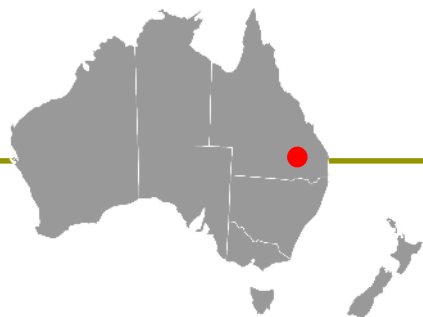


Trial: Humifirst WG on Green Beans



Crop: Green Beans var. Hickok

Product: Humifirst WG

Location: Gatton, Queensland, Australia

Aim: Improve roots

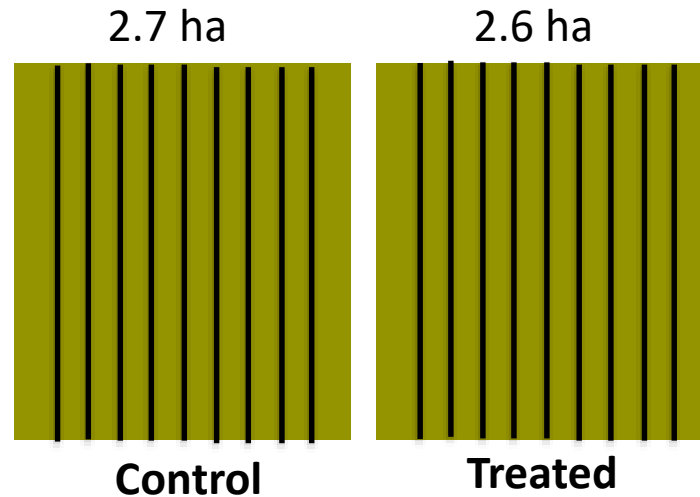
Application: 1 x 2 kg /ha by drip 3 DAP

Timing: 2nd water after planting

Dates: Planting: 25/11/2017 Harvest: 22/01/2018

Assessment: Visual assessment, Yield & Pack Out

Design



Product	Application Rate	Application Method	Application Timing
Humifirst WG	2 kg /ha	Drip	3 days after planting

Results – Visual Root Assessment



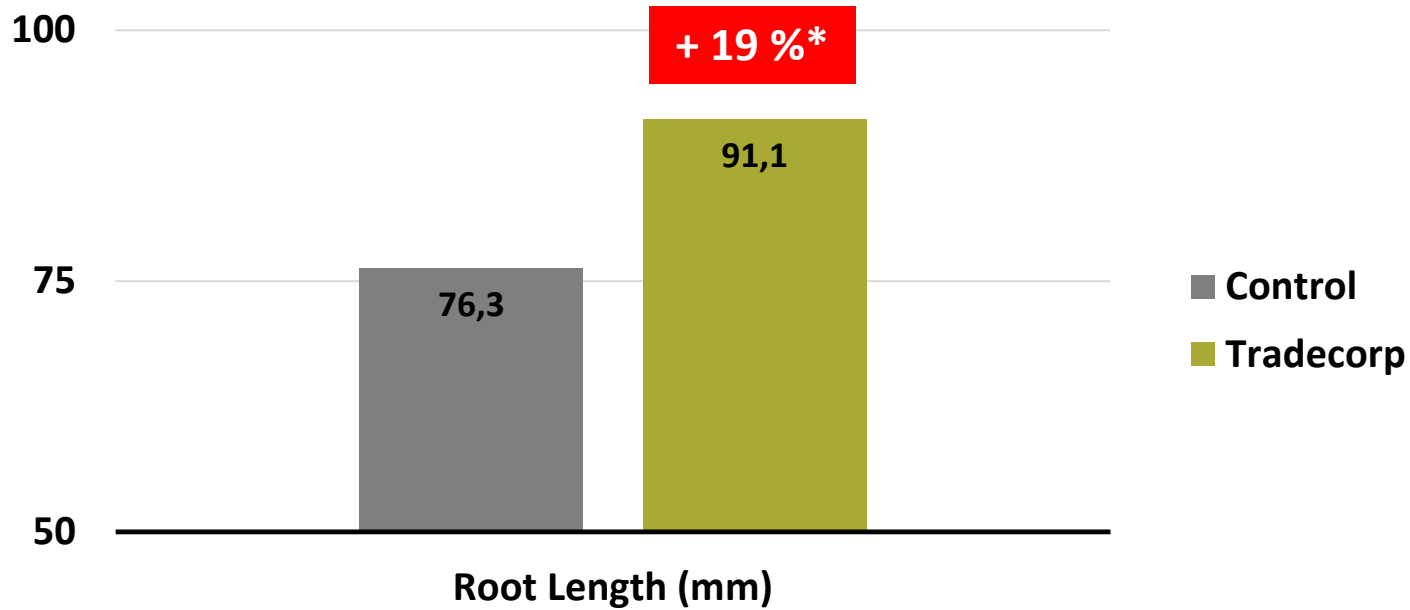
Control



Humifirst WG:

- Increased Initiation & Branching
- Increased Fine Roots & Total Root Biomass

Results: Root Length



- Humifirst WG increased root length by +19%
- Sig. $P < 0.001$

Results – Visual Mid Summer Midday Wilt

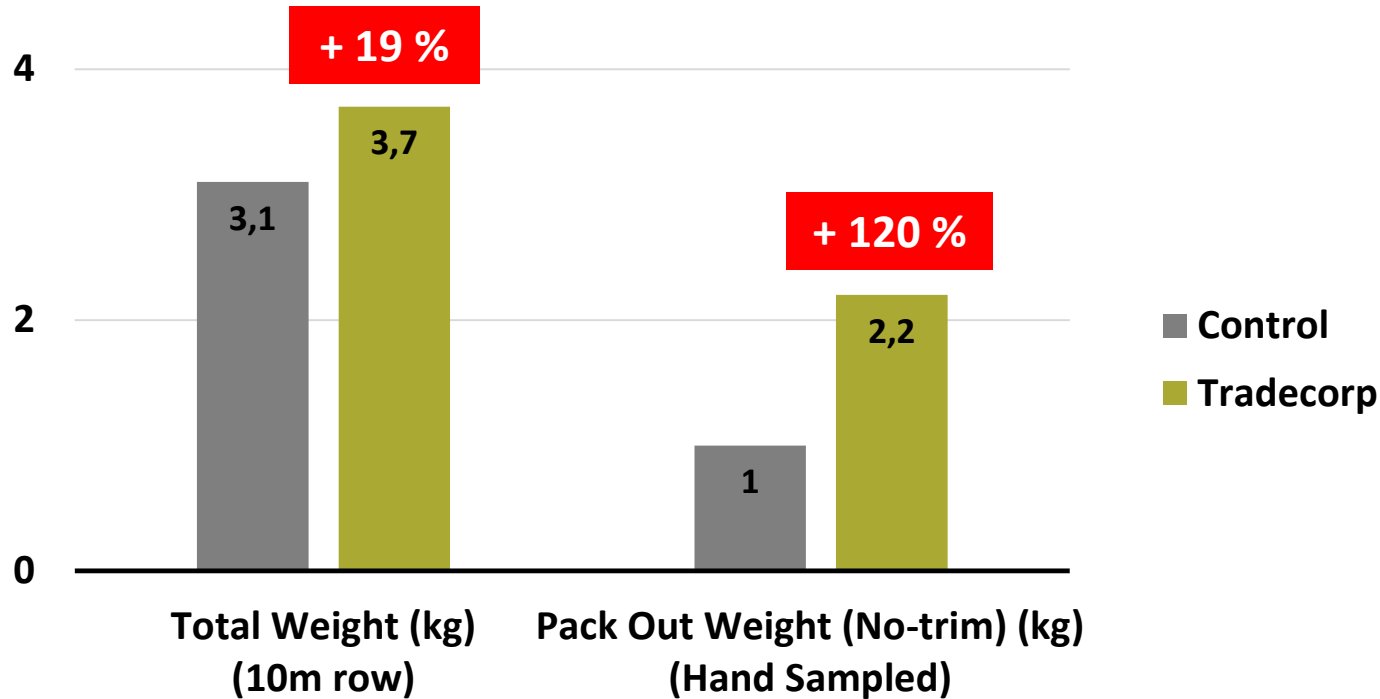


No Humifirst WG

Humifirst WG

- Humifirst WG clearly helps plants resist mid-day wilt due to enhanced rooting and therefore water absorption capability
- Humifirst WG treatment did not show signs of wilt until 3 hours after the Control

Results: Total Weight & Packout



- Humifirst WG increased Brute Yield +19% and Pack Out by +120%
- The vastly improved Pack Out was due to more even shape and size of beans in Humifirst treatment due to less stress deformations from heat and water stress
- Humifirst WG has less uneven, curled and twisted beans

Humifirst WG:

- increased Root Branching & Fine Roots
- increased Root Biomass which reduced mid-day wilt
- increased Total weight by **19 %**
- increased Pack Out Weight by **120 %**
- reduced growth stress related deformations in the harvested beans

**Humifirst WG @ 2 kg /ha @ planting stimulates
more roots increasing:
Yield +19%
Pack Out Weight +120%**

