

Subject: Re: EPA Request for information from IPM Centers - Crop Harvest and Soil Prep Time
Date: Monday, December 22, 2014 at 9:36:55 AM Pacific Standard Time
From: James Jay Farrar
To: Chin, Teung
CC: Epstein, David, Fajardo, Julius - ARS, Schroeder, Jill - ARS, Steve Elliott, Matt Enrico Baur, Richard Smith

Hi Teung-

In response to your request for information, attached please find the completed table for Monterey County harvest and soil preparation times for vegetable crops.

Thanks – Jim

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From: <Chin>, Teung <Teung.Chin@ARS.USDA.GOV>
Date: Monday, December 8, 2014 at 11:19 AM
To: James Jay Farrar <jffarrar@ucanr.edu>, "Lynnae Jess (jess@msu.edu)" <jess@msu.edu>, "Stephen L. Young" <sly27@cornell.edu>, Danesha Seth Carley <Danesha_Carley@ncsu.edu>
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Subject: FW: EPA Request for information from IPM Centers - Crop Harvest and Soil Prep Time

Dear Colleagues:

Hope you had a pleasant Thanksgiving holiday!
OPMP has received a request from EPA for Crop Harvest and Soil Preparation Time.
“This request is for information about the time it takes to harvest a specific crop and then prepare the soil before the next crop can be planted.”

EPA agrees that it would be productive to walk through the rationale and questions prior to sending out by the IPM Centers. Currently, the NE region is not included, based on available data, which may or may not be critical for EPA’s purposes. This can be discussed with Bill Chism. EPA is now looking into preliminary Delaware county data.

EPA seeks feedback by early February.

I will send out a Doodle poll shortly for a 30 minute conference call with EPA.

**Thank you
Teung**

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From: Chism, William [<mailto:Chism.Bill@epa.gov>]
Sent: Tuesday, December 02, 2014 9:07 AM
To: Kunickis, Sheryl - OSEC; Chin, Teung
Cc: Becker, Jonathan; Mallampalli, Nikhil; Jones, Arnet
Subject: Request for information from IPM Centers - Crop Harvest and Soil Prep Time

Hello Sheryl and Teung

We are working with EFED to look at pesticide application(s) on rotational crops during the course of a year. As part of that study we are developing information that describes the production of short season annual vegetable and fruit crops on the same part of a field during the course of one year. This information will provide BEAD with real-world bounds on the potential frequency and timing of the crops and their associated pesticide inputs.

We are using the USDA data on typical planting and harvest dates for numerous crops. We are also using USDA data on crop shipments by month to help pinpoint when the major crops are harvested and shipped. But, we have not found information on the time to prepare the soil, let the crop residue decompose, and then plant the next crop. We think that the IPM Centers are ideally situated to help us collect that information. Based on the available information we have organized data from four key vegetable producing counties representing different parts of the country: Monterey County, California, Palm Beach County, Florida, Berrien County, Michigan, and Hidalgo County, Texas.

We realize things are busy this time of year but if we could get the information by early February that would be very helpful.

Thank you. Bill

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Table 1. Harvest and soil preparation times for multiple vegetable crops per year in Monterey Co, CA.

CROP	Planting Times (typical) and Days to Harvest	Time for Harvest (days)	Time to Prepare Soil for Planting (days)
BEANS	April 15 – August 1, 90 to 120 days	1 day mechanical harvest	14-28 days
BEETS	Feb to Aug, 42 to 56 days	1 day (1 harvest)	14-28 days
BROCCOLI	Jan to Dec, 75 days spring to fall and 130 days winter	14 days, (multiple harvests)	14-28 days
BRUSSEL SPROUTS	Feb to July, transplants 130 to 150 days	1 day (1 harvest varieties)	14-28 days
CABBAGE	Feb to September 15, 90 to 120 days direct seeded and transplanted	10 days (multiple harvests)	14-28 days
CANTALOUPE *	NONE	N/A	N/A
CARROTS (fresh)	February to July 30, 120 to 150 days, direct seeded only	1 day (1 harvest)	14-28 days
CAULIFLOWER	January to December, 75 to 120 days longer for winter production	10 days (2 harvests)	14-28 days
CELERY	Mar 15 to Aug 15, 100 to 120 days, transplants	1 day (1 harvest)	14-28 days
CHINESE CABBAGE	March to Sept 1, 80 to 110 days if direct seeded	1 day (1 harvest)	14-28 days
CORN-SWEET	April to July, 90 to 120 days, direct seeded	1 days, (1 harvest)	14-28 days
EGGPLANT *	NONE	N/A	N/A
ENDIVE **	Mar to July, 90 days, direct seeded	1 days, (1 harvest)	14-28 days
ESCAROLE **	Mar to July, 90 days if direct seeded	1 days, (1 harvest)	14-28 days
GREENS (mustard)	March to August, 35 to 45 days, direct seeded	1 days, (1 harvest)	14-28 days
HONEYDEWS *	NONE	N/A	N/A
LETTUCE PROCESSED **	Dec 21 to Aug 15, 65 to 80, direct seeded	1 day (1 harvest)	14-28 days
LETTUCE-ICEBERG **	Dec 21 to Aug 15, 90 to 105 days, direct seeded	1 day (1 harvest)	14-28 days
LETTUCE-OTHER **	Dec 21 to Sept 7, 55 to 80, direct seeded	1 day (1 harvest)	14-28 days
LETTUCE-ROMAINE **	Dec 21 to Sept 7, 65 to 80, direct seeded	1 day (1 harvest)	14-28 days
ONIONS DRY (fresh market)	February to mid-April 150 to 180 days, direct seeded	1 day (1 harvest)	14-28 days
ONIONS GREEN	Spring to Fall, 40 to 50 days if direct seeded	1 day (1 harvest)	14-28 days
PARSLEY	Dec. to July	1 days, (multiple harvest)	14-28 days

CROP	Planting Times (typical) and Days to Harvest	Time for Harvest (days)	Time to Prepare Soil for Planting (days)
	70 to 90 days, direct seeded		
PEAS GREEN	Jan to August 60-70 days, direct seeded	7 days, (2 harvests)	14-28 days
PEPPERS, BELL TYPE 4	April to June 15, 120 days, transplanted	1 days, (multiple harvest)	14-28 days
POTATOES *	NONE	N/A	N/A
RADISHES	January to December, 30 to 45 days, direct seeded only	1 day (1 harvest)	14-28 days
SPINACH	March to September, 25-35 days, direct seeded	1 day (1 harvest)	14-28 days
SQUASH	April to mid-August, 45-50 days, direct seeded	1 days, (1 harvest)	14-28 days
STRAWBERRIES	November 130 days, transplanted	multiple harvests - every 3 days for several months	14-28 days
TOMATOES (fresh)	April 1 to July 30, 105 to 135 days, transplanted	1 days, (1 harvest)	14-28 days
TOMATOES, CHERRY	April to July 30, 65 days if transplanted	multiple harvests – every 5-7 days for 60 days	14-28 days
TOMATOES, GRAPE TYPE	April to July 30, 65 days if transplanted	multiple harvests – every 5-7 days for 60 days	14-28 days
TOMATOES, PLUM TYPE	April to July 30, 65 days if transplanted	multiple harvests – every 5-7 days for 60 days	14-28 days
WATERMELONS, SEEDED or SEEDLESS *	NONE	N/A	N/A

*May be shipped from Monterey County but are not grown in Monterey County.

**Monterey County Agricultural Commissioner enforces a County mandated lettuce-free period (including endive and escarole) from December 7 to December 21 to break the aphid transmission cycle of Lettuce Mosaic Virus