East Lansing Day 1 – November 11, 2024

8 MDARD credits in Core (Priv. & Comm.), 2, 3A, 3B, 5, 6, 7A and 7F **No 7A or 7D credits on this day**

7:45 – 8:00am	Registration
8:00 – 9:00am	 Herbicide Injury and What It Means – Dr. Emma Beaver Relevance: Private and Commercial Core, 2, 3A, 3B, 6 Description: Herbicide injury is considered to be any adverse effect on a plant from exposure to a pesticide. It can occur for many reasons, such as drift or improper calibration. Participants will learn how to distinguish herbicide damage from disease or abiotic factors.
9:00-– 10:00am	 Time for Alternatives to Glyphosate – Dr. Hannah Mathers Relevance: Private and Commercial Core, 2, 3A, 3B, 5, 6 Description: To be discussed are the different kinds of glyphosate products, both terrestrial and aquatic, commonly used in the Green Industry. Dr. Mathers will then suggest effective substitutes for each of these products.
10:00 – 10:15am	Break
10:15 – 11:15am	 MDARD Updates and Regulations Relevance: Private and Commercial Core Update from the MI Dept. of Agriculture on regulations relevant to the Green Industry.
11:15am – 12:15pm	 Keys to Improve Your Herbicide Program – Dr. Debalina Saha Relevance: 3B Description: This presentation will focus on important herbicides that are commonly used in nurseries and landscapes and uses of adjuvant and surfactants to improve herbicide efficacies. In addition to that the presenter will also discuss why and how herbicide resistance can develop, and how to manage or avoid herbicide resistance development. Overall, the audience can learn and understand the key points on how to improve the herbicide program and manage herbicide resistance development in nursery and landscape settings.

12:45 – 1:45pm	What is Involved with Starting a Perimeter Pest Control Service? – Dana Davis
	Relevance: 7A
	 Description: Participants will learn about pesticide
	licensing requirements, necessary equipment and
	materials, cultural practices, and customer expectations.
1:45 – 2:45pm	Aquatic Equipment and Calibration – Dana Davis Relevance: 5
	 Description: Participants will learn about available equipment for aquatic applications. They will be taught
	calibration methods as well as PPE and safety.
2:45 – 3:00pm	Break
3:00 – 4:00pm	Mosquito Biology and Behavior – Maria Sorrentino
	Relevance: 7F
	 Description: An interactive presentation on the biology of
	mosquitos in Michigan and the most effective treatment methods.
4:00 – 5:00pm	Ficaria verna – A Newly added Invasive Species in Michigan – Rachel Cuschieri-Murray
	Relevance: 3A
	 Description: <i>Ficaria verna</i> (Lesser celandine) is a perennial ground-covering plant native to northern Europe, newly found to be invasive in the Great Lakes region. <i>F.</i>
	<i>verna</i> forms a dense mat in the early spring, outcompeting native ephemeral species, many of which are already
	threatened. It can be identified by its small (1-4 cm), lobed
	leaves growing in clusters with 7-12 petaled, glossy, yellow
	inflorescences (2-5 cm). After blooming, <i>F. verna</i> forms
	clusters of small bulblets and tubers which spread and
	easily propagate if disturbed. These two distribution
	methods make it an ideal species to spread along moving
	water (rivers, creeks) that pass through urban areas. There's been a noticeable increase in finding <i>Ficaria verna</i>
	in residential lawns, and the question has been asked
	"how it got there, and what the best management
	practices for control?". This session will discuss methods of
	practices for control?". This session will discuss methods of control and how we can prevent it from spreading even