

AGTIV[®]

EFFICACY REPORT

CEREALS





3.8 bu/ac 258 kg/ha

**DURUM
WHEAT**

AVERAGE YIELD INCREASE

12 sites over 7 years
Canada **6.5%**

7.3 bu/ac 394 kg/ha

BARLEY

AVERAGE YIELD INCREASE

28 sites over 6 years
Canada and Europe **10.5%**

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.



EFFICACY REPORT

SUMMARY – MYCORRHIZAL INOCULANT

► GROWER SPLIT FIELDS

Table 1. Average yield increase with AGTIV® REACH™ in Canada and Europe (43 sites, 2012 to 2021).

Number of sites	Average increase (%)
43	7,7%

Table 2. Average yield increase with AGTIV® REACH™ in Western Canada (2012 to 2018).

Number of sites	Average increase (bu/ac)	Average increase (%)
12	3.8	6.5%

Table 3. Average yield increase with AGTIV® mycorrhizal inoculant in FRANCE, Europe (2012 to 2021).

Number of sites	Average increase (bu/ac)	Average increase (%)
31	8.3	8.2%



DURUM WHEAT

EFFICACY REPORT

2019 – MYCORRHIZAL INOCULANT



DURUM WHEAT

► PLOT TRIAL

Research partner: Eurofins Agrosience Services

Research site: Beauce, France

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

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

Wheat variety: Anvergur

Previous crop: Sugar beet

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

*Products applied according to manufacturer's recommended rate.

Table 1. Summary of wheat yield per treatment.

Treatment	Yield ¹ (bu/ac)	Yield ¹ (t/ha)
Untreated	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 following a Tukey HSD test at p≤0.05

Plot operational notes and rain fall.

- Fertilization:
 - N:P+S at 450 kg/ha (19-02-18)
 - Ammonitrate at 290 kg/ha (19-03-18)
- Pesticides:
 - Atlantis Pro (19-03-21)
 - Priori Xtra (19-04-21)
 - Bofix and Chardol (19-04-23)
 - Rubric 125 SC (19-05-15)
 - Prosaro (19-05-29)
- Harvested on July 25, 2019.

Year	Month	Precipitation (mm)
2018	November	96.7
	December	57.9
2019	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

► PLOT TRIAL

Research partner: Wheatland Conservation Area

Research site: Swift Current (SK), Canada

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

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

Wheat variety: Precision durum

Previous crop: Canola stubble

Seeding details: Seeded with fabro plot drill & Atomjet knife openers on May 13, 2018, at 115 lb/ac on 20 m² plots with 9 in row spacing

*Granular product applied according to manufacturer's recommended rate.



DURUM WHEAT

Table 1. Summary of Wheat yields per treatment.

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

Plot operational notes and rain fall.

- Fertilized with
 - 58 lb/ac 21-0-0-24
 - 67 lb/ac 11-52-0
 - 111 lb/ac 46-0-0
- Pre-seeding burn off with Clean Start
- 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

► GROWER SPLIT FIELDS

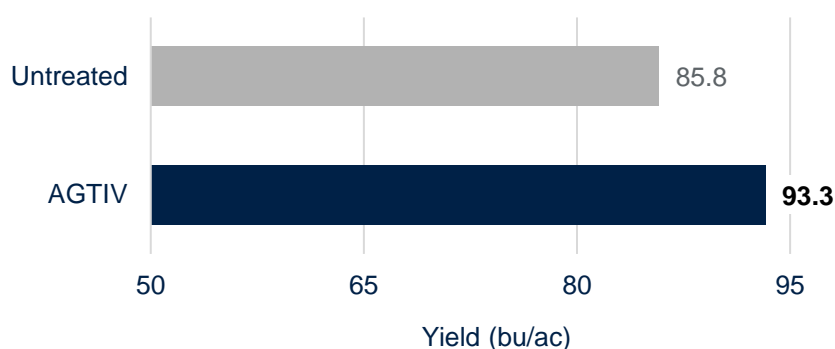


BARLEY

Table 1. Average yield increase with AGTIV® REACH™ in Canada (2012 to 2016).

Number of sites	Average increase (bu/ac)	Average increase (kg/ha)	Average increase (%)
26	7.0	377	10.6%

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



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

EFFICACY REPORT

2019 – MYCORRHIZAL INOCULANT



FIBRE FLAX

► PLOT TRIAL

Research partner: Antédis

Research site: Bourbourg, North department, France

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

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

Seeding details: Seeded April 26 at 2 000 seeds/m² 16.5 cm row spacing.

*Product applied according to manufacturer's recommended rate.

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

Treatment	Yield ¹		Fiber yield	
	(kg/ha)	(lb/ac)	(kg/ha)	(lb/ac)
Untreated	5490 ^a	4898 ^a	730 ^a	651 ^a
AGTIV® FIELD CROPS • Powder	6390 ^b	5701 ^b	856 ^b	764 ^b

¹ Yields followed by different letters are significantly different (Tukey's test HSD at p≤0.05).

Plot operational notes and rain fall

- Pesticides:
 - Patton M (19-04-26)
 - Lontrel + Oil (19-05-22)
 - Nissodium (19-05-31)
- Harvested October 15, 2019.

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

EFFICACY REPORT 2023

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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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