

Soil-Biodegradable Mulches: *Workshop*

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Presenter Notes

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Synopsis:

Presence of visible mulch fragments is a measure of the initial stages of mulch degradation, but is not a direct measure of the rate or extent of biodegradation.

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Soil Sampling for Visible Plastic Fragments Post Tillage

This workshop series provides slide presentations on soil-biodegradable mulches (BDMs). These notes provide additional information for presenters. Numbers in the text correspond to the slides in each presentation. Information in this document was summarized from publications listed in the Reference section.

1. This presentation provides information on methods and procedures for soil sampling for plastic fragments post-tillage.
2. Soil sampling is used to measure visible mulch fragments and is a measure of initial stages of mulch degradation. It is not a direct measure of the rate or extent of biodegradation. If PE mulch is in the soil, it is necessary to estimate its



Resources

These information resources provide background information and additional information to help you have a more thorough understanding of this topic. We encourage presenters to view each one so as to be better prepared for your presentation.

Ghimire, S., M. Flury, E. Scheenstra, and C. Miles. 2019. Sampling and degradation of biodegradable plastic and paper mulches in field after tillage incorporation. *Science of the Total Environment*.

<https://doi.org/10.1016/j.scitotenv.2019.135577>

Soil sampling method to assess the amount of plastic fragments in the field

<https://s3.wp.wsu.edu/uploads/sites/2181/2020/07/Soil-sampling-factsheet.pdf>

Video – Soil Sample Methods

<https://www.youtube.com/watch?v=o2TzGlZ6SCs&feature=youtu.be>

