Sac-Yolo MVCD
Yolo Bypass Fishery Enhancement

Mosquito Control and BMPs

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Mosquito facts

- Over 3,500 mosquito species worldwide
- Over 50 mosquito species in California
- Between 20-25 mosquito species in Delta
- Each species has unique habitat requirements
Mosquito life cycle

- Egg
- Larva (4 stages)
- Pupa
- Adult
Mosquito Requirements

- Standing, or stagnant water
- In warm temperatures can complete metamorphous in 5 days
- Dense and / or dry vegetation provides harborage, and decreases mosquito control effectiveness
Mosquito Response Plan

Mosquito Districts follow general mosquito control guidelines

www.westnile.ca.gov
HSC § 2060.
(a) A district may abate a public nuisance pursuant to this article. 
(b) The person or agency claiming ownership, title, or right to property or who controls the diversion, delivery, conveyance, or flow of water shall be responsible for the abatement of a public nuisance that is caused by, or as a result of, that property or the diversion, delivery, conveyance, or control of that water.
Mosquito Response Plan and Integrated Pest Management (IPM)

- Surveillance
- Public Education
- Physical Control (BMP’s)
- Biological Control
- Chemical Control
Surveillance

Larval Sampling

Trapping

Mosquito ID

Laboratory Testing
Public Education

Advertising
Community outreach
Press releases
Media
Physical Control

BMP Implementation

Source Reduction

Planning Review
Biological Control

Mosquitofish in permanent water sources
Larval Chemical Control

Aerial applications over larger areas

Backpack or ground applications on smaller areas
Adulticide Chemical Control

Truck Mounted ULV
Fixed Wing Airplane ULV
ATV ULV
Backpack ULV
Barrier Sprays
Mosquito Reducing Best Management Practices (BMPs)

A set of guidelines designed to assist property owners with minimizing or reducing mosquito breeding
Successful BMP Principles

- Provide deep open water
- Provide quick and complete dewatering
- Prevent flooding for longer than 7 days during warm weather months
- Landowner communication
- Annual routine maintenance
Delta Protection Commission

- DPC Developed Land Use and Resource Management Plan for the Primary Zone of the Delta
- Developed 10 Policies under Natural Resources
- Policy P-10 outlines mosquito control BMPs, which should be included in any long term management plan within the Delta as an integrated portion of the BDCP.
“Ensure that the design, construction, and management of any flooding program to provide seasonal wildlife and aquatic habitat on agricultural lands, duck club lands and additional seasonal and tidal wetlands, shall incorporate “BMPs” to minimize vectors including mosquito breeding opportunities, and shall be coordinated with the local vector control districts.”
Questions

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