

BIOFUMIGATION AND COVER CROP MARKETS

BENEFITS OF AAC GUARD



Produces 20% more biomass than open pollinated varieties



Increased glucosinolates in the plant



Increased disease and nematode control



Provides quick ground cover



Improved soil health

AAC GUARD GUARANTEE

- Certified seed
- Plant Variety Protection: application filed
- Non GMO

PACKAGING

- 22.7KG (50lb) bags OR
- 454KG (1,000lb) totes

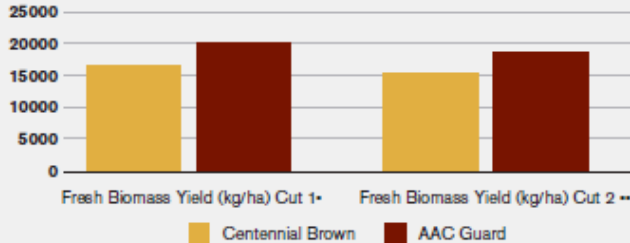
SEEDING DEPTH

- ¼ to ¾ inch

DAYS TO BLOOM

- 42

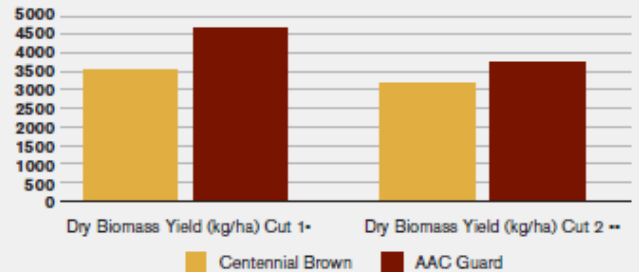
**Biomass Comparison (Fresh)
AAC Guard vs Centennial Brown**



* Stage ~10 days of first flowering, 1x1 m above ground biomass collected, remainder of plot then mowed to ~30-40cm and allowed to reflower.

** Stage ~10 days of second flowering, 1x1m above ground biomass collected in new area of plot from Cut 1.

**Biomass Comparison (Dry)
AAC Guard vs Centennial Brown**



* Stage ~10 days of first flowering, 1x1 m above ground biomass collected, remainder of plot then mowed to ~30-40cm and allowed to reflower.

** Stage ~10 days of second flowering, 1x1m above ground biomass collected in new area of plot from Cut 1.

AAC Guard was developed by Agriculture and Agri-Food Canada and Mustard 21 Canada Inc. (Mustard 21) for the biofumigation and cover crop markets. Growers are looking for a solution for the biofumigant and cover crop markets that doesn't set seed so they can avoid volunteer seed germination. Growers are also looking for more activity on diseases like verticillium and nematodes which can be tied to increased glucosinolates, from higher concentrations in vegetative biomass and higher biomass yields.



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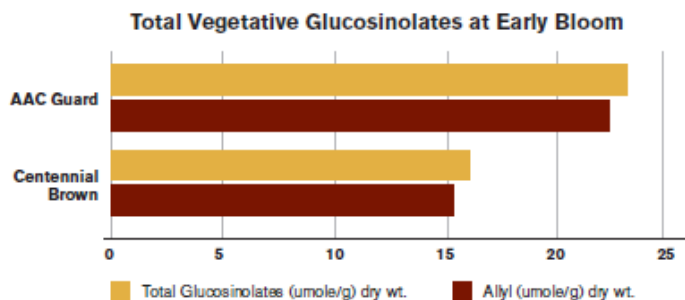
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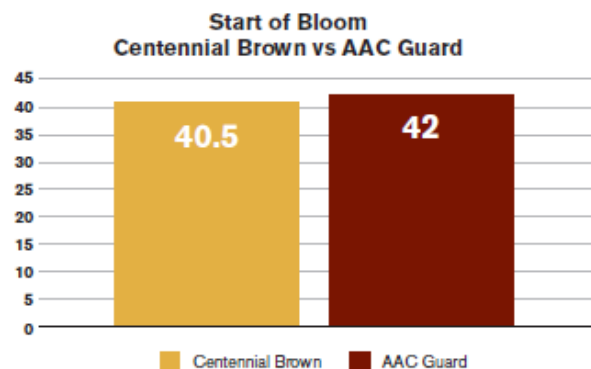
GLUCOSINOLATES

Mustard 21 measured vegetative glucosinolate concentrations at early bloom of Centennial Brown and AAC Guard. AAC Guard's foliar biomass had a much higher glucosinolate concentration.



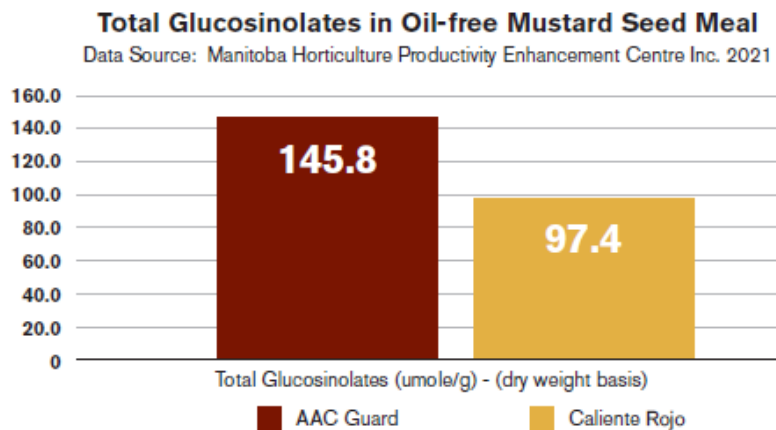
BLOOM TIMING

The times of blooming for AAC Guard and Centennial Brown are very similar.



TOTAL GLUCOSINOLATES IN OIL-FREE MUSTARD SEED MEAL

Data Source: Manitoba Horticulture Productivity Enhancement Centre Inc. 2021



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