

Step 1: Pesticide Use Data



Step 2: Reference Values



Step 3: Preliminary Ranking (Ratio of Pesticide Use to Reference Value)



Top Tier (#?) = Watershed EO list

Step 4: Evaluate EO List Pesticides for Coalition Watershed(s)



Monitoring Recommendations

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. Exclusions:

--Oils, Clays, Polymers, Sulfur, Solvents, Biopesticides, Soaps, **Mineral Salts** (but not metal salts), Adjuvants, Pheromones

2A. Identify chemical form in water if different from pesticide

--**Group chemicals** with the same toxicant in water

(e.g., copper, 2,4-D, glyphosate, **certain pyrethroid**

isomers, metam sodium/potassium – MITC, triclopryr

2B. Obtain reference values (see detailed description)

--Both aquatic life & human health values

-- **Refer to specific list of degradates of concern** – use degradate toxicity value when it is lower than parent

--Human health values include drinking water & food

--Note data gaps

3A. Two Calculations: aquatic life, human health

--Ranking includes degradates and contaminants

3B. Rank both aquatic life and human health ratios separately

4A. 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?

4B. Obtain any relevant EPA & DPR modeling – does it predict reference value exceedances?

4C. Higher priority pesticide (303(d) list or has MCL)

4D. Are analytical methods available with relevant detection limits?

4E. Fate considerations [need to discuss whether/how to include]

4F. Crop-specific considerations [need to discuss whether/how to include]

4G. Other considerations [need to discuss whether/how to include]

4H. Other considerations [need to discuss whether/how to include]

4I. Other considerations [need to discuss whether/how to include]