

Pesticide Air Monitoring Network

November 9, 2010

Pesticide Registration and Evaluation Committee

Email during meeting: precomments@cdpr.ca.gov

Final monitoring plan

- Number of air samples
 - One monitoring location in each community
 - One set of 24-hour samples collected each week
- Pesticides included (2 – 4 samples/set)
 - At least 27 pesticides in modified Parlier method and VOC method
 - Chloropicrin
 - MITC (methyl isothiocyanate)
- Communities monitored
 - Ripon (San Joaquin County)
 - Salinas (Monterey County)
 - Shafter (Kern County)

Draft monitoring protocol

- Draft protocol includes standard DPR elements
 - Monitoring plan (objectives, number of samples, pesticides, communities)
 - Personnel
 - Field and laboratory standard operating procedures
 - Monitoring site descriptions
 - Data evaluation procedures
- PREC and public comment requested for some protocol issues

Sampling schedule

- Field work required on two consecutive days each week (e.g., Monday start and Tuesday end)
- Budgetary considerations may restrict sampling days (e.g., furloughs, weekends)
- **Select sampling days randomly or systematically (e.g., sample every 6th day)?**
- **Sample all communities simultaneously (e.g., all communities start on Monday)?**

Criteria for selecting sampling sites

- Permission of property owner
- Electrical outlet
- Accessible to DPR staff
- Secure from tampering
- Near pesticide applications
- U.S. EPA siting criteria
 - 2 – 15 meters above ground
 - At least 1 meter from supporting structure
 - Should be at least 20 meters from trees
 - Distance from obstacles should be at least twice the obstacle height
 - Unobstructed air flow for 270°

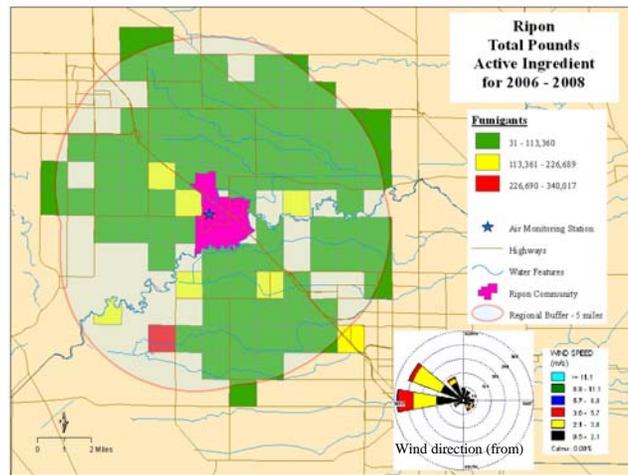


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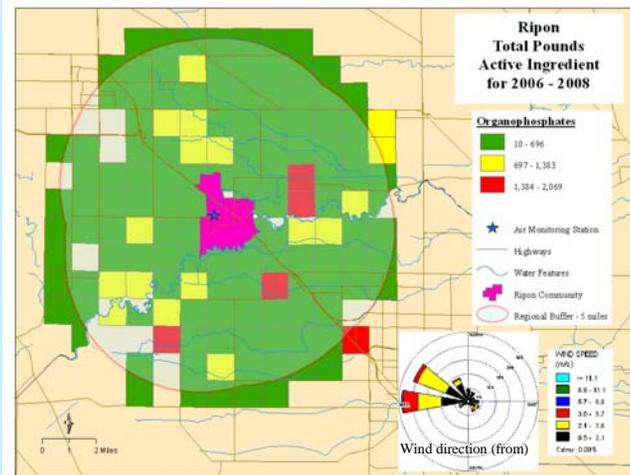
Ripon sampling site – police station?



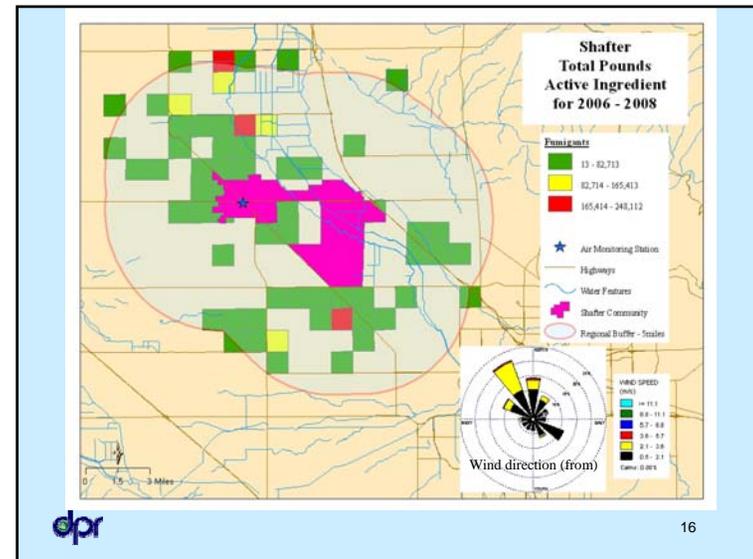
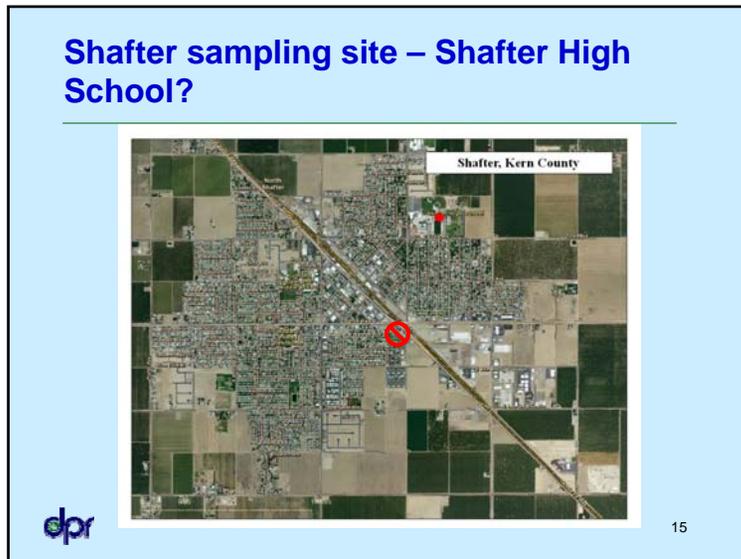
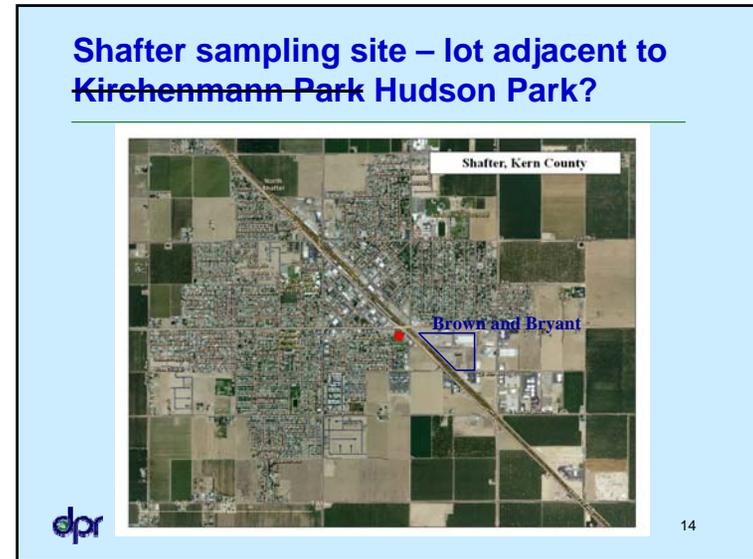
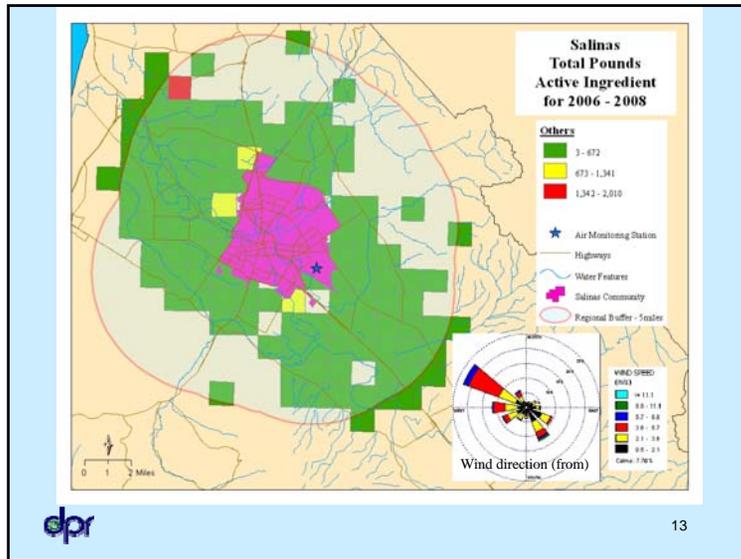
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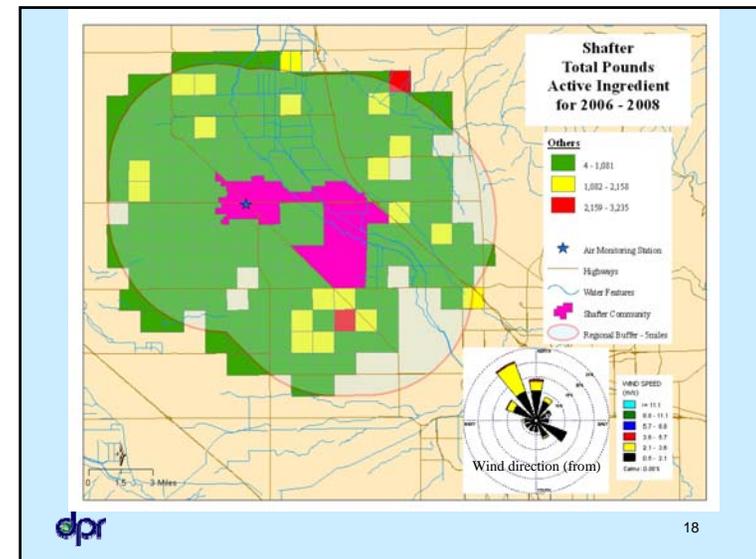
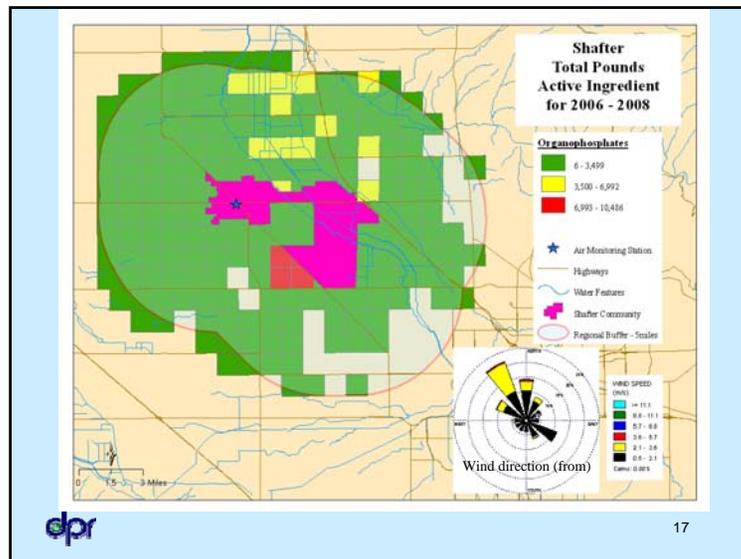


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Laboratory analysis

- Attempting to add 6 pesticides to Parlier method
 - Acephate (Orthene)
 - Bensulide (Prefar)
 - Chlorthal-dimethyl (Dacthal)
 - Iprodione (Rovral)
 - Methidathion (Supracide)
 - Oxydemeton-methyl (Metasystox-R)

Quality control

- Collocated sampling and/or lab analysis by other organizations?
- Frequency of
 - Duplicate samples?
 - Field spikes?
 - Field blanks?
- Audits?

Data evaluation

- Parlier screening levels previously reviewed
- **Health screening levels for**
 - 6 new pesticides?
 - 13 revised Parlier pesticides?
- **Method to evaluate cumulative exposure?**



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Reporting

- **Reporting frequency?**
- **Include pesticide use report (PUR) data and evaluation?**
 - Lag increases from 9-12 months to 15-18 months
- **Report data to U.S. EPA Air Quality System (AQS)?**



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Next steps

- Protocol finalized and sampling begins January 2011, maybe



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Additional information and comments

- Lead staff

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- DPR web site: www.cdpr.ca.gov
 - Select "Air" under Quick Finder
 - Select "Air Monitoring Network"



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