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)*
EO Provide chemical groupings

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, ????*