

Provided by Water Board

EO list

Reference Values



Completed by Coalitions

Step 1: Monitoring Watershed's
Pesticide Use Data



Step 2: Preliminary Ranking (Ratio of
Pesticide Use to Reference Value)



Step 3: Evaluate EO List Pesticides
(excluding zero use pesticides) for
each Monitoring Watershed



Monitoring Recommendations

Items in Italics remain to be worked out

All California registered pesticides with the following exclusions: Oils, Clays, Polymers, Sulfur, Solvents, Biopesticides, Soaps, Mineral Salt, Adjuvants, Pheromones (see anti-exclusion list)

Both aquatic life & human health values (*specific values to be determined*)
--Include values for impurities and degradates (*list in development*)

1A. Obtain production ag data from DPR Pesticide Use Reporting (Cal-PIP) or Ag Comm--Sum total 3 years of data for coalition watershed(s)
1B. Remove anomalies, obvious errors – document process
1C. Remove all zero-use pesticides (no need for further consideration)
1D. Group (sum) chemicals with the same toxicant in water (*see grouping list in development*)
1D. *Calculate impurity quantities for listed impurities (list in development)*

2A. Two Calculations: aquatic life, human health
--Ranking includes degradates and contaminants
--Use degradate toxicity value when it is lower than parent
--Note any pesticides for which there is no reference value
2B. Rank both aquatic life and human health ratios separately

3A. *Obtain available monitoring data (DPR, CEDEN, literature)*
--*assess based on EPA "bias factor approach," for monitoring data assessment, comparing to reference value.*
Appropriate detection limits? Sampling timing? QA/QC?

3B. *Obtain any relevant EPA & DPR modeling – does it predict reference value exceedances?*

3C. *Higher priority pesticide (e.g., has MCL) – other prioritization adjustments?*

3D. Availability of analytical methods with relevant detection limits

3E. *Fate considerations--need to discuss whether/how to include Koc, half life (which one?), others?*

3F. *Crop-specific considerations [include?]*

3G. *% of watershed treated/use frequency/number of applications*

3H. *Other possible factors: ??high concentration reference value, ????*