

# Trial: Humifirst WG, Amifol K + Tradebor in Green Beans

**Crop:** Green Beans var. Hickok

**Product:** Humifirst WG, Amifol K & Tradebor

**Farmer:** Stanthorpe, Queensland, Australia

**Aim:** Increase Yield & Quality

**Application:** Drip, Tractor Boom Spray, Hand Boom

**Rate / Design:** Next Slide

**Start date:** 21/12/17

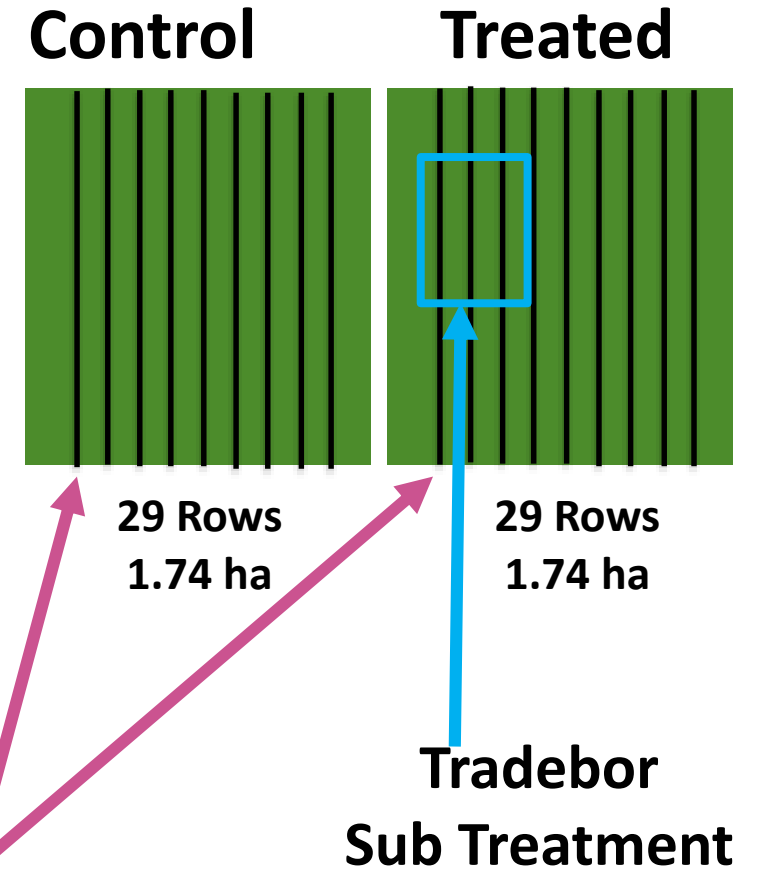
**Harvest date:** 23/02/2018

**Assessment:** Hand assessment, pack out yield

**Notes:** Soil: Granite, Climate: Sub Tropical Highland, Irrigation: Drip

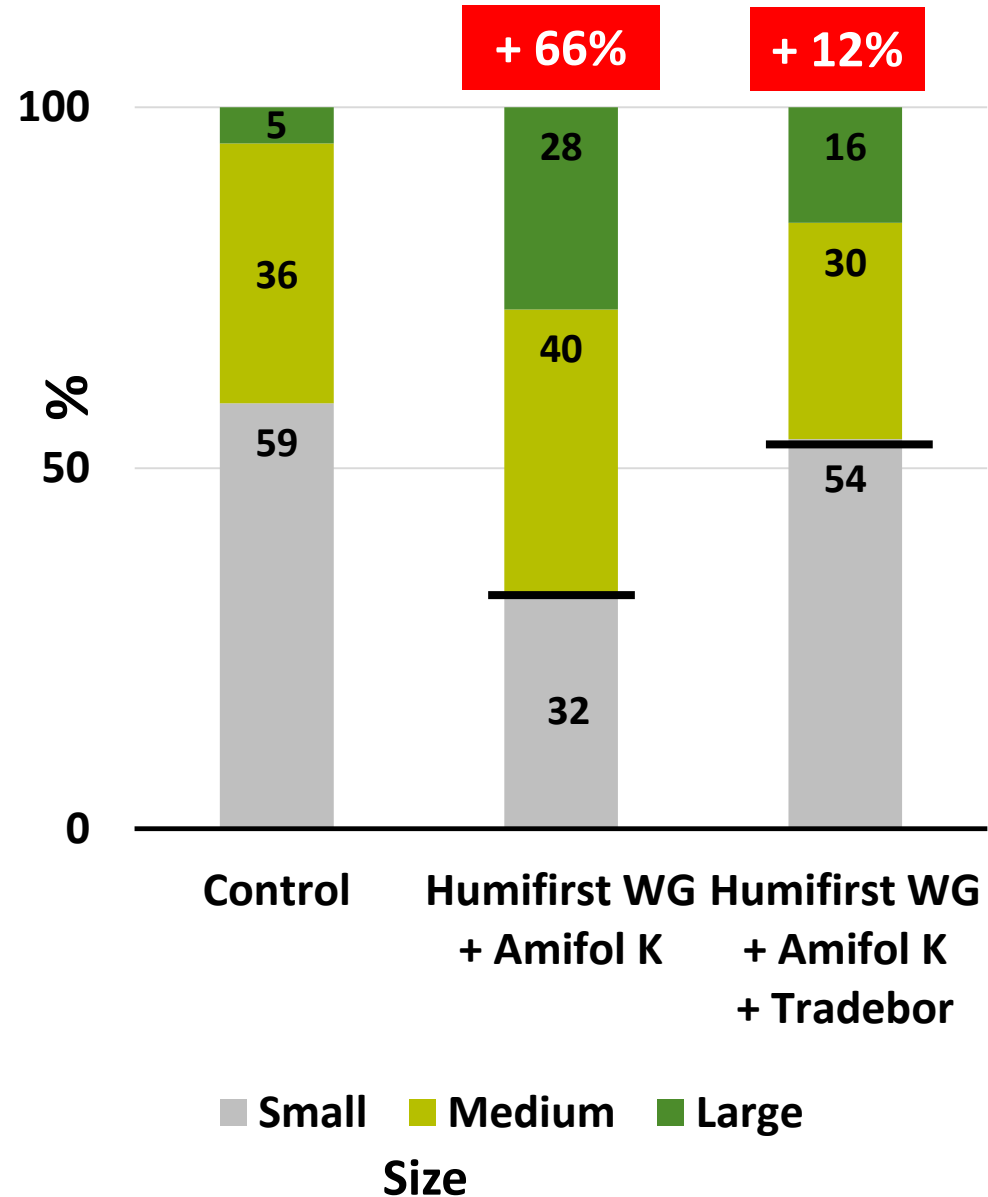
# Design

Product	Application Rate	Application Method	Application Timing
<b>Humifirst WG</b>	6 kg /ha	Drip	3 days after planting, one application
<b>Tradebor</b>	2 L /ha x2	Hand Boom (Sub Sample of Treated Section)	2 application, 1 before budding (31 /1/18) and 1 at budding (6/2/18)
<b>Amifol K</b>	3 L /ha x2	Tractor Boom Spray (400 L /ha)	Full flower then 7 days latter



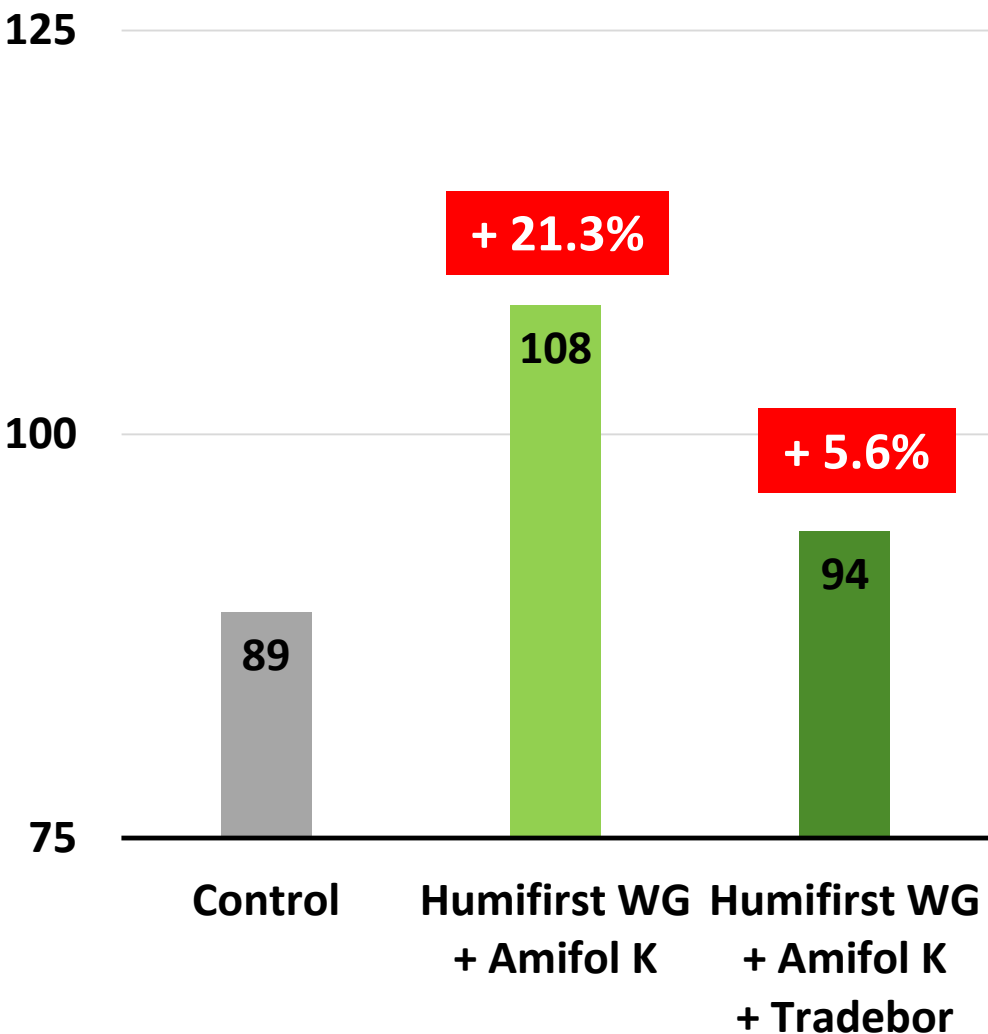
**Direction of Drip Lines  
&  
Tractor Spray Travel**

# Results: % Beans in each Size Category



- Sampling was performed 10 days before harvest on 10m rows
- **Humifirst + Tradebor + Amifol K** increased the % in the **Medium & Large Size +12%**
- **Humifirst + Amifol K** increased the % in **Medium & Large Size +66%**

# Results: Total Number of Beans



## The **Total Number of Beans:**

- Humifirst WG + Amifol K: **+ 21.3%**
- Humifirst WG + Amifol K + Tradebor: **+ 5.6%**



# Hand Sampling

**Control**

**Humigirst WG +  
Amifol K**

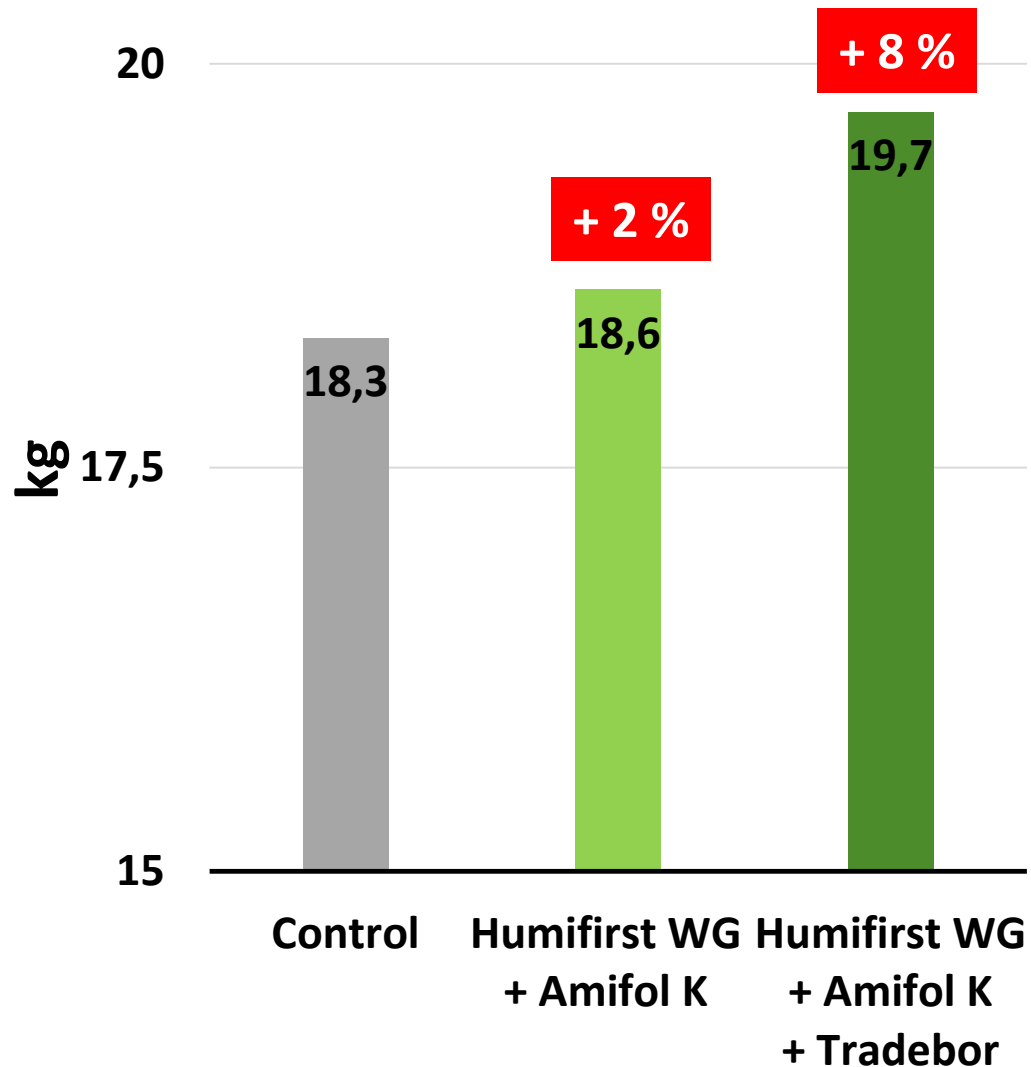
**Humigirst WG +  
Amifol K +  
Tradebor**



**Higher  
Yield  
Potential**

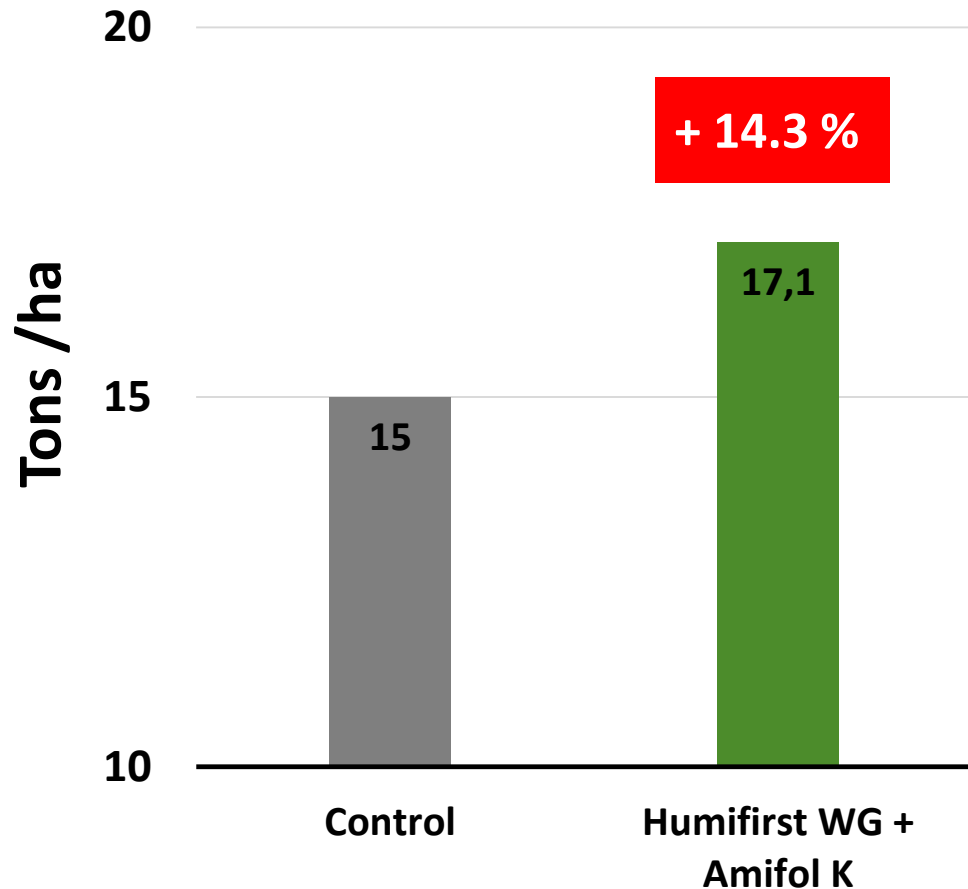
**Higher  
Quality  
Bean  
for Packout**

# Results: Packout Yield per 10m Row 10 days before Harvest



- Sub sampling & Packout estimate was performed 10 days before harvest on 10m rows to estimate harvest
- **Humifirst + Amifol K** increased Brute Yield +2%
- **Humifirst + Tradebor + Amifol K** increased Brute Yield +8%
- **Humifrist + Amifol K + Tradebor** had a higher packout due to less bending in the beans leading to more saleable Yield

## Results: Brute Yield at Harvest



- The Control and Humifirst WG + Amifol K commercial sized plots were harvested
- **Brute Yield** was increased by **+14.3%** in the **Humifirst WG + Amifol K** treatment compared to the Control





## Bean Harvester Driver (20 years experience):

*“The Treated beans were standing better with more even feeding into the harvesting head and easier and consistent separation of the beans from the plant”*



## Conclusion

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- **Humifirst WG + Amifol K** increased **Brute Yield** +14.2 in the Commercial Sized Plot
  - This is due to more beans in the Medium and Large sized category
- Humifirst WG + Amifol K + Tradebor increase Yield by 8% in the sub sampled plots which was more than Humifirst WG + Amifol K alone
- A commercial sized plot including Tradebor into the treatments is recommended to test the difference between Humifirst WG + Amifol K and Humifirst WG + Amifol K at commercial scale



# Conclusion

**Humfirst WG @ 6kg /ha + Amifol K @ 3L /ha x2 increased Brute Yield**

**+14.2%**

**in Commercial Sized Blocks**

**Addition of Tradebor to the Tradecorp Program increased Pack Out another +6%**

**when more compared to Humifirst WG + Amifol K alone in small plot trial**

**Tradecorp recommend move to commercial size block trial with Tradebor**

