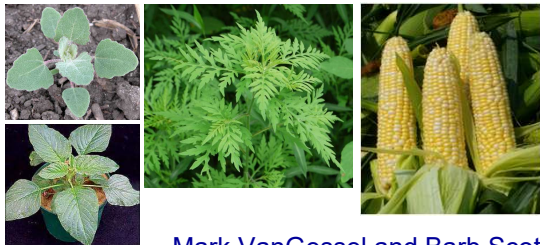


Update on Weed Management Herbicide Timing for Beans



Mark VanGessel and Barb Scott
Extension Weed Science
Georgetown, DE



Topics

- 24c registrations
- Newer labels
- Field trials
- Spraying early in beans



24c Labels

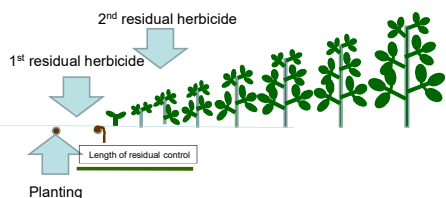
- Special Local Needs
- Granted by individual states
- Some have expiration dates others do not
- Be sure the specific label is valid for use and state
- Granted only for specific products
 - If labeled for Brand X, other formulations of the active ingredient are NOT allowed unless they have received their own registration

Dual Magnum in Lima Bean

- 24c registration for DE; pending in MD
- Allows for POST applications
 - total amount can't exceed 2 pt/A per season
 - apply after 1st trifoliate
 - 50 d PHI; do not feed plant materials to animals
- **WON'T CONTROL EMERGED WEEDS!**



Overlapping Residual Herbicides



Command in Lima Beans

- 24c Label
- DE, MD, VA
- Up to 6 fl oz applied PRE
 - Provide suppression to improve cultivation
- Lima bean can be planted at least 60 days after Command application (up to 12 fl oz)
 - Use Command in peas and rotate to lima beans



Field Trials

- IR-4 projects looking at row middles of cucurbits grown with plastic mulch
 - New use of existing herbicides
- Herbicide options for reduced or no-till vegetables
- Processing tomato and sulfentrazone

Risk of Spraying Early



Treatments

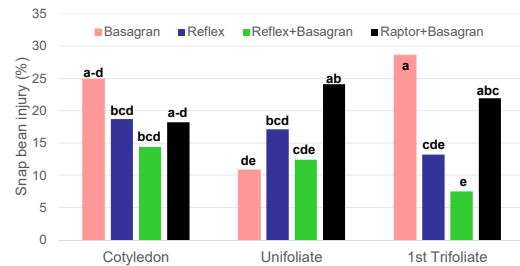
Herbicides

- Basagran 1.5 pt + NIS
- Reflex 0.75 pt + NIS
- Reflex 0.75 pt
 - + Basagran 1.5 pt
 - + NIS
- Raptor 4 fl oz
 - + Basagran 1.5 pt
 - + NIS

Timing

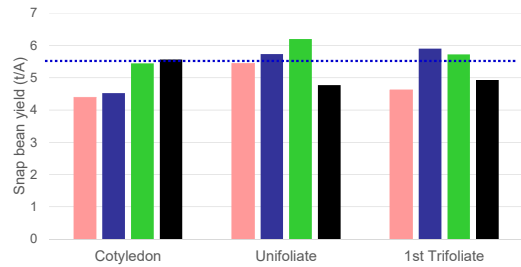
- Cotyledon
- Unifoliolate
- 1st Trifoliolate

Snap Bean Injury



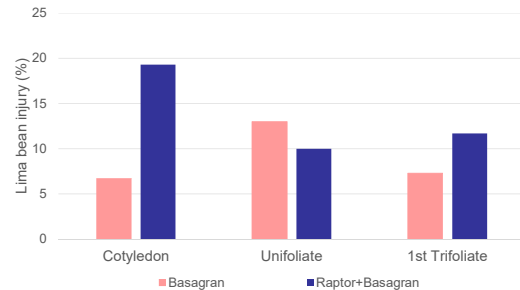
Bean3-21
Sign. Level = 0.1
Ratings 4 WAP

Snap Bean Yield



Bean3-21
Sign. Level = 0.1
Main effect of herbicide signif

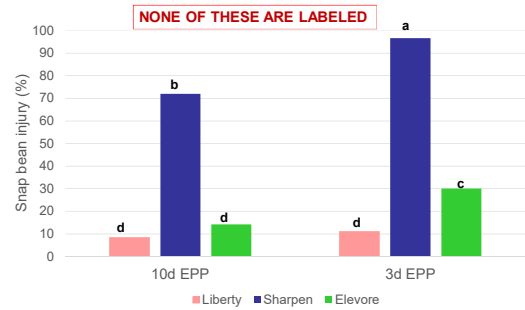
Lima Bean Injury



Burndown Options for Beans

- Interest in no-till vegetables
- Burndown programs need to consider glyphosate-resistant weeds
- Compare potential glyphosate tank-mix partners
- **NONE OF THESE ARE LABELED**

Snap Bean Injury



Soy2-21
Ratings 4WAP

2020/2021 Mid-Atlantic Commercial Vegetable Production Recommendations

Delaware
University of Delaware Cooperative Extension (EB137)

Maryland
University of Maryland Extension (EB-236)

New Jersey
Rutgers Cooperative Extension (E001)

Pennsylvania
Penn State Extension (AGRS-028)

Virginia
Virginia Cooperative Extension (456-420)

West Virginia
West Virginia University Extension Service

- Updated fall of 2021
- Currently at printers
- Updated every two years
- Excellent resource
- **BUT STILL NEED TO READ CURRENT LABELS**

Thank you to:



Specialty Crop Block Grant Program

Questions ??

