PREMIER TECH

AGTIV®

EFFICACY REPORT 2025

CEREALS

CEREALS

AVERAGE YIELD INCREASE

AGTIV REACH

DURUM WHEAT

3.5 bu/ac

5.8%

237 kg/ha

14 sites over 12 years

Canada

AGTIV REACH

BARLEY

7.1 bu/ac*

8.4%

380 kg/ha

30 sites over 12 years

Canada and Europe

TRIALS PICTURES

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.

SUMMARY – MYCORRHIZAL INOCULANT

► SPLIT FIELD TRIALS

Research partners: Growers

Research sites:
- Canada;
- Europe.

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

*Products applied according to manufacturers recommended rate.

Experimental design: 45 split fields.

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%

EFFICACY REPORT

2019 – MYCORRHIZAL INOCULANT

DURUM WHEAT

AGTIV REACH

► PLOT TRIAL

Research partner: Eurofins Agroscience Services

Research site: Beauce, France

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

*Products applied according to manufacturers recommended rate.

Experimental design: 8 replicated plots per treatment in randomized complete block design.

Variety: Anvergur

Previous crop: Sugar beet

Seeding details: Seeded on November 15 at 300 seeds/m^2 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**

EFFICACY REPORT

2018 – MYCORRHIZAL INOCULANT

DURUM WHEAT

AGTIV REACH

► PLOT TRIAL

Research partner: Wheatland Conservation Area

Research site: Swift Current, SK

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

*Products applied according to manufacturers recommended rate.

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

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.

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

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**

EFFICACY REPORT

SUMMARY – MYCORRHIZAL INOCULANT

BARLEY

AGTIV REACH

► SPLIT FIELD DEMOS

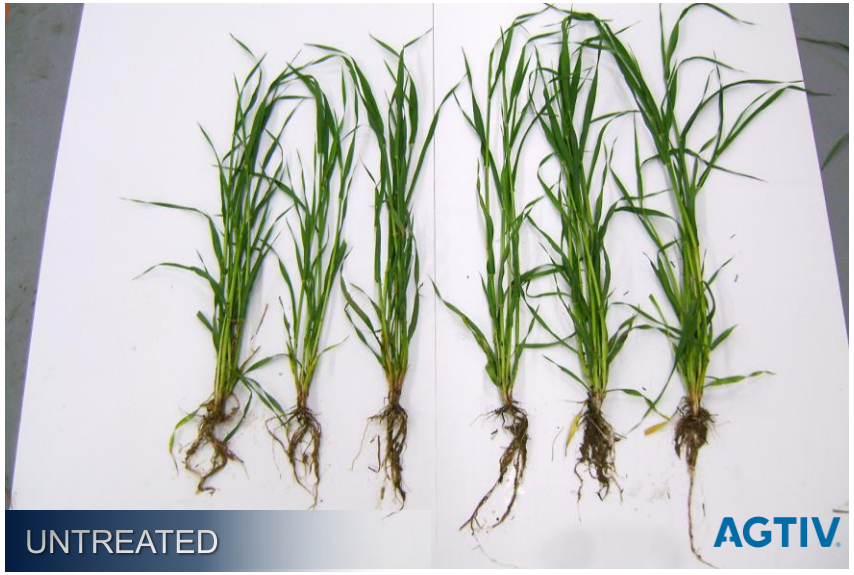
Research partners: Growers

Research sites:
- Canada;
- Europe.

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

*Products applied according to manufacturers recommended rate.

Experimental design: Split fields

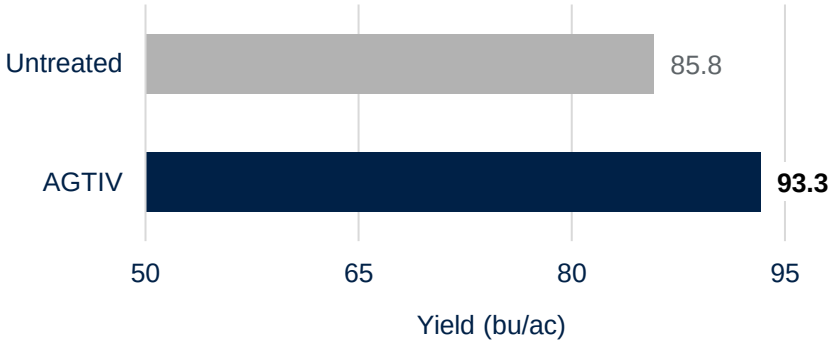


Barley plants have an increased root mass on the right with AGTIV®, which leads to enhanced plant health and growth.

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).**



EFFICACY REPORT

2019 – MYCORRHIZAL INOCULANT

FIBRE FLAX

AGTIV REACH

► PLOT TRIAL

Research partner: Antédis

Research site: Bourbourg, North department, France

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

*Products applied according to manufacturers recommended rate.

Experimental design: 9 replicated plots per treatment in randomized complete block design.

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

EFFICACY REPORT 2025

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WE CARE ABOUT YOUR SUCCESS!

PEOPLE AND TECHNOLOGIES MAKING A DIFFERENCE

At Premier Tech, we are all about making a difference by connecting People and Technologies for more than 100 years. One team driven by a shared will to deliver sustainable solutions that help feed, protect and improve our world. Premier Tech has a wide range of products, services, brands, and technologies allowing to increase crop yields, bring beautiful gardens to life, automate the handling and packaging operations of many manufacturing facilities, treat and recycle water, support companies in their digital transformation, and offer bio-ingredients for the well-being of humans and animals.

PREMIER TECH

PT Growers and Consumers

World Headquarters
1 avenue Premier
Campus Premier Tech
Rivière-du-Loup (Québec)
G5R 6C1 CANADA

PTAGTIV.COM
1 866 454-5867
info@ptagtiv.com

V20250228