Protecting Endangered Species from Pesticides

Using Stewardship, Co-creation and Emergent Solutions



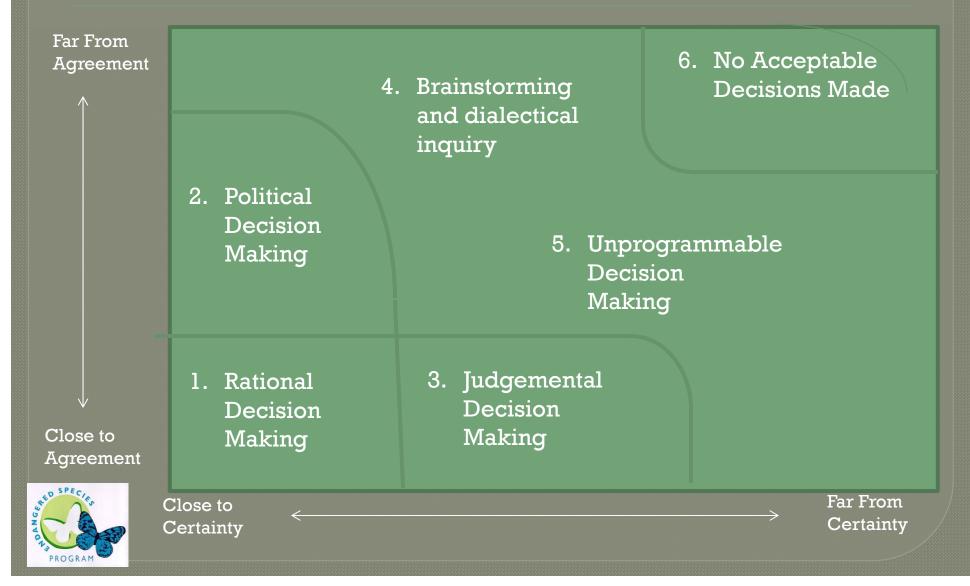
Rich Marovich Staff Environmental Scientist Endangered Species Program California Department of Pesticide Regulation (530) 902-1794

Three Levels of Complexity

Type of Complexity	Definition	Ordinary Approach for Simple Problems	Extraordinary Approach for Complex Problems
Social	Diverse perspective and interests	Experts and Authorities	Actors and stakeholders
Dynamic	Cause and effect are distant in time and space	Piece by piece	System as a whole
Generative	Future is unfamiliar and undetermined	Existing solutions	Emerging solutions
(Kahane, 2010)			

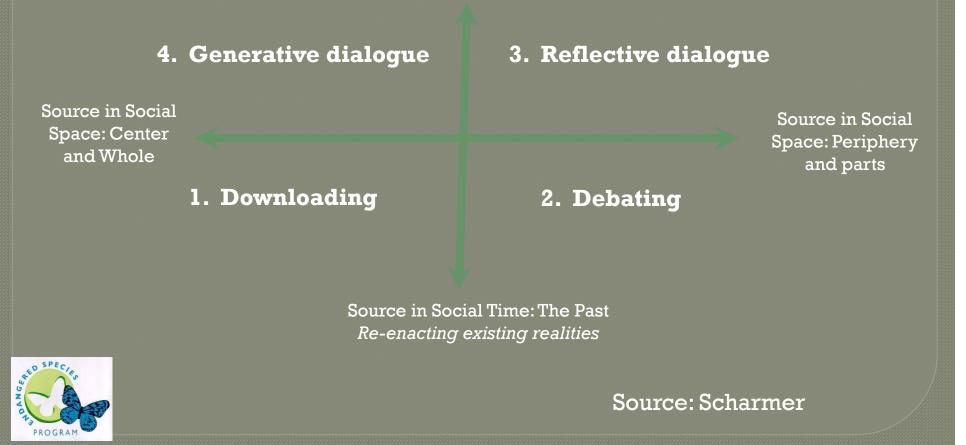
DANGER

Decision Making Styles Employed – Zones of Complexity



Four Ways of Talking and Listening

Source in Social Time: The Future Enacting emerging realities



A Socio-Ecological Problem

A human problem informed by science

- Too complex to be solved
- Cannot be formulated or tested for a true or false result
- Most of the relevant data is unknowable
- No right or wrong solution
- Situation can only be improved by good faith actions of stakeholders with diverse views enabling and empowering each other.



PRESCRIBE Mobile



PRESCRIBE

Pesticide Regulation



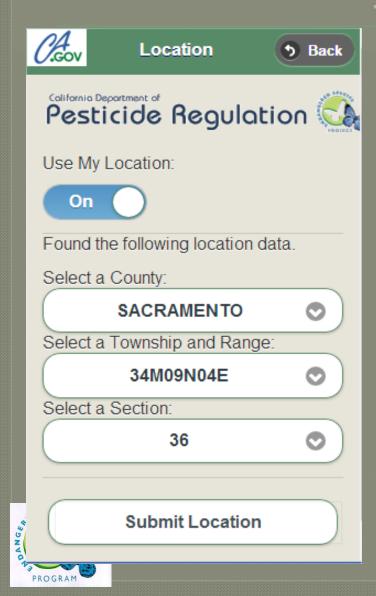
Identify limits on pesticides to protect endangered species.

Welcome to **PRESCRIBE**.

0	Location Search		
•	۵		
About	Help	Full Site	
PROGRAM			

PRESCRIBE is now available for mobile devices such as smart Phones, tablets, etc.

It can be accessed at: http://mobile.cdpr.ca.gov/prescribe



PRESCRIBE Mobile App

Location search <u>Use My Location</u>: Easy to use, particularly for those not familiar with the Township/Range/Section (TRS) coordinates system. The program finds the corresponding County and TRS coordinates based on where your mobile device is at that moment.

PRESCRIBE Mobile App

0.GOV

Product Search 5 Back

Pesticide Regulation

Location Parameters:

County: SACRAMENTO Township: 09N Range: 04E Section: 36

Enter Product Name Keyword or EPA Registration #:

Sawyer

DANGER

PROGRAM

Search

Product Search

- Type the product name or U.S. EPA Registration Number, then...
- Tap the "Search" button.

PRESCRIBE Mobile App

Products Back California Department of Pesticide Regulation 🔀 FAMILY SIZE SAWYER PREMIUM... Reg#: 1021-1600-ZA-58188 FAM FAMILY SIZE SAWYER SERIOUS Reg#: 1021-1600-ZC-58188 M INSECT REPELLENT BROAD SPECTRUM GOREADY INSECT REPELLENT ... Reg#: 54287-13-AA-84176 7 PLUS 5% MGK 264, 2.5% MGK 326 GOREADY INSECT REPELLENT

Product Results Screen

By tapping on a product's box, a "ticker" scrolls the full name of the product or EPA Registration Number.

By tapping in the middle of a product box we get to the full report.





Full Report 💿 Back

Pesticide Regulation

For the following location:

County: SACRAMENTO Township: 09N Range: 04E Section: 36

The following product has these use limits:

Product: SAWYER PERMETHRIN TICK REPELLENT

Active Ingredients

Use Limits: 10, 15, 16, 17

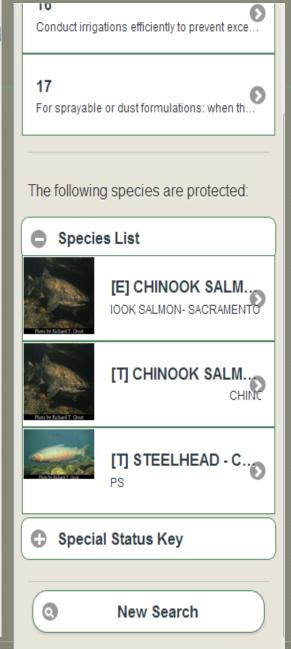
Use Limits Key

16

PROGRAM

10 Do not use in currently occupied habitat (se...

15 Provide a 20-foot minimum strip of vegetatio...



PRESCRIBE Mobile App

Full Report Screen

By tapping on each box, it can be expanded.



Species Detail

Back

Pesticide Regulation

STEELHEAD -CENTRAL VALLEY DPS



Scientific Name

ONCORHYNCHUS MYKISS IRIDEUS

Species Description

A genetically distinct and evolutionarily significant anadromous or freshwater fish related to rainbow and cutthroat trout



General Habitat Information

POPULATIONS IN THE

PRESCRIBE Mobile App

Species Details Screen

Any Questions?





http://www.cdpr.ca.gov/docs/endspec/index.htm