

## DEPARTMENT OF FOOD AND AGRICULTURE



February 8, 1979

Mr. Erwin B. Eby  
Agricultural Commissioner of  
San Joaquin County  
P. O. Box 1809  
Stockton, California 95201

Dear Erwin:

Attached is a proposed monitoring plan for the anticipated 2,4-D project, March 15, 1979 to May 15, 1979. It contains a description of project organization, participant responsibilities, the anticipated implementation of monitoring activities and a time frame for activities.

I would appreciate your review and any input you might suggest.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Ronald J. Oshima".

Ronald J. Oshima  
Environmental Hazards Assessment  
(714)787-4683

RO/th  
enc.

cc: Mackenzie  
Dunkle ✓  
Magee  
DeVol  
Rutz  
Coy  
Cheney

Monitoring Plan for Contra Costa, Sacramento, San Joaquin and Solano Counties:  
2,4-D Drift.

A cooperative project involving the California Department of Food and Agriculture and the Agricultural Commissioners Offices from Contra Costa, Sacramento, San Joaquin and Solano Counties.

I. Objective: to determine the presence (quantitative) or absence of 2,4-D drift in selected vineyards within the 4 county area during the period beginning 15 March 1979 to 15 May 1979.

II. Monitoring Plan

The cooperative 2,4-D monitoring project will be under the overall supervision of Ronald J. Oshima, Environmental Hazards Assessment Program (EHA-CDFA), and will involve participation by Agricultural Commissioners staffs in the 4 county area and personnel from the Environmental Hazards Assessment program. Key personnel participating from EHA-CDFA are listed below along with their responsibilities:

Van Cheney - responsible for maintaining liaison between EHA-CDFA and county Agricultural Commissioners and their staffs. Also, he will coordinate the scheduling of meetings between State and Counties staff and develop a mutually agreeable list of recipients for progress reports and the final report of the monitoring project.

Lee Neher - responsible for all technical aspects of the monitoring project including: calibration of monitoring instruments; training county personnel to operate monitoring instruments; final monitoring site inspection; procurement and delivery of monitoring instruments, sample mailing containers, written instructions for the handling and storage of samples.

Instrumentation & Equipment - This project will have the following inventory to utilize in this project.

- 1) A total of 10 monitoring instruments to be distributed among the counties which require a monitoring capability. Distribution will be mutually agreed on at an anticipated meeting February 27 and 28, 1979 (see timetable).
- 2) An inventory of pre-cleaned sample resin tubes will also be distributed with the monitoring instruments.
- 3) Mailing containers for used sample resin tubes and dry ice refrigerant will be furnished.

Timetable - the proposed timetable for this project is given below:

- 1) February 27-28, 1979 (meeting between EHA-CDFA personnel and Agricultural Commissioners staffs from the 4 involved counties.) Location, specific time and agenda to be organized by Van Cheney.

Objectives:

- a) Proposed monitoring site inspection by EHA-CDFA
- b) Discussion of County application - monitoring communication system
- c) Dry ice sources, wind direction, temperature, relative humidity
- d) Mailing list for progress reports and final report
- e) County compilation of all 2,4-D applications during the monitoring period

2) March 13-14, 1979 (meeting between EHA-CDFA personnel and Agricultural Commissioners staffs from the counties involved with monitoring.) Location, specific time and agenda to be organized by Van Cheney.

Objectives:

- a) Monitoring instrument and equipment delivery
- b) County personnel training for instrument operation, sample handling, storage, and mailing
- c) Inspection of alternate monitoring sites by EHA-CDFA personnel
- d) Final agreement on project operations

3) March 15, 1979 - Monitoring begins.

4) April 4, 1979 (meeting between EHA-CDFA personnel and County Agricultural Commissioners staffs.) Location, specific time to be organized by Van Cheney.

Objectives:

- a) Calibrate monitoring instruments
- b) Discuss problems

5) May 2, 1979 - Same as above.

6) May 17, 1979 (meeting between EHA-CDFA personnel and County Commissioners staffs.) Location, specific time to be organized by Van Cheney.

Objectives:

- a) Pick up monitoring instruments and equipment
- b) Determine timetable for analysis of data and production of the final report

Participation

The following proposed responsibilities are listed to provide clear understanding of the depth of participation required by all parties if the project is to be a success.

Environmental Hazards Assessment program:

- 1) Provide 10 monitoring instruments and train county personnel in their operation.

- 2) Provide an inventory of sample resin tubes for monitoring instruments and instruments for county personnel in their handling, storage and mailing to Sacramento.
- 3) Provide analyses of 2,4-D levels from sample resin tubes submitted by county personnel.
- 4) Provide mailing containers for sample resin tube mailing.
- 5) Provide detailed instruction for monitoring procedures.
- 6) Provide on site inspection of proposed monitoring sites.
- 7) Provide a final report summarizing project results.
- 8) Provide organization and coordination between EHA-CDFA and counties.

#### County Responsibilities:

- 1) Provide an effective communication network between Contra Costa, Sacramento, San Joaquin and Solano Counties which will coordinate applications and monitoring efforts.
- 2) Provide personnel for actual field monitoring.
- 3) Provide documentation of all 2,4-D spray applications during the project which will include location, date and time applied.
- 4) Provide dry ice for sample resin tube storage and shipment.
- 5) Provide storage area for instruments and sample resin tube when monitoring is not required.
- 6) Provide suggested monitoring sites to be inspected by EHA-CDFA personnel and alternate sites should the initial ones be discarded.

#### Implementation

Instruments, sample resin tubes, and training will be provided prior to actual monitoring (March 15, 1979). After monitoring is initiated, county personnel will operate instruments and monitor for 2,4-D at pre-selected sites. Sample resin tubes will be taken from the instruments after monitoring is completed, stored immediately on dry ice, then mailed to Sacramento using dry ice as a refrigerant. Samples will then be analyzed for 2,4-D and incorporated in a final report with all other pertinent information.

Monitoring instruments will be calibrated twice during the monitoring project by EHA-CDFA personnel. Proposed dates (4/4/79 and 5/2/79) for calibration can be altered if serious conflicts arise. The calibration will necessitate collection of all monitoring instruments at a central location for a 4-hour period.

Upon completion of the monitoring period (May 15, 1979), instruments, equipment and documentation of 2,4-D applications will be collected by EHA-CDFA personnel at a central location.

A draft final report will be submitted to the respective Agricultural Commissioners for review at the earliest possible date after chemical analyses are completed. The final report will then be issued first to a mutually agreeable mailing list, and then be made available to all interested parties.