

Sac-Yolo MVCD Yolo Bypass Fishery Enhancement



Mosquito Control and BMPs

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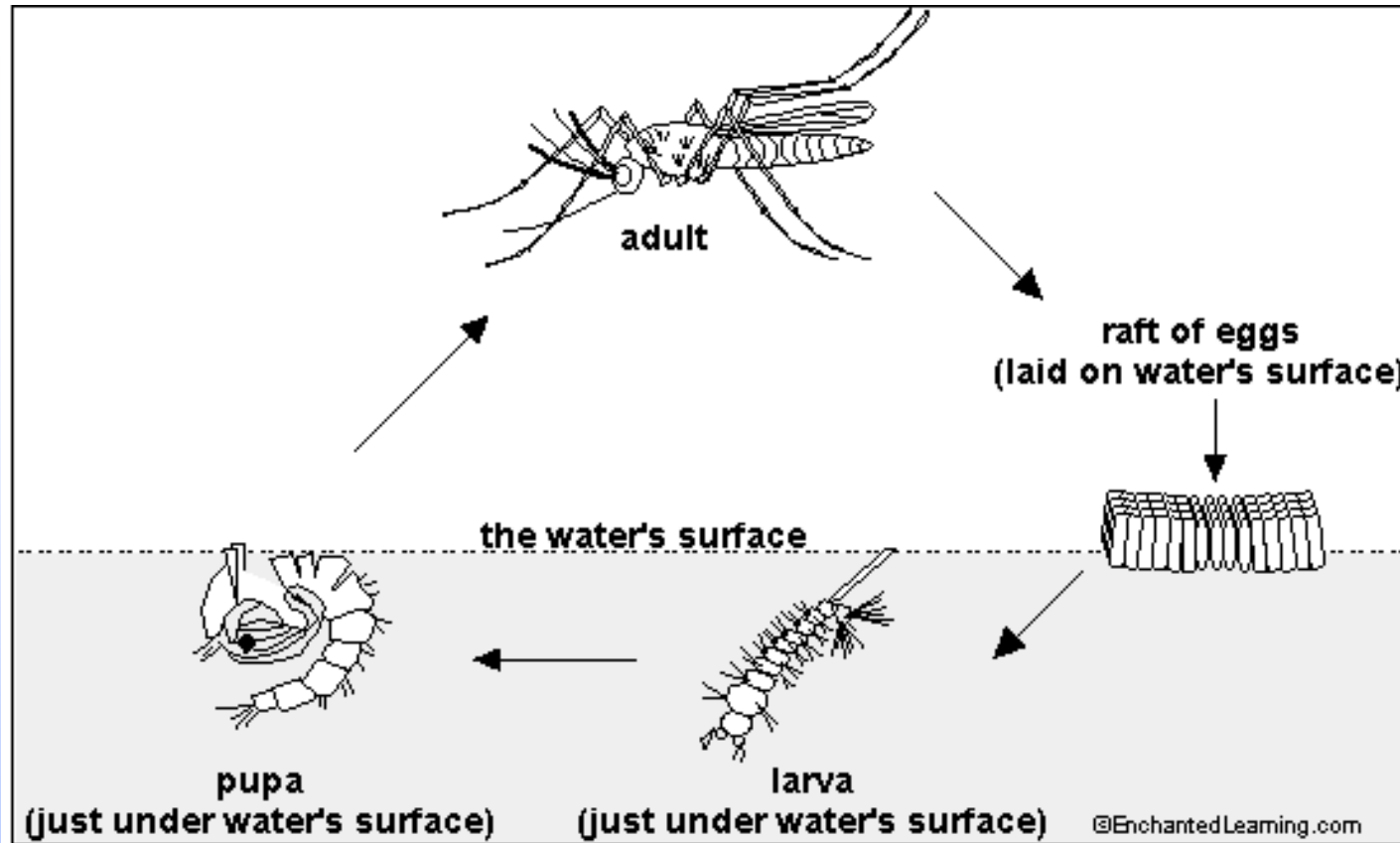


Mosquito facts

- 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



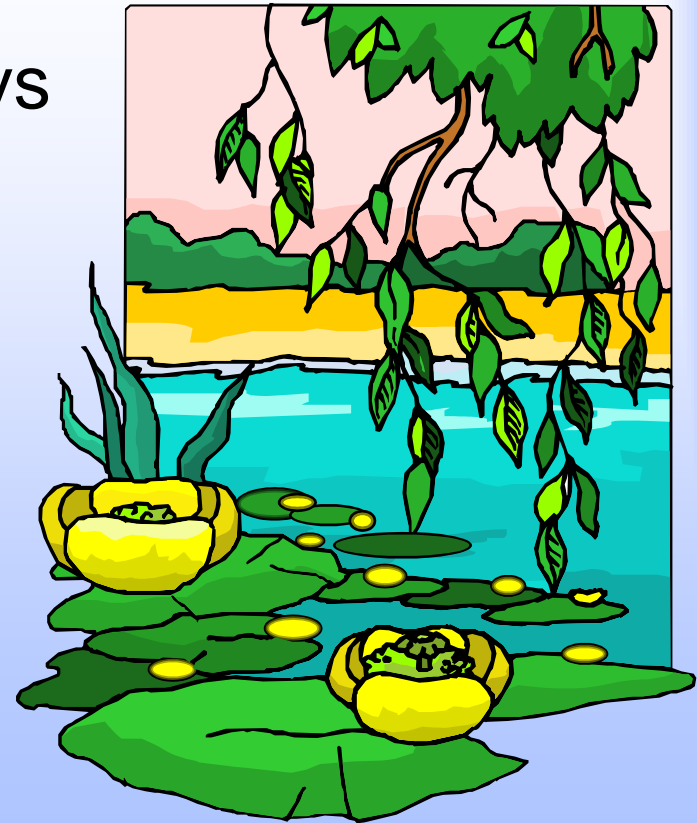
Mosquito life cycle



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

**CALIFORNIA
MOSQUITO-BORNE VIRUS
SURVEILLANCE
&
RESPONSE PLAN**

Edmund G. Brown Jr., Governor



California Department of Public Health
Mosquito & Vector Control Association of California
University of California

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For further information contact:
Vector-Borne Disease Section
California Department of Public Health
(916) 552-9730
<http://westnile.ca.gov>

Mosquito Districts
follow general
mosquito control
guidelines

www.westnile.ca.gov

Ca Health and Safety Code

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

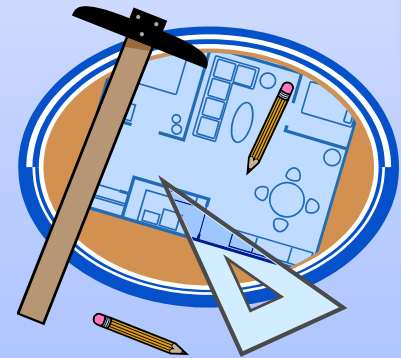
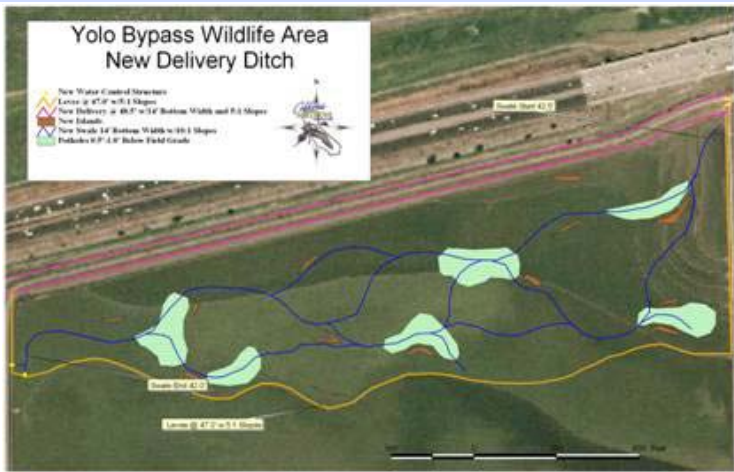


Physical Control

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



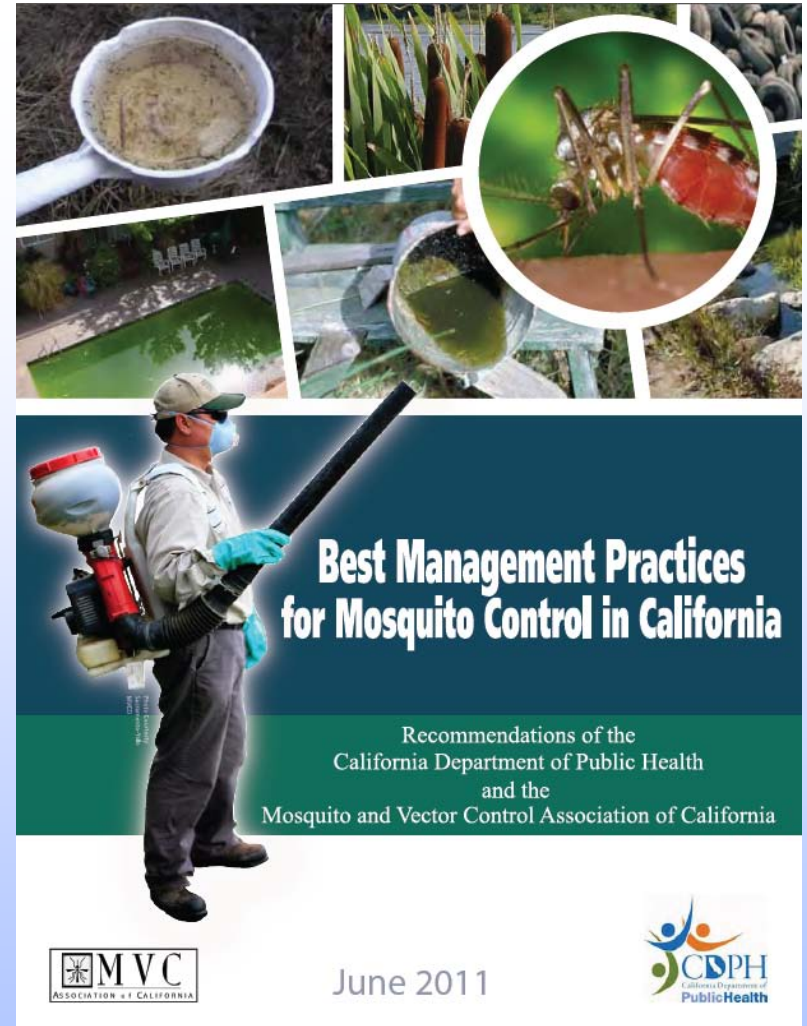
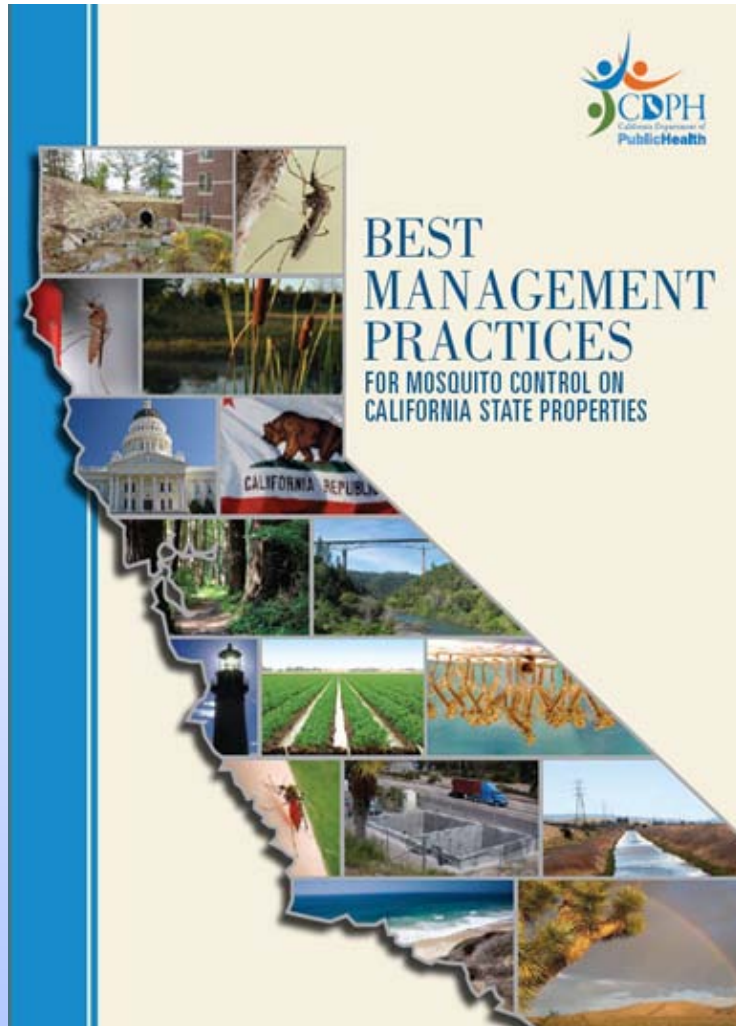
Mosquito Reducing Best Management Practices(BMPs)



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



Ca Statewide BMP Manuals



www.westnile.ca.gov

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.



DPC, Natural Resources

P-10:

“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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