



University of  
Massachusetts  
Amherst

## 2013 Pesticide Safety - Herbicide Update

Item Type	article;article
Authors	Sandler, Hilary A.
Download date	2024-07-14 23:14:26
Link to Item	<a href="https://hdl.handle.net/20.500.14394/8785">https://hdl.handle.net/20.500.14394/8785</a>

# **Herbicide Update 2013**

Hilary Sandler  
UMass Cranberry Station

# QuinStar

- Full label now available for 4L only.
- Cannot use the DF.
- Supplemental labels are available to cover existing supplies if needed.
- Max application: **8.4 oz; 16.8 oz/A** per season – cannot use 12 oz rate.
- **2 pt/A Crop Oil**
  - can only use NIS if tank mix partner
  - PROHIBITS COC.**

# QuinStar

- Works as a systemic with uptake by both leaves and roots.
- May not see effects for 3-6 months esp w/ perennials; 2-3 wks vs. annuals.
- For Dodder, Grasses and Broadleaves
  - Especially Yellow Loosestrife

# QuinStar

- Weeds controlled:
  - Barnyard grass
  - Crab grass
  - Foxtails
  - Ragweeds
  - Thistles
  - Clovers
  - Bedstraw
  - Flax

# QuinStar

- Ground equipment: 10-30 GPA
- Very important to get good coverage!!
- Chemigation is legal!
  - Control will only be as good as your coverage!
- Mixing: Add water first (3/4 full); agitate. Add herbicide, then adjuvant, then remaining water.

# QuinStar

- Restrictions:
  - OS growers: Hardship cases only
  - Other handlers??
  - No aerial applications!
  - Do not apply to irrigation ditches.
- 12 hr REI; PHI 60 days
- Must wait 30 days btw applications.

# Water and Herbicides

- **How much water is too much??**
  - Usually 0.5 in of rain / irrigation is good to incorporate the chemical into the zone where germination occurs.
- **Does the herbicide leach readily?**
  - Amount of herbicide in soil solution depends on Soil Adsorption and Solubility.
  - Leaching higher if adsorption is low; in sandy soils.



# Pesticide Movement

<b>Herbicide</b>	<b>Volatility</b>	<b>Solubility (ppm)</b>	<b>Soil Mobility</b>
<b>Devrinol</b>	Low	73	moderate
<b>Casoron</b>	high	25	low
<b>Evital</b>	high	28	high

# Pesticide Movement

<b>Herbicide</b>	<b>Volatility</b>	<b>Solubility (ppm)</b>	<b>Soil Mobility</b>
<b>Callisto</b>	Low	2,200	low
<b>QuinStar</b>	Low	62	high in sandy soils w low OM

# So....

- These are only guidelines. Tests were done on soils that are quite UNLIKE cranberry soils.
- **Devrinol**: moves about 1 inch for every inch of rainfall / water in loamy sand.
- **Casoron** has a bit more stickiness.
- **Evital** will leach quite readily.

# **Reduced Risk Survey**

# Reduced Risk Chemicals

- EPA definition:

Products determined to reduce the risks to human health, non-target organisms, and the environment when compared to riskier compounds

(neurotoxins, carcinogens, and groundwater contaminants)

# 12 Survey Questions

- Even if you are NOT the decision-maker, please fill out the survey.
- Q2, 3, and 5. Please CIRCLE a response for EACH compound, even if you don't use it !! Or don't know enough about it. This is impt for us to know!!
- Tell us what you think about the cost of RR compounds (Q4).

# 12 Survey Questions

- Q6-8: Late Water
  - How often you use it; what do you use for?; why DON'T you use it?
  - Please fill in WHAT you are targeting in the blanks for Q7.
- Q9-12: Flame cultivation
  - Q9 and Q11: Experience with it?
  - Q10: Target weeds?
  - Q12: Obstacles to using FC?

Questions ??