

WEED MANAGEMENT IN CORN

Bill J. Williams

Northeast Research Station





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Burndown Weed Management


Glyphosate partners and alternatives

- Tank mixes required for primrose, swinecress, dock, and clover
- Glyphosate best in most situations, Liberty slightly better on swinecress and primrose
- Overall, Valor, 2,4-D and atrazine best tank mix options
- 2,4-D or Clarity best for dock and clover
- 4 oz Clarity plus 1 pt 2,4-D best for geranium
- Valor and atrazine reduced ryegrass control early

Takeup provided some help on geranium, dock and clover

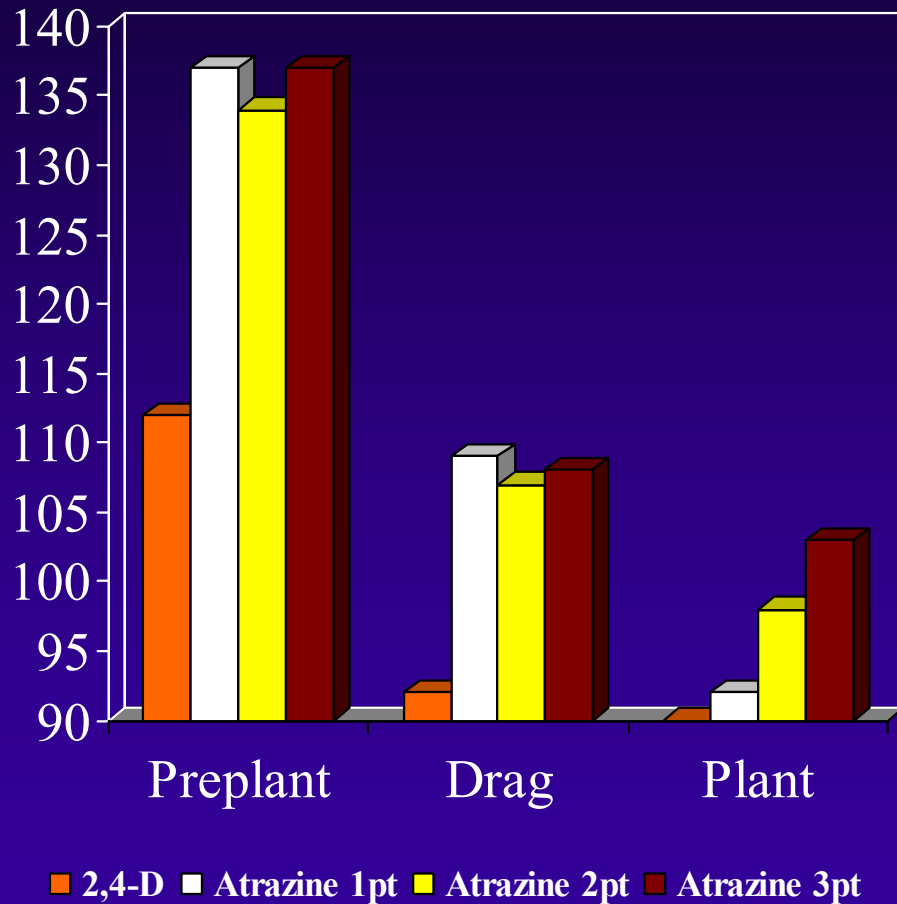
Valor

- 1-2 oz/A
- 30 days before planting
- Injury is likely following heavy rains



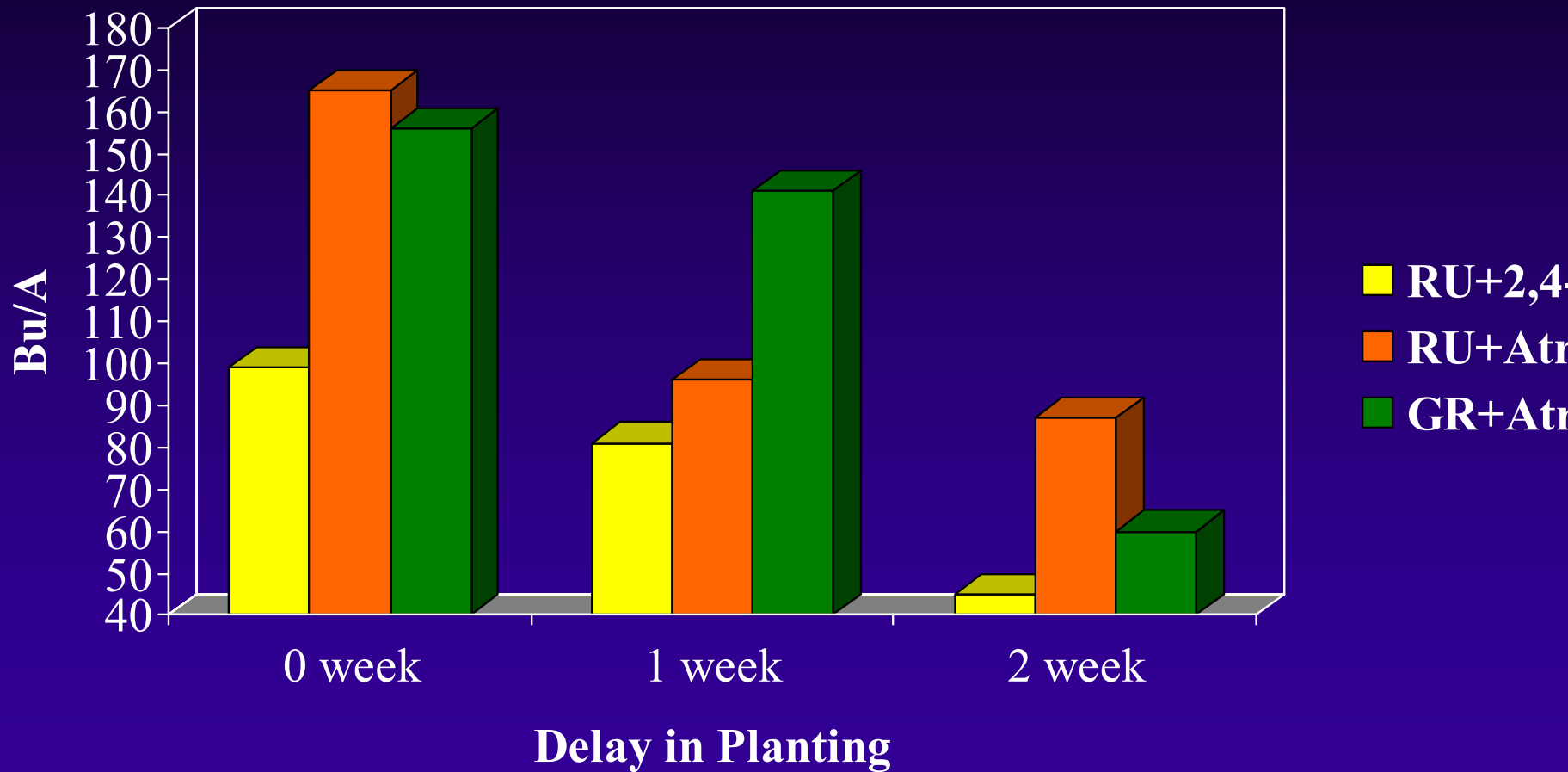
Do winter weeds need to be removed prior to planting?? YES!!

Corn Yield



- Preplant – best yields
- Dragging was better than nothing
- 2,4-D caused about 30% injury

Effect of Delaying Planting and Burndown Program on Corn Yield





Postemergence Winter Weed Control

Postemergence Winter Weed Control

Callisto plus atrazine

- Controlled dock, swinecress, primrose
- Weak on ryegrass, geranium and clover

Conventional programs

- Tank mixes with atrazine most effective
- 2,4-D and Clarity can injure corn
- Accent or beacon required for ryegrass

Roundup Ready corn

- Tank-mixes with 2 to 3 pt/A atrazine are very effective
- Still important to remove weeds

A photograph of a cornfield with young plants and some weeds. The text "In-Season Weed Management In Corn" is overlaid in the center.

In-Season Weed Management In Corn

Weed Control Issues

Atrazine use, we need to be careful

- PRE may be the easiest, but may not be the most effective
- POST very effective, but timing is critical

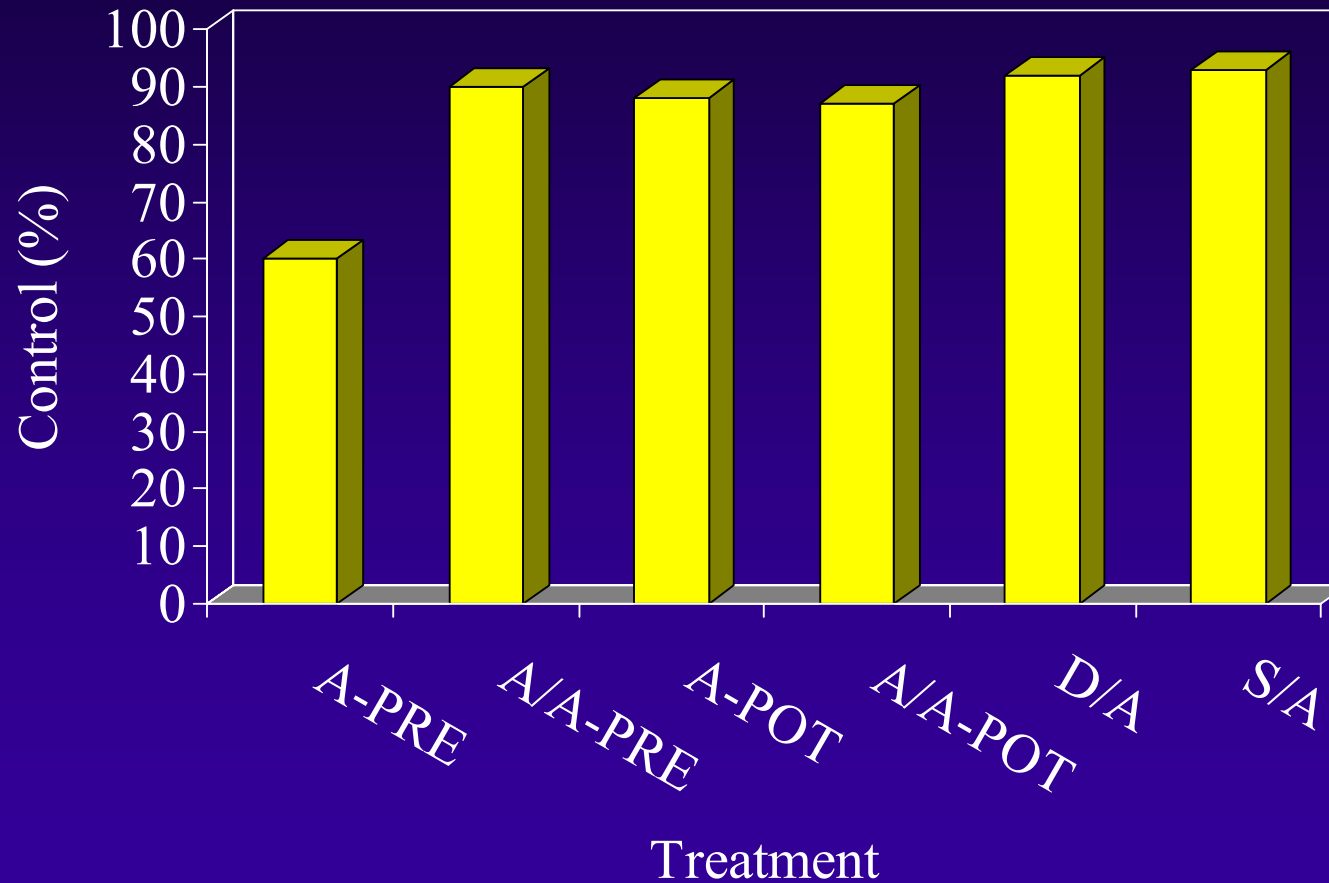
Annual grass problems are increasing

- Dual, Lasso, Frontier, Surpass/Harness, Prowl

Postemergence weed control

- Atrazine, Buctril, 2,4-D, Clarity, Permit, Python, Marksman, Hornet
- Accent, Beacon, Exceed, Basis Gold
- PDIR – Boa, Linex, Direx

Morningglory Control



Conventional Weed Control Issues

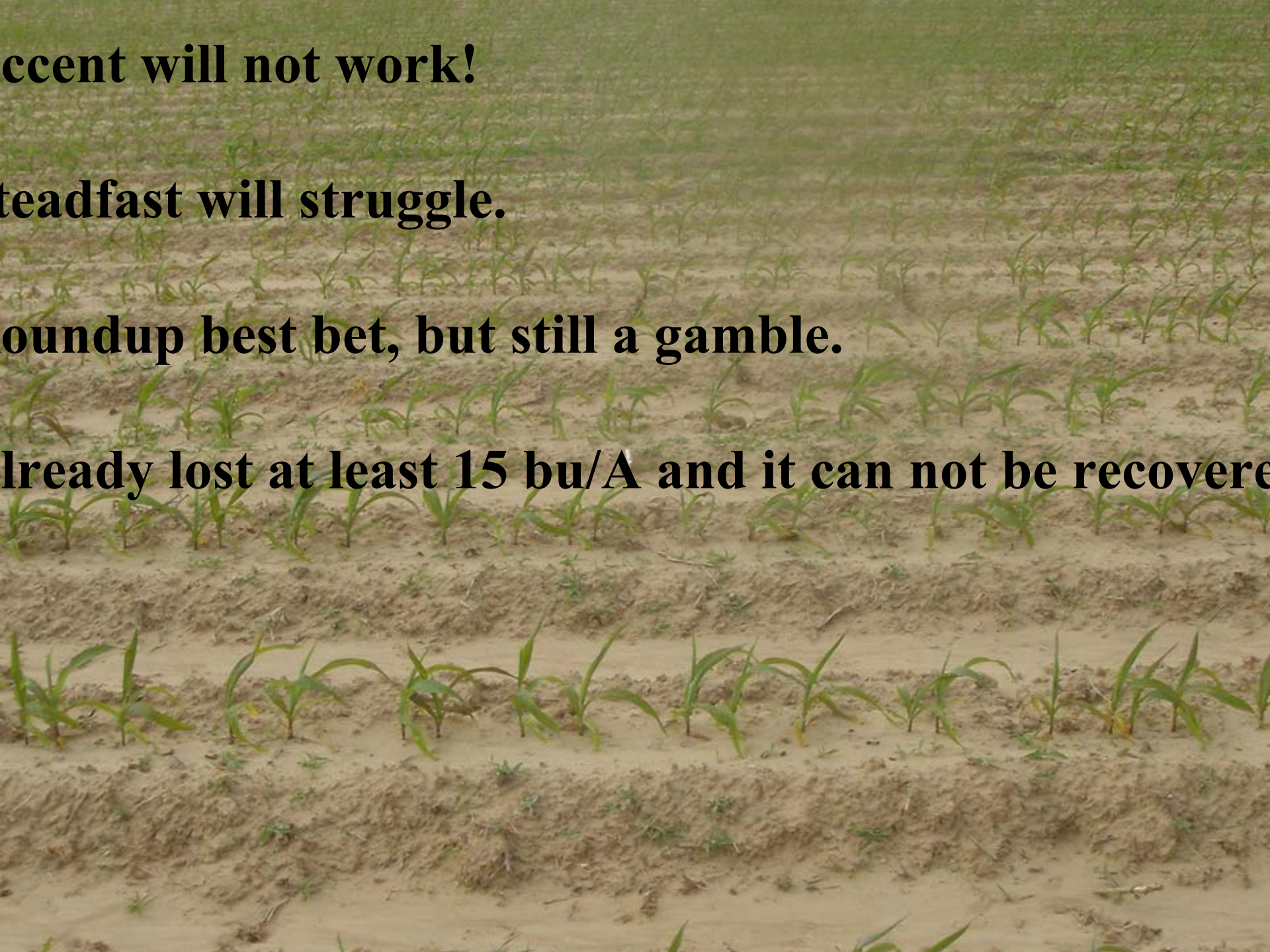
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Percent will not work!

steadfast will struggle.

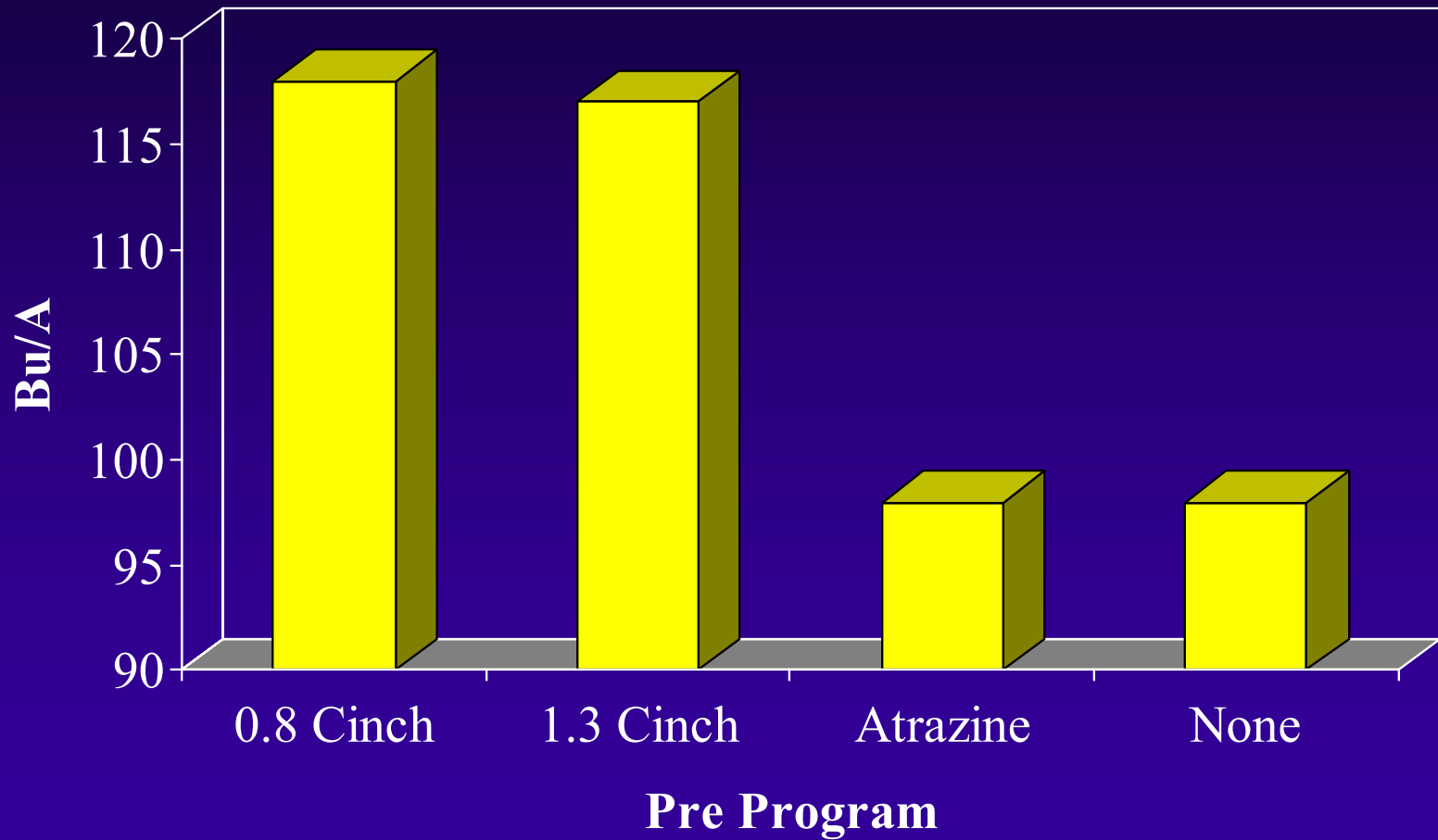
Roundup best bet, but still a gamble.

Already lost at least 15 bu/A and it can not be recovered



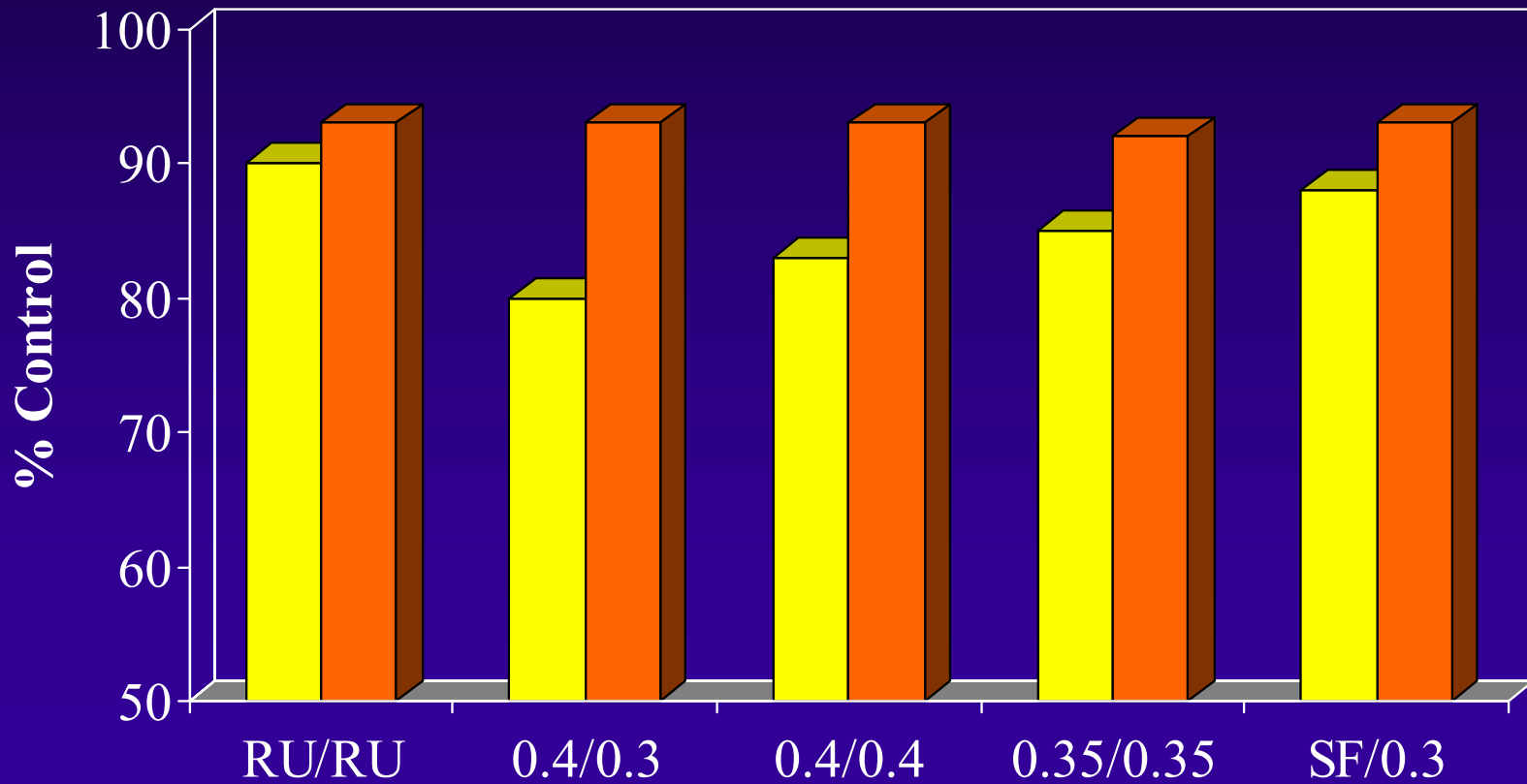
Effect of Early Season Weed Control on Yield

0.75 oz/A Steadfast



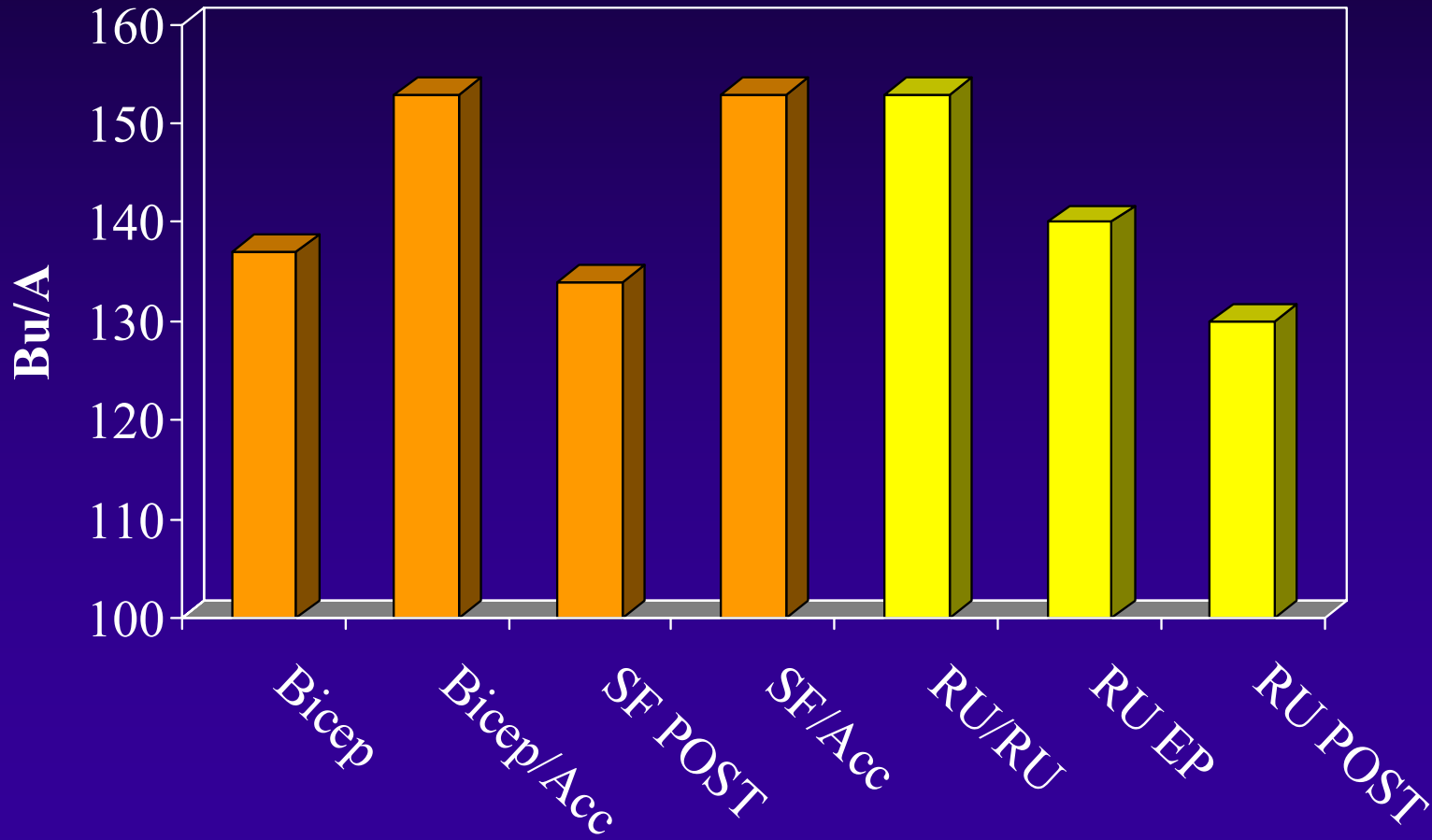
Roundup verses Accent

■ Signalgrass ■ Johnsongrass



Weed Management in Conventional and Roundup Ready Corn

Conventional = 31G68 & Roundup Ready = DKC 6971



Fall Programs



REDVINE SUMMARY

- Mid-September to Mid-October
 - Need healthy plants
 - Adequate regrowth
 - Adequate moisture
- 2 lbs ai/A for sequential applications
- 3 to 4 lbs ai/A for sequential applications

Bottom Line

- There are excellent tools for managing weeds in corn
 - Most producers are choosing the right herbicides
 - However, many producers apply their herbicides to late
- Weed control and yield similar for Roundup Ready and conventional corn
 - Comes down to economics, preference and drift management
- Maximize yields by removing weeds early
 - Use residuals early or plan on two applications
 - If your budget only allows one application make it early
- Perennial weeds can be controlled after harvest