

US EPA ARCHIVE DOCUMENT

# Endangered Species update

Presented to the Pesticide Program Dialogue Committee

May 9, 2007

# Topics

- Litigation driven assessments
- Registration Review Program assessments
- Tool development
- Information management

# Litigation Driven Assessments

- August '06 - 7 aquatic species/atrazine
- August '06 - Barton springs salamander/atrazine
- March '07 - 8 mussels/atrazine
- May '07 - Barton springs salamander/metolachlor
- May '07 - Barton springs salamander/diazinon

# 7 aquatic species/ atrazine

Potential for Atrazine Use in the Chesapeake Bay Watershed to Affect Six Federally Listed Endangered Species: Shortnose Sturgeon (*Acipenser brevirostrum*); Dwarf Wedgemussel (*Alasmidonta heterodon*); Loggerhead Turtle (*Caretta caretta*); Kemp's Ridley Turtle (*Lepidochelys kempi*); Leatherback Turtle (*Dermochelys coriacea*); and Green Turtle (*Chelonia mydas*)

Pesticide Effects Determination

Environmental Fate and Effects Division  
Office of Pesticide Programs  
Washington, D.C. 20460

August 31, 2006

(March 14, 2007 – amended during informal consultation with U.S. Fish and Wildlife Service and National Marine Fisheries Service)

- Not likely to adversely affect the species from use in the Chesapeake Bay and Alabama River watersheds
- Currently engaged in Informal Consultation with NMFS and FWS

# Barton springs salamander/ atrazine

**Risks of Atrazine Use to Federally Listed  
Endangered Barton Springs Salamanders**  
*(Eurycea sosorum)*

**Pesticide Effects Determination**

**Environmental Fate and Effects Division  
Office of Pesticide Programs  
Washington, D.C. 20460**

**August 22, 2006**

- **Not likely to adversely affect**
- **Currently in Informal Consultation with FWS**

# 8 mussel species/ atrazine



## Risks of Atrazine Use to Eight Federally Listed Endangered Freshwater Mussels:

Pink Mucket Pearly (*Lampsilis abrupta*),  
Rough Pigtoe (*Pleurobema plenum*),  
Shiny Pigtoe Pearly (*Fusconaia edgariana*),  
Fine-rayed Pigtoe (*Fusconaia cuneolus*),  
Heavy Pigtoe (*Pleurobema taitianum*),  
Ovate Clubshell (*Pleurobema perovatum*),  
Southern Clubshell (*Pleurobema decisum*), and  
Stirrup Shell (*Quadrula stapes*)

### Pesticide Effects Determination

Environmental Fate and Effects Division  
Office of Pesticide Programs  
Washington, D.C. 20460

February 28, 2007

- Adverse modification to critical habitat principle constituent elements
- Likely to adversely affect based on effects to aquatic plant community
- Currently engaged in Formal Consultation with FWS

## Barton springs salamander/ metolachlor

- Due to be completed May 14, 2007

## Barton springs salamander/ diazinon

- Due to be completed May 14, 2007



# Upcoming litigation assessments

- CA red-legged frog
  - 10 active ingredient effects determinations - July '07
  - 10 additional active ingredient effects determinations - October '07
- 6 aquatic species (fish and mussels)
  - Atrazine - August '07
- Barton springs salamander
  - Prometon, simazine and carbaryl - September '07

## CA red-legged frog – stipulated injunction

- Requires EPA to develop and distribute a bilingual (English and Spanish) brochure
- Enjoins, vacates and sets aside EPA's authorization of uses of the 66 pesticides in certain parts of 33 counties in California



Exposure to some pesticide products may harm frogs or their habitat

## LAS RANAS Y LOS PELIGROS DE LOS PESTICIDAS



La exposición a algunos pesticidas puede ocasionar daño a las ranas o a su hábitat

*For English, turn over*

El tribunal de distrito de EE.UU. para el Distrito Norte de California recientemente emitió una orden que requiere que EPA evalúe los efectos potenciales de 66 ingredientes activos de pesticidas en la rana pata roja de California. Adicionalmente, la orden requiere que EPA desarrolle este folleto para cumplir con varios requisitos de la orden del tribunal. EPA está ofreciendo este folleto a través de su sitio Web y distribuyéndolo por correo a ciertos aplicadores certificados en California y otras entidades dictaminadas por la tribunal.

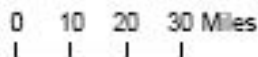
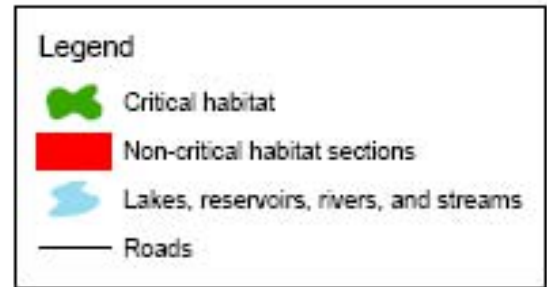
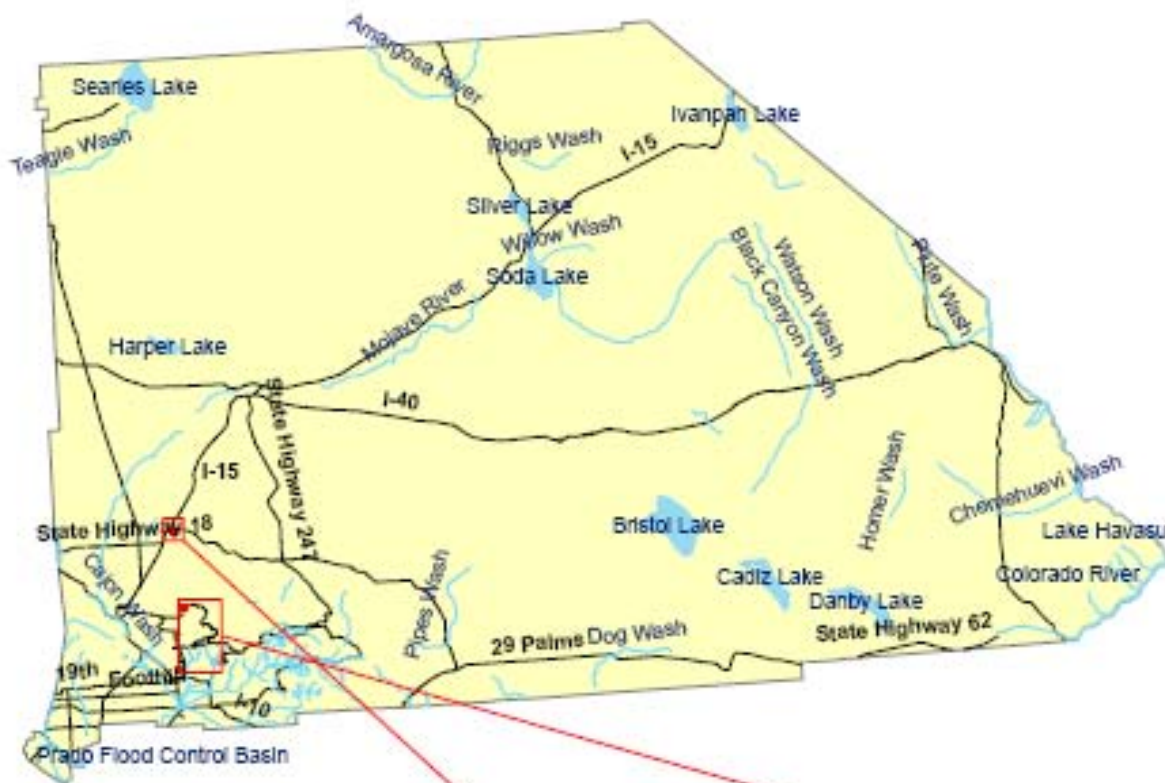
that allows them to live in and out of the water. Frogs, for example, start as tadpoles that live in water and then



# Information for Pesticide Users

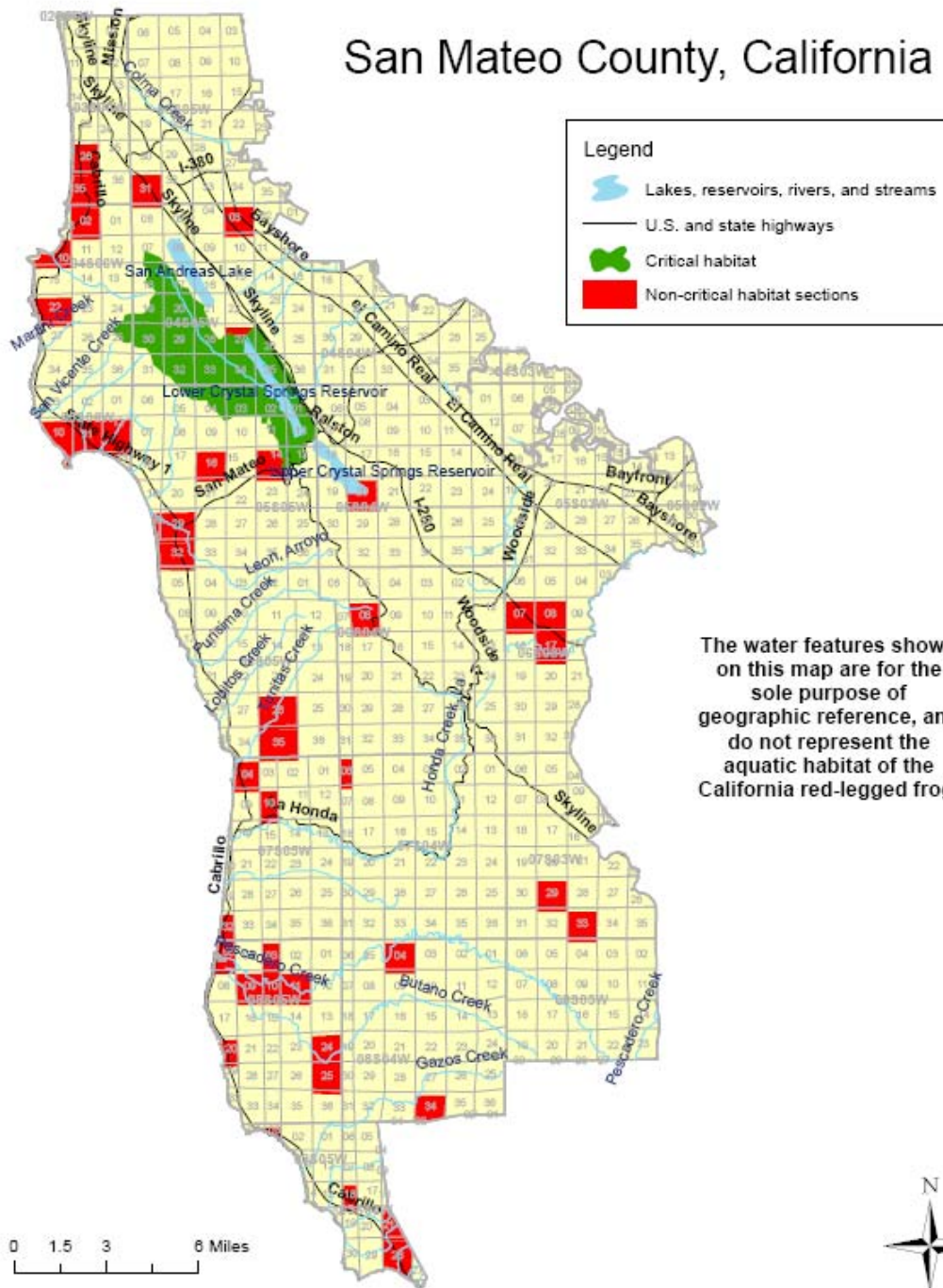
- **STEP 1 – ACTIVE INGREDIENTS SUBJECT TO THE INJUNCTION**
- **STEP 2 – GENERAL GEOGRAPHIC AREAS SUBJECT TO THE INJUNCTION**
- **STEP 3 – EXCEPTIONS TO THE INJUNCTION**
- **STEP 4 – DETERMINING WHETHER A SPECIFIC PROPOSED APPLICATION SITE IS SUBJECT TO THE INJUNCTION**
  - **Definitions**
    - **Aquatic breeding critical habitat.**
    - **Non-breeding aquatic critical habitat.**
    - **Upland critical habitat.**
    - **Aquatic features.**
    - **Upland habitats.**

# San Bernardino County, California



The water features shown on this map are for the sole purpose of geographic reference, and do not represent the aquatic habitat of the California red-legged frog.

# San Mateo County, California



The water features shown on this map are for the sole purpose of geographic reference, and do not represent the aquatic habitat of the California red-legged frog.

# Registration Review

- 12 Dockets opened to date
- Draft work plan
- Review of past assessments
- Considers data needs and assessment needs for ecological risk assessment including endangered species

# Tool Development - internal

- Geospatial Tools
  - Terrestrial Action Area Development tool (*available now*)
  - Use Site Development Tool (*late summer*)
    - Linked with NASS Census of Agriculture and NLCD 2001 to identify areas of potential agricultural use
  - Aquatic Action Area Development tool (*late summer / early fall*)
  - Spatial framework for PRZM/EXAMS (*TBD*)



# Information Management

- Data Repositories

- OPP / OEI collaboration on massive (~1TB) geospatial database to contain all OPP needs for geospatial data (*late summer*)
- Tracking System for endangered species actions, including status and timelines (TBD)
- Knowledge Repository to contain both documents used for endangered species assessments and discrete pieces of relevant information (TBD)

# Tool development - external

Endangered Species Protection Program | Pesticides | US EPA - Microsoft Internet Explorer

File Edit View Favorites Tools Help

U.S. Environmental Protection Agency

Species Protection Program

All EPA This Area Go Links

Environmental Effects

Government protects endangered species. Many species depend on the protection of the Endangered Species Act. The ESA reduces the "adverse impact" any listed species may have on the environment. Learn how the ESA is administered.

Endangered Species Protection Program (ESPP) helps promote the responsible use of pesticides. Pesticide use in certain areas can protect listed species in the environment. Learn more basic information.

Endangered Species Protection Program (ESPP) county or read the Bulletin.

ESPP - Learn how EPA develops and enforces pesticide regulations and specific regulations in your area.

ESPP - Read how EPA develops and enforces pesticide regulations in your area as a result of the Endangered Species Act.

Learn about types of the Endangered Species Act. Access EPA's Fact Sheet.

For Kids - Learn about endangered species and coloring book.

Arty Williams - S... Windows Media ... Endangered Spec...



## Pesticides: Endangered Species Protection Program

You are here: [EPA Home](#) [Pesticides](#) [Environmental Effects](#) [Endangered Species Protection Program](#) [Endangered Species Protection Bulletins](#)

### Endangered Species Protection Bulletins - DRAFT 09/28/06

**Endangered Species Protection Bulletins** are a part of EPA's Endangered Species Protection Program. Bulletins set forth geographically specific *pesticide use limitations* for the protection of endangered or threatened species and their designated critical habitat. You can obtain Bulletins using EPA's Bulletins Live! system.

If your pesticide label directs you to this Web site, you are required to follow the pesticide use limitations found in the Bulletin for your county, pesticide active ingredient and application month.

EPA's Bulletins contain the following information:

- Map of the county to which it applies
- Description of the species being protected
- Pesticide(s) of concern
- Pesticide use limitations
- Month for which the Bulletin is valid

The term "county" refers to counties, parishes and municipalities found within the United States and its territories.

#### Important notes

- Bulletins may be accessed up to six months prior to pesticide application. Be sure that you follow the correct Bulletin for the month of your pesticide application.
- When referenced on a pesticide label, Bulletins are enforceable use limitations under FIFRA.
- The pesticide use limitations found in *Bulletins Live!* are part of EPA's federal program to protect listed species. Your state may have pesticide use limitations beyond those found in your Bulletin. Bulletins are not intended to replace or override any restrictions that your state may impose. You need to be aware of and follow pesticide use limitations in your area by both the state AND federal EPA requirements.

Go to *Bulletins Live!*

**QUICK START:**

1. Click the *Bulletins Live!* link above to enter the system.
2. Select your state and county.
3. Select the month of pesticide application.
4. Follow the numbered steps found in the Bulletin.
5. To print your Bulletin, click the print button at the bottom of the Bulletin. This will open a print version (a PDF file) for you to print an official copy.

EPA recommends taking the **Tutorial** (6 pages, 431 kb, about PDF) for a demonstration of *Bulletins Live!* before using the system for the first time.



## Bulletins Live! Tutorial

**Bulletins Live!** is the web-based system to access **Endangered Species Protection Bulletins**. These Bulletins contain enforceable pesticide use limitations that are necessary to ensure a pesticide's use will not harm a species listed as Threatened or Endangered under the Endangered Species Act.

This Tutorial explains the steps to use *Bulletins Live!*

From the front page there are two ways to navigate to an Endangered Species Protection Bulletin

Protecting Endangered Species

Choose a state: [dropdown menu]

Choose a county: [dropdown menu]

Directions: To access your Endangered Species Protection Bulletin, either use the drop-down menu to select your state and county OR use the map to select the state you wish to view.

1 Click on a state or state abbreviation to advance to the list of counties in that state

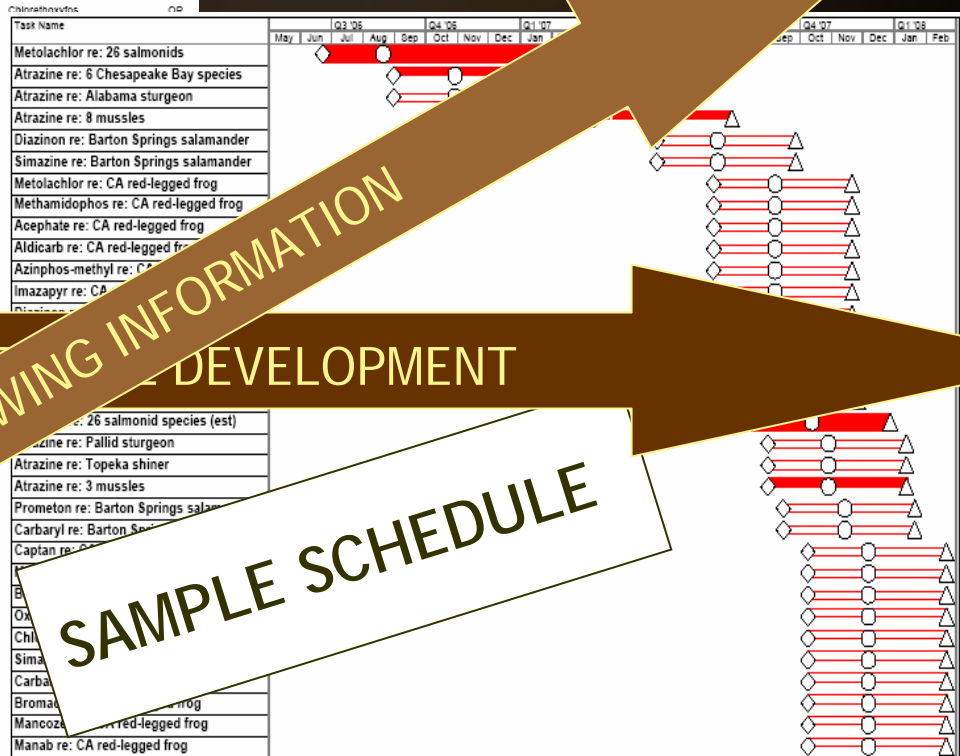
# Challenge

## EPA Office of Pesticide Programs: Registration Review Schedule Summary Planned Schedule for Opening Registration Review Dockets

	FY '07 Dockets	FY '08 Dockets	FY '09 Dockets
ALL PESTICIDES	25	45	46

### CONVENTIONAL PESTICIDES

FY '07 Dockets	FY '08 Dockets	OP	FY '09 Dockets
Fenarimol	Acephate	OP	Chlorpyrifos
Cyromazine	Methamidophos	OP	
Paclobutrazol	Microlophos	OP	
Fenoxycarb	Methyl-Parathion	OP	
Sulfosate	Diazinon	OP	
Clofazole	Oxydemeton-Methyl	OP	
Hexylthiazox	Bensulfide	OP	
Triflumizole	Temephos	OP	
Fenoxaprop	Phosalone	OP	
Lactofen	Profenofos	OP	
Sodium salt of fomesafen	Propetamphos	OP	
Urea, sulfate (1:1)	Quzualofop	OP	
Cyflotiazine	Cyanamide	OP	
Ethofenprox	Isoxaben	OP	
Pyridate	Sulfuramid	OP	
	Alette	OP	
	Quinclozac	OP	
	Sodium tetrathiocarbonate	OP	
	Sulfur	OP	
	Glufosinate	OP	
	Acetic acid, and salts	OP	
	Carbon and CO2	OP	
	Inorg. nitrate/nitrite	OP	



ASSESSMENT AND DEVELOPMENT

MANAGE GROWING INFORMATION

SAMPLE SCHEDULE

Category	FY '07 Dockets	FY '08 Dockets	FY '09 Dockets
Conventionals	10	30	30
Totals	10	30	30
<b>ANTIMICROBIALS</b>			
Benzenemethanaminium			
Busan 1024			
2,4-lmidazopyridin-5-yl			
Zinc			
3,5-dimethyl-4-hydroxybenzoic acid			
Inorg. halides			
Capric acid			
Mineral bases, strong			
OBPA			
Biobor (*)			
Biochemicals	4	8	5
Totals	4	8	5
<b>BIOCHEMICALS</b>			
Linalool			
Chitin			
Famesol & Nerolidol			
Liquid Nitrogen			
Thyme Herbs & Ground Sesame Plant			
L-Lactic acid			
Azadirachtin			
Dried blood			
Wood oils and gums			
Alonix			
Boll weevil attractants			
Garlic Oil			
Capsaicin			
Biochemicals	3	5	5
Totals	3	5	5
<b>MICROBIALS</b>			
Trichoderma species			
Pseudomonas syringae			
Pseudomonas fluorescens			
Bacillus subtilis			
Nosema locustae			
Streptomyces griseoviridis			
Metarrizium anisopliae			
Ampelomyces quisqualis			
Microbials	3	2	3
Totals	3	2	3