US ERA ARCHIVE DOCUMENT

# From Field to Faucet, Sacramento River Joint Source Water Protection

Western States Source Water and Ground Water Protection Forum

Presented by:

Belinda Arthurs, City of West Sacramento

Elissa Callman, City of Sacramento

# Acknowledgements

- Co-Presenter:
  - Dan Mount, City of West Sacramento
- Pesticides Advisor
  - Kelly Moran, TDC Environmental
- Source Water Protection Expert Support
  - Bonny Starr, Starr Consulting
- Sponsors:
  - **■** City of Sacramento
  - City of West Sacramento
  - City of Roseville
  - County of Sacramento, Dept. of Water Resources
  - East Bay Municipal Utility District
  - **Placer County Water Agency**



# Overview

- Introduction to the Joint Sacramento River Source Water Protection Program
- Rice Stewardship Program
  - Why did the program get started?
  - Program overview
- **Evolution of working relationship with rice industry**
- Changes that occurred as a result of relationship
- Lessons learned
- Q&A/Discussion

#### Sacramento River Watershed



# Source Water Protection Program Overview

#### **Proactive Program**

- Protection of high quality drinking water
- Good stewardship
- Stakeholder involvement
- **■** High consumer confidence

#### Program Activities Include:

- **■** Watershed Sanitary Surveys
- Rice Pesticide Stewardship Program
- **Pesticide Tracking Studies**
- Spill Notification Program
- Education and Training to Operations Staff
- Recreation Outreach





# Rice Stewardship Program Why did the program get started?

- Sacramento River Watershed Sanitary Survey Evaluation and findings
- Need for more information
  - Why increased detections of molinate and thiobencarb in the Sacramento River?
  - Could levels increase to exceed drinking water primary or secondary standards?
  - What may be causes of the observed increases?
  - Are there any Sacramento River water utilities' source water protection efforts that can help prevent levels of concern?

# Rice Pesticides Stewardship Program Overview

- What's the issue?
  - Significant amount of rice acreage
  - Direct application to flooded fields
  - Available pathways
  - Historical issues
  - Help prevent increased levels in the river
- Water Utilities Program
  - Stakeholder participation
  - **Special Data Collection at Intakes**
  - **■** Technical evaluations

# Evolution of Working Relationship How it Began

- Watershed Sanitary Survey findings
- Developing a better understanding of the issues
- Information Collection/Initial Meetings
  - California Rice Commission
  - **Department of Pesticides Regulation**
  - Regional Board staff
  - **■** County Agricultural Commissioners
- Developing water utility approach
  - Data collection/sharing
  - Stakeholder input
  - Maintain good working relationships whenever possible to support win/win solutions or best reasonable solutions – on paper and in field

# Gaining Understanding

- Coordination Meetings
- Rice Outreach Letter
- UC Rice Experiment Station Rice Field Day
  - **■** Information table
  - Attending/Talking with folks
  - **■** Gathering technical information
  - **■** Connection with UC Farm Advisor

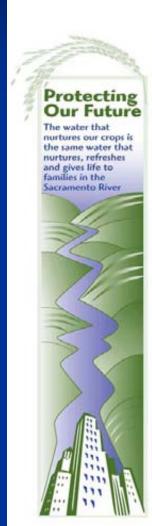
### **Common Ground**

- Stewardship ethic
- Monitoring Programs information sharing
  - **Rice Pesticide Program**
  - Valent's monitoring
  - Water Utilities special intake monitoring
- Operator to Operator Analogy
- Upstream/Downstream Neighbors

# **Communications Example**

- Outreach Letter
  - Goal
  - Initial best effort 2001
  - New improved version 2005
- Distribution
  - **CA Rice Commission**
  - Agricultural Commissioners
  - **UC Extension**

#### **Original Outreach Letter**



#### A message from your downstream neighbors...

s a rice grower, you are very aware of the important irole water plays in the cycle of life. Water is truly the primary constituent of life.

The Sacramento River is a com-

is bno bond and a vital resource for all of us living in its watershed. Your neighbors downstream, the City of Sacramento, City of West Sacramento. County of Sacramento, and East Bay Municipal Utility District, have many local water quality protection programs. It is also important for our neighbors upstream to do all they can to prevent rice pesticides from reaching the Sacramento River. primary sepange contained at I use, and to not allow seepings to show into waterways.



#### The Rice Pesticide

Program requires rice growers to comply with specific management practices. Adhering to these practices greatly benefits water quality in the Sacramento River watershed.

"We forget that the other cycle and the life cycle are one." Recent monitoring results show a trend of increased levels of Ordram,™ Bolerro,™ and Abolish™ in the Sacramento River where the Cities of Sacramento and West Sacramento draw drinking water. Although the

(continued on back)

detected levels do not yet exceed current health concern levels, we need to protect the public from the risk of exposure to pesticides and their breakdown products.

Bolero/Abolish<sup>1M</sup> breakdown products can impact the taste of our water supply, resulting in taste complaints from residents. Taste complaints are a signal that rice farming activities are impacting the quality of our drinking water. There are approximately 500,000 acres planted to rice annually in the Sacramento Valley. Our concern is the residual effects of non-extraction on the water quality of the Sacramento (Iwer

We appreciate the water quality protection efforts of the rice growers. We also appreciate the efforts of other organizations working to protect the water quality of the Sacramento River, including:

- County Agricultural Commissioners
- California Rice Commission
- ♦ Department of Pesticide Regulation
- Central Valley Regional Water Quality Control Board
- California Department of Health Services
- Department of Fish and Game
- USDA Farm Service Agency
- · Resource Conservation Districts
- University of California

Water is everyone's future. Let's all do what we can to protect if

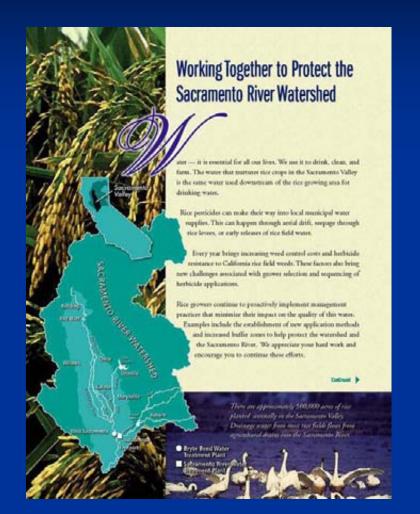








#### **New and Improved**





#### From your field to the Sacramento River Watershed...

The water used in your field drains to the Sacramento River. The people who live dominatean greatly appreciate the accomplishments and offices of the rice industry. We also understand that environmental preservation does not test with your efforts alone.

We work closely within our urban communities on local stewardship efforts that include the Witer Wire Past Central Program, the Clear Witer Business Pastner Program, the Keep Our Witer Guive campaign.
Our Witer Our Wirdd, and workshope on Developer / Contractor Best Management Practice.

As people who utilize and love the rivers and waters of the Sacramento Valley, we thank you and ask that you continue your work to help make our waterways clean and safe.

#### No and Water Facts:

- . Rice is the staple diet of buff the world's population it is traly a universal fixed,
- . The Secrements River provides two-thirds of the state's drinking mater.
- . Rise farming has been traced book to around \$,000 E.C.
- . The Separated River supports a multibilities delice agriculture industry.
- In Gilleria, rise aroudy provides more than SSH million in revenue and than ands
  of vital jobs to Gilleria.
- The Socraments River numbershed is more than 27,000 square order, and is one of the largest in the Seited States.

Noticel or recycled pages, Each last of recycled pages name 7,000 gallors of water.

We value the effects of the growers to protect water quality. We also with to think

- -California Rice Commission -County Agriculture: Commissioner
- Department of Poststile Regulation Control No long Regions Window Quality Control Record
- Collecte Department of Health Services
- -Department of This and Game
- 050k fam Sevice Agency
- Grinnity of California











### Case Study – Thiobencarb Ultramax

- Technical Issue
- Doing our research
- Working Relationships
- Positive Solution

# Changes that Occurred as a Result of Working Relationship

- Reduced thiobencarb detections in the Sacramento River from 2003-2007
- Better mutual understanding of water utilities and rice industry issues and concerns
- Improved information sharing by rice industry with water utilities
- Routes of communications
- Opportunity for water utility input directly to rice industry, so industry group can obtain credit if they agree with our suggestions or requests
- Recognition to rice industry for having positive working relationship with water utilities

### Lessons Learned

- What does a working relationship look like?
- Relationship building takes time
- Gaining mutual understanding
- Different styles of communication
  - Sensitivities/Importance of word choices
- Positive strokes/show support for good stewardship and environmental protection initiative
- Stakeholder approach provides best opportunity to encourage information sharing, industry participation/ownership, and positive results

### **Questions/Contact Information**

- Belinda Arthurs, City of West Sacramento
  - belindaa@cityofwestsacramento.org
  - **(916) 617-4872**
- Elissa Callman, City of Sacramento Utilities
  - ecallman@cityofsacramento.org
  - **(916) 808-1424**