

## 2009 Label Changes for Vegetable Weed Management in New England

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### Asparagus: Before Spear Emergence and/or after Harvest Season

Mesotrione--0.094 -0.24 lb/A. (REI 12 hr, Group 28) Apply 3 to 7.7 fluid ounces per acre Callisto 4SC prior to spear emergence in the spring, after final harvest, or both, to control many winter and summer annual broadleaf weeds. Till the field or tank-mix with Gramoxone Inteon to eliminate emerged spears when Callisto is applied after harvest or crop injury may be observed as white or white streaks in the stems and fern when treated spears grow. Callisto provides excellent control of horseweed (also called marestail or stickweed), including glyphosate tolerant strains, and common lambsquarter. Use the lower rate on coarse-textured (sandy) soils low in organic matter, and the higher rate on fine-textured (silt and clay) soils. Callisto does not control annual grasses. Tank-mix Callisto with a residual annual grass herbicide to control annual grasses. Add oil concentrate to be 1 percent of the spray solution (1 gallon per 100 gallons of spray solution) or a nonionic surfactant to be 0.25 percent of the spray solution (1 quart per 100 gallons of spray solution) if target weeds are emerged at the time of application. Do NOT apply more than 7.7 fluid ounces of Callisto per acre per year, and do NOT make more than two Callisto application per year.

### Pumpkin: Preemergence between rows of plastic or banded between rows on bare ground

s-metolachlor—0.95-1.27 lb/A. (REI 12 hr, Group 15) Apply 1 to 1.33 pints of Dual Magnum 7.62E per acre as a directed and shielded spray between the rows of plastic mulch or between bare ground rows in pumpkins to suppress or control annual grasses, yellow nutsedge, and certain annual broadleaf weeds including nightshade species. Leave 1 foot (12 inches) of untreated area between the spray and any emerged pumpkin foliage. Do NOT apply Dual Magnum under the plastic or spray the plastic mulch. Tank-mix with other herbicides to improve the number of annual broadleaf weeds controlled. Dual Magnum will not control emerged weeds. In CT, ME, and NH, can be tank-mixed with Gamoxone Inteon and applied as a directed shielded spray if weeds have emerged. Use the lowest recommended rates on coarse-textured sandy soils low in organic matter. Higher rates should only be used on medium and fine textured soils. **Dual magnum is labeled for use ONLY in pumpkins. Dual Magnum is NOT labeled on winter squash. Do NOT use Dual Magnum in winter squash.**

### Pumpkin and Winter Squash: Postemergence Shielded between rows of plastic mulch

Carfentrazone--0.008-0.031 lb/A. (REI 12 hr, Group 14) Apply 0.5 to 2 fluid ounces of Aim 2EC or Aim 1.9EW as a banded directed shielded spray between the rows of plastic mulch to suppress or control broadleaf weeds including morninglory species, pigweed species, common lambsquarter, and nightshade species when the crop has 2 to 5 true leaves but has not yet begun to bloom or run. Aim applied postemergence will not control annual or perennial grasses. Add nonionic surfactant to be 0.25 percent of the spray solution (1 quart per 100 gallons of spray solution), or oil concentrate or methylated seed oil to be 1 -2% percent of the spray solution (1-2 gallons per 100 gallons of spray solution). **The shielded (hooded) sprayer must be designed to prevent spray or drift from contacting the stems, leaves, flowers or fruit of the crop, or severe injury may occur.**

### Sweet Corn: Early Postemergence

Tembotrione--0.082 lb/A (REI 12 hr, Group 27) Apply 3 fluid ounces of Laudis per acre postemergence to control many annual broadleaf weeds, including common lambsquarter and triazine-resistant broadleaf weed biotypes, and many annual grasses. Add oil methylated seed oil (MSO) or concentrate (COC) to be 1% of the spray solution (1 gallon per 100 gallons of spray solution). In addition, the label requires the addition of nitrogen liquid fertilizer (1.5 quarts per acre) or AMS (1.5 pounds per acre). Tank mix with 0.25 to 1 lbs ai/A of atrazine for improved control and to broaden the spectrum of weeds control. Local university data supports the use of at least 0.5 lb ai/A of atrazine. Do not apply tank-mixes of Laudis and atrazine to corn greater than 12 inches tall. Do not use postemergence if Callisto, Lumax or Lexar was used preemergence. Do not tank-mix with Callisto. Laudis will control/suppress most annual grass species, but may not control certain grass species or grasses larger than the maximum recommended size when treated. Fall panicum is not controlled by Laudis. Most broadleaf weeds should be treated before they are 6 inches tall and grass weeds should be treated before 2 inches in height. Laudis has up to an 18 month replant restriction for many vegetables.

### **Sweet Corn: Early Postemergence**

Topramezone--0.016 lb/A (REI 12 hr, Group 28) Apply .75 fluid ounces of Impact 2.8SC per acre postemergence to control many annual broadleaf weeds, including common lambsquarter and triazine-resistant broadleaf weed biotypes, and annual grasses. Add oil concentrate (COC) to be 1% of the spray solution (1 gallon per 100 gallons of spray solution). In addition, the label requires nitrogen fertilizer (liquid or AMS),. Tank mix with 0.25 to 1 lbs ai/A of atrazine for improved control and to broaden the spectrum of weeds control. Local university data supports the use of at least 0.5 lb ai/A of atrazine. Do not apply tank-mixes of Impact and atrazine to corn greater than 12 inches tall. Do not use postemergence if Callisto, Lumax or Lexar was used preemergence. Do not tankmix with Callisto. Impact will control/suppress crabgrass and most other annual grass species, but may not control certain grass species or grasses larger than the maximum recommended size when treated. Most broadleaf weeds should be treated before they are 6 inches tall and grass weeds should be treated before 2 inches in height. Impact has an 18 month replant restriction for most vegetables.

### **Tomato: Pretransplant Incorporated or Pre transplant**

s-metolachlor--0.95-1.9 lb/A. (REI 12 hr, Group 15) Apply 1.0 to 2.0 pints per acre Dual Magnum 7.62E as a pretransplant incorporated or pretransplant surface applied spray to control annual grasses, yellow nutsedge, nightshade species, galinsoga, and certain other broadleaf weeds. May also be applied between rows of plastic mulch. Apply Dual Magnum before weeds germinate. Dual Magnum will not control emerged weeds. Use the lower rate on coarse-textured soils low in organic matter and higher rates on fine-textured soils and on soils with high organic matter. Rainfall or irrigation after application is necessary before weeds emerge to obtain good control. Make only one application during the growing season. DO NOT apply within 65 days of harvest. **Other generic versions of metolachlor and s-metolachlor may be available, and may or may not be labeled for use in the crop.**

### **Beets, Cabbage, Cauliflower, Broccoli, Greens, Lettuce, Onions, Parsley, Pea: Postemergence Grass Control**

clethodim (Select): 6 to 8 oz/A (20 dh, REI 24h, Group 1). Apply to actively growing grasses. See label for grass height and herbicide rate. Always use a crop oil concentrate at a rate of 1 gal/100 gal spray mix. See both container label and any supplemental label available from dealer.