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2016 Chart Book: Weed Management At-A-Glance

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WEED MANAGEMENT 2016 AT A GLANCE

Prepared by H.A. Sandler and K.M. Ghantous as an addendum to the 2016 Chart Book

UMass Cranberry Station <http://ag.umass.edu/cranberry> 508-295-2212 x 21

ALWAYS READ THE LABEL and REFER TO 2016 CHART BOOK

Herbicides	Max allowable formulation/A	Restricted entry interval (REI)	Preharvest interval (PHI)	Max number of applications
Callisto (mesotrione)	16 fl oz	12 hrs	45 days	2
Casoron 4G (dichlobenil)	100 lb	12 hrs	N/A	N/A
Devrinol (napropamide)	18 lb or 18 qt	24 hrs	N/A	N/A
Evital 5G (norflurazon)	160 lb	12 hrs	N/A	1
Poast (sethoxydim)	5 pt	12 hrs	60 days	N/A
QuinStar 4L (quinclorac)	16.8 fl oz	12 hrs	60 days	2
Roundup (glyphosate)	N/A	4 hrs	30 days	N/A
Select Max (clethodim)	64 fl oz	24 hrs	30 days	N/A
Stinger (clopyralid)	16 fl oz	12 hrs	50 days	2
Weedar 64 (restricted use)	N/A	48 hrs	30 days	1

PREEMERGENCE (timing may vary depending on weather and location)

Aster, fall panicgrass, cottongrass, crabgrass, cutgrass, ferns, loosestrife, mannagrass, marsh St. Johnswort, Casoron
 mare's tail, NLGR, needlegrass, nutsedge, pitchfork, ragweed, rattlesnakegrass, rushes, smartweed,
 sorrel, summergrass, velvetgrass, wild strawberry, woolgrass

Wild bean (if active, spot-treat with Stinger – see below for probable timing) Casoron, then Devrinol

Clover Stinger

Dodder Casoron, QuinStar

Sphagnum moss Improve drainage, Iron sulfate

Barnyardgrass, broadleaf panicgrass, broomsedge, Canada rush, fall panicgrass, cutgrass, dulichium, Evital
 horsetail, needlegrass, nutsedge, smokegrass, spike rush, summergrass, switchgrass, woolgrass

Dewberries (brambles) Late water, fall flood

Barnyardgrass, fall panicgrass, cutgrass, nutsedge, poverty grass, summergrass, etc. Devrinol

POSTEMERGENCE (timing may vary depending on weather and location)

Cinnamon fern, feather fern, sensitive fern Iron sulfate and salt

Asters, cinquefoil, feather fern, marsh St. Johnswort, sensitive fern Iron sulfate

Poverty grass and other true grasses (annual and perennial) Poast or Select Max

Ditch weeds (dry ditch sprays only) Roundup

Dodder QuinStar, Callisto, Conc. Callisto spot treatments

Aquatic weeds (off-bog only) Diquat, Rodeo

Wild bean Stinger or salt solution

Poison ivy Conc. Callisto spot treatments

Tall weeds on bogs Roundup, Weedar 64

Many broadleaved weeds, including pinweed Callisto

IN THE FALL AFTER HARVEST

Aster, blue joint, cottongrass, cutgrass, Carex spp., loosestrife, Casoron, Stinger (composite/legume weeds)
 marsh St. John's wort, mud rush, NLGR, needlegrass,
 nutsedge, ragweed, sphagnum moss, summergrass, woolgrass

Barnyardgrass, Canada rush, fall panicgrass, needlegrass, Evital
 nutsedge, poverty grass (follow by winter sanding), summergrass, switchgrass

Barnyardgrass, fall panicgrass, cutgrass, nutsedge, poverty grass, spike rush Devrinol*

* The efficacy of fall Devrinol applications for many weeds has not been documented.

Spot-treatment with sprays Roundup

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Suggested amounts of Callisto per gallon of water for spot-treatments

Callisto per gallon of water	Solution description	Max solution per acre per application
0.8 teaspoon	approximates 4 oz/acre rate	30 gal
1.9 teaspoons	approximates 8 oz/acre rate	30 gal
3 Tablespoons	very concentrated, for woody weeds like PI	5.3 gal

Suggested amounts of Poast per gallon of water for spot-treatments

Spray Solution Volume (gallons)	COC (1%)	Poast Spray Solution	
		1%	1.50%
1	1.3 fl oz	1.3 fl oz	1.9 fl oz
3	3.8 fl oz	3.8 fl oz	5.8 fl oz
5	6.4 fl oz	6.4 fl oz	9.6 fl oz
25	2.0 pints	2.0 pints	3.0 pints
50	4.0 pints	4.0 pints	6.0 pints

Suggested amounts of Roundup for spot-treatments

Type of application	Roundup Rate (for a 48% a.i. product)
Wiper	10-20% (1 part glyphosate product to 4-9 parts water)
Dry ditch spray	1-1.5 % (2.5-3.8 Tbsp or 38-57 ml per gallon water)
Clipper	50-100% (use full strength or dilute by half)
Post-harvest spray	0.4 – 0.7% (3-5.5 tsp or 15-27 ml per gallon water)
IF additives are needed:	
Surfactant	1 oz (2 tablespoons or 30 ml) per gallon of mixed solution
Ammonium sulfate	3 oz (6 tablespoons or 90 ml) per gallon of mixed solution

Roundup Wiping

	Solution Strength			
	Weaker	Moderate	Strong	
	Roundup (fl oz)			
To make 1 gallon	13 fl oz	17 fl oz	25 fl oz	+ enough water make 1 gallon of solution
To make 2 liters	7 fl oz	9 fl oz	13 fl oz	+ enough water make 2 liters of solution