

Effect of Flumioxazin on Sweetpotato Yield and Quality

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Background/Justification

- Flumioxazin is a PPO herbicide
- Few herbicides registered for application in sweetpotato
- Reflex registered in 2019 – also a PPO herbicide
 - Label restriction: Cannot tank mix with Valor (PPO-resistance)
- Labeled rate is up to 3 oz/A
- Some anecdotal evidence has led some to believe flumioxazin can cause misshapen roots

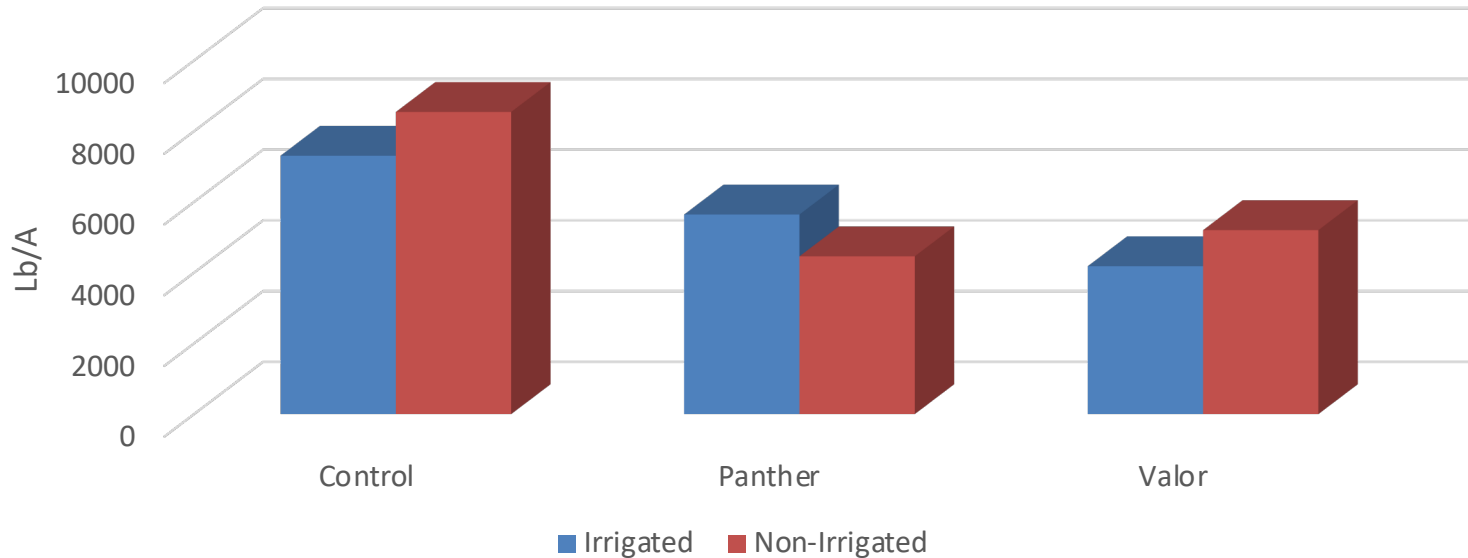
Methods

- Location: Horticultural Crops Research Station in Clinton, NC (**1 location in 1 year**- Needs to be repeated many times.)
- Treatments:
 - Valor and Panther at 3, 6, and 9 oz/A
 - Irrigated and non-irrigated
 - Non-treated was included in each irrigation treatment
 - Study maintained weed-free

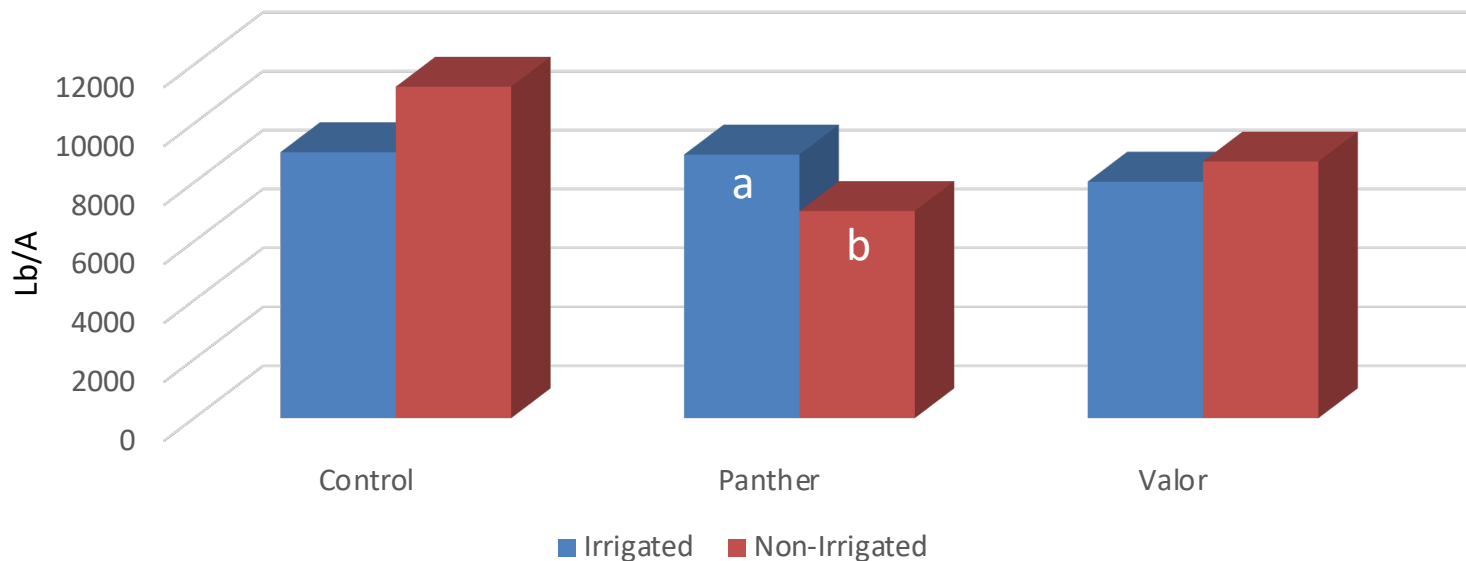
RESULTS

IRRIGATED VS NON-IRRIGATED

Effect of Irrigation on US No 1 Sweetpotato Yield

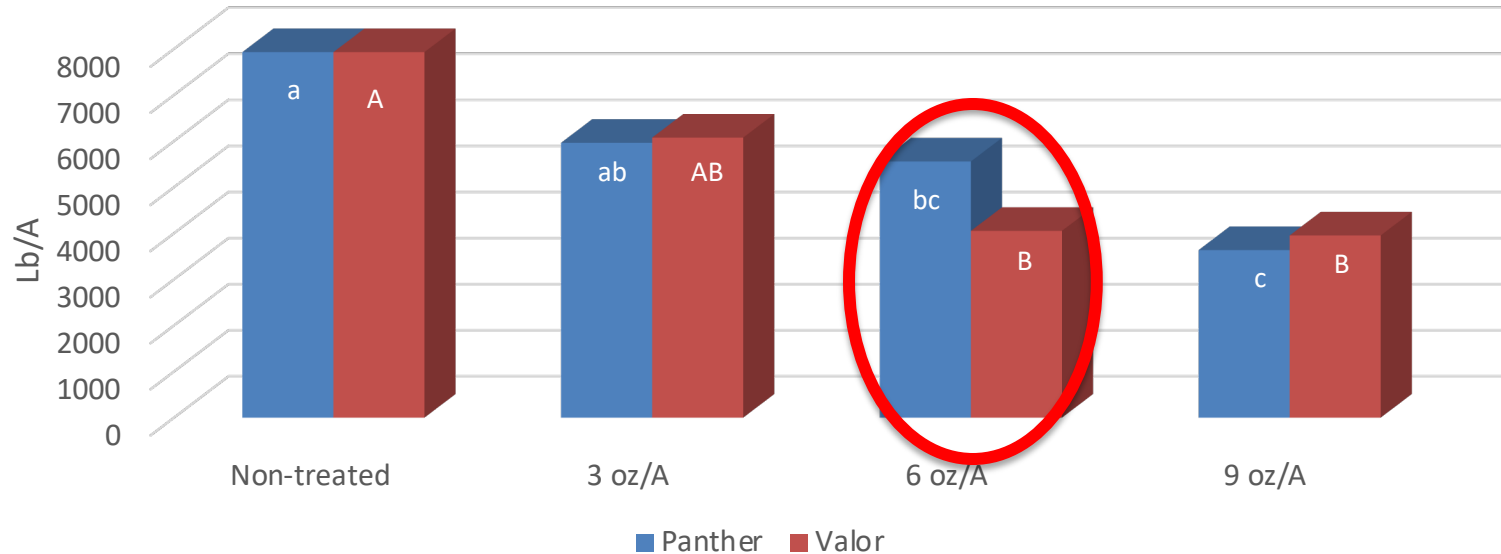


Effect of Irrigation on Marketable Sweetpotato Yield

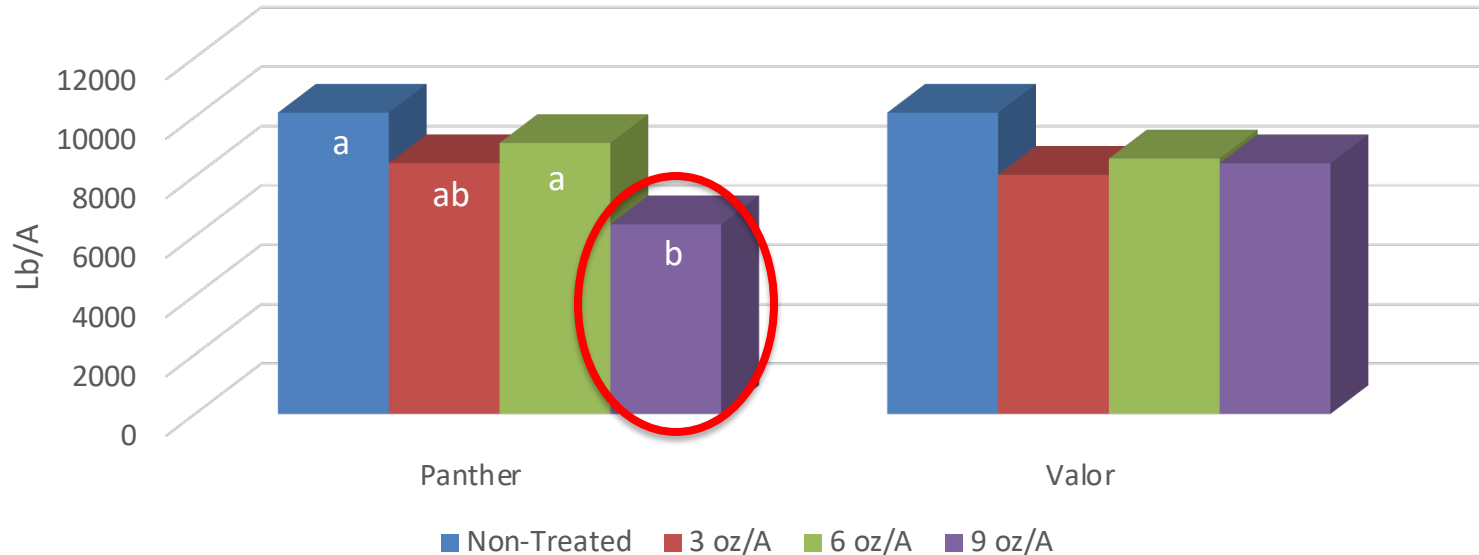


FORMULATION DIFFERENCES

Effect of Formulation and Rate on US No 1 Yield



Effect of Formulation and Rate on Marketable Yield



Summary

- ****1 location, 1 year****
 - Will be repeated
- Reduction in marketable yield was observed with Panther when not irrigated
- Registered rate of 3 oz/A did not reduce yield compared to the non-treated. However, at 2X rate, yield was reduced relative to the non-treated, specifically no 1 yield.

Questions/Comments?