

Post Emergent Grass Herbicide Options for Vine Crops

We don't have a whole lot of post-emergent herbicides at our disposal for cucurbits, and those that we do have are more grass herbicides than broadleaf materials. For post-emergent grass control we have several materials which include Poast 1.5EC (sethoxdim) and Select Max or Section 2 EC (Table 1). Select Max and Section contain the same active ingredient, clethodim, but are used at different rates. Which one you choose will depend on what grasses you have. If perennial grass like quackgrass is your main problem then I would recommend using Select Max or Section (they also work very well on annual grasses). If your grass species are mostly annual, you can use Poast. Any of these herbicides need to be applied to actively growing grasses – grasses that are under drought or heat stress will result in reduced control. I find that applying these materials a couple days after a rain really improves control. And last but not least, don't expect to see results in two or three days! These grass herbicides take 7–10 days for you to really notice anything dying back. Do not apply to recently cultivated grasses or cultivate a minimum of 10 days after an application. And, the smaller the grass, the better control you will achieve.

Table 1: Grass herbicides labeled for use in cucurbits.

Product	Labeled crops	Weeds controlled	Rate	Comments
Select Max	All cucurbits	Annual grass Perennial grasses	9-16 ounces per acre 12-16 ounces per acre	Adjuvants: Non-ionic Surfactant (NIS) at 0.25% v/v in the finished spray volume (2 pints per 100 gallons of water). Do not apply more than 16 fluid ounces per application. Do not apply more than 64 fluid ounces per year. Use a minimum of 10 gallons of water per acre with a maximum of 40 gallons per acre. Minimum spray pressure of 30 PSI with a maximum of 60 PSI. Do not use flood nozzels. Do not tank mix with broadleaf herbicides or apply a post-emergence broadleaf herbicide within one day following application of or reduced grass control may result.
Section 2EC	All cucurbits	Annual grass Perennial grass	6 ounces per acre 8 ounces per acre	Adjuvants: Crop oil concentrate (COC) at 1% v/v in the finished spray volume (1 gallon per 100 gallons of water). Use a minimum of 10 gallons of water per acre with a maximum of 40 gallons per acre. Minimum spray pressure of 30 PSI with a maximum of 60 PSI. Do not use flood nozzles. Do not use more than 8 fluid ounces per application to cucurbits. Do not apply more than 32 fluid ounces per acre per year. Do not tank mix with broadleaf herbicides or apply a post-emergence broadleaf herbicide within one day following application of or reduced grass control may result.
Poast 1.5EC	All cucurbits	Annual grasses perennial grass suppression	1.5 pints per acre	Adjuvants: Crop oil Concentrate (COC) at 2 pints per acre. Use a minimum of 10 gallons of water per acre with a maximum of 20 gallons per acre. Minimum spray pressure of 40 PSI with a maximum of 60 PSI. Do not use flood nozzles. Do not use more than 3.0 pints per acre per season. Although the label does not specify, I would not tank mix with broadleaf herbicides due to increase injury potential or apply a post-emergence broadleaf herbicide within one day following application of or reduced grass control may result.