

Replanting Forages after an indaziflam herbicide application

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Introduction

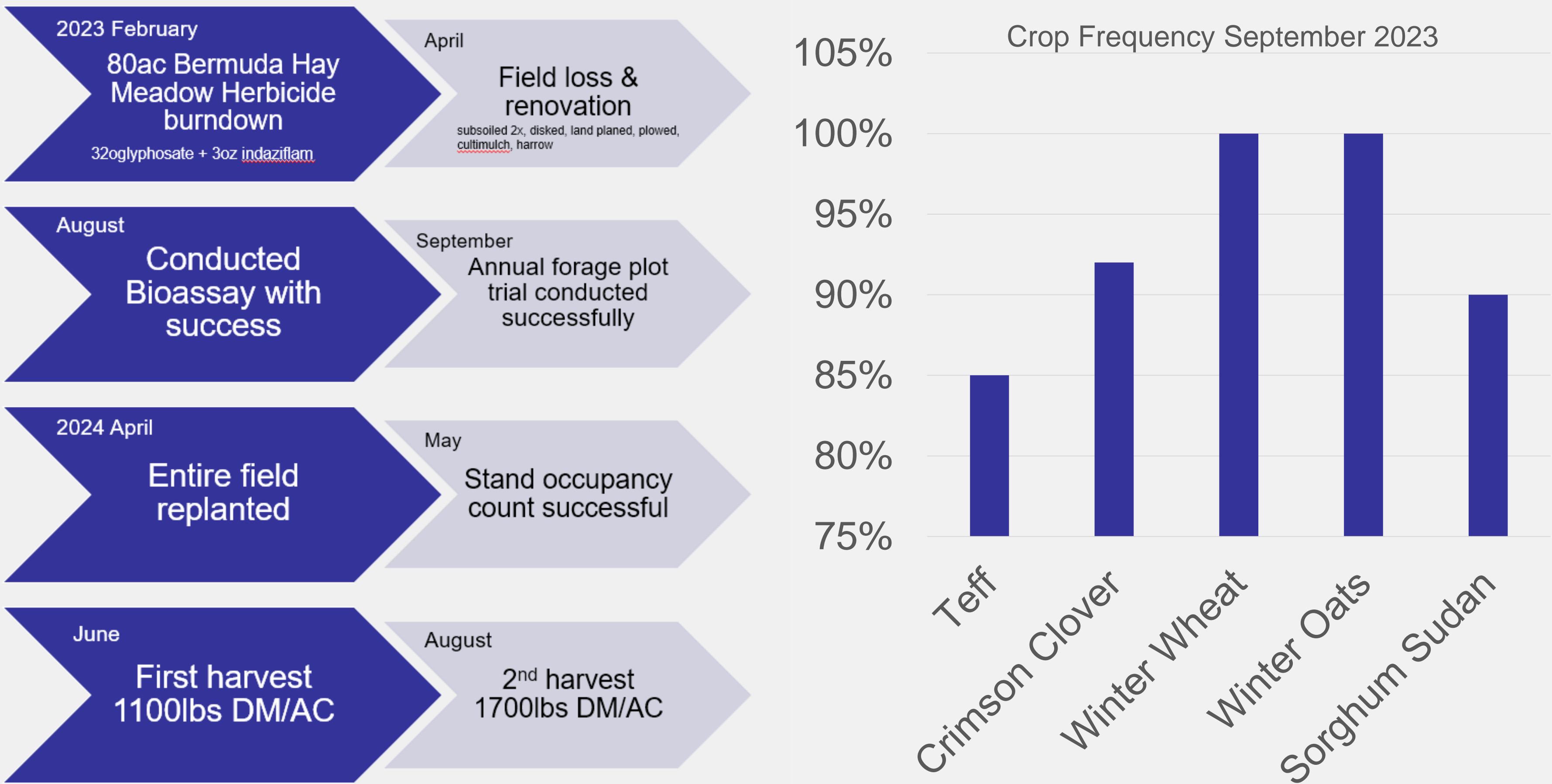
A Miller County producer had 80 acres of bermudagrass under irrigation used to produce high-end horse hay. A burndown herbicide of indaziflam tank mixed with 41% glyphosate was aerial applied in late February. Unfortunately, there was significant stand loss, due to winter kill.. This was likely due a combination of factors, including a late hay cutting along abnormally cold temperatures. The producer wanted to do a complete field renovation and replant as soon as possible. However, indaziflam has a 22-month plant back restrictions, on cereal crop, root crops, and soybeans. A soil bioassay was conducted along with test strips of varies forages to help determine replant options.

Objective

To evaluate germination and stability of forages planted after indaziflam application.



Methodology



Impact

- The producer only lost one growing season, instead of the suggested 22 months.
- In 2023, this producer lost a minimum of 320 tons of DM acre⁻¹ at an approximate cost of \$48,000.
- If plant back had restricted for 22 months as assumed, this producer would have lost a minimum of 640 tons of DM acre⁻¹ at an approximate cost of \$96,000.
- As a direct result of the trial the producer was more confident, he could re-establish bermudagrass in 2024.
- In 2024, 1.4 tons of DM acre⁻¹ of bermudagrass was harvested.
- Anticipated yield for 2025 is approximately 5 tons of DM acre⁻¹.

Summary

- Limited information is available on bermudagrass plant back following an application of indaziflam
- This demonstration gives us some indication of the possibility of forage plant back given certain circumstances and procedures.
- Annual forages were successfully established 7 months after an indaziflam application.
- Bermudagrass was successfully established 14 months after an indaziflam application.