



# CoAXium® Barley Production System

## Crop safety when using Aggressor® herbicide



The CoAXium® Barley Production System is based on varieties bred by AGT that carry tolerance to Aggressor® herbicide, to control problem grass weeds in-crop.

Released by AGT in 2022, Titan AX<sup>®</sup> is the first barley variety in the world specifically developed to carry tolerance to Aggressor® herbicide.

Aggressor®, by Sipcam, is a Group 1 Quizalofop-P-Ethyl herbicide, offering post-emergent knockdown of major grass weeds including brome grass, barley grass, annual ryegrass, wild oats, and volunteer wheat and barley (non-Aggressor® tolerant only). Aggressor® herbicide has a wide application window and flexibility to be mixed with herbicides to control broadleaf weeds, with no carryover on soil or grain residue issues.

**AGT testing has demonstrated that Aggressor® herbicide is very safe to use on CoAXium® barley varieties.**

### Effect on yield

Trials carried out by AGT at ten sites from 2019-2021 showed that Aggressor® applied at 1x label rate did not negatively impact yield of CoAXium® barley overall (Figure 1).

AGT application rate trials carried out at seven sites in from 2019-2021 showed that there was negligible impact on the yield of CoAXium® barley at both 1x and 2x label rate (Figure 2).

Figure 1. Yield of CoAXium® barley treated with 1x label rate of Aggressor®

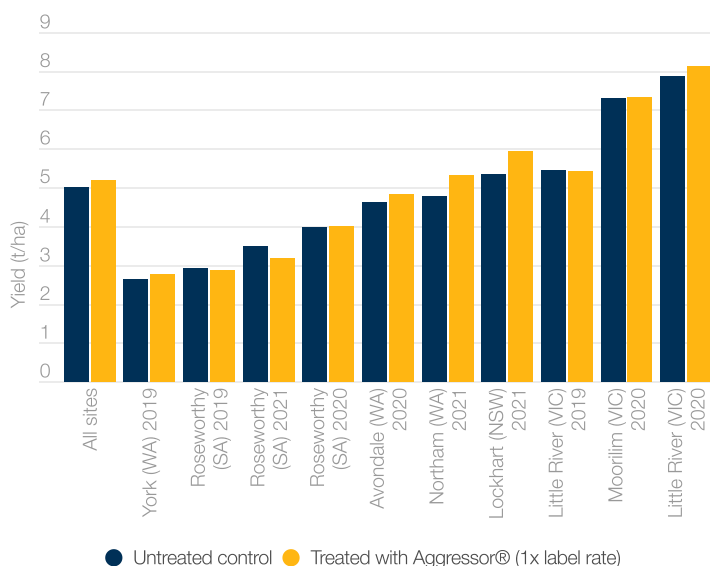
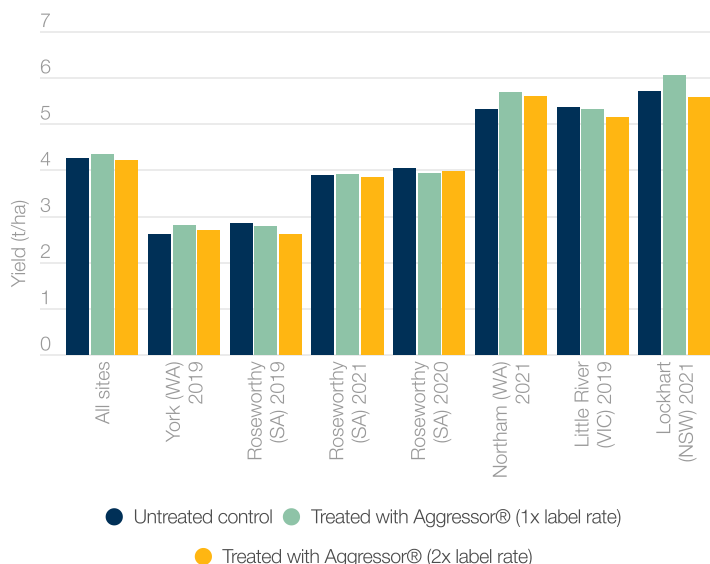


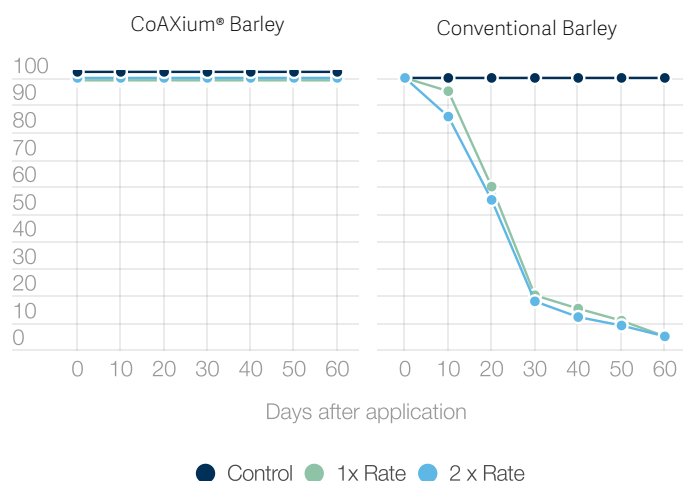
Figure 2. Yield of CoAXium® barley treated with 1x label rate & 2x label rate of Aggressor®



## Effect on biomass

Trials carried out by AGT at Roseworthy SA in 2021 showed that Aggressor® applied at both 1x and 2x label rate did not negatively impact biomass production of CoAXium® barley at all, whilst causing gradual biomass reduction and ultimately death of a conventional barley variety at both rates (Figure 3).

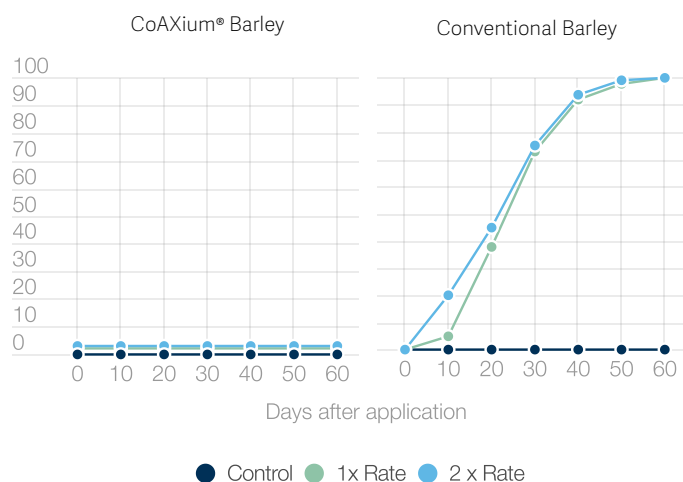
**Figure 3.** Biomass reduction of CoAXium® barley & conventional barley, treated with 1x label rate & 2x label rate of Aggressor®



## Effect on leaf yellowing

Trials carried out by AGT at Roseworthy SA in 2021 showed that Aggressor® applied at both 1x and 2x label rate did not cause any notable leaf yellowing on CoAXium® barley, whilst causing gradual onset of leaf yellowing and ultimately death of a conventional barley variety at both rates (Figure 4).

**Figure 4.** Leaf yellowing of CoAXium® barley & conventional barley, treated with 1x label rate & 2x label rate of Aggressor®



## Aggressor® tolerance at work

**Trial site: Roseworthy, SA**

**Sown: 18th May 2020**

**Aggressor® application date: 17th June 2020**

**Aggressor® application rate: 1x label rate**

**Crop growth stage at time of application: 4 leaf**

	Untreated control	Treated with Aggressor® herbicide	Treated with Aggressor® herbicide
Days after application	CoAXium® barley	CoAXium® barley	Conventional barley
14			
28			
35			
48			
96			

Disclaimer: The information contained within this brochure is based on knowledge and understanding at the time of writing. Growers should be aware of the need to regularly consult with their advisors on local conditions and currency of information.