

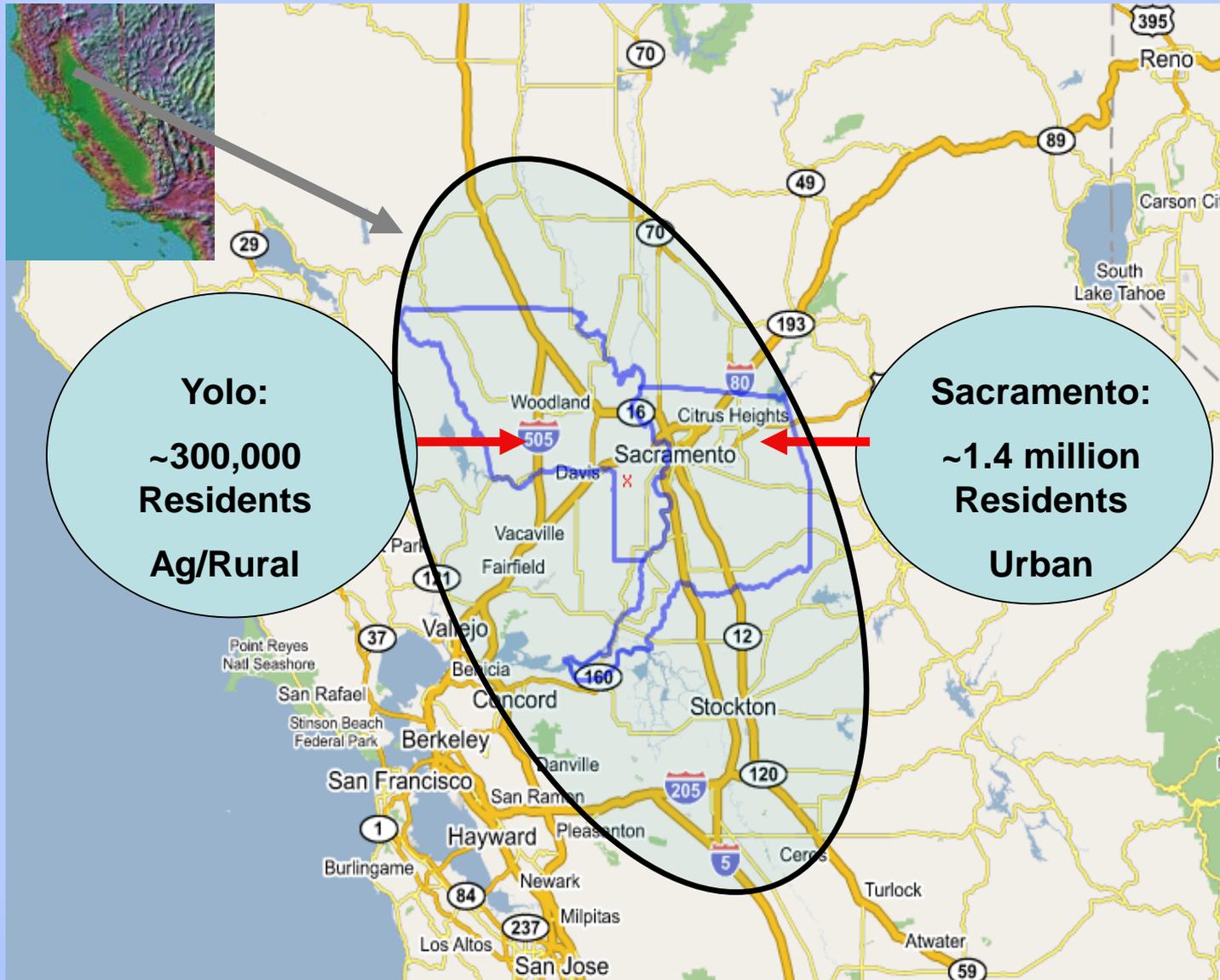
# Mosquito Control Matters

## **FIGHT THE BITE**

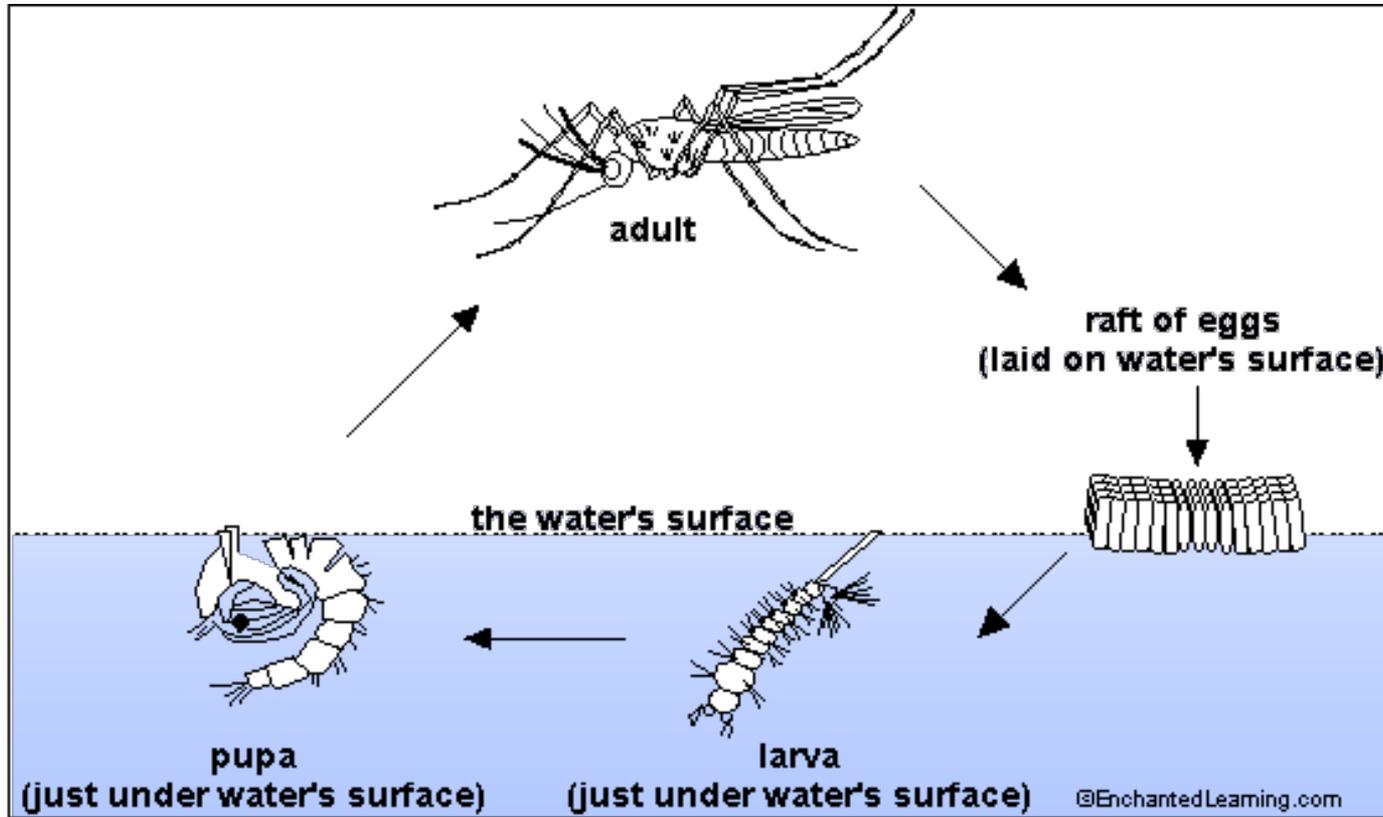
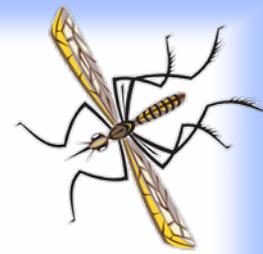
**Current Issues and Challenges Related  
to Mosquito Control**

**Gary Goodman  
District Manager**

# Sacramento and Yolo Counties

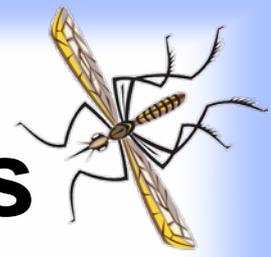


# Mosquito Life Cycle

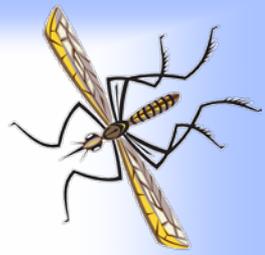


egg → larva → pupa → adult

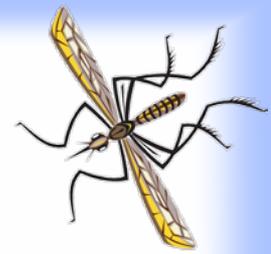
# Mosquito Habitat – Ag Areas



# Natural Sources



# Backyard Sources



# Water management is **KEY**



Managed Water = fewer mosquitoes

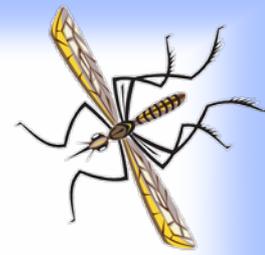
Only irrigate lawn- NOT sidewalk/gutter

Recycle green waste- DON'T dump in the street!

Check yard once a week!

- Empty any stagnant water from buckets, containers, bird baths, pet dishes
- Recycle fountains
- Call District for free mosquitofish

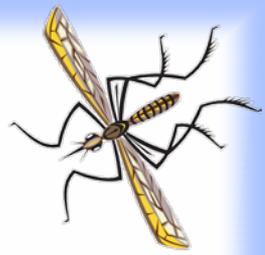
# Integrated Mosquito Management Measures



- Public Information
- Surveillance
- Biological Control
- Physical Control
- Control-Larvicide
- Control-Adulticide



# What Diseases Can Mosquitoes Carry?



## West Nile Virus

\*\* The most prevalent disease in the United States and permanently established in our area\*\*

Dengue Fever

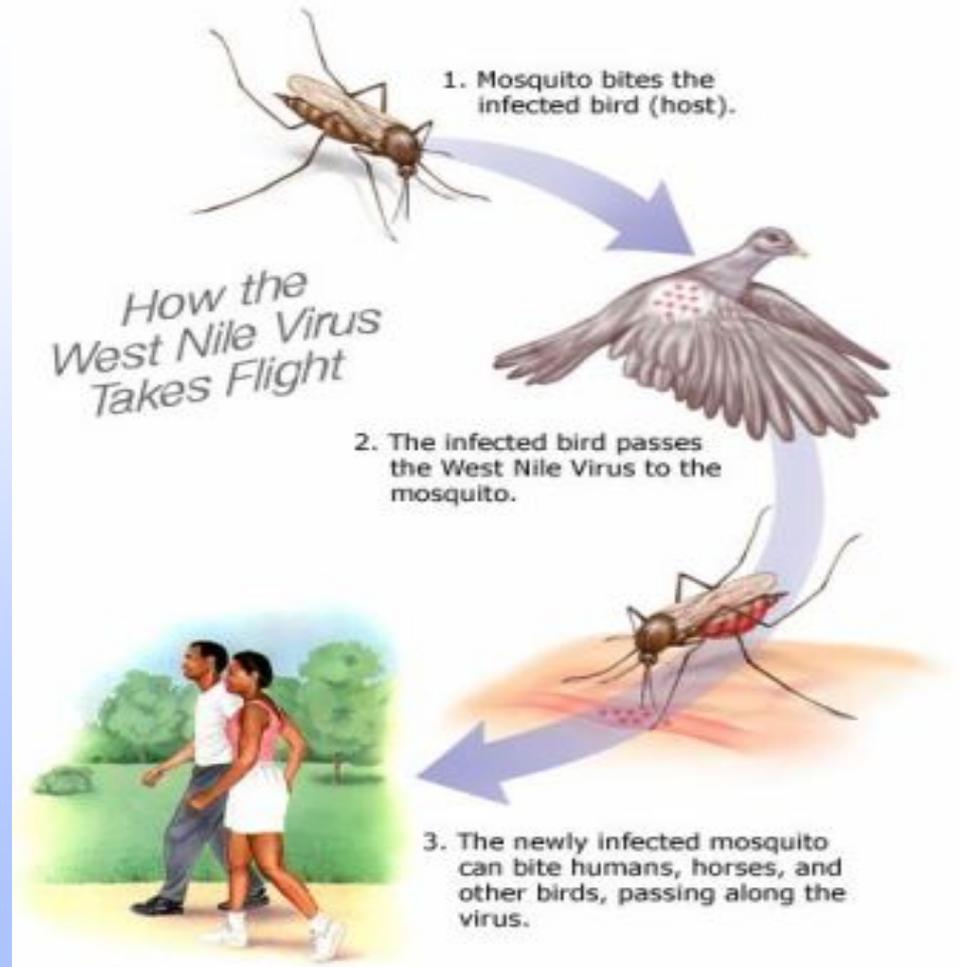
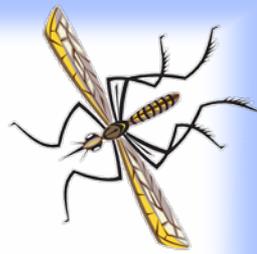
Malaria

Chikungunya

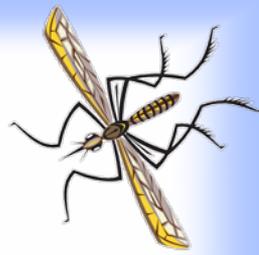
Zika virus

Dog Heartworm

# How Do Mosquitoes Get West Nile Virus?



# West Nile Virus Symptoms



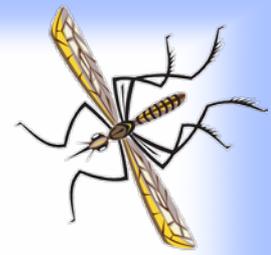
The majority of people will not have any symptoms. 1 in 5 people will develop West Nile virus fever which can include:

- Fever between 101°-106° degrees
- Headaches, body aches, fatigue
- Rash on your skin
- Possible pain around the eyes
- Possible swelling of the lymph nodes

Some people will develop the more severe neurologic form of the disease which can include encephalitis or meningitis. Recovery may take months and some neurologic effects may be permanent.

About 10 percent of people who develop neurologic infection due to West Nile virus will die.

# WNV Activity in California



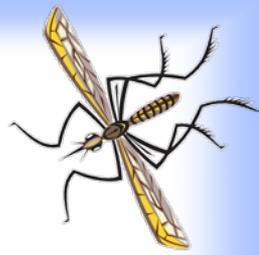
## Year                      Confirmed Human Cases

2015	783
2014	801
2013	372
2012	479
2011	158
2010	111
2009	112
2008	445
2007	380
2006	278
2005	880

2016

**WNV is extremely under reported. The Centers for Disease Control estimates that for every neuroinvasive case confirmed, there are approximately 30-70 cases that are not reported.**

# Invasive Mosquito Species



## Asian Tiger Mosquito (*Aedes albopictus*)

Aggressive Day Biter

Was first imported in a shipment of lucky bamboo plants and tire shipments

2011 was found in Southern California and is well established



## Yellow Fever Mosquito (*Aedes aegypti*)

Bites during the day

2013 was found in Madera/Fresno area and San Mateo County and is now found throughout the state

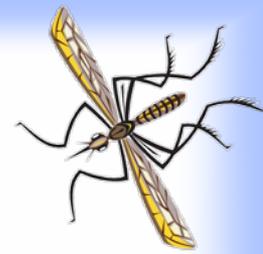
Eggs can stay dormant for months

Once established they are very difficult to eradicate



**\*\*Both mosquitoes are efficient vectors of Dengue, Chikungunya and Zika virus\*\***

# Zika Virus



- Detected in the Zika forest of Uganda in 1947. Prior to 2007, only sporadic cases were detected in Africa and Asia
- Transmitted through the bite of an infected *Aedes* mosquito. Mosquitoes become infected when they feed on a person already infected with the virus. Infected mosquitoes can then spread the disease to others through bites
- Can be passed from mother to child either at delivery or during pregnancy and may also be transmitted through sexual contact or a blood transfusion



*Aedes aegypti*



*Aedes albopictus*

**\*\*These invasive mosquito species have not been detected in Sacramento or Yolo counties\*\***



**Countries with active Zika virus transmission**

# Infection



- **About 1 in 5 people infected with Zika develop symptoms which include fever, rash, joint pain and red eyes. May include muscle pain and headache.**
- **Illness is generally mild with symptoms lasting for several days to a week.**
- **Currently no vaccine for Zika, treatment is supportive and includes medicine to reduce pain/fever, rest and fluids**



# Microcephaly

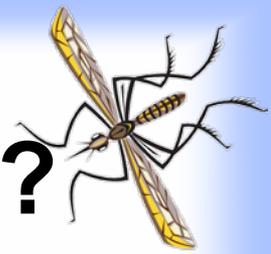


## Microcephaly in association with Zika:

- Microcephaly is a birth defect where a baby's head is much smaller than expected when compared to babies of the same sex and age
- Babies with microcephaly often have smaller brains that might not have developed properly, resulting in severe disability or even death
- Sharp increase in cases in Brazil where Zika outbreaks have occurred
- **Connection between Zika and microcephaly has not been absolutely confirmed, but evidence is mounting**



# Prevention: What Can You Do?



## Follow the District D's

**DRAIN** Standing Water

**DAWN** and **DUSK** Are Times To Avoid Being Outdoors

**DRESS** In Long Sleeves & Pants When Outside

**DEFEND** Yourself With An Effective Repellent

**DOORS** and Screens Should Be In Good Working Condition

**DISTRICT** Personnel Are Available To Help



# **Sacramento-Yolo Mosquito and Vector Control District**

**1-800-429-1022**

**[www.FIGHTtheBITE.net](http://www.FIGHTtheBITE.net)**

# Benefits of keeping hens

## Uncle Sam Expects You To Keep Hens and Raise Chickens



### Two Hens in the Back Yard for Each Person in the House Will Keep a Family In Fresh Eggs

**E**VEN the smallest back yard has room for a flock large enough to supply the house with eggs. The cost of maintaining such a flock is small. Table and kitchen waste provide much of the feed for the hens. They require little attention—only a few minutes a day.

An interested child, old enough to take a little responsibility, can care for a few fowls as well as a grown person.

Every back yard in the United States should contribute its share to a bumper crop of poultry and eggs in 1918.

**In Time of Peace a Profitable Recreation  
In Time of War a Patriotic Duty**

*For information about methods of Back-Yard Poultry Keeping suited to your location and conditions, write*

**Your State Agricultural College  
or  
The United States Department of Agriculture  
Washington, D. C.**

This Space Donated by the Publisher

# One hen can....



DE-BUG 120 SQ/FT A WEEK!



CONVERT 10 LBS OF FOOD "WASTE" INTO EGGS!



FERTILIZE A 50 SQ/FT GARDEN IN A MONTH!

## ONE CHICKEN



BREAK THE LIFE CYCLE OF PESTS AND DISEASE OF ONE FRUIT TREE WITHIN AN HOUR!



LEVEL A PILE OF LEAF MULCH IN 2 DAYS!



TILL 50 SQ/FT OF SOD IN 4-6 WEEKS!

## CAN...



PRODUCE ENOUGH MANURE IN A MONTH TO MAKE 1 CUBIC YARD OF COMPOST FROM LEAVES!



HELP DO A QUARTER OF THE WORK TURNING A COMPOST PILE!

# Why raise hens?

- Fresh eggs- you know what your hens eat, you know what your family eats plus your hens live a much better life and in turn produce a healthier egg.

## **Nutrient Content - Battery Eggs**

Vitamin A - 0.97mg

Vitamin E - 487IU

Beta Carotene - 10mg

Folate - 47mcg

Omega 3 - 0.033mg

Cholesterol - 423mg

Saturated Fat - 3.1

## **Nutrient Content - Free Range Eggs**

Vitamin A - 7.37mb

Vitamin E - 763IU

Beta Carotene - 76.2mg

Folate - 0.71g

Omega 3 - 292mg

Cholesterol - 231mg

Saturated Fat - 2.31g

- Hard working friends! Helping in the garden (compost, scratching, fertilizer)

- Hens are friendly, low maintenance and become pets
- Self-sustaining life- minimal cost
- Teaching- children learn about responsibility, where their food comes from and even reproduction
- Pest control! No need for chemical sprays- hens can handle all kinds of creepy crawlies!

# Sister Cities with hens

- City of Lodi- 17.57.030D-
  - 5 hens
  - non-commercial consumption
  - In backyard enclosures
  - Feed properly stored
  - Sanitary conditions must be maintained
  - Complaints to animal control stopped once hens were allowed
- City of Elk Grove- 23.27.020 i
  - 6- cooped hens five feet from property line
  - 12 free range hens 40 feet from property line (must maintain 40 feet at all times)

# Sustainable Groundwater Management Act Requirements

Council Presentation 5-17-16

# What is the Sustainable Groundwater Management Act (SGMA)?

- ▶ Group of Bills passed by State Legislature
- ▶ Signed by Governor Brown in September of 2014
- ▶ Groundwater Sustainability Agencies (GSAs) must be formed by 6/30/17
- ▶ Groundwater Sustainability Plans (GSPs) are required within 7 years
- ▶ Basins must achieve 'sustainability' within 20 years after GSP approval
- ▶ Does not change existing groundwater rights

# What is SGMA's purpose?

- ▶ Prevent permanent damage to groundwater aquifers
- ▶ Assure that progress is being made to correct long-term overdraft conditions
- ▶ Empower **local** agencies to develop and implement sustainability plans
- ▶ Assert State control if local agencies fail to develop sustainable plans

## SUSTAINABLE GROUNDWATER MANAGEMENT:

The management and use of groundwater in a manner that can be maintained during the planning and implementation horizon **without causing undesirable results.**

# What is an “undesirable result”?

- ▶ Chronic lowering of groundwater levels
- ▶ Significant and unreasonable...
  - reductions in groundwater storage
  - seawater intrusion
  - degradation of water quality
  - land subsidence
  - adverse impacts on beneficial uses due to surface water depletion

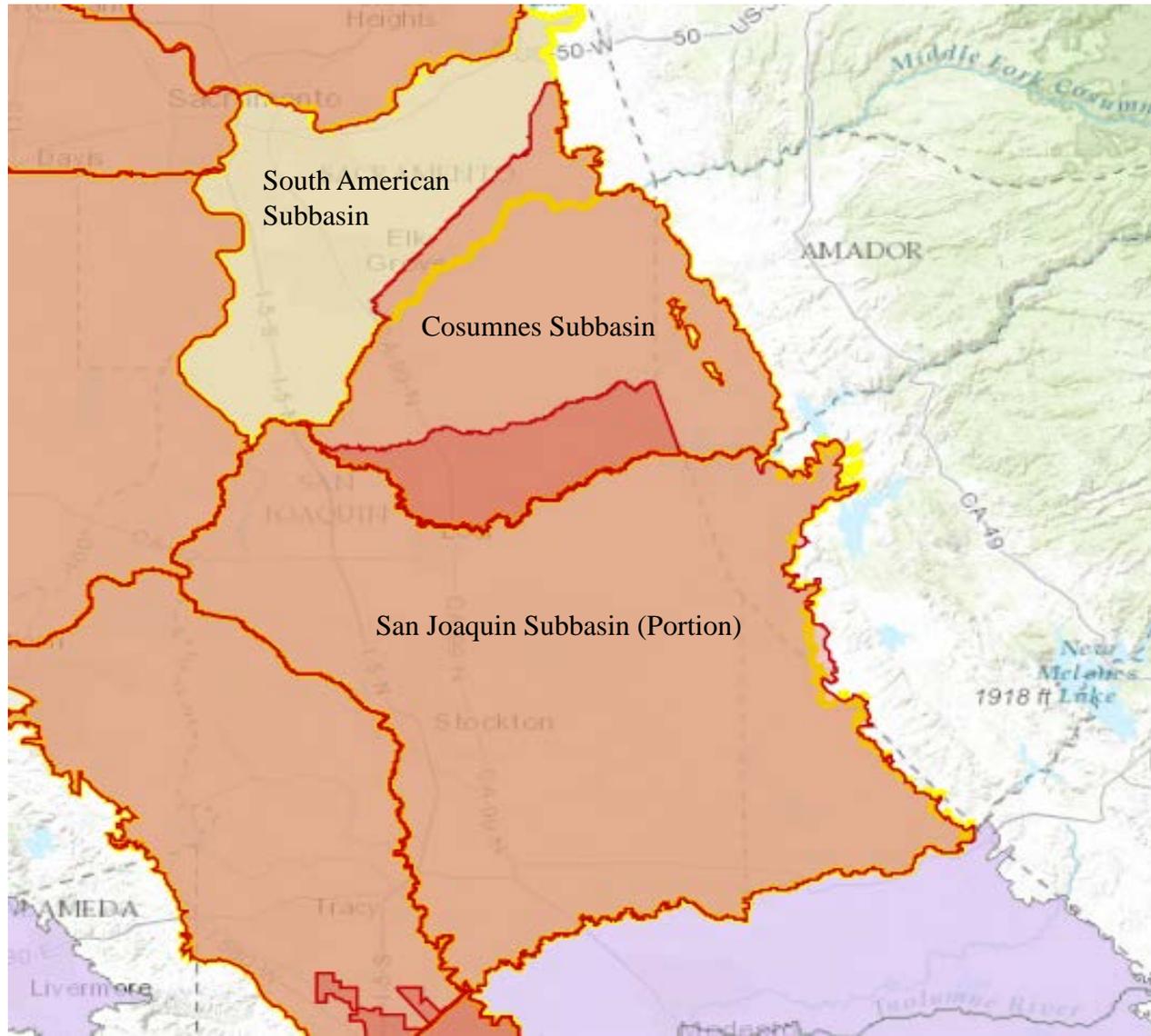
# What is a Groundwater Sustainability Agency (GSA)?

- ▶ Local public agency or combination of agencies with responsibility for:
  - Water supply, or
  - Water management, or
  - Land use authority
- ▶ Willing to develop and implement a Groundwater Sustainability Plan (GSP) for its portion of the basin or subbasin:
  - Consider interests of all beneficial uses and users
  - Identify measurable objectives for achieving sustainability within 20 years
  - Develop physical description of basin or subbasin
    - Groundwater levels
    - Water quality
    - Extent and risk of subsidence
    - Groundwater/surface water interaction

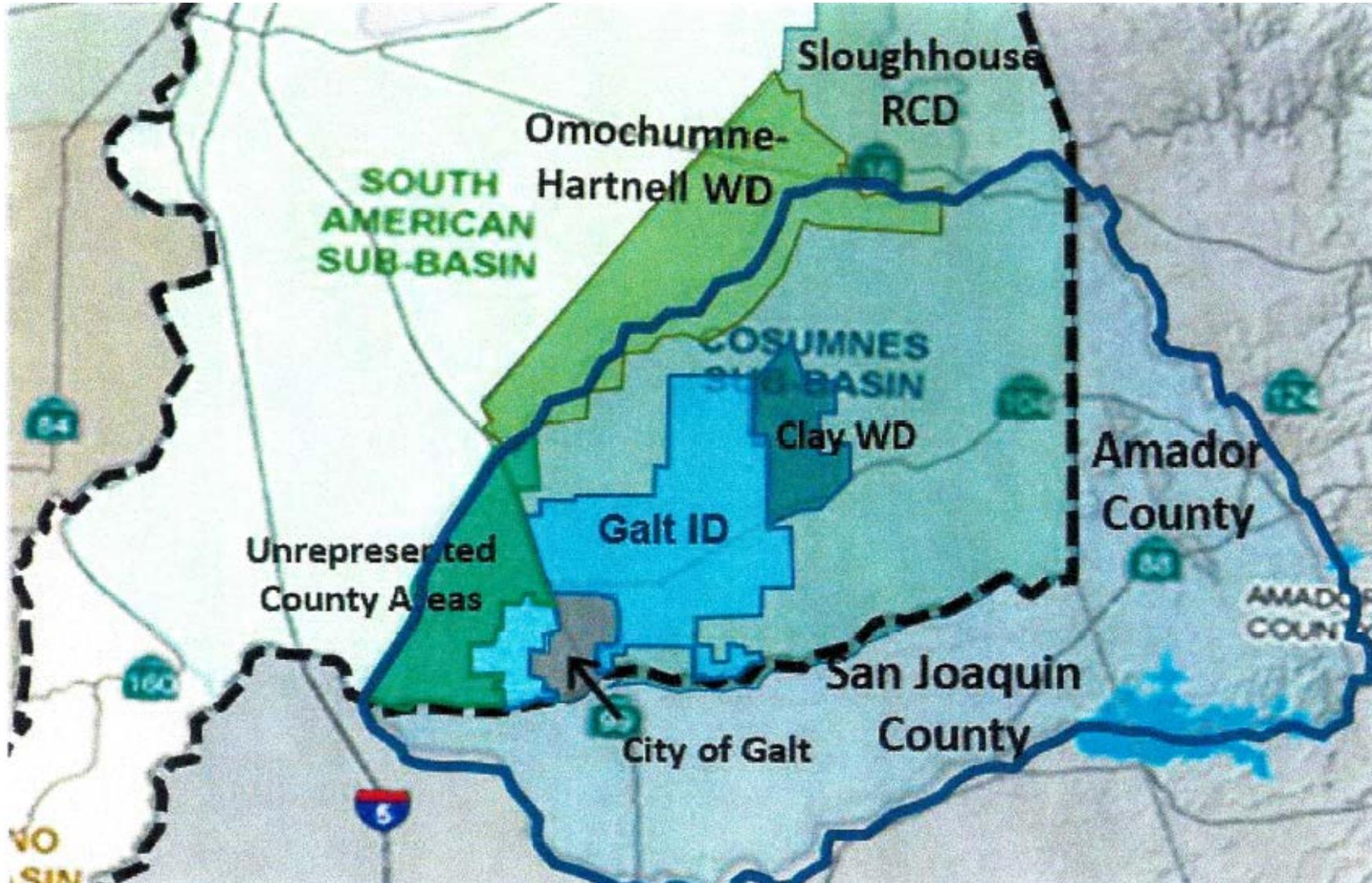
# GSA Authorities and Responsibilities

- ▶ Conduct water use investigations
- ▶ Determine and establish the sustainable yield of the basin
- ▶ Measure and limit groundwater extraction
- ▶ Impose fees for groundwater management
- ▶ Enforce the terms of the adopted GSP

# Cosumnes Subbasin



# How does Galt fit in the process?



# Agency Coordination

## Preliminary Discussions:

- ▶ Southeast Sacramento County Agricultural Water Authority (SSCAWA)
- ▶ Galt Irrigation District
- ▶ Sloughouse Resource Conservation District
- ▶ Omochumne-Hartnell Water District
- ▶ Clay Water District
- ▶ Sacramento County - Water Resources Division

# Options for GSA Formation

Option 1: Join an existing multi-jurisdictional agency

Option 2: Form a new multi-jurisdictional agency (JPA, MOU, etc.)

Option 3: File as a stand-alone entity

Based upon decisions being made by other entities in the Cosumnes subbasin, Option 3 appears to be the most practical approach for Galt.

A joint approach to developing the GSP (basin plan) is highly desirable.

Questions and Council feedback?



# Sacramento County TRANSPORTATION UPDATE



## Measure B

# BACKGROUND



- 2013: Vision for a supplement to Measure A that prioritizes local roads & regional capital projects
- Plan developed by professional Advisory Group
- Consensus recently built on RT O&M
- Polling surpassed 2/3rds in latest survey

# BALLOT QUESTION

To:

Fill potholes and repave streets;

Repair deteriorating bridges;

Relieve traffic on roads and freeways;

Build an expressway between Elk Grove, Rancho Cordova, and Folsom;

Extend Light Rail toward the Airport and Elk Grove;

Support Light Rail and bus operations, maintenance, and security; and

Improve bicycle and pedestrian safety;

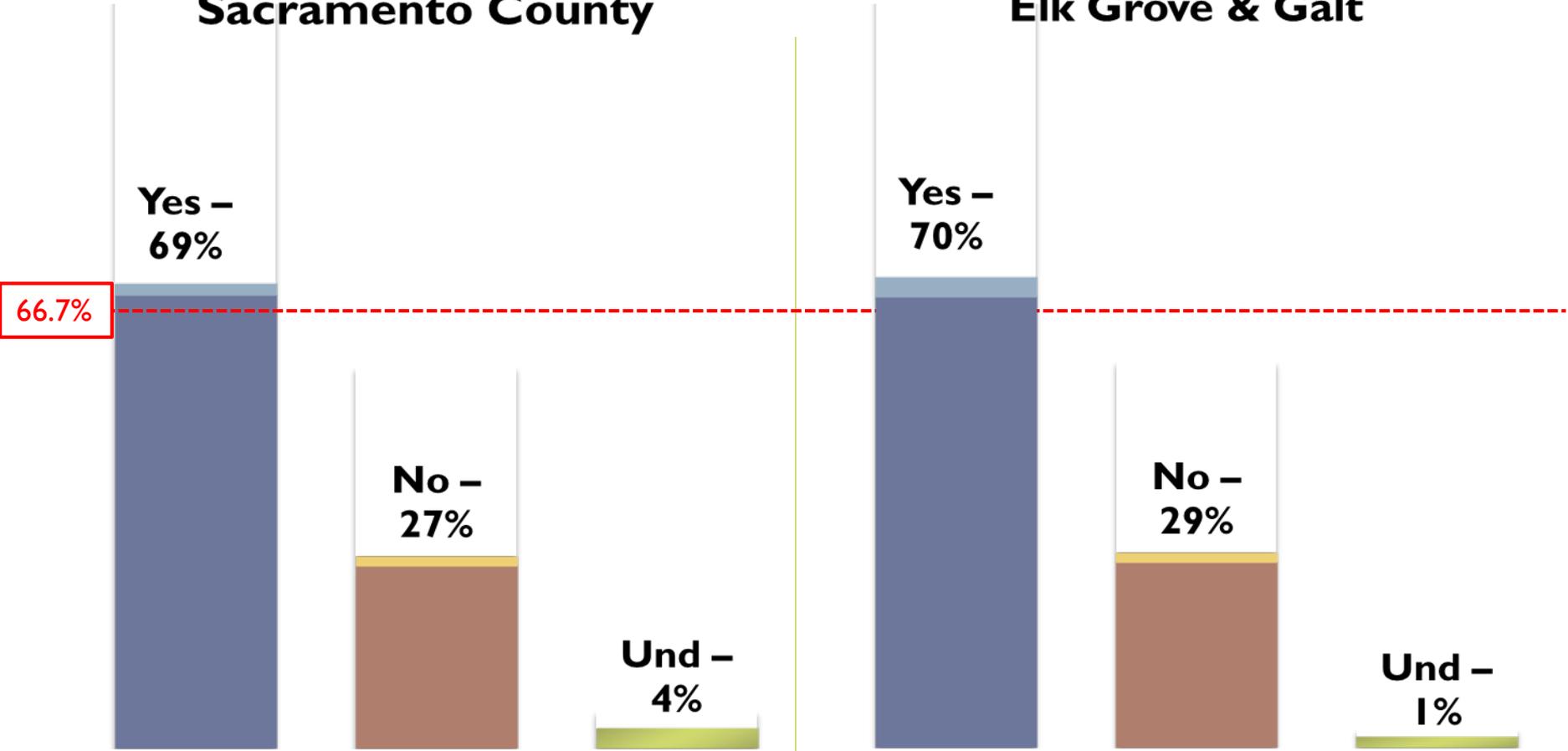
Shall the ordinance enacting a countywide 30-year sales tax, at a rate of one half of one percent, raising approximately 100 million dollars annually, with independent oversight and audits, be adopted?



# BALLOT QUESTION SUPPORT

## Sacramento County

## Elk Grove & Galt



# MEASURE COMPONENTS

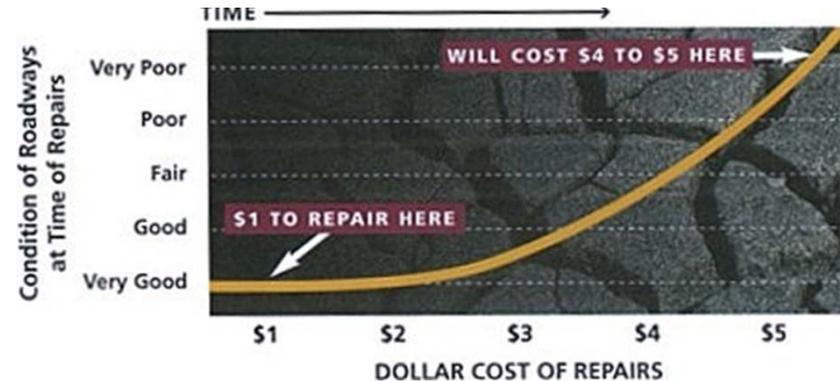
## Total Support % (Strongly + Somewhat)

	County-wide	Elk Grove, Galt
9. Fill potholes and repave streets	91%	88%
10. Repair deteriorating bridges	88%	90%
21. Reduce congestion on highways	82%	84%
16. Improve pedestrian and bicycle safety	81%	80%
15. Support Light Rail and bus maintenance and security	81%	79%
14. Support Light Rail and bus operations	80%	76%
11. Relieve traffic on local roads and freeways	79%	78%
20. Smooth traffic flow on local roads	77%	82%
13. Extend Light Rail toward the Airport and Elk Grove	75%	77%
22. Expand the capacity of roads and highways	75%	77%
19. Widen Capital City Freeway	70%	78%
18. Replace aging buses	69%	70%
17. Replace aging Light Rail cars	66%	67%
12. Build a new expressway connector between Elk Grove, Rancho Cordova, and Folsom	63%	72%
23. Create new local streetcar service in downtown Sacramento	50%	51%



# FINAL EXPENDITURE PLAN

- Expenditure categories:
  - 69.85% Roads
  - 29.85% Transit
  - 0.3% Admin
- Front loads 75% of funds for “Fix it First” for roads & RT in first 5 years:
  - Local roads to meet 70 PCI
  - RT replacement of light rail & bus vehicles, improve maintenance & security, reach “State of Good Repair”



# FINAL EXPENDITURE PLAN (CONT.)

- Balances need for investment in both road and transit options
- Emphasizes complete streets plans for bike, ped & transit
- Elk Grove SMART Service requires feasibility and coordination
- Protects air quality conformity
- Leverages matching dollars, limits admin & requires independent audits



# ACCOUNTABILITY

- ▶ Annual audit by Independent Taxpayer Oversight Committee to review fiscal and program performance
- ▶ Five Year Update Plans are required:
  - Cities and County must demonstrate how 70 PCI will be maintained
  - RT must demonstrate consistency with MTP and RT Board financial management policies
- ▶ Before any agency can dedicate less than 75% to Fix it First in first five years:
  - Cities and County must demonstrate 70 PCI
  - RT must meet ridership increase, farebox recovery and reserve policy goals
  - Agencies may prioritize capital projects with supermajority vote

# FUNDING OVERVIEW (2016 DOLLARS)

- Would generate \$120 million annually
- Over \$3.6 billion during 30-year term
- Ordinance allows bonding



# ROADS & HIGHWAYS

Category	Allocation *
Local Roads, Bike, Ped & Transit	\$2,199.12
Galt's Share	\$35.85
Capital SE Connector	\$125.26
Capital City Freeway	\$200.00

\*Millions of \$



# TRANSIT

Category	Allocation *
RT Vehicle Replace, O&M	\$392.82
O&M New Service	\$180.00
LRT Express, Gold Line	\$20.00
LRT to Airport	\$233.77
LRT & SMART Service Elk Grove	\$125.70
Paratransit	\$126.49

\*Millions of \$



# GALT PROJECTS

**Galt Allocation: \$35.85 M (\$60 M in 2047)**

## **Category**

Fix it First Road Maintenance & Repair

Highway 99 Interchange at Walnut Ave

Bicycle, Pedestrian & ADA Plan Implementation

# REVENUE CASH FLOW PROJECTION

**Fix it First-Capital First 5 Years**  
**(in millions, at 3% annual growth)**

<b>Total</b>	<b>Fix it First – 75%</b>	<b>Capital – 25%</b>
\$1.268	\$0.951	\$0.317
\$1.306	\$0.980	\$0.327
\$1.345	\$1.009	\$0.336
\$1.385	\$1.039	\$0.346
\$1.427	\$1.070	\$0.357

# RECOMMENDATION

- ▶ Adopt a resolution to approve the proposed 2017-2047 supplemental Transportation Sales Tax Expenditure Plan

(Requires approval by a majority or cities with a majority of the County's incorporated population; and approval by the County Board of Supervisors)

Questions?

