

# INVASIVE SPECIES IN CALIFORNIA

## Tribal & California Department of Food and Agriculture (CDFA) Response



Dr. Robert Leavitt

Director, Plant Division

CA Department of Food and Agriculture

# **TOPICS COVERED TODAY**

---

**ROLE OF CDFA IN GOVERNMENT  
& INVASIVE SPECIES**

**INVASIVE SPECIES COUNCIL OF CALIFORNIA**

**RECENT CA INVASIVE SPECIES UPDATES**

**CDFA/TRIBAL COOPERATION**

# CA DEPARTMENT OF FOOD AND AGRICULTURE

- ✘ CDFA is an independent agency, reporting directly to the Governor with its own Secretary, Undersecretary, and Deputy Secretaries.
- ✘ CDFA as an agency is a member of the Governor's Cabinet.



CALIFORNIA DEPARTMENT OF  
FOOD & AGRICULTURE

*“The Department shall prevent the introduction and spread of injurious insects or animal pests, plant diseases, and noxious weeds”*

*-Section 403 of the California Food and Agriculture Code*

- ✘ CDFA administers and operates a Pest Prevention system with five major components, including pest exclusion, pest detection, pest eradication, public information and education, and pest identification and records.

# INVASIVE SPECIES COUNCIL OF CALIFORNIA (ISCC)

- ✘ California Invasive Species Advisory Committee (CISAC)



Business, Transportation & Housing Agency



## **DR. ROBERT LEAVITT**

- ✘ Director, CDFA Plant Division
- ✘ CISAC Executive Director

## **DAVID PEGOS**

- ✘ Special Assistant, CDFA Plant Division
- ✘ ISCC Liaison

## **AUSTIN WEBSTER**

- ✘ Outreach Coordinator, CDFA Plant Division
- ✘ ISCC/CISAC Staff Assistant

# THE BIG PICTURE

---

## Many Agencies Involved with Invasive Species

Bay Conservation & Development Commission

California Tahoe Conservancy

Central Coast RWQCB

Central Valley RWQCB

Coastal Commission

Delta Protection Commission

Dept. of Boating & Waterways

Dept. of Conservation

    Div. of Land Resource Protection

Dept. of Fish & Game

Dept. of Food & Agriculture

Dept. of Forestry & Fire Protection

Dept. of Parks & Recreation

Dept. of Pesticide Regulation

Dept. of Transportation

Dept. of Toxic Substance Control

Dept. of Water Resources

Lahontan RWQCB

Los Angeles RWQCB

North Coast RWQCB

Office of Environmental Health Hazard  
    Assessment

San Diego RWQCB

San Francisco Bay RWQCB

San Gabriel & Lower Los Angeles Rivers  
    & Mountains Conservancy

Santa Ana RWQCB

Santa Monica Bay Restoration Commission

Santa Monica Mountains Conservancy

Sierra Nevada Conservancy

State Coastal Conservancy

State Lands Commission

State Water Resources Control Board

Wildlife Conservation Board

**ISCC BY-LAWS**

**CISAC CHARTER**

**NOMINATION PROCESS FOR  
CISAC MEMBERS**

**Council**

**Advisory  
Committee**

**Working Groups**

# **ISCC BY-LAWS**

# COUNCIL MEMBERS

---

- ✘ Secretaries of the following state agencies:
  - + Department of Food & Agriculture (chair)
  - + Natural Resources Agency (vice chair)
  - + Environmental Protection Agency
  - + Business, Transportation & Housing Agency\*
  - + Health & Human Services Agency
  - + Emergency Management Agency

\*Now Two Separate Agencies:

Business, Consumer Services, & Housing Agency

Transportation Agency

# A COORDINATED APPROACH

- ✘ The Invasive Species Council represents the highest level of leadership and authority in state government regarding invasive species.



# COUNCIL'S PURPOSE

---

- ✘ Coordinated, comprehensive effort to:
  - + Exclude invasive species from California
  - + Eliminate, reduce or mitigate impacts of invasive species already established in the state
- ✘ Address non-native organisms which cause economic or environmental harm.

# DUTIES OF COUNCIL AGENCIES

---

- ✘ Identify actions involving invasives
- ✘ Use programs and authorities to:
  - + Prevent introduction of invasives
  - + Detect and respond
  - + Monitor invasive populations
  - + Restore native species in invaded ecosystems
  - + Conduct research/develop new technologies
  - + Promote public education about invasives

# COUNCIL COMMITMENTS

---

- ✘ Developed a list of invasive species that have a reasonable likelihood of entering California
- ✘ Strategic Framework
  - + Goals, objectives, metrics for state agencies acting on invasive species
  - + Review of existing/prospective approaches, authorities; may recommend changes in laws
  - + To be developed through a public process

# **ADVISORY COMMITTEE CHARTER**

# ADVISORY COMMITTEE

---

- ✘ California Invasive Species Advisory Committee (CISAC)
- ✘ 24 members
- ✘ Broad range of background/experience
- ✘ May convene working groups or subgroups

# **INVASIVE SPECIES UPDATES**

## EUROPEAN GRAPEVINE MOTH (EGVM), *Lobesia botrana*

- ✘ Between March 29<sup>th</sup> and July 2<sup>nd</sup> 40 EGVMs were trapped in **Napa County**. This pest is a serious threat to California's \$4 billion grape industry. Treatments with Bt, fruit removal, and mating disruption are underway. The area is under quarantine.



# GYPSY MOTH (GM), *Lymantria dispar*

- ✘ On July 8<sup>th</sup> and 9<sup>th</sup> two male GMs were trapped in the City of **Magalia (Butte County)**. This is a serious pest of forests. Molecular diagnostics confirmed that they were European GM, which is common in the northeastern U.S. Delimitation traps were placed in the area to determine the extent of any infestation, and have not trapped any additional moths. An egg mass survey will be conducted this fall.

# ASIAN CITRUS PSYLLID (ACP), *Diaphorina citri*

- ✘ Six ACPs were trapped near **Porterville (Tulare County)**. Eradication treatments will occur in an 800m radius around each find pending public meetings. The area will be quarantined.



# ORIENTAL FRUIT FLY (OFF), *Bactrocera dorsalis* complex

- ✘ Four male OFFs were trapped in the city of **Anaheim (Orange County)** between May 9<sup>th</sup> and July 8<sup>th</sup>. This is another highly invasive Tephritid fruit fly native to Southeast Asia and India that feeds on a wide variety of fruits and vegetables. An eradication program using the male attractant treatment (MAT) is underway.
- ✘ Three male OFF were trapped in the city of **Santa Ana (Orange County)** between May 30<sup>th</sup> and June 20<sup>th</sup>. An eradication program using the male attractant treatment (MAT) is underway.
- ✘ Four male OFFs were trapped in the cities of **Cerritos and Artesia (Los Angeles County)** between July 9<sup>th</sup> and July 13<sup>th</sup>. An eradication program using the male attractant treatment (MAT) is underway.
- ✘ One male OFF was trapped in **Glendale (Los Angeles County)** on June 11<sup>th</sup>. Delimitation traps were placed in the area to determine the extent of any infestation, and have not trapped any additional flies.
- ✘ One male OFF was trapped in **Placentia (Orange County)** on July 17<sup>th</sup>. Delimitation traps were placed in the area to determine the extent of any infestation, and have not trapped any additional flies.

# GUAVA FRUIT FLY (GFF), *Bactrocera correcta*



- ✘ Three male GFFs were trapped in the city of **San Jose (Santa Clara County)** July 3<sup>rd</sup> and July 5<sup>th</sup>. This invasive species is native to southeast Asia and is a significant pest of a variety of fruit. An eradication program using the male attractant treatment (MAT) is underway.
- ✘ One male GFF was trapped in the city of **Cupertino (Santa Clara County)** on July 16<sup>th</sup>. Delimitation traps were placed in the area to determine the extent of any infestation, and have not trapped any additional flies.
- ✘ One male GFF was trapped in the city of **Garden Grove (Orange County)** on June 11<sup>th</sup>. Delimitation traps were placed in the area to determine the extent of any infestation, and have not trapped any additional flies.

# PEACH FRUIT FLY (PFF), *Bactrocera zonata*

- ✘ Between June 14<sup>th</sup> and July 11<sup>th</sup> three male PFFs were trapped in the cities of **Chino and Chino Hills in San Bernardino County**. This invasive species is native to Southeast Asia and India and is a significant pest of a wide variety of fruit and vegetables. An eradication project using the male attractant treatment (MAT) is underway.
- ✘ One male PFF was trapped in the city of **Fairfield (Solano County)** on July 3<sup>rd</sup>. Delimitation traps were placed in the area and have not trapped any additional flies.

# LIGHT BROWN APPLE MOTH (LBAM), *Epiphyas postvittana*

- ✘ From March 5 - July 9, 2013, 22 LBAM have been confirmed from the Oceanside area of San Diego County. Detections have resulted in the establishment of an 18 square mile regulated areas. Treatment for LBAM (pheromone twist ties) began in Oceanside on July 22, and a public meeting was held on July 16 to discuss treatments with growers, local residents and other interested parties. If no further moths are found, tentative end to regulatory action in Oceanside is January 22, 2014. Mating Disruption will be used in the form of twist ties.



# CDFA & TRIBAL COOPERATION

---

- ✘ California Department of Pesticide Regulation & County Agricultural Commissioner determine which materials to use.
- ✘ Consult with Federal Technical Working Group or State Scientific advisory panel made up of national & international experts to provide recommendations and guidance.
- ✘ CDFA utilizes IPM principles & always uses the softest tools at our disposal, including hand removal of host materials and organic applications.

# CDFA & TRIBAL COOPERATION

---

- ✘ Research is key to the development of new tools for responding to invasive species
- ✘ CDFA works closely with USDA, the primary contract for pest issues with tribes
- ✘ CDFA includes tribal lands on all its treatment and quarantine maps
- ✘ Tribes have an opportunity to apply for funding through the Specialty Crop Block Grant and the Farm Bill 10201, CDFA can assist with these applications.

# QUESTIONS