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Weed Control in Cucurbit Crops

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Sandea in cucurbit crops



Sandea use in watermelon

- Bareground, direct seeded
 - − ½ to ¾ oz.
 - After planting prior to emergence
- Baregound, transplanted
 - Plant no sooner than 7 days after application
- Plasticulture, direct seeded or transplanted
 - Under the plastic, 7 days prior to planting
- Row middles
 - ½ to 1 oz./A

Sandea in cantaloupe and cucumber

- Bareground, Seeded
 - PRE, after planting before soil cracking
 - POST, after 3 to 5 leaf stage before female flowers
- Bareground, Transplanted
 - PRE, plant no sooner than 7 days after application
 - POST, same stage of growth as above
- Plasticulture, Seeded and transplanted
 - PRE, plant no sooner than 7 days after application
 - Post, same stage of growth, but more injury may occur because of run-off

Sandea use in watermelon

- •Two problems that occur most often
 - Application after vines have started to grow into row middles
 - Incorrect calculations

Spray treatments



Effect of Sandea placement in watermelon injury.



Stem splitting



Nontreated



Sprayed

Shortened internodes



Nontreated

Sprayed

Effect of Sandea placement in watermelon.



Calculating herbicides

Proper calculations for bed top application

- •10 Acre field, 8 ft. between row spacing and 3 ft. bed top
 - Bed top divided by row spacing
 - 3 ft. top / 8 ft. spacing = 37.5%
 - Percent of field sprayed x total number of acres
 - 37.5% of 10 acres = 3.75 acres
 - Acres treated x Herbicide rate
 - 3.75 A x 0.5 oz. = 1.9 oz. of Sandea
- •Another method:

Proper calculations for bed top application

- •10 Acre field, 8 ft. between row spacing and 3 ft. bed top
 - Bed top x linear row ft.
 - 3 ft. bed top x 55,000 linear ft. = 16,500 ft² (3.79 A)
 - Treated acres x Herbicide Rate
 - 3.79 A x 0.5 oz. = 1.9 oz. of Sandea

Proper calculation

Another method

- Gallons of water x Application Rate
 - 50 gal. water x 20 gal./A = 2.5 A
- Number of acres sprayed x Herbicide Rate
 - 2.5 A x 0.5 oz./A = 1.25 oz. of Sandea

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Rye in the row middles

Rye planted in the row middles



Paraquat injury follow rye burndown





Burndown strips



Weed control in rye

- •Sandea, 0.5 oz./A
 - Over the top of the rye
- •Aim, up to 2 fl. oz./A
 - Provides broadleaf weed control may burn the tips of the rye
 - This active ingredient is registered for use in turf
- Prowl H2O, 2.1 pt./A
 - After rye emergence
 - Possible off label application

Reflex and Dual Magnum in the row middles



Reflex and Dual Magnum in Watermelon

- Indemnified label through Syngenta's Farm Assist website
- Labeled use will be the same as Georgia

Questions.

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