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Cranberry Chart Book - Management Guide

Cranberry Station Outreach and Public Service Activities

2024

Measures and Conversion 108-109

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Ghantous, Katherine, "Measures and Conversion 108-109" (2024). Cranberry Chart Book - Management Guide. 281.

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<u>HERBICIDES</u> - In general, adjuvants are not needed for PREemergence (soil-active) herbicide applications, and adjuvants are recommended or required for use with POSTemergence herbicide applications.

COC = crop oil concentrate, NIS = Nonionic surfactant

Callisto (mesotrione):

- Chemigation postemergence = 1 4 pt/A NIS or COC
- Spot-treatments postemergence:
 - \circ NIS (0.25% finished spray volume) = 2 tsp or 0.3 oz/gal
 - o COC (1% finished spray volume) = 2.5 Tbsp or 1.3 oz/gal

QuinStar (quinclorac): Chemigating postemergence

• 2 pt/A COC

Poast (*sethoxydim*): postemergence (grass herbicides don't have and preemergence activity) It is **highly recommended** to use an adjuvant with grass herbicides.

- Boom or aerial applications 2 pt/A COC
- Spot-treatment COC (1% finished spray volume) = 1.3 oz or 2.5 TBsp / gal
- * * Intensity One (clethodim) is the ONLY grass herbicide that has 24C for chemigation!

 It is highly recommended to use an adjuvant. If not included, you will have poor efficacy!

Chemigation postemergence = 1 - 4 pt/A NIS

Select Max, Intensity, and others (clethodim) NOT for chemigation

It is **highly recommended** to use an adjuvant with grass herbicides!

- SelectMax and Intensity One
 - o Spot-treatment/Boom/Mist blower/Aerial, etc. postemergence = NIS at 0.25% v:v
- Intensity
 - Spot-treatment/Boom/Mist blower/Aerial, etc. postemergence = COC at 1% v:v

MEASURES AND CONVERSIONS CHART

Prepared by Hilary A. Sandler

Liquid Measures

 $\overline{1 \text{ oz}} = 2 \text{ tablespoons} = 6 \text{ teaspoons} = 29.6 \text{ ml}$

1 cup = 8 oz

1 pint = 2 cups = 16 oz

1 quart = 2 pints = 4 cups = 32 oz

1 gallon = 4 quarts = 8 pints = 16 cups = 128 oz

1 cup = 237 ml

1 pint = 473 ml = 0.473 liters

1 quart = 946 ml = 0.946 liters

1 gallon = 3.78 liters = 3,785 ml

1 acre-foot water = 326,000 gallons

0.1 inch water per acre = 2717 gallons

1 fl. oz/gal = 7.81 ml/liter

Mass Conversions

1 oz = 28.4 grams

1 lb = 454 g = 0.454 kg

1 kg = 2.2 lb = 35.2 oz

1 oz/gal = 7.49 g/liter

Temperature Conversions

 $^{\circ}$ F = $(9/5 ^{\circ}$ C) + 32 (guesstimate: double $^{\circ}$ C, add 30) $^{\circ}$ C = 5/9 ($^{\circ}$ F-32) (guesstimate: subtract 30 and halve)

Length and Area Conversions

1 acre = 43,560 sq. ft = 0.405 hectares

1 hectare = 2.47 acres

1 meter = 1.09 yards = 3.28 feet = 39.4 inches

1 yard = 3 feet = 36 inches = 0.914 meters

1 cm = 0.39 inches

1 inch = 2.54 cm

1 rod = 16.5 ft

1 sq. rod = 272.2 ft^2

1 square meter = 10.76 ft^2

1 cubic meter = 35.29 cubic feet = 1.30 cubic yards

1 inch layer of sand per acre = 134 cubic yards

Other Conversions

pt/A * 0.473 = liters/A

pt/A * 1.167 = liters/ha

1b/A * 0.454 = kg/A

1b/A * 1.12 = kg/ha

gal/A * 3.78 = liter/A

gal/A * 9.35 = liter/ha

ton/A * 2,242 = kg/ha

bbl/A * 0.112 = Mg/ha $g/ft^2 * 0.958 = bbl/A$

1 fl. oz/A *73.1 = ml/ha