Stewardship in weed management

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**Introduction**

- Stewardship of crop traits and herbicides is critical to economic and ecological success
  - Management, timeliness, diversity of tactics
  - REPEAT – herbicides protect crop yields, not kill weeds!
- Stewardship takes many forms and has many implications
  - Economic implications obviously reflect yield
  - Environmental implications are varied – i.e. N use efficiency, off target movement of herbicides
  - Ecological implications – weed shifts
Do you feel fields are becoming more weedy?

- Yes: 26% (40%)
- No: 74% (57%)
Do you feel more glyphosate (rate and/or application frequency) is needed to achieve acceptable weed control?

- Yes: 54% (39%)
- No: 46% (57%)

**IOWA STATE UNIVERSITY**
University Extension
Global glyphosate resistant weeds


# Weeds: 0 2 4 6 8 10 12 14 16

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Important Iowa weeds that have evolved glyphosate resistant populations

- Giant ragweed
- Horseweed
- Common waterhemp
- Common lambsquarters
Questions?