

Glyphosate resistant Palmer amaranth

MS update



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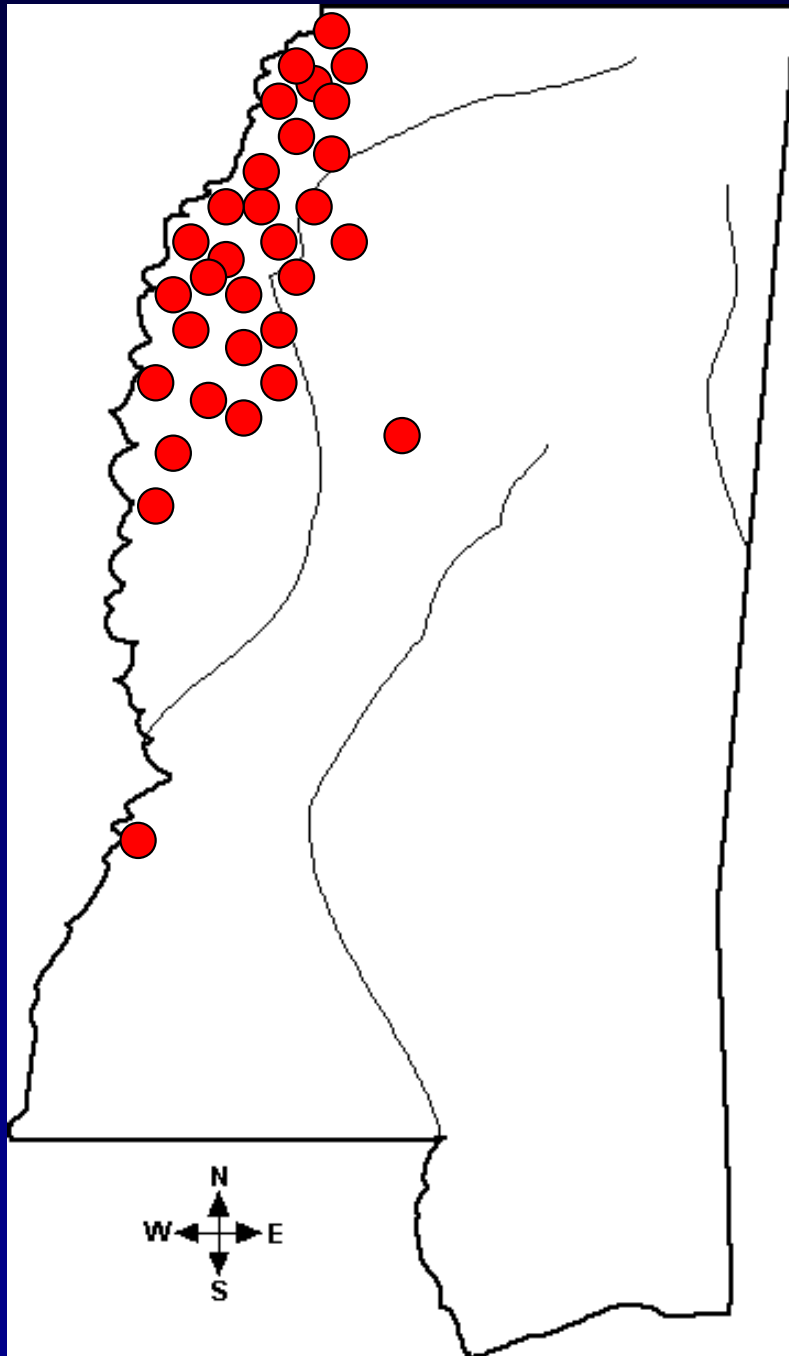
General observations

- Individual plants exhibit growth habits of Palmer and waterhemp species.
- Same “patchy” appearance as horseweed in 2001 and 2002.



General observations

- Not specific to cotton.
- More prevalent in north delta and closer to the levee.
- Several “worse” cases are inside the levee.

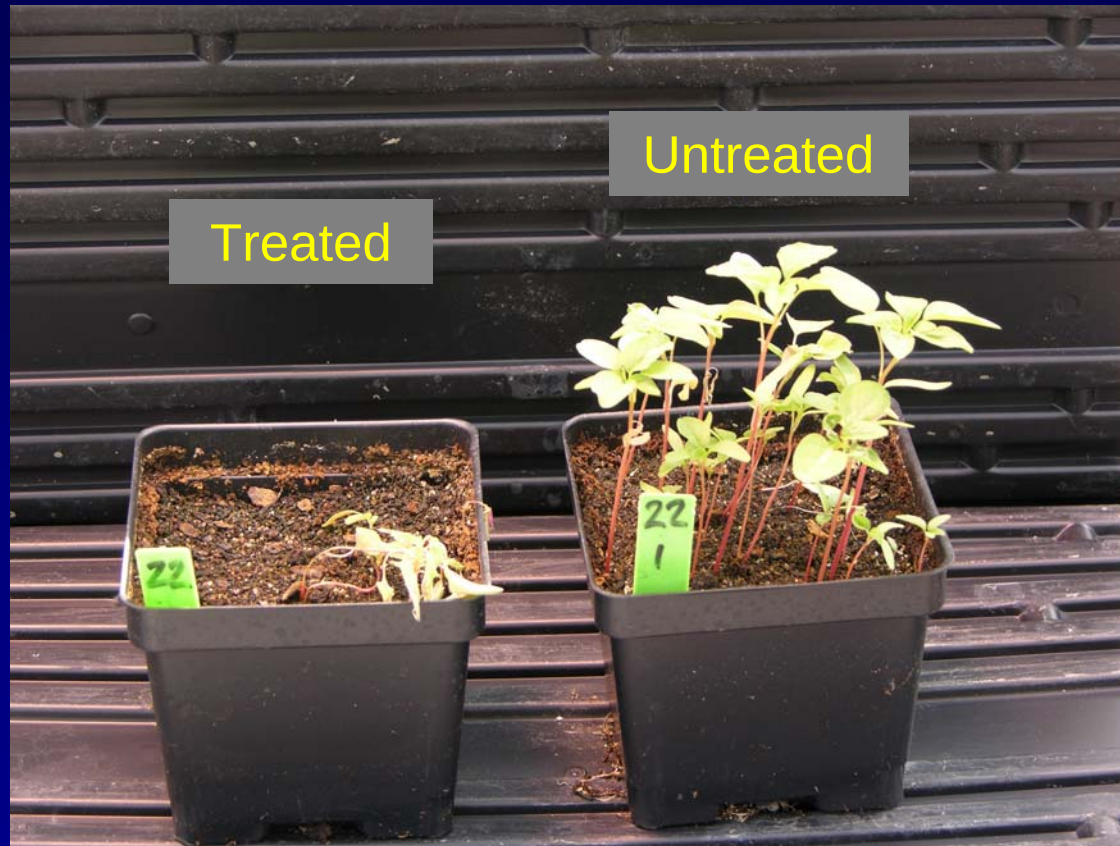


- Investigating over 30 populations for tolerance to glyphosate



Initial resistance screening

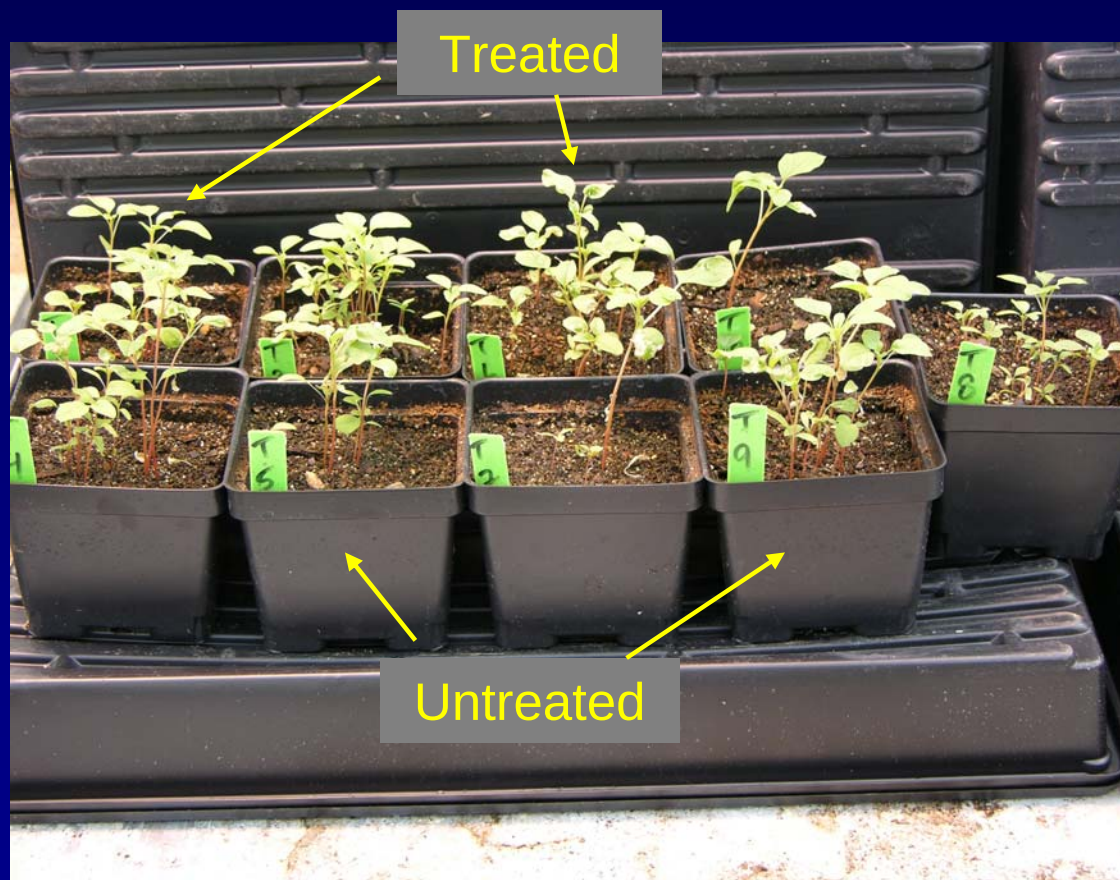
Treated with 0.5x rate of glyphosate



Treated with 0.5x rate of glyphosate



Treated with 0.5x rate of glyphosate



Post harvest weed management



Palmer amaranth

- Emerges later than other pigweeds.
- In-season residuals beginning with EPOST to MPOST may be more vital.
- Early soybean production system in MS contributes to seedbank.
- Grower mentality: not my problem until its my problem.

Palmer amaranth

- Why is MS just now having problems.
- Irrigation.
- MS uses more tillage.
- Concern for cross resistance.