



University of
Massachusetts
Amherst

2018-2020 Chart Book: Weed at a Glance

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WEED MANAGEMENT 2018 AT A GLANCE

Prepared by H.A. Sandler and K.M. Ghantous as an addendum to the 2018-2020 Chart Book

UMass Cranberry Station <http://ag.umass.edu/cranberry> 508-295-2212 x 25

ALWAYS READ THE LABEL and REFER TO 2018-2020 CHART BOOK

| Herbicides | Max allowable formulation/A | Restricted entry interval (REI) | Preharvest interval (PHI) | Max number of applications |
|---------------------------------------|------------------------------|---------------------------------|---------------------------|----------------------------|
| Aim (carfentrazone) | 6.1 fl oz | 0 days | 12 hrs | N/A |
| Callisto, Explorer, etc. (mesotrione) | 16 fl oz | 12 hrs | 45 days | 2 |
| Casoron 4G (dichlobenil) | 100 lb | 12 hrs | N/A | N/A |
| Devrinol (napropamide) | 18 lb (DF-XT) or 18 qt (2XT) | 24 hrs | N/A | 1 |
| 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, Intne (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

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)

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 pineweed 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 | | |
| <u>Roundup Wiping</u> | | | |
| <u>Solution Strength</u> | | | |
| | Weaker | Moderate | Strong |
| | Roundup (fl oz) | | |
| To make 1 gallon | 13 fl oz | 17 fl oz | 25 fl oz |
| To make 2 liters | 7 fl oz | 9 fl oz | 13 fl oz |
| | + enough water make 1 gallon of solution + enough water make 2 liters of solution | | |