untreated check | 17 854.0 [a] | 20.0 [a] | |
| AGTIV REACH® P (Seed Film Coating) + AGTIV STIMULATE® L | 21 067.7 [b] | 23.6 [b] | +18% |

[1] Yields with same letter are not statistically different following a LSD test at p≤0.05.

## OPERATIONAL NOTES AND RAIN FALL

**Fertilisation:** Plots were irrigated and fertilized.

**Pesticides:** Atrazine: June 22
Atrazine + Impact: July 22

**Harvesting:** September 16, 2019

| Month | Precipitation (mm) |
|---|---|
| June | 1.95 |
| July | 2.44 |
| August | 25.62 |
| September | 11.94 |
| **TOTAL** | **41.95** |




AVERAGE YIELD INCREASE

AGTIV REACH

GREEN BEAN

7.8 %

6 sites over 1 year
Europe

AGTIV THRIVE

GREEN PEA

5.3 %

12 sites over 3 years
Canada

AGTIV REACH

PEPPER

6.8 %

5 sites over 3 years
Canada

EFFICACY REPORT

# SUMMARY – MYCORRHIZAL INOCULANT

GREEN BEAN

AGTIV REACH

## ► SPLIT FIELDS DEMONSTRATIONS

**Research partners:** Growers

**Research sites:** France

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

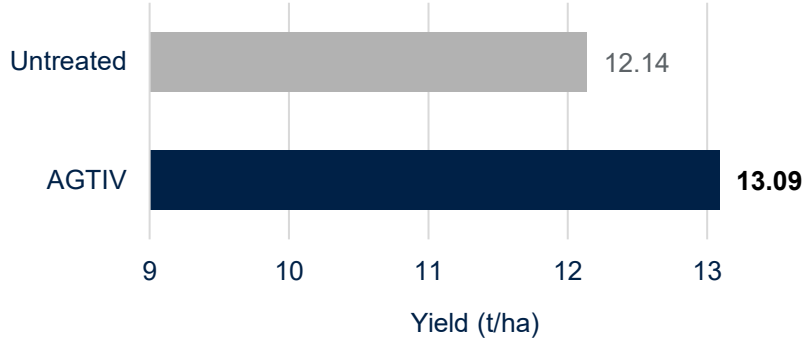
*Products applied according to the manufacturer's recommended rate.

**Experimental design:** Split field: 6 demos

Table 1. **Summary of yields per demo**

| Variety | Untreated | | AGTIV® mycorrhizal inoculant | | Increase (%) AGTIV® vs untreated |
|---|---|---|---|---|---|
| | (lb/ac) | (t/ha) | (lb/ac) | (t/ha) | |
| Stanley | 13 561 | 15.16 | 14 810 | 16.56 | 9.2 |
| Costal | 11 865 | 13.31 | 12 668 | 14.24 | 7 |
| Bamaco | 15 167 | 16.98 | 16 594 | 18.57 | 9.4 |
| Compass | 8 297 | 9.27 | 9 635 | 10.8 | 16.5 |
| Paloma | 9 546 | 10.73 | 9 367 | 10.47 | -2.4 |
| Linex | 6 512 | 7.33 | 6 959 | 7.83 | 6.8 |
| **Average** | **10 825** | **12.14** | **11 672** | **13.09** | **7.8%** |

Figure 1. **Yield increase with AGTIV® mycorrhizal inoculant.**



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# SUMMARY – MYCORRHIZAL & RHIZOBIAL INOCULANT

GREEN PEA

AGTIV THRIVE

## ► SPLIT FIELDS DEMONSTRATIONS

**Research partners:** Growers

**Research sites:**
- Ontario;
- Quebec.

**Treatments*:**
a) Untreated;
b) AGTIV THRIVE®.

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

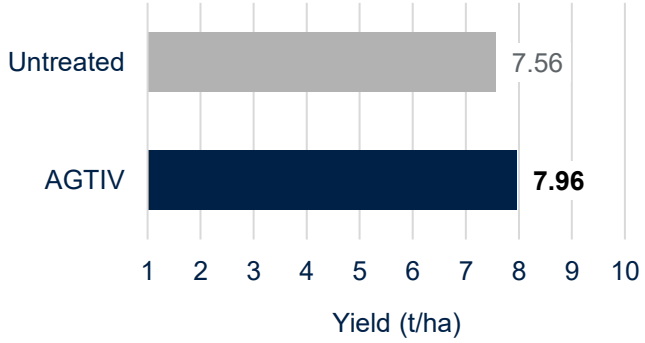
**Experimental design:** Split field: 12 demos


Plant growth and health is enhanced on the right, and the leaf area is increased with AGTIV®.

Table 1. **Summary of yields per year**

| Year | Number of sites | Average increase (t/ac) | Average increase (t/ha) | Average increase (%) |
|---|---|---|---|---|
| 2015 | 4 | 0.31 | 0.77 | 23.3 |
| 2016 | 7 | 08 | 0.20 | 3.5 |
| 2017 | 1 | 0.12 | 0.30 | 3.7 |
| **Total** | **12 sites** | **0.16 t/ac** | **0.40 t/ha** | **5.3%** |

Figure 1. **Average yield increase**



# TRIALS PICTURES



Pepper split field with AGTIV® vs untreated.
Plant growth and health is enhanced, and row closure occurs sooner on the right.


Bigger root system with more fibrous roots, and more fruits per plant with AGTIV®.

EFFICACY REPORT

# SUMMARY – MYCORRHIZAL INOCULANT

PEPPER AGTIV REACH

## ► SPLIT FIELDS DEMONSTRATIONS

**Research partners:** Growers

**Research sites:**
- Ontario;
- Quebec.

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

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

**Experimental design:** Split field: 5 demos

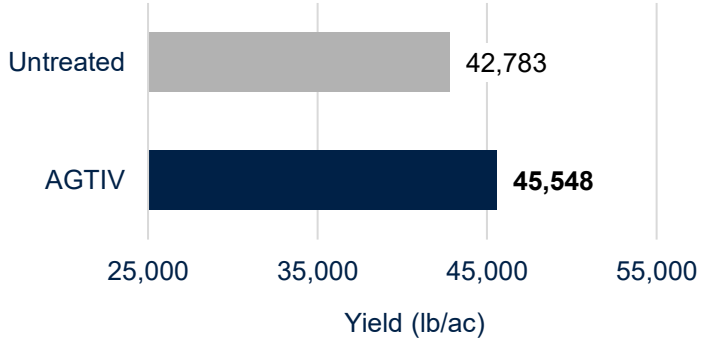

More developed root system, more leaves and bigger fruits with AGTIV®.

Table 1. **Summary of yields per year**

| Year | Number of sites | Average increase | | |
|---|---|---|---|---|
| | | (lb/ac) | (t/ha) | (%) |
| 2002 | 2 | * | * | 5.1 |
| 2015 | 2 | 2 840 | 3.18 | 10 |
| 2016 | 1 | 2 617 | 2.93 | 3.7 |
| **Total** | **5 sites** | **2 766 lb/ac **** | **3.1 t/ha**** | **6.8%** |

* Plot trial data for 2002: average increase of 95 g/plant.
** The 2766 lb/ac average refers only to 2015-2016 data.

Figure 1. **Average yield increase**



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# 2016 – MYCORRHIZAL INOCULANT

STRAWBERRY

AGTIV REACH

## ► PLOT TRIALS

**Research site:** Saint-Eustache, QC

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

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

**Experimental design:** 3 fields. 3 plots of 7 plants per field.
New strawberry establishment.

Table 1. **Strawberry yields (number of fruits/plot) per treatment**

| Treatment | Ripe fruits | Marketable fruits | Unmarketable fruits |
|---|---|---|---|
| Untreated | 16.0 | 13.6 | 2.4 |
| AGTIV REACH® | 18.4 | 17.1 | 1.3 |
| **% difference AGTIV® vs untreated** | **+ 15%** | **+ 26%** | **- 47%** |


Larger and bigger plants with AGTIV® on the right.

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