



Northeastern IPM Center Partnership Grant Impacts

Northeastern IPM Center



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Managing Herbicide Resistant Weeds (2018)

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THE NEED



Herbicide application on soybeans. Photo: Mid-Atlantic Field Crop Management Guide (2019).



Herbicide-resistant weeds survive herbicide application in soybeans. Photo: Mid-Atlantic Field Crop Management Guide (2019).

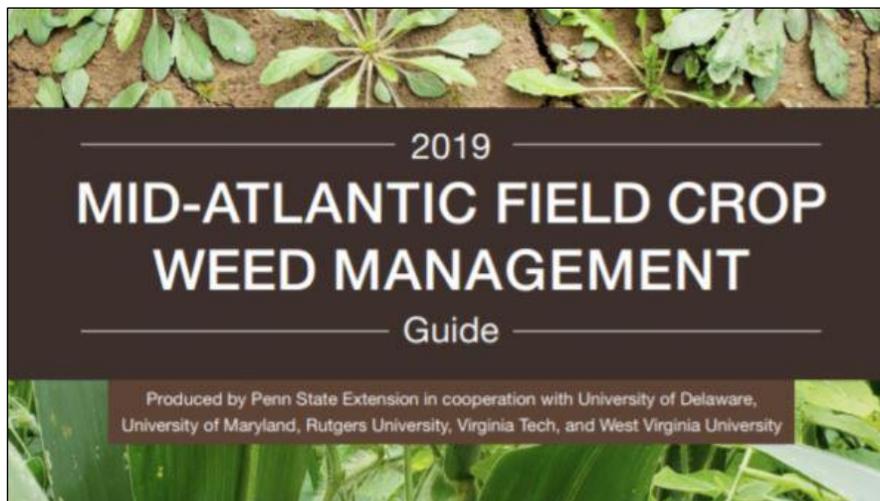
- There are many reasons for implementing Integrated Weed Management:
- **some weeds have poor or no herbicide options due to herbicide resistance,**
- it is important to reduce the risk of creating more herbicide-resistant weeds caused by excessive application of herbicides
- some farmers do not want to use herbicides,
- some crops have limited herbicide options.



Examples of annual weed growth stages. Photos: Virginia Tech, Weed Science; Mid-Atlantic Field Crop Management Guide (2019).

IMPACTS

- The focus of this grant was to write a publication on integrated weed management.
- The content of this manual was used in a series of workshops on herbicide-resistance held during the winter of 2018 in Maryland and Delaware.
- YouTube videos were developed to discuss how growers can integrated non-chemical tactics into their production practices that will reduce the risk of selecting for herbicide-resistant weeds. These are available at: <https://youtu.be/wH5AyULjKL>
- The guide is available at the University of Delaware Weed Science website and will be linked to other weed science sites with collaborating institutions.
- Impacts from this project will be the farmer's decision to alter production practices specifically for weed control. Like IPM, IWM is a continuum and as farmers become more aware of the relationships between production practices and weed management, they will implement more of these strategies.



Cover crops used to suppress weeds instead of herbicide applications. Photo: Mid-Atlantic Field Crop Management Guide (2019).



Burning weeds instead of herbicide applications. Photo: Mid-Atlantic Field Crop Management Guide (2019).

WEBSITES

<http://extension.udel.edu/ag/weed-science/weed-management-guides/>
<https://www.youtube.com/watch?v=wH5AyULjKL0&feature=youtu.be>
https://www.youtube.com/watch?time_continue=8&v=3mrrWXLl03k
https://www.youtube.com/watch?v=qKUfok5W_dQ

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