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The Burrowing Owl

Farm Bureau, July 28, 2014

Presented by

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Topics to be covered:

- California Department of Pesticide Regulation (DPR)
Endangered Species Program
- Prescribe Website
<http://www.cdpr.ca.gov/docs/endspec/prescint.htm>
- SGARs (Second-Generation Anticoagulant Rodenticides)
- Migratory Bird Treaty Act



Imperial County Agricultural Commissioner

DPR Endangered Species Program

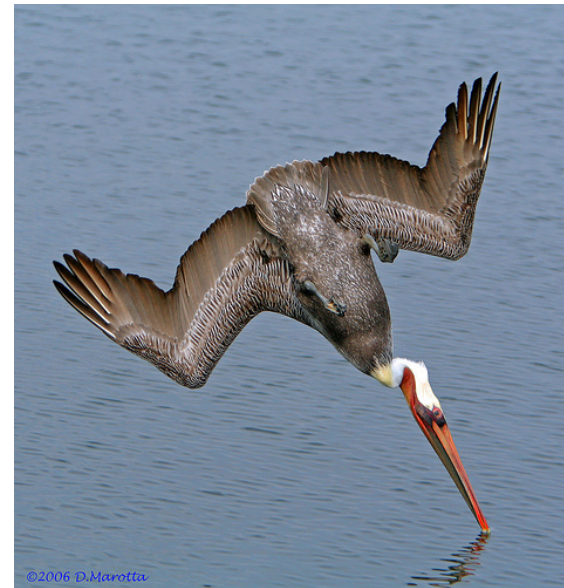
- For example, the use of pesticides such as DDT affected the peregrine falcon and the California brown pelican, causing them to produce thin-shelled eggs that would break during incubation.
- 
- A photograph of a peregrine falcon in flight against a clear blue sky. The bird is shown from a slightly low angle, with its wings spread wide, revealing the intricate patterns on its feathers. Its tail is also spread, showing a series of dark bars. The bird's head is turned slightly to the right, and its sharp beak is visible.
- The California Department of Pesticide Regulation's (DPR's) Endangered Species program's focus is to address any pesticide/endangered species issues resulting from the use of rodenticides, insecticides, herbicides, and fungicides.
 - The goal is for pesticides to be used carefully, to prevent affecting endangered species. To this end, DPR develops pesticide use limitations to prevent effects on endangered species or their habitat.



Imperial County Agricultural Commissioner

DPR Endangered Species Program

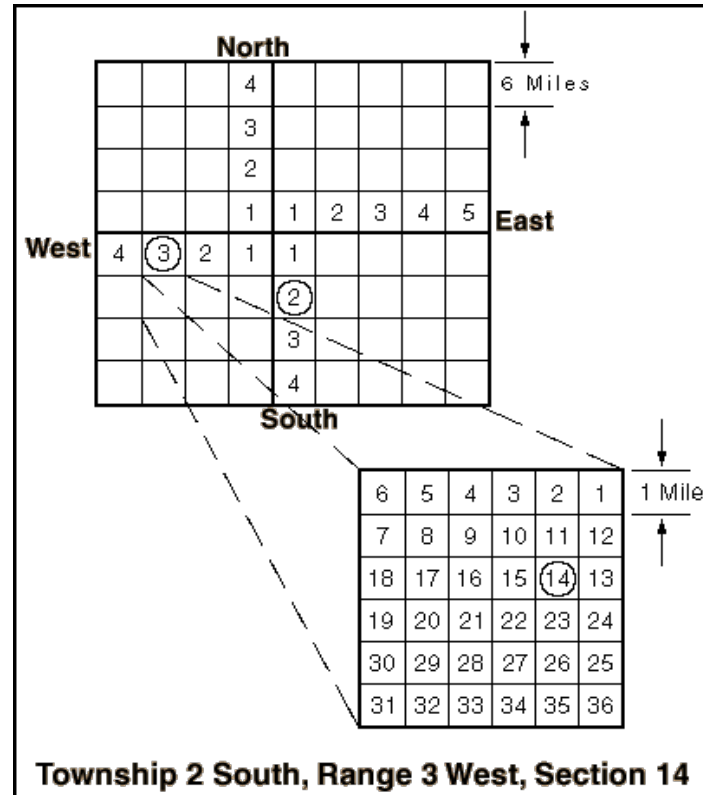
- Obtain locations of endangered species' habitats for use in PRESCRIBE.
- Maintain PRESCRIBE internet database for public queries.
- Public Education and training through continuing education courses.
- Publish educational materials for pesticide applicators to be made available online or distributed through County Agricultural Commissioners, PAPA, CAPCA, etc.





DPR Endangered Species Program

- Habitats are referenced by Township/Range/Section. In California, there are over 4,000 townships, each with 36 sections (square miles).





Imperial County Agricultural Commissioner

DPR Endangered Species Program

- P.R.E.S.C.R.I.B.E
Pesticide
Regulation
Endangered
Species
Custom
Real-time
Internet
Bulletin
Engine
- <http://www.cdpr.ca.gov/docs/es/prescint.htm>
(or just google "dpr prescribe")



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DATA SOURCE:

PRESCRIBE

Endangered Species Bulletin

Location

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CALIFORNIA PESTICIDE INFORMATION PORTAL (CALPIP)

Endangered Species Custom Bulletin

Select County

[About PRESCRIBE \(Endangered Species Bulletin\)](#)

[PRESCRIBE Mobile](#)

Step 1. Select County

To begin, select a county where your pesticide use will occur then click on the Select button.

Available Counties(58):

12 HUMBOLDT

13 IMPERIAL

14 INYO

15 KERN

16 KINGS

Select

Counties Selected (0):

Default:

All potential counties

Unselect

Unselect All

To continue, click on Next.

Next

Reset

Start Over

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PREScribe ▼

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CALIFORNIA PESTICIDE INFORMATION PORTAL (CALPIP)

Endangered Species Custom Bulletin

Select Township-Range-Section

Step 2: Choose one or more townships and sections; hold down the Ctrl key for multiple selections.

From available townships under the county(s) you've chosen, select the Township-Range blocks (COMTR), and then the associated Sections (COMTRS)

Available COMTR Township and Range under selected county(s) (132):

13 S09S09E
13 S09S10E
13 S09S11E
13 S09S12E
13 S09S13E

Select

Township(s) Selected

(1):
13 S13S09E

Unselect

Unselect All

Available COMTRS Sections within selected Township Range (36):

13 S13S09E 12
13 S13S09E 13
13 S13S09E 14
13 S13S09E 15
13 S13S09E 16

Select

Section(s) Selected (1):

13 S13S09E 16

Unselect

Unselect All

To continue, click Next.

Next

Reset

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CALIFORNIA PESTICIDE INFORMATION PORTAL (CALPIP)

Endangered Species Custom Bulletin

Select Zip Code

Choose zip codes from currently available zip within other locations selected.

Enter full or partial zip code to search: (Use '%' for wildcard between strings.)

[Search](#)

[List All Available](#)

Available Zip Codes

(1657):

92250
92249
92243
92242
92241

[Select](#)

Zip Code(s) Selected (1):

92243

[Unselect](#)

[Unselect All](#)

To continue selecting query criteria, click on another category in the navigation bar to the left.

[Next](#)

[Reset](#)

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CALIFORNIA PESTICIDE INFORMATION PORTAL (CALPIP)

Endangered Species Custom Bulletin

Select Township-Range-Section

Step 2: Choose one or more townships and sections; hold down the Ctrl key for multiple selections.

From available townships under the county(s) you've chosen, select the Township-Range blocks (COMTR), and then the associated Sections (COMTRS)

Available COMTR
Township and Range
under selected county(s)
(10):

13 S16S13E
13 S16S14E
13 S16S15E
13 S17S13E
13 S17S14E

Select

Township(s) Selected
(10):

13 S15S12E
13 S15S13E
13 S15S14E
13 S15S15E
13 S16S12E

Unselect

Unselect All

Available COMTRS
Sections within selected
Township-Range (170):

13 S16S15E 30
13 S17S13E 01
13 S17S13E 06
13 S17S14E 05
13 S17S14E 06

Select

Section(s) Selected
(170):

13 S15S12E 23
13 S15S12E 24
13 S15S12E 25
13 S15S12E 26
13 S15S12E 27

Unselect

Unselect All

To continue, click Next.

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CALIFORNIA PESTICIDE INFORMATION PORTAL (CALPIP)

Endangered Species Custom Bulletin

Species Located

Step 3. Non-target species in selected section(s) by status:

- [-> \[FE\] YUMA CLAPPER RAIL](#)
- [-> \[R\] BURROWING OWL](#)
- [-> \[R\] CALIFORNIA BLACK RAIL](#)
- [-> \[R\] CHAPARRAL SAND-VERBENA](#)
- [-> \[R\] MOUNTAIN PLOVER](#)
- [-> \[R\] SAND FOOD](#)

Species Status Key:

- [FE] = Federal Endangered
- [FT] = Federal Threatened
- [FPE] = Federal Proposed Endangered
- [FPT] = Federal Proposed Threatened
- [R] = Rare, Not Currently Listed

To continue, click Next to select the products that you intend to use.

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DPR Endangered Species Program

- PRESCRIBE also comes in a mobile version.
- <http://mobile.cdpr.ca.gov/prescribe>



SGAR: Newly Restricted Materials

- DPR recognizes mice and rats as a significant economic and health risk to people.
- The means to control mice and rats needs to be effective while maintaining the safety of humans, pets, and non-target wildlife.
- Three types of rodenticides are registered for use in California:
 - First generation anticoagulant rodenticides (chlorophacinone, diphacinone, and warfarin)
 - Second generation anticoagulant rodenticides (brodifacoum, bromadiolone, difenacoum, and difethialone)
 - Non-anticoagulant rodenticides (bromethalin, cholecalciferol, and zinc phosphide)



SGAR: Newly Restricted Materials

- Comparatively, SGARs are considered more effective:
 - Require only 1 feeding
 - No reported resistances
- SGARs have the same mechanism of action as 1st gen, but have a higher affinity for the target enzyme, the ability to disrupt the vitamin K(1)-epoxide cycle at more points, and significantly longer half-lives in the blood and liver.



SGAR: Newly Restricted Materials

- Along with their efficacy, these pesticides have much longer half-lives in target and non-target wildlife and are more toxic to birds and mammals.
 - 1st gen: hours to days
 - 2nd gen: days to months
- Longer half-lives results in higher incidence of secondary poisonings.
- DPR analyzed 492 animals between 1995 and 2011, and approximately 73% had residues of at least one SGAR.
- Animals that tested positive included bobcats, mountain lions, coyotes, foxes, skunks, hawks, crows, and owls.



SGAR: Newly Restricted Materials

- Effective beginning **July 1, 2014**.
- New restrictions apply only to second-generation anticoagulant rodenticides (SGARs) containing the active ingredients brodifacoum, bromadiolone, difenacoum, and difethialone.
- Any person who uses or purchases these products must be a *certified private applicator*, a *certified commercial applicator*, or be under the direct supervision of an individual possessing these certifications.
- SGAR products can only be purchased from a DPR-licensed pest control dealer.
- All certified applicators, except those certified by the Structural Pest Control Board, must obtain a restricted materials permit before the purchase or use of SGAR products.



SGAR: Newly Restricted Materials

- Under these changes, the DPR definition of “private applicator” has been extended to allow livestock, poultry, and fish producers the option of qualifying for private applicator certification should they decide to use a SGAR product to protect the production of their agricultural commodities.
- Growers who wish to use these restricted products beginning July 1, 2014 have the option to
 - Hire a pest control business licensed by DPR or the Structural Pest Control Board (or)
 - Become or employ a certified applicator.



Migratory Bird Treaty Act of 1918

- Established in 1918.
- Federal prohibition, unless permitted by regulations, to "pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to purchase, purchase, deliver for shipment, ship, cause to be shipped, deliver for transportation, transport, cause to be transported, carry, or cause to be carried by any means whatever, receive for shipment, transportation or carriage, or export, at any time, or in any manner, any migratory bird, included in the terms of this Convention . . . for the protection of migratory birds . . . or any part, nest, or egg of any such bird."