

Agenda

Diagnosing Herbicide Symptoms 2017

July 11-12, 2017 ▪ UC Davis

Day 1 ▪ Tuesday, July 11, 2017

1:00-1:30 PM	<i>Check-in</i>	
1:30-2:00	Introduction and goals of the course how herbicide injury situation can arise ▪ what types of information can help diagnose herbicide problems during field investigations	Brad Hanson, UC Davis
2:00-3:15	Herbicide mode of action and symptomology symptoms of different herbicide mode of actions ▪ special attention on how symptoms develop and the progression of symptoms ▪ recovery from herbicide injury ▪ relationship between symptomology and economical damage	Kassim Al-Khatib, UC Davis
3:15-3:30	<i>Break</i>	
3:30-4:30	Using symptomology tools to investigate herbicide damage how field investigators use symptomology to determine the source of herbicide damage ▪ what tools there are to help investigators	Kassim Al-Khatib
4:30-4:40	<i>Closing remarks for Day 1</i>	Brad Hanson
4:40-6:00 PM	Stay and talk to the experts (<i>light snacks provided</i>)	

Day 2 ▪ Wednesday, July 12, 2017

8:00-8:15 AM	<i>Meet in the field for morning coffee</i>	
8:15-10:40	Herbicide symptoms and injuries field visits Site #1 <ul style="list-style-type: none"> ▪ BLOCK 1: symptoms from herbicides that affect photosystem I, photosystem II, or that act by disrupting cell membranes (<i>Roncoroni</i>) ▪ BLOCK 2: symptoms from several classes of amino acid synthesis inhibiting herbicides on a range of annual crop species (<i>Hanson</i>) ▪ BLOCK 3: symptoms from herbicides that mimic plant hormones and the synthesis of fatty acids on a range of annual crop species (<i>Al-Khatib</i>) ▪ BLOCK 4: symptoms from several herbicide modes of action on tree nuts (<i>Hanson</i>) 	<ul style="list-style-type: none"> • Brad Hanson • Kassim Al-Khatib • John Roncoroni, UCCE Napa County
10:40-10:55	<i>Drive to Site #2</i>	
10:55-11:30	▪ Site 2: symptoms from several herbicide modes of action on tree nuts	Brad Hanson
11:30-12:00	<i>Drive to BOWLEY CENTER</i>	
12:00-12:45	<i>Lunch</i>	
12:45-1:30	Field investigations —steps an investigator should take during a field investigation including: documenting and describing symptoms ▪ looking for patterns in the field or within plants ▪ questions to ask the growers and applicators ▪ review the field and environmental factors that can influence the likelihood and severity of herbicide injury on crops	Brad Hanson
1:30-2:00	What happens during a field investigation —when the Farm Advisor or Agricultural Commissioner is called ▪ what steps a Farm Advisor takes ▪ what steps the County Agricultural Commissioner takes ▪ details on sampling and the chain of custody	<ul style="list-style-type: none"> • Jenni King, Yolo County Dept. of Agriculture • John Roncoroni
2:00-2:30	Crop injury lawsuits 101: what happens in an herbicide injury legal case? what happens during a lawsuit related to a herbicide injury complaint ▪ a description of the legal process in general ▪ what different kinds of proceedings entail ▪ how physical evidence and observations made by field investigators may be used during the legal process	James Nolan (Attorney at Law), Gardner, Janes, Nakken, Hugo & Nolan
2:30-2:45	<i>Break</i>	
2:45-3:30	Biotic and abiotic symptoms develop skills to differentiate herbicide symptoms from abiotic and biotic stresses	Kassim Al-Khatib
3:30-4:15	Case studies —group participation in diagnosing several “real-world” examples of diagnosing herbicide symptoms	Brad Hanson
4:15-4:25	<i>Closing remarks and evaluation</i>	