Spring 5-20-2020

2020 Bogside May 20: Weeds and Herbicides

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Weeds and herbicides

UMass Cranberry Station Virtual Bogside
May 20, 2020
Katie Ghantous and Hilary Sandler
- 24c (Special Local Needs Label) new for 2020
  - First field use in cranberry
  - For control of moss and other susceptible weeds
How is Zeus performing in the field?

- 2020 is the first season for use in cranberry

- A LOT of water, could potentially impact efficacy
  - Many frost nights
  - Above average rainfall
Keep in mind Zeus is slow-acting!

Don’t lose hope for moss control

Moss Damage Rating by Evaluation Date

- Untreated
- Zeus 12 oz - SD
- Zeus 12 oz - CH

Damage rating:
- 0 = green/healthy
- 1 = some browning
- 2 = browning, but tips are green
- 3 = mostly brown, but some green
- 4 = moss completely brown
- 5 = dead/black

Treated 4/17/18  Treated 5/7/18

16-May-18  25-Jun-18  9-Sep-18
Haircap moss on State Bog 1 Month after Zeus (treated 4/15/20)
Sphagnum moss seems to be impacted more quickly than haircap moss.
Herbicides to be thinking about

- Grass herbicides (application for early season grasses)
  - Clethodim products (Intenisty One, Select Max, and many other products with this a.i.)
  - Sethoydim (Poast)

- Dodder herbicides
  - Kerb, Quinstar, maybe too late for Casoron

- Mesotrione (Callisto, Explorer, and many others with this a.i.)
Mesotrione can enter plants by both foliage and roots
   ➤ Best mode of absorption may vary by weed species

Chemigation
   ➤ 8oz/acre delivered in 400+ gallons of water (use short injection times)
   ➤ Dilute, available to plant roots as well as foliage
   ➤ Some studies show best for weed control (i.e. nutsedge)

Spot treating with concentrated rates (Callisto ONLY, 24c)
   ➤ Better foliar absorption
   ➤ Can work on tough weeds like PI that don’t get any control by chemigation
DO NOT EXCEED 8 oz per acre per application (Callisto)

- regardless of how you apply (spot or chem)
- e.g. if you use 1 oz/gallon for spot treatment, you can only use 8 gallons of solution per acre

DO NOT EXCEED 2 applications per year

- Spot + Spot
- Chem + Spot
- Spot + Chem
- Chem + Chem
Zeus: 12 oz/A (875 ml/ha) on April 16, 2020
Frost nights: 8 hr that night + 6 hr the next, then rain

MA Grower Application 2020
Banks of Bog:
Moss black with grasses
Zeus: 12 oz/A (875 ml/ha) on April 16, 2020

Good effect on vined area

Grower felt worked better on sphagnum vs haircap
Howes in MA

Some blackening, but tips still green