

Carbaryl Use in Floriculture -- California

From: Rick Melnicoe
To: Al Jennings, Don Atwood
Subject: RE: EPA Request for Information
Date: May 9, 2008

Dear Al and Don,

[Attached](#) (PDF* 15K) is my reply to your information request on carbaryl use in floriculture. We do not use much in California.

Rick

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From: [Allen Jennings](#)
Sent: Monday, May 05, 2008 10:03 AM
To: aeg1@cornell.edu; Carrie; jess@msu.edu; jim_vankirk@ncsu.edu; jea@psu.edu; llherbst@ucdavis.edu; megray@uiuc.edu; Olsen, Larry; rsmelnicoe@ucdavis.edu; sratclif@uiuc.edu; steve_toth@ncsu.edu
Cc: kiely.timothy@epa.gov; jones.arnet@epa.gov; anderson.neil@epa.gov; atwood.donald@epa.gov
Subject: EPA Request for Information

Colleagues,

Attached is a request from EPA for information on the use of carbaryl in floriculture.

I know this is a very busy season for most of you and appreciate whatever you can do to provide the requested information.

If you have any follow-up questions, please direct them to Don Atwood at EPA.

Regards,

Al

Allen L. Jennings, Ph.D.
Director, Office of Pest Management Policy
USDA
202-720-5375

Pesticide Information Request

Active Ingredients:

Carbaryl

Crops/Target sites:

Floriculture—outdoors in California.

The following questions are related to the production of and use of irrigation in outdoor floriculture west of the Mississippi River, and the use of carbaryl in these production systems. EPA realizes the difficulty is making general statements about floriculture production, given the wide range of floriculture crops grown, and growing conditions in this large and diverse region of the country. We are most interested in those areas of outdoor floriculture production that receive relatively little rainfall. Please highlight by state or region.

Questions:

1. What outdoor floriculture occurs in your area? Perennial flowering plant production.
2. What is the average precipitation (inches/year) in your production area? Varies considerable from southern California to northern California and coastal versus inland areas. Ranges from under 10 inches per year to over 40 inches.
3. If average precipitation is less than 25 inches/year, is irrigation being used in outdoor floricultural production? Yes
 - a) If yes, go to 4
 - b) If no, go to 5
4. Irrigation in outdoor floricultural production.
 - a) What type of irrigation is being used for outdoor floriculture (e.g. overhead, drip, furrow, etc)? All types may be used.
 - b) What percentage of each type of irrigation is being used? Mostly overhead in nurseries.
 - c) How often does irrigation occur (e.g. daily, twice daily, weekly, etc.)? Daily to weekly.

- d) Are there critical periods for irrigation, and if so, when? At planting.
- e) How much additional water is applied by irrigation (inches/year)? Rainfall is generally not relied upon.

5. Is carbaryl relied on for insect control in outdoor floricultural production in this area? No, see table below for use reported to California Department of Pesticide Regulation in 2006.

Crop or Site	AI	Num. of Fields	% Base Acres Treated	Base Acres Treated	Cum. Acres Treated	Total Lbs AI	Med rate	Min rate	Max rate	Num. apps	Med apps/field	Min apps/field	Max apps/field
N-OUTDR FLOWER	CAR-BARYL	8	0.25	27	28	26	0.03	0.01	2.00	13	1.00	1.00	3.00
N-OUTDR PLANTS IN CONTAINERS	CAR-BARYL	37	0.81	282	284	296	0.46	0.40	3.57	132	2.00	1.00	13.00
N-OUTDR TRANSPLANTS	CAR-BARYL	13	1.03	110	112	150	0.99	0.10	8.34	20	1.00	1.00	3.00

- a) If yes, go to 6
- b) If no, got to 7

6. Carbaryl usage information for outdoor floriculture.

- a) What are the primary target pests being controlled with carbaryl?
- b) What is the carbaryl application rate being used?
- c) Are there critical periods for carbaryl use, and if so, when?
- d) What is the timing of last carbaryl application before harvest (day, days, weeks, etc.)?
- e) What is longest acceptable re-entry interval (REI) for carbaryl use?
- f) What alternative insecticides to carbaryl are available to control the primary pests?

7. Thank you for your time and help.

Please Respond to:

Donald Atwood at atwood.donald@epa.gov
 Al Jennings at allen.jennings@usda.gov

Deadline:

May 19, 2008