



AGTIV[®]

EFFICACY REPORT 2024

CEREALS





CEREALS

AVERAGE YIELD INCREASE



AGTIV
REACH

3.5 bu/ac
5.8%

DURUM WHEAT

237 kg/ha
14 sites over 12 years
Canada

AGTIV
REACH

7.1 bu/ac*
8.4%

BARLEY

380 kg/ha
30 sites over 12 years
Canada and Europe

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 TRIALS

Research sites:

- Canada;
- France.

Treatments:

- Untreated check;
- AGTIV® REACH™.

*Products applied according to manufacturers recommended rate.

Experimental design: 45 grower 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% |

Before 2022:
AGTIV® REACH™ was formerly known as AGTIV® FIELD CROPS

► PLOT TRIAL

Research partner: Eurofins Agrosience 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/m² with 15 cm row spacing.

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 |

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).

► 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 |

► GROWER SPLIT FIELD TRIALS

Research sites: • Canada;
• Europe.

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

*Products applied according to manufacturers recommended rate.

Experimental design: Grower split fields

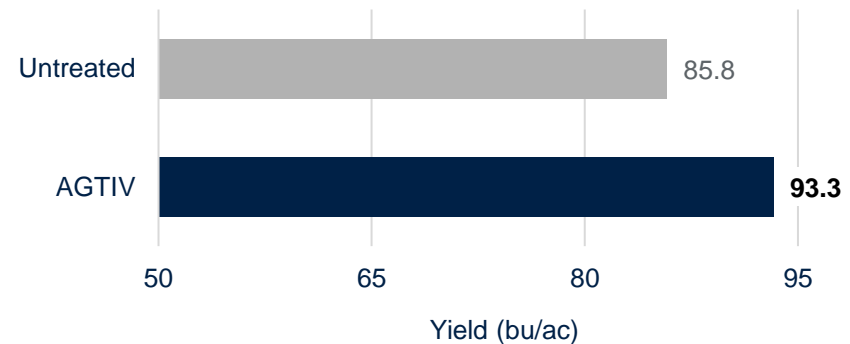


Barley plants have an increased root mass on the right with AGTIV®, which leads to enhanced plant health and growth.

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).



Before 2022:
AGTIV® REACH™ was formerly known as AGTIV® FIELD CROPS

► 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/m² 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).

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CONTACT OUR DEDICATED TEAM TODAY.
WE CARE ABOUT YOUR SUCCESS!



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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