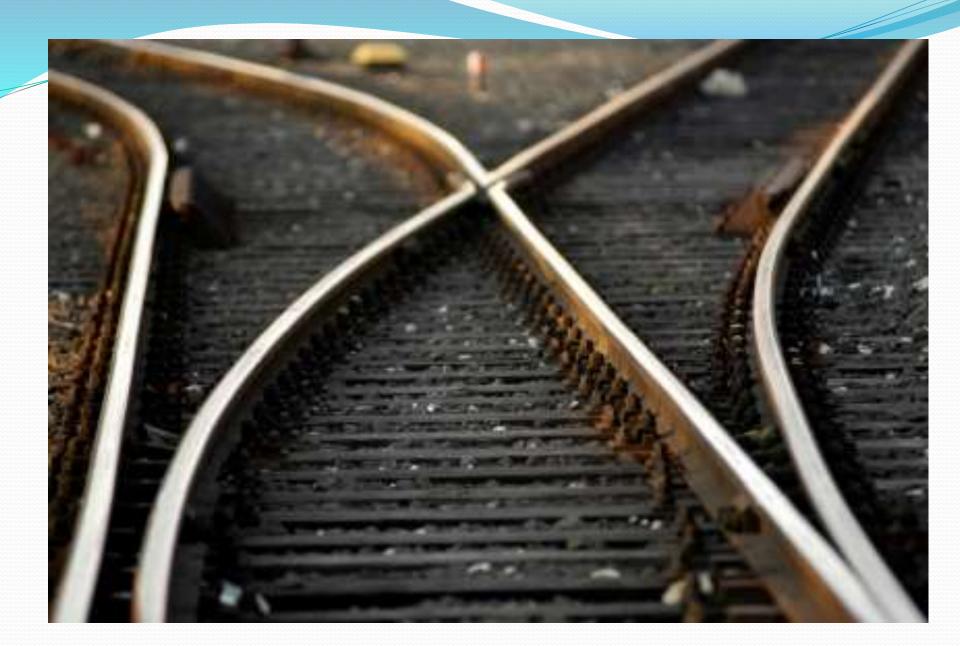
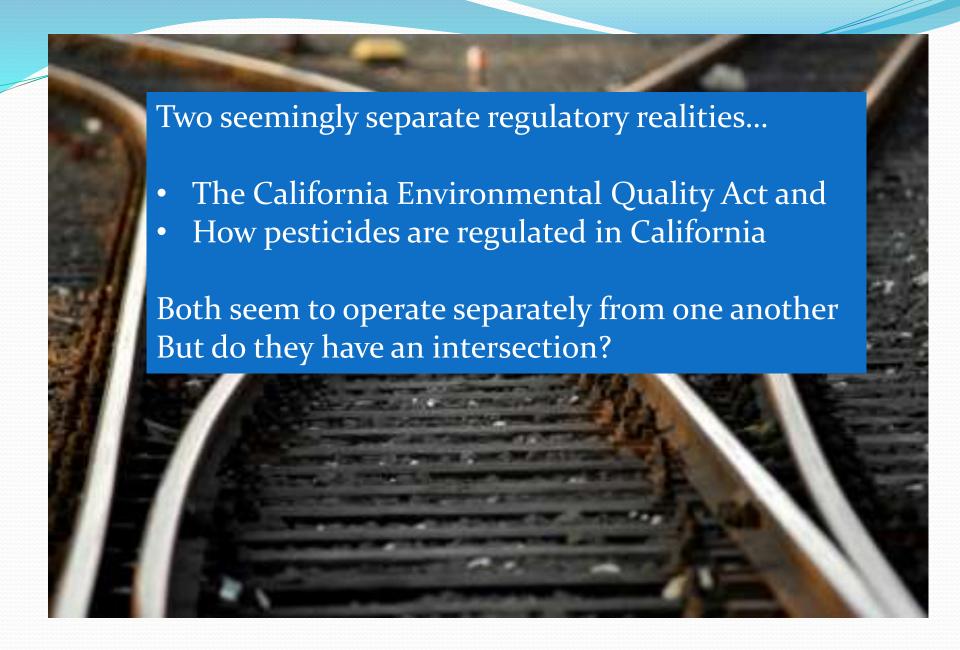
# CEQA and Pesticides... How it all fits together... sort of...

Joel Trumbo Senior Environmental Scientist CA Dept of Fish & Wildlife







The same year that NEPA passed

- Requires public agencies to prepare an Environmental Impact Report (EIR) for any project that will have significant adverse impacts on the environment.
- The EIR process must consider alternatives, develop proposals to mitigate or avoid impacts to the extent feasible, and involve the public and other public agencies in the evaluation process.

### Pesticide Registration

- Separate USEPA and DPR programs
- harm to humans, wildlife, fish, and plants
- contamination of surface water or ground water
- the language that appears on each pesticide label





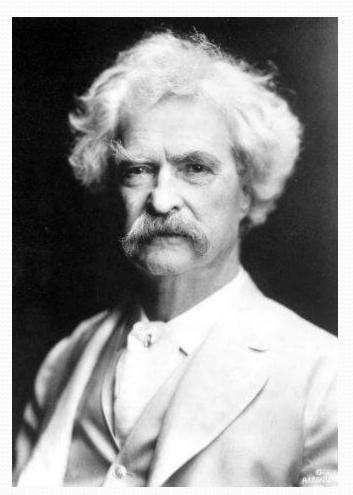
### **Early Pest Control**

- 2500 BC earliest recorded pest control...sulfur use by the Sumerians
- 1300 Marco Polo brings pyrethrum to Europe from Asia
- 1300-1800s:
  - sulfur
  - arsenic
  - tobacco
  - turpentine
  - lead arsenate
  - prayer
  - human sacrifice



### 19th and 20th Centuries

- **1873** DDT invented by P.H. Müller
- 1930s DDT use in Europe as an insecticide
- 1940s DDT use in the USA
- 1944 Phenoxy herbicides
- 1946 Organophosphate insecticide use in the USA
- 1940-1950s Synthetic pesticide boom era



Paul Hermann Müller Swiss Chemist, 1873

### Boom Era...Synthetic Pesticides



- chlordane
- toxaphene
- aldrin
- dieldrin
- heptachlor
- parathion
- 2,4-D

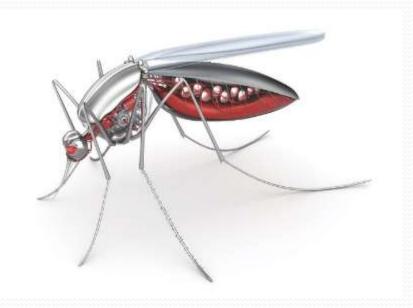
### 1950s Synthetic Pesticides

- Generally high mammalian toxicity
- Used in a wide variety of settings
- Long-term effects not well-understood or considered
- Minimal precautions

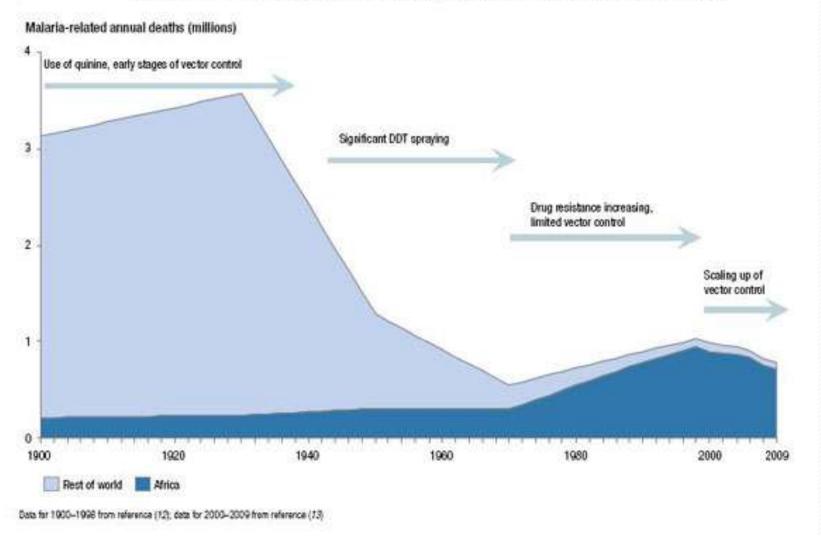




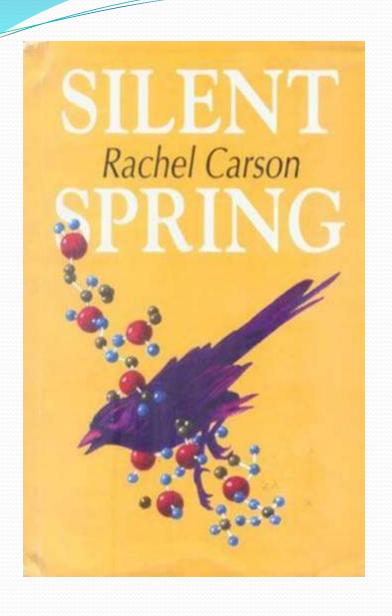
- In India when the DDT campaign began in 1953 there were 75 million malaria cases a year and 800,000 deaths.
- By 1966 there were fewer than a million annual cases of malaria and no deaths.
- In parts of Indonesia, 25% of the population was infected by malaria. When DDT was introduced, the rate fell to 1%.



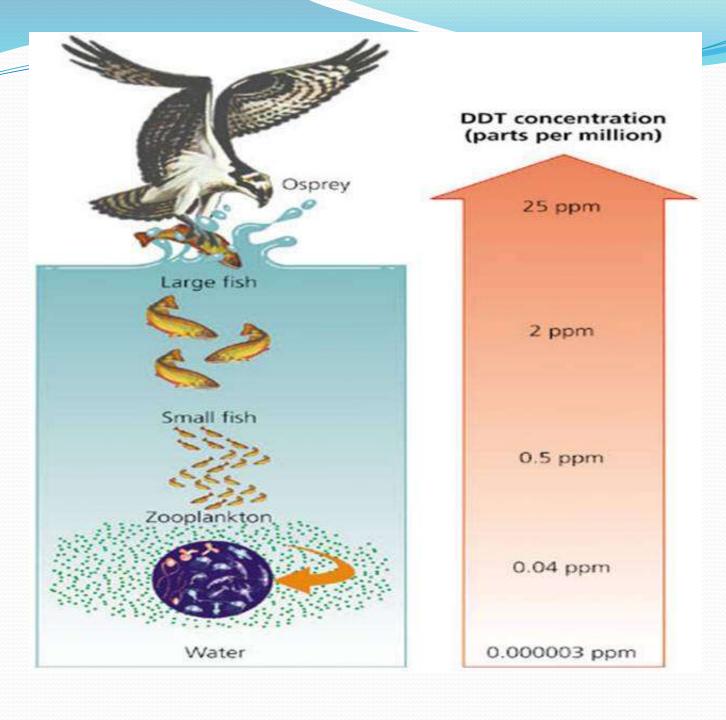
#### World distribution of malaria deaths, early 19th century to 2010

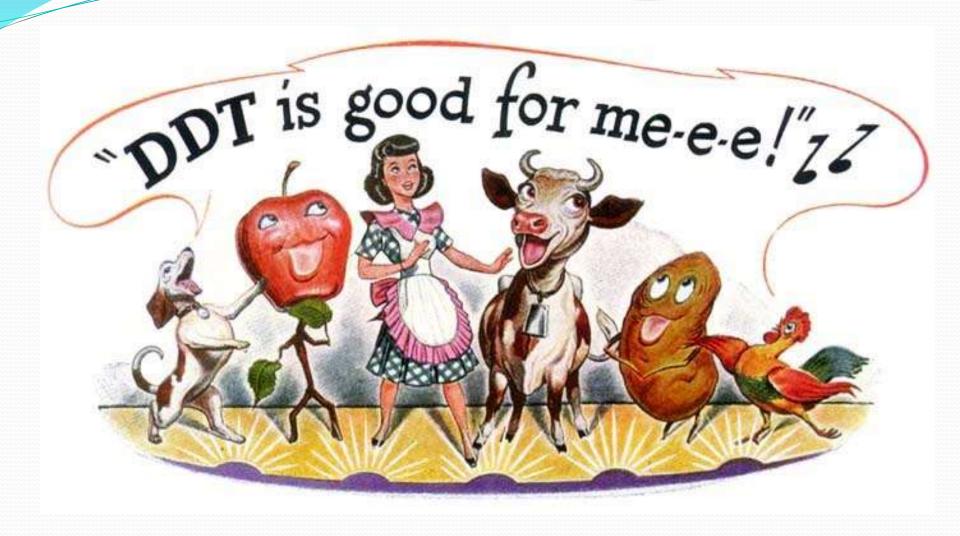






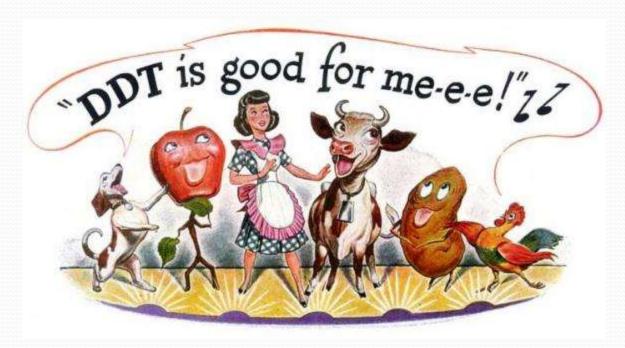
- Rachel Carson
   USFWS biologist
- Published in 1962
- Indictment of synthetic pesticide use
- Extremely popular and controversial





- Environmental concerns re: DDT use provided momentum for the environmental movement of the 1960s-70
- Banned in the USA in the 1970s
- Its ban was also blamed for the increase in human malaria throughout the world...including parts of the U.S.

Actual advertisement from the 1950s??



### FIFRA - 1947

"A bill requiring color in some poisons to lessen the chance of housewives putting bug poison instead of baking powder into their biscuits became law today. President Truman signed the measure....

New York Times on June 26, 1947.

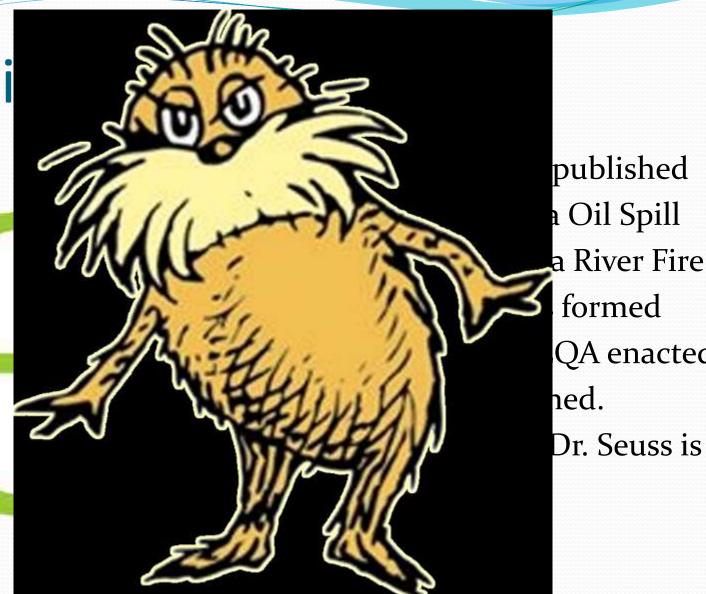


### **Timeline of Events**



- 1962 Silent Spring published
- 1969 Santa Barbara Oil Spill
- 1969 The Cuyahoga River Fire
- 1970 The USEPA is formed
- 1970 NEPA and CEQA enacted
- 1972 DDT use banned.
- 1971 The Lorax by Dr. Seuss is published.

Timeli

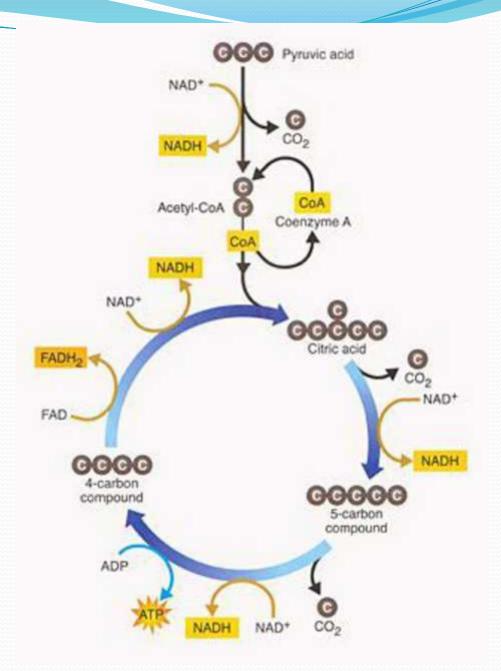


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It's a complicated affair...



#### **CEQA Process Flow Chart** - Not a Propert Public Agency determines whether the Public agency determines No possible egolitzant effect: Elektory someton. Categorical entradies Public agency evaluates project to determine if there is a prosability that the project may have a expellent effect on encourage. Pasable statificant No further action-Determination of local agency where more than one public agency is involved RESPONSIBLE AGENCY LEAD AGENCY Lead agency prepared initial shady Respond to inflying Committation Lead agency decision to propere EIR or Negative Declaration Paradice Debtsoboe Lead agency sonds Notice of Propulation to responsible agency Respond to Notice of Areparation as to conter of druft CRI Consultation Load agency files Notice of Correlation and gives public notice of availability of draft ER Lead agency gives public rector of analyticity of Negative Declaration Corpulistics Public Review Period\* Public Review Period". Lead agency property final ESR including responses to comments on draft ESR. Decision-making body considers final DRI or Negative Decisiosism prepared by tead opency: Considerance and approved of first EIR by Consideration and approval of dissister-making body Pinetings on feasibility of reducing or iding significant environmental effects Findings on fluwfolity of reducing or avoiding sanificant environmental effects Decision on permit Decision on propert State Assencies Local Agencies State Agencies Local Agencies File Nation of File Notice of File Notice of File Motion of Determination with Office of Planning Ontermination with Office of Plenning County Clork County Clerk 4 Research

## It's a complicated affair...

### Pesticide Registration examines...

- the ingredients of the pesticide
- the particular site or crop where it is to be used
- the amount, frequency, and timing of its use
- storage and disposal practices





### 1976 Attorney General's Opinion

- Roadside use of herbicides in Mendocino County
- County pesticide permits are subject to CEQA
- EIR would be required for restricted pesticide permits
- Counties issue tens of thousands of these permits annually



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# WAIT...IT GETS MORE COMPLICATED



- CEQA would have to be followed each time the state registers (approves) a pesticide product or use
- Approximately 11,000 registrations each year



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Back then, CDFA regulated pesticides. DPR didn't exist until '91,

### The Resolution?



- 1977: the CA Legislature puts a moratorium on CEQA requirements for CA pesticide regulatory program.
- CDFA creates a team to start researching a programmatic EIR.
- One year later... the team reports back... "It can't be done."
- 1978 AB 3765 is passed.

 "Preparation of environmental impact reports ... for pesticide permits would be an unreasonable and expensive burden on California agriculture and health protection agencies."

— 1978 legislation (AB 3765)

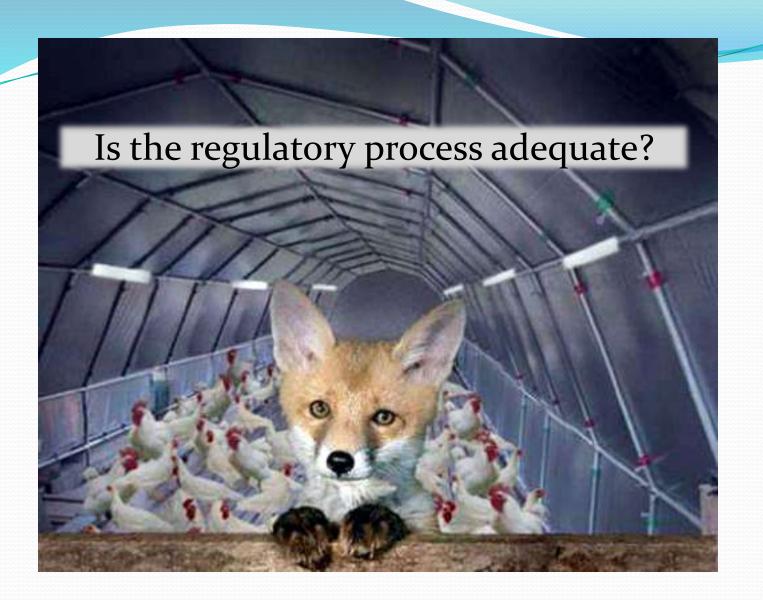


### Functional Equivalency

- CDFA reworked their pesticide regulatory program to provide a "functional equivalent" to CEQA.
- Expanded data review...and included other agencies.
- Included public notification/comment period for registration.
- Notice of Intent requirement for restricted pesticides.
- A requirement for consideration of "feasible alternatives and mitigation measures" to pesticide use.
- Created the Pesticide Registration and Evaluation Committee.

### The Current State of Affairs

- DPR's Program has CEQA Equivalency
- Other public agencies pesticide use programs are not automatically CEQA equivalent.
  - EIRs
  - Negative Declarations
  - Notice of Exemption (Statutory or Categorical Exempt)
- Private entities using pesticides are not subject to CEQA unless gov't funded or permitted.



### Is the process adequate?

- NPDES Aquatic Pesticide Permits
- Healthy Schools Act
- Legal Action by activist organizations
  - CBD
  - Pesticide Action Network
  - Earth Justice









Questions?