

Acrolein Information Request

From: [Harold Coble](#)

Sent: Wednesday, January 03, 2007 7:14 AM

To: Rick Melnicoe; Linda Herbst

Subject: FW: EPA Information Request - Acrolein

Hi Rick & Linda,

Happy New Year!

Can you send out the [attached table](#) to get info on acrolein for EPA?

Thanks,
harold

-----Bill Phillips/DC/USEPA/US wrote: -----

To: [harold coble](#)

From: Bill Phillips/DC/USEPA/US

Date: 12/22/2006 11:50AM

cc: Jonathan Becker/DC/USEPA/US@EPA, Arnet Jones/DC/USEPA/US@EPA, Timothy Kiely/DC/USEPA/US@EPA

Subject: EPA Information Request -- Acrolein

Dr. Coble,

As part of the acrolein RED, BEAD has been asked by the Health Effects Division to try to narrow the focus of crops receiving overhead irrigation using acrolein treated surface water. The issue at hand is acrolein residue from the treated irrigation water deposited on harvested commodities.

To this end, BEAD is requesting from OPMP some information on specific crops in specific states with respect to overhead irrigation. We have tried to use a method that would limit the amount of work for all involved while obtaining the needed information. As part of the methodology BEAD has reduced the crop/state list significantly and as a result the remaining crops do not seem to be candidates for this type of irrigation. However, since HED and SRRD have emphasized the present broad scope of the food residue assessment, BEAD would appreciate any help that OPMP can provide in further narrowing this list.

Please find attached a brief description and table of the information requested. This process may be an iterative one, so BEAD may need to make a similar request of OPMP once HED has evaluated the information from the answers provided.

If you have any questions, or would like further clarification please feel free to call or email.

Thank you,

[Bill Phillips, II, PhD](#)

Agronomist

Biological Analysis Branch

Biological and Economic Analysis Division

United States Environmental Protection Agency

Phone: 703-308-8099 Fax: 703-308-8090

Information Needed from USDA/OPMP Regarding Irrigation Timing with Respect to Harvest Timing for Selected Crops within Selected States

Acrolein is currently under reregistration and one of its uses is as an aquatic herbicide applied in canals in the western half of the United States. The information being sought is the duration of time between overhead irrigation from a surface water sources and harvest of the respective commodity (overhead=any irrigation system which results in water being deposited on the harvested commodity). The states and crops listed in the following table represent the current focus of this request. Please keep in mind that this is an iterative process and once HED has evaluated the answers from the current analysis there may be further crops that require the same information. Keeping this in mind, BEAD has made every attempt to streamline this process and narrow the focus of the analysis prior to enlisting the assistance of USDA in order to reduce the amount of time required to gather relevant information.

Brief Characterization of the Information to be placed into the Tables

- The information being requested is needed to determine the time duration between overhead irrigation from surface water sources and harvest of the respective commodities (overhead= any irrigation system which results in water being deposited on the harvested commodity).
- On crops where overhead irrigation is not used, simply answer “No”, then in the comments section specify the general type of irrigation system(s) used.
- If overhead irrigation, or other overhead watering is used but not applied within 7 days of harvest simply answer “No application within 7 days of harvest” in the comments section.
- Please provide any other information that may be appropriate for this line of inquiry (e.g. knowledge of acrolein use, distance between location of acrolein application and where the water is used, knowledge of application timing and water use, reasons why crop would not be irrigated within 7 days of harvest...)

Person Making Entries in Table: Rick Melnicoe, Director, Western IPM Center, University of California, Davis

States	Crops	Overhead Irrigation (Yes or No)	Duration Between Last Overhead Irrigation or Any Water Application & Harvest	Comments (Please add any other information that you feel is relevant)
<i>Example State Name</i>	<i>Example Crop Name</i>	<i>Yes</i>	<i>Primarily 15 days Dry years could be 24-48hr</i>	<i>During dry years a light irrigation could be applied within 24-48 hours to make fruit more turgid.</i>
Arizona	Oranges			
California	Apples	No		The only overhead watering of apples is for cooling during the summer. The water is always higher quality groundwater, not from surface waters. Normal irrigation is from flood, drip or micro-emitters, but no foliage contact from irrigation water.
	Grapes (All)	No		No overhead irrigation. Drip and some micro-emitters, but no foliage contact.
	Oranges All	No		No overhead irrigation. Flood, drip and some micro-emitters, but no foliage contact.
Idaho	Apples			
New Mexico	Apples [†]			
	Grapes [†] (All)			
Washington	Apples			
	Grapes (All)			

[†]Not listed by the registrant as receiving treated irrigation water.

Please include a list of sources for each entry.

Information provided by:

Mark Freeman, Farm Advisor, University of California, Fresno County, (559) 456-7265. Grapes, Citrus

Maxwell Norton, Farm Advisor, University of California, Merced County, (209) 385-7403. Grapes, Citrus, Apples

Joseph Grant, Farm Advisor, University of California, San Joaquin County, (209) 468-2085. Apples