CITY COUNCIL MEETING
TUESDAY, DECEMBER 6, 2016

PRESENTATIONS

Presentations

Funabashi Trip

CITY MANAGER'S OFFICE

David Korth, Assistant to the City Manager
Neighborhood Services Manager

December 6, 2016

Funabashi City

HAYWARD

MOREAU Catholic High School

HAYWARD CHAMBER of COMMERCE

BUILDING A CULTURE OF SUCCESS
Hayward Unified School District

HAYWARD
30th Anniversary
SISTER CITIES
Est. November 7, 1986
FUNABASHI

Cultural Exchange

Educational Exchange

Economic Development Exchange

30th Anniversary Trip
Funabashi, Japan

October 20-28, 2016

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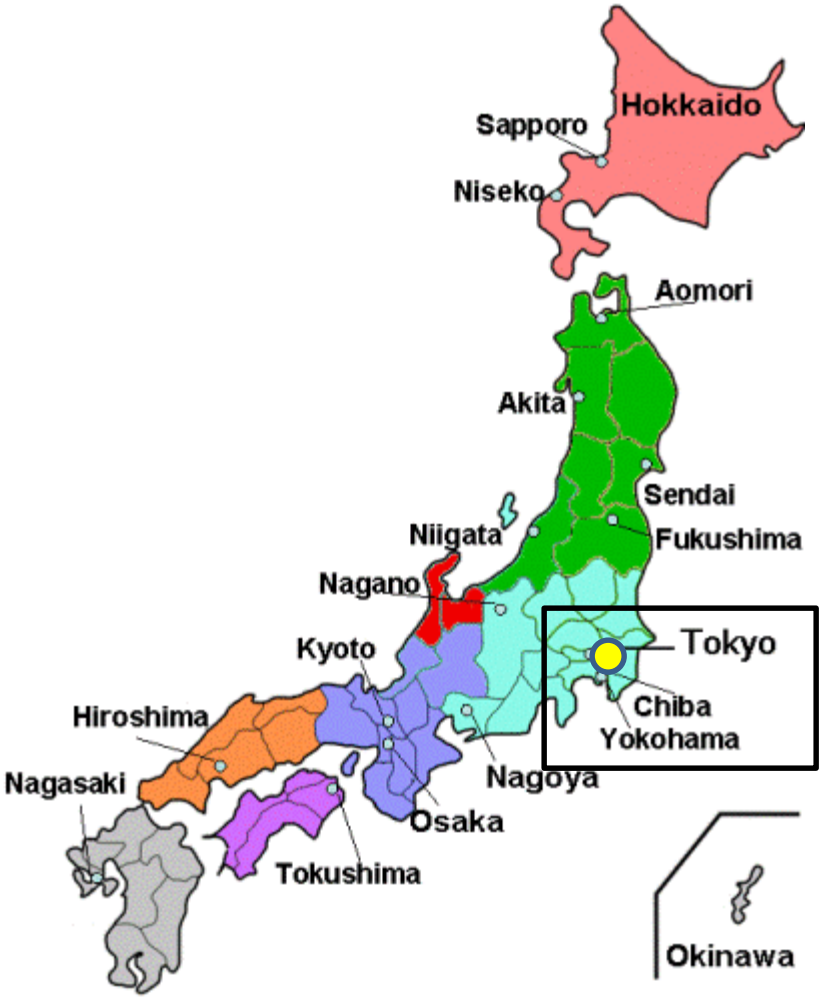

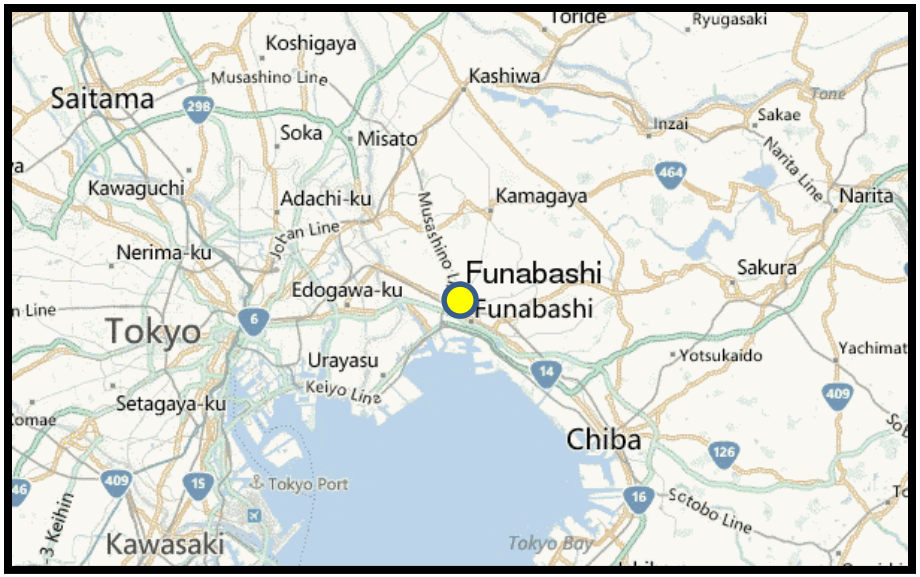

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Funabashi / Hayward
Friendship Club Welcome Dinner

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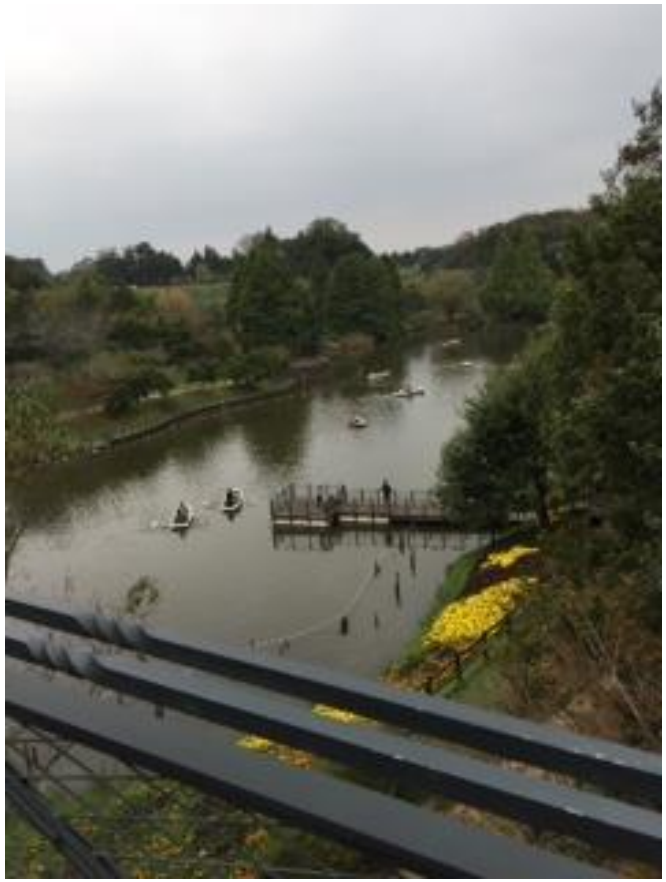

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Funabashi City
Tourist Association Volunteers

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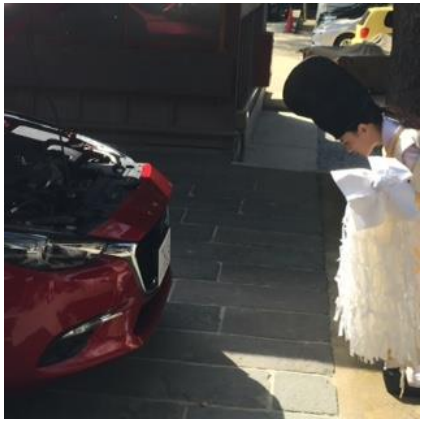

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Economic Development

Kubota Factory Tour

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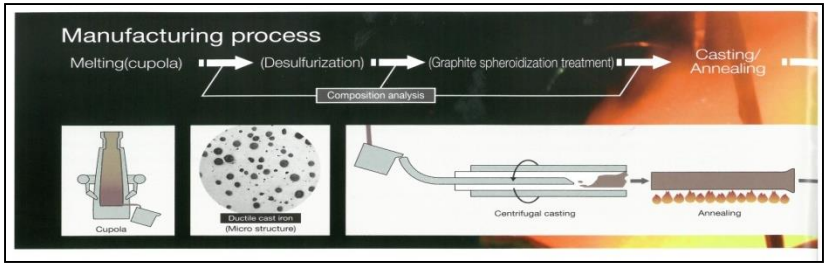

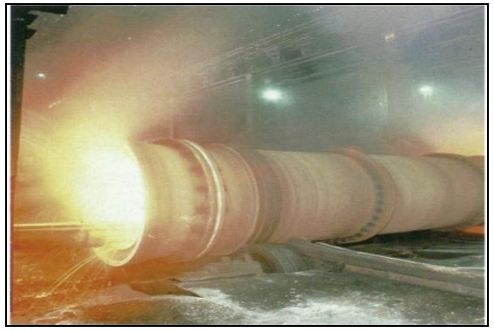

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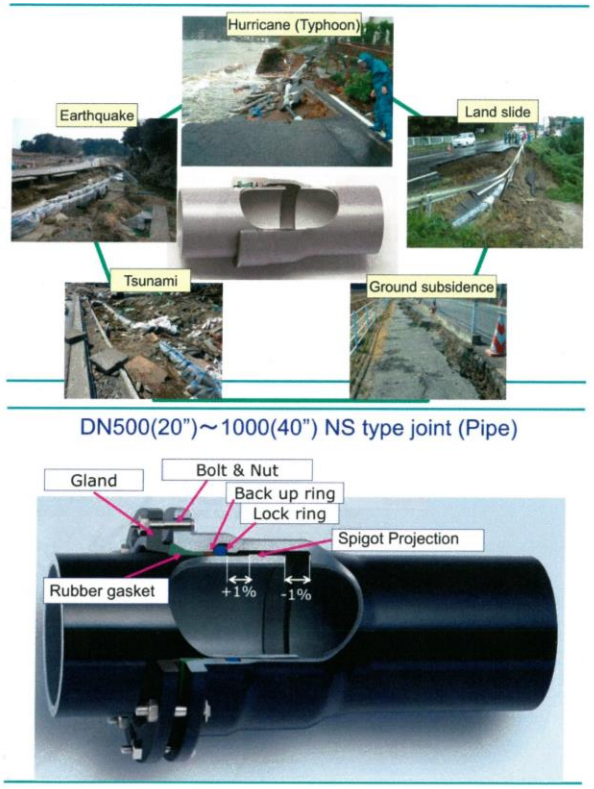

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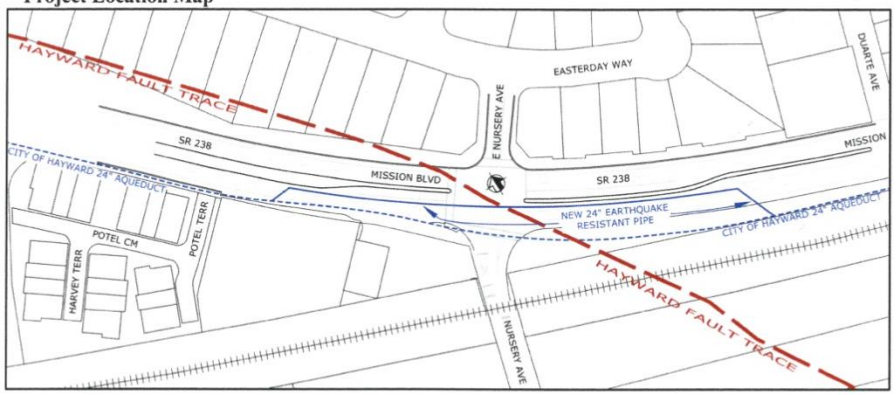
Economic Development

Kubota Factory Tour

Project Location Map



Kubota 24" ERDIP Manufactured for Hayward

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Economic Development

Funabashi Fish Market






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Economic Development Forum

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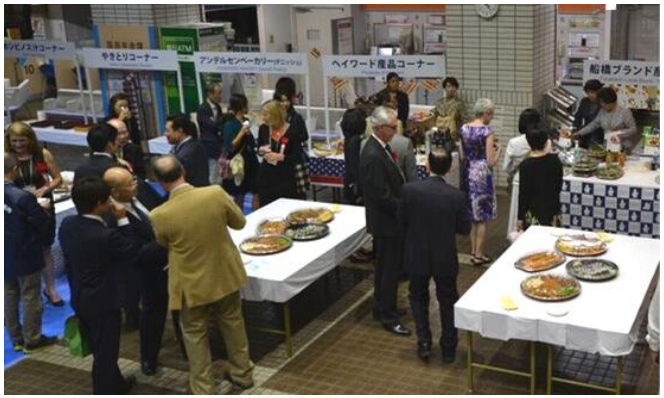

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Educational
Exchange

Cultural
Exchange

Economic
Development

Thank you
Ray Tsurumoto
In fond memory of “Setsu” Tsurumoto

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Comments, Questions, Ideas:

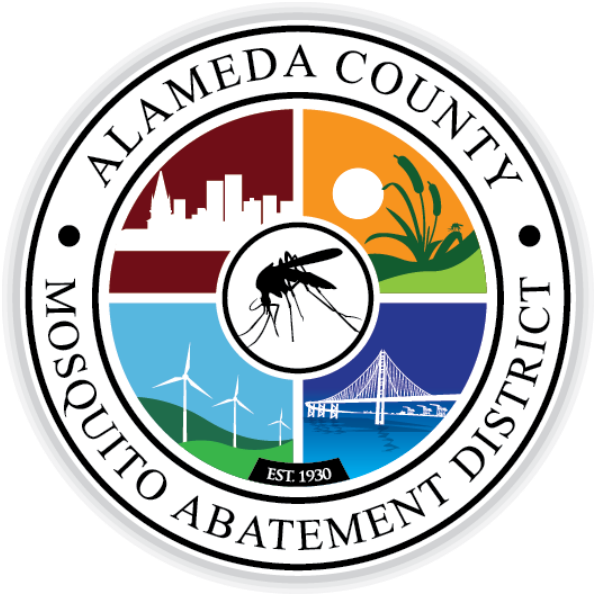
Presentations

Mosquitoes and the Diseases they Spread
Ryan Clausnitzer, Mosquito Abatement District Manager

Mosquitoes and the diseases they spread

An Independent District Protecting Public Health

since 1930



Hayward City Council Presentation 12/6/2016

What we'll talk about today

- Overview of ACMAD
- Mosquito Biology
- Where mosquitoes breed
- Mosquito control
- Bugs transmitted by bugs
  - West Nile virus
    - Response plan
  - Zika virus
    - Response plan
- Mosquito breeding in the City of Hayward

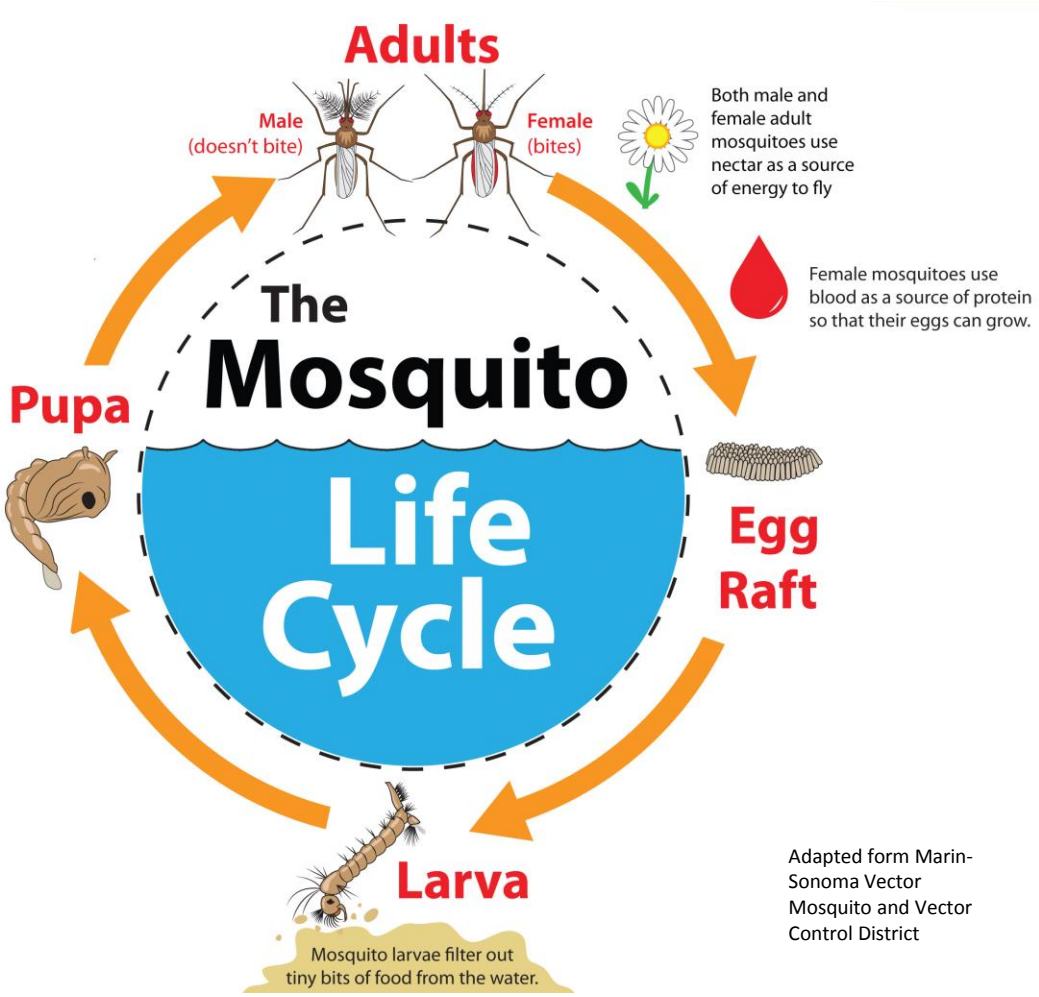
History and Overview

- Formed in 1930 as an Independent Special District
- Serves all cities and unincorporated areas of Alameda County, except for the City of Albany
- Governed by a board of 14 Trustees, appointed by their respective cities and the County-at-Large
- Three sources of revenue contribute to a balanced budget of $3.9 million
  - Ad valorum tax (.0009% of 1% property tax)
  - 1983 Special Tax ($1.72/per parcel)
  - 2008 Benefit Assessment ($2.50, **never raised**)
- Fully-funded retiree health benefits, 85% funded pension, and debt free
- 16 full-time and six seasonal staff, with a full fleet of vehicles, aquaculture program, and a fully capable molecular laboratory at our Hayward facility
- 2016 recipient of the Special District Leadership Foundation's **District Transparency Certificate of Excellence**

Mosquito Ecology, Biology, & Control

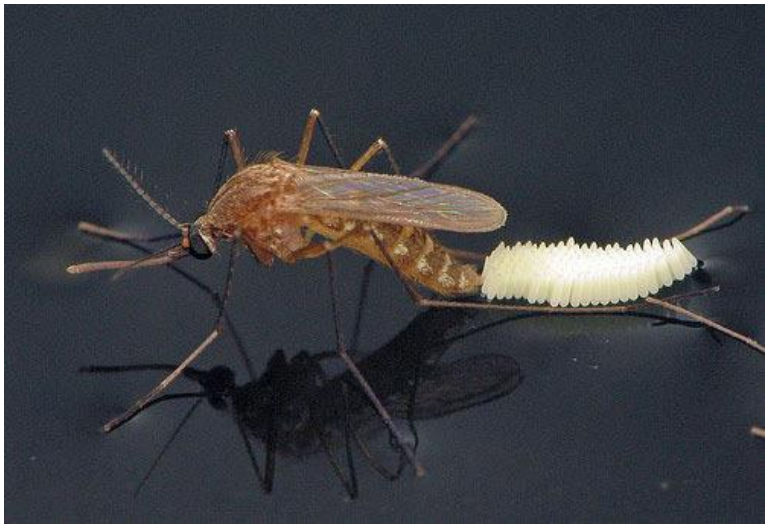
one of the most voracious predators of humans

- What do mosquitoes need?
  - Water:
    - Stagnant
      - *Culex pipiens* (common house mosquito)
    - Clear:
      - *Aedes aegypti* (yellow fever mosquito)
  - 1 – 2 weeks for growth:
    - Depends on species
  - Blood:
    - Typically birds, people, or other mammals

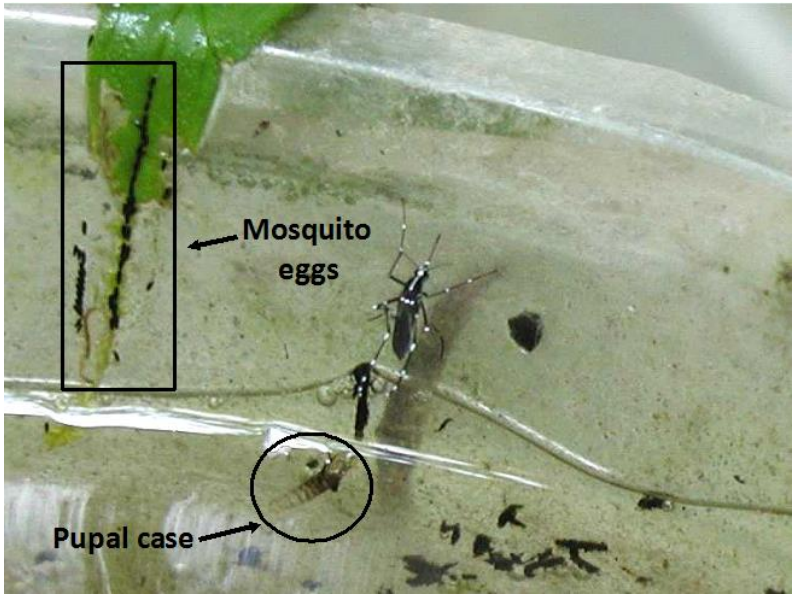


Adapted form Marin-Sonoma Vector Mosquito and Vector Control District

Adult female mosquitoes need water to lay eggs



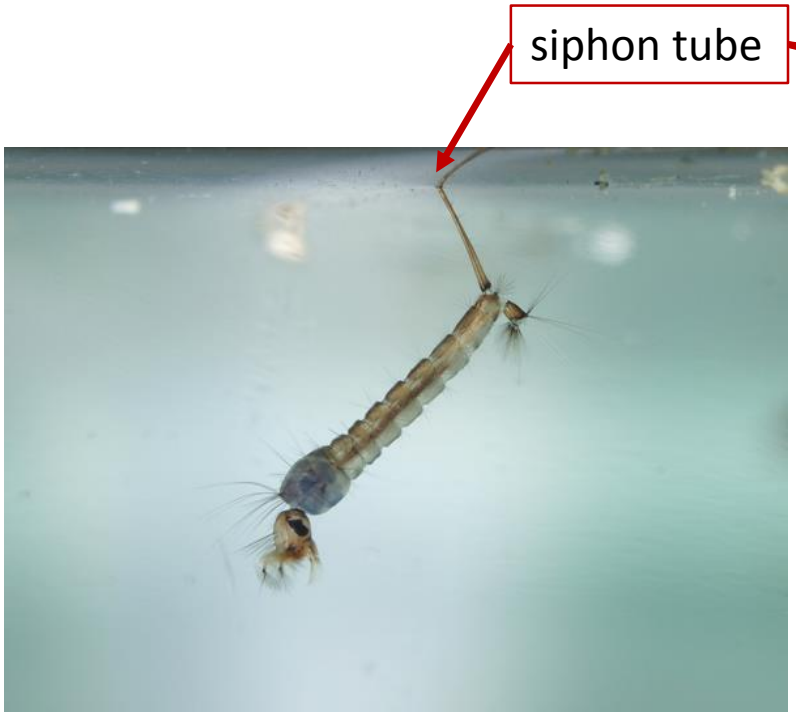
On the surface of water

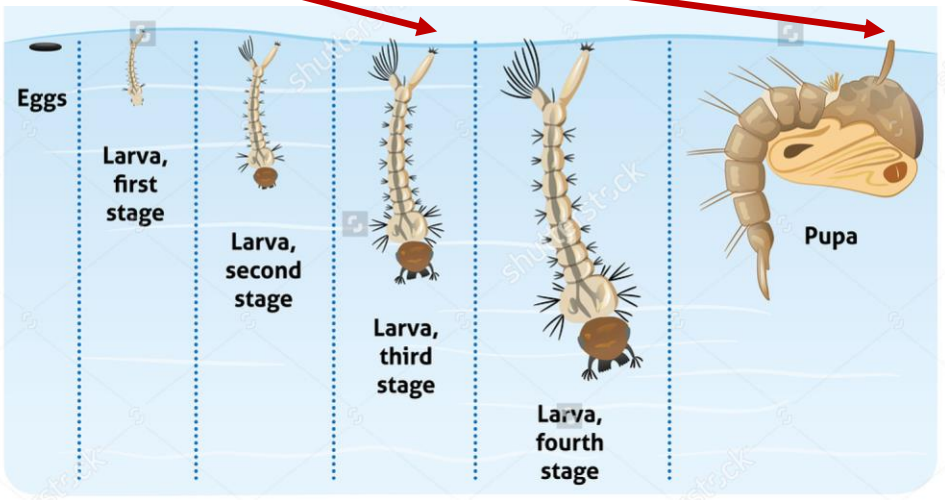


Near a spot that will fill with water

Aquatic lifestyle

- Urban mosquitoes spend 1st 1 - 2 weeks as larvae or pupae
- Breath air at the surface of water
  - Use a siphon tube for breathing
  - Ripples in the water prevent breathing





Monitoring mosquito abundance

Dipping for mosquito larvae

Larval mosquito management

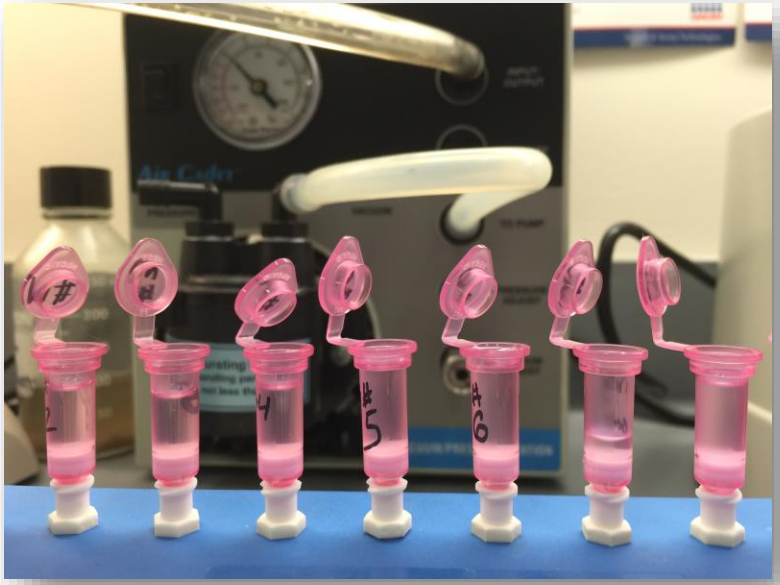
3 oz of mineral oil placed into catch basins

Biorational larvicide in marsh with breeding mosquitoes

Mosquitofish: *Gambusia affinis*

- Eat a variety of aquatic insects and zooplankton
- Love to eat mosquito larva
- Relatively small
  - 1.5 – 3 inches
- Live in shallow fresh water
- Resilient to low oxygen levels
- Should not be introduced into natural habitats
  - streams, natural ponds

Monitoring mosquito abundance and diseases they spread



Testing collected mosquitoes for human diseases

Pathogens spread by mosquitoes of concern for Alameda County

the short list…

Mosquito vector present in Alameda County:

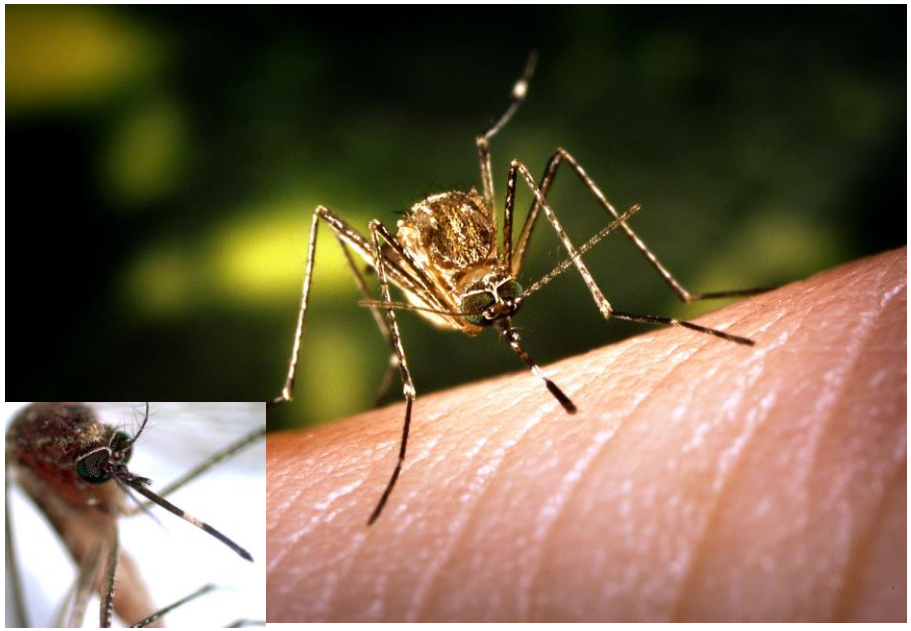
- West Nile virus
- Western equine encephalitis virus
- Saint Louis encephalitis virus
- Dog heartworm
- Malaria

Mosquito vector present in California:

- Zika virus
- Dengue virus
- Chikungunya virus
- Yellow fever virus

Mosquitoes in the Bay Area that transmit West Nile virus

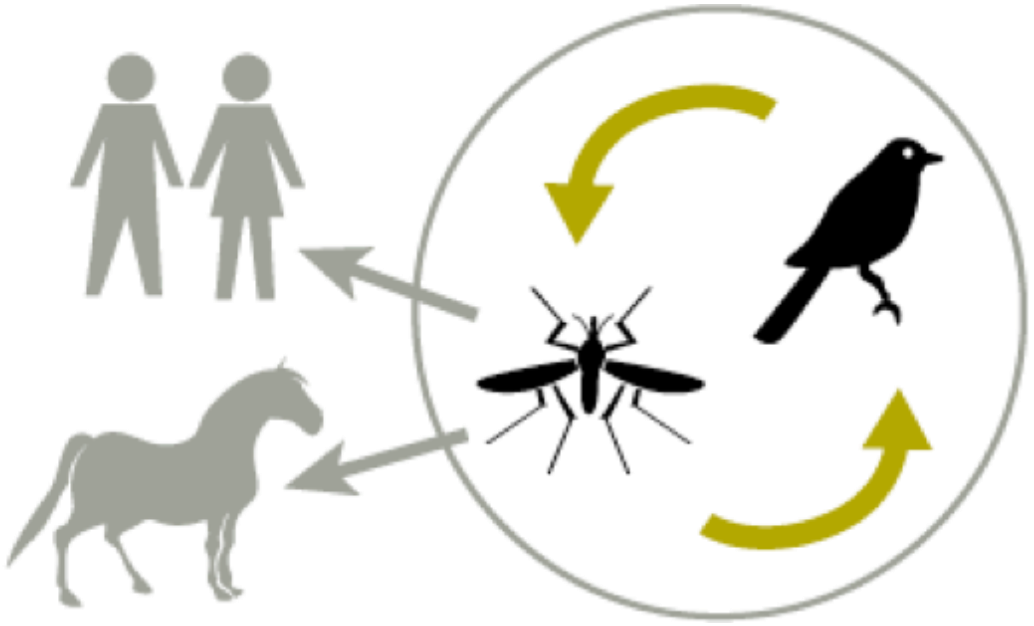
Culex pipiens:
common house mosquito



Culex tarsalis:
western encephalitis mosquito

West Nile virus transmission cycle

Dead-end transmission in humans and horses



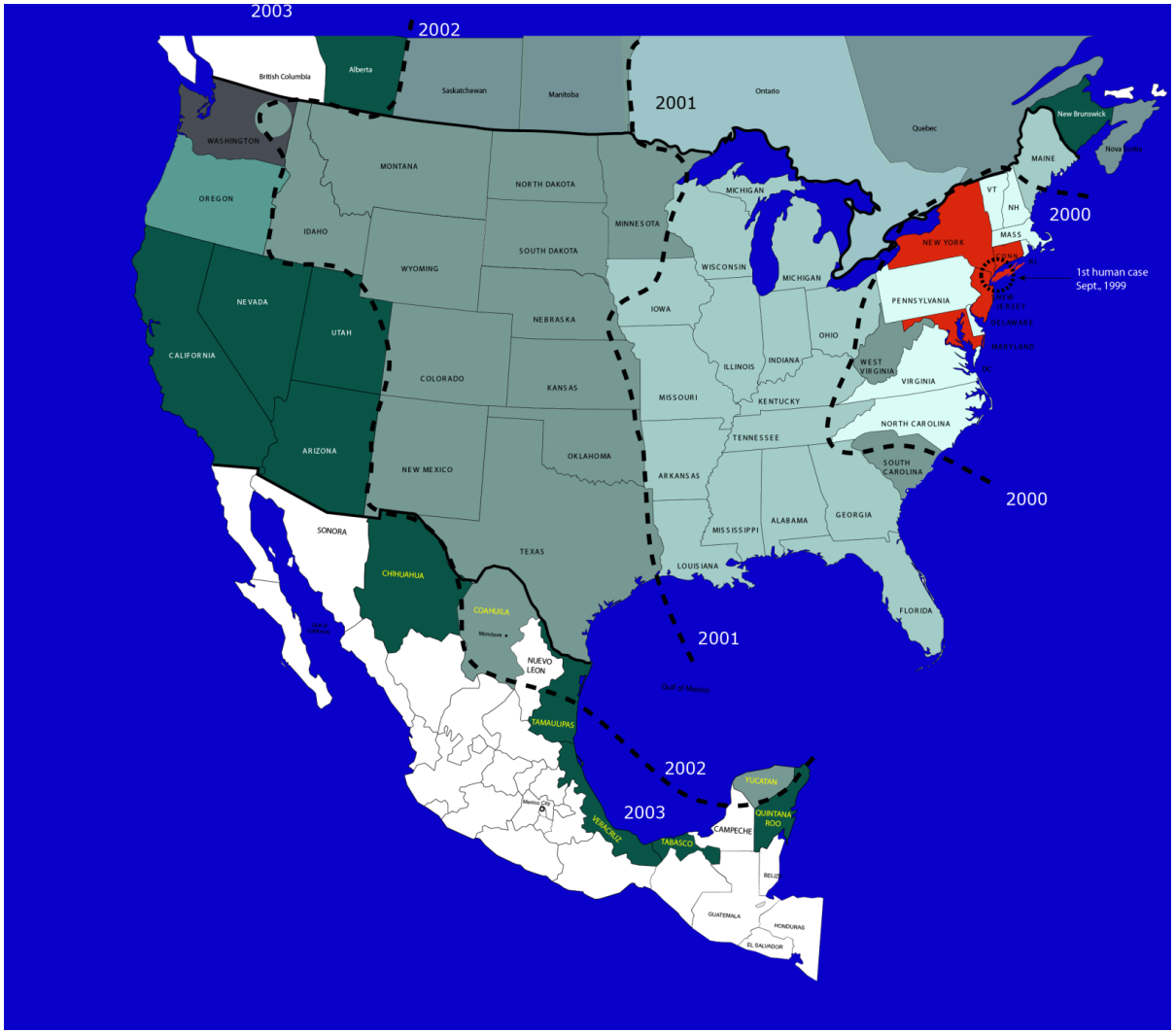
Mosquito carriers occasionally infect humans and other mammals.

WNV mostly cycles between Birds and mosquitoes.

Maintenance cycle with bird reservoir

More than 138 bird species that can be infected, and more than 43 mosquito species can transmit WNV

Rapid spread of West Nile virus across the US



ACMAD's response plan to West Nile virus

- The District's response plan includes:
  - In house testing of reported dead birds
  - Focused surveillance and testing of all captured mosquitoes
  - Intensified inspections and treatments in areas with positive detections
  - Key notifications to the public through press releases, social media, and voluntary signup through the District website

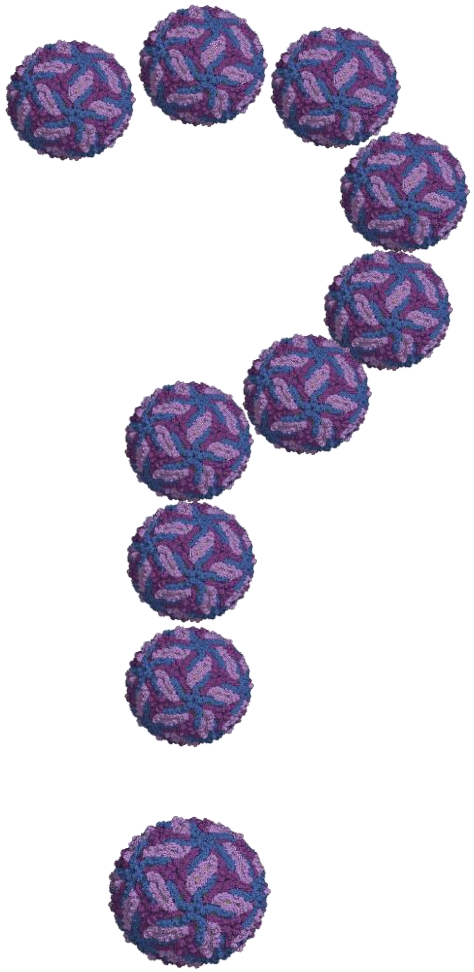
Mosquitoes that spread Zika virus

Aedes aegypti
lyre-shaped pattern on thorax

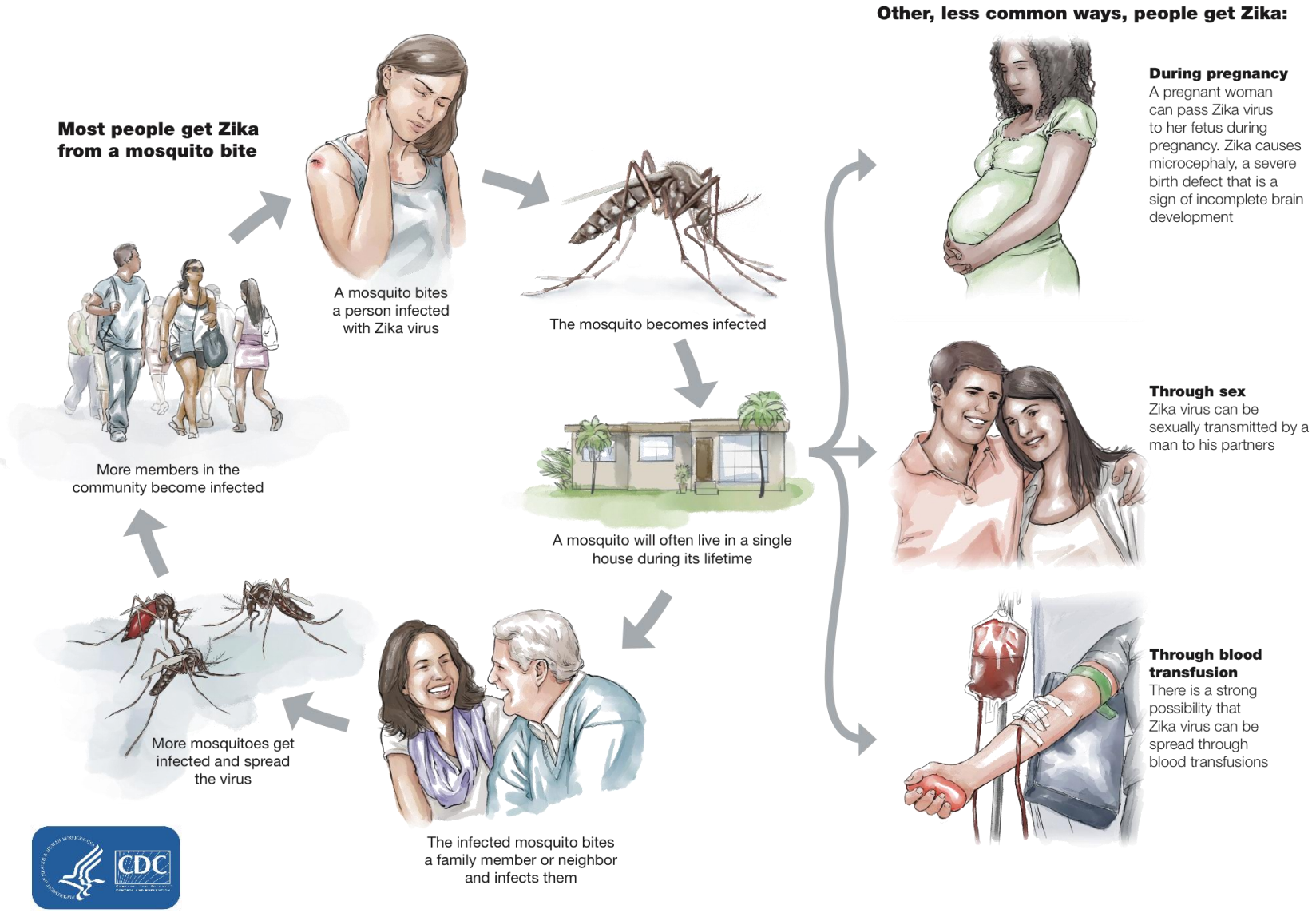
Aedes albopictus
bright lateral line on thorax

Zika virus

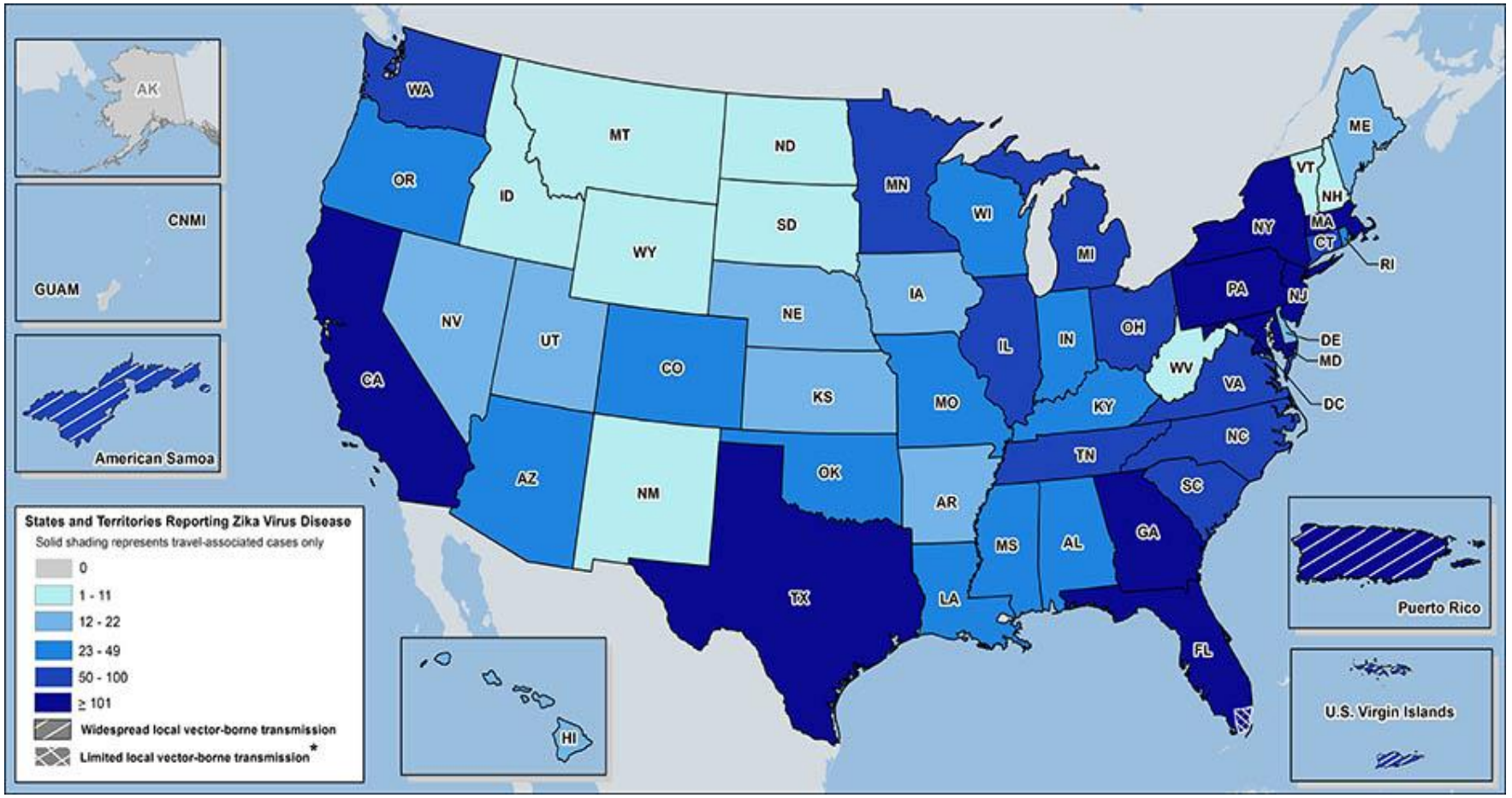
- A lot still unknown
- Discovered in 1947 and named after the Zika Forest in Uganda
- Before 2007, only 14 cases documented
  - But likely many more
- In 2015, thousands of cases
- Transmitted by mosquitoes not native to Alameda County
- Causes rash, microcephaly, and linked to Guillain-Barre´ syndrome



How Zika virus spreads



Zika virus: cases reported in the US (as of 11/23/16)



ACMAD's response plan to invasive *Aedes*

- The District's response plan includes:
  - Door to door inspection and treatments in confirmed detection areas
  - Expanded surveillance to monitor dispersion
  - Coordination with the Alameda County Public Health Department
  - Dissemination of information through press releases and social media
  - Cooperation with local volunteer groups (CERT) in order to collect more information

Common Sources in the City of Hayward

- Shoreline:
  - freshwater marsh
  - Eden Landing
  - sewer ponds
- Holy Sepulcher Cemetery
- Don Castro
- Unmaintained swimming pools, catch basins, flood control channels
- Sky West Golf Course

Contact us for no-cost services:

- mosquitoes biting
- mosquito fish
- advice for reducing mosquito breeding sites
  - at your house or workplace
- Report of standing water or neglected pool
- dead bird report
- educational presentation

www.mosquitoes.org

(510) 783 – 7744

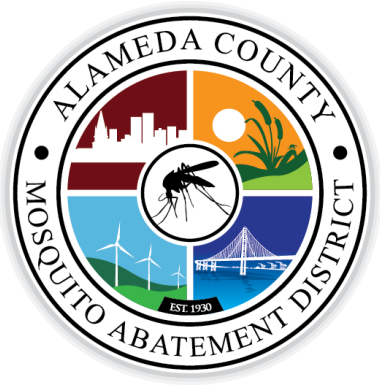
acmad@mosquitoes.org

Trustee: Elisa Marquez

Vector Control Technicians:

Jeremy Sette (east)

Miguel Cardenas (west)



Funabashi Trip

CITY MANAGER'S OFFICE

David Korth, Assistant to the City Manager
Neighborhood Services Manager

December 6, 2016

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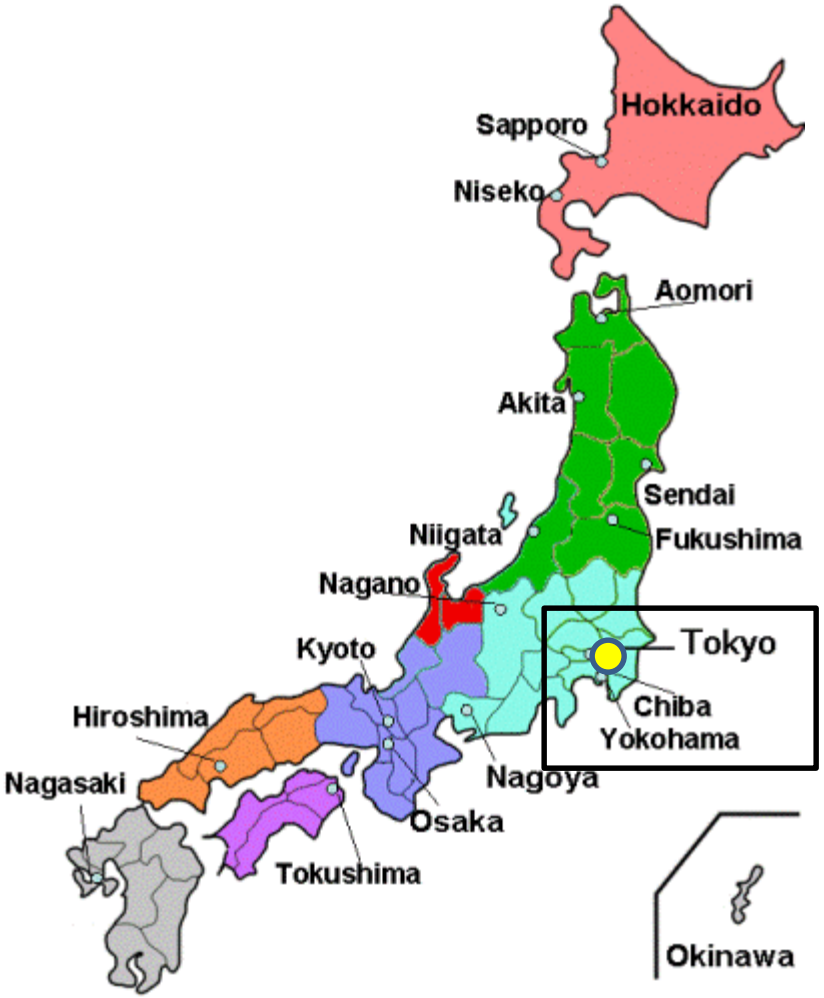

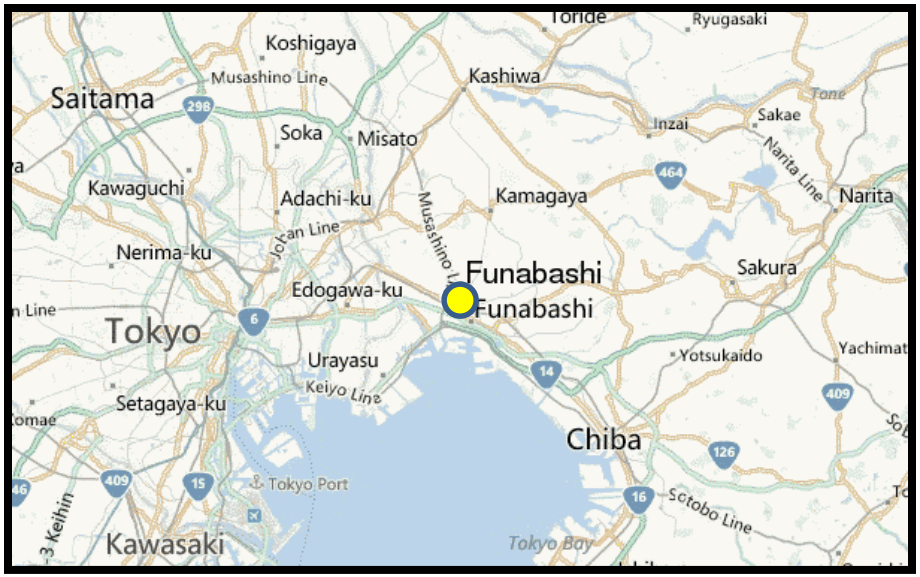

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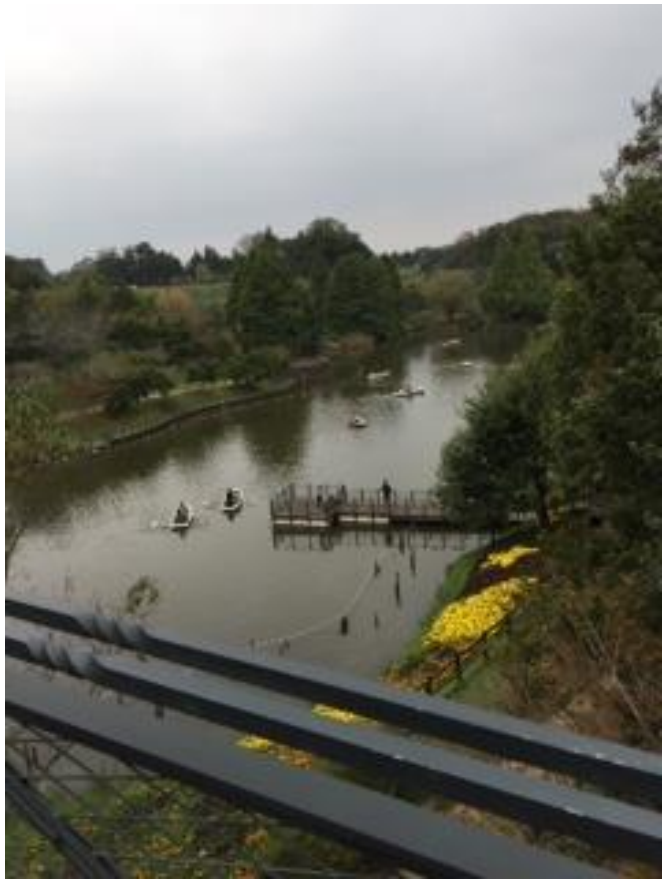

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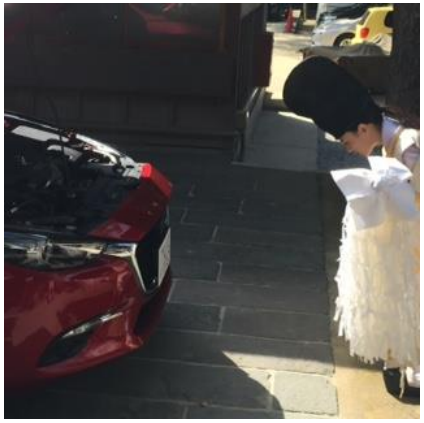
Funabashi City
Tourist Association Volunteers

HAYWARD SISTER CITIES Est. November 7, 1986 FUNABASHI

30th Anniversary Trip
Funabashi, Japan
October 20-28, 2016



Cultural Exchange

HAYWARD
SISTER CITIES
Est. November 7, 1986
FUNABASHI

30th Anniversary Trip
Funabashi, Japan
October 20-28, 2016

Cultural Exchange

HAYWARD FUNABASHI SISTER CITIES Est. November 7, 1988

30th Anniversary Trip
Funabashi, Japan
October 20-28, 2016

Economic Development

Kubota Factory Tour

HAYWARD
SISTER CITIES
Est. November 7, 1986
FUNABASHI

30th Anniversary Trip
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Economic Development

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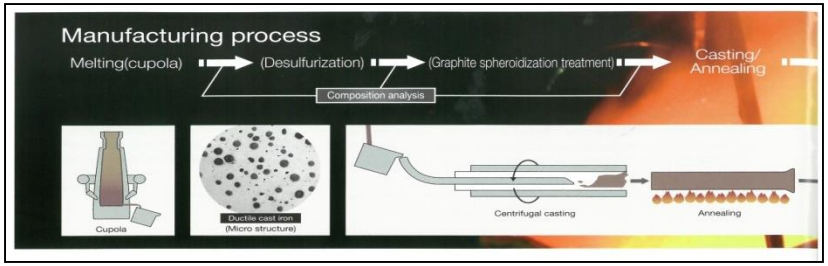
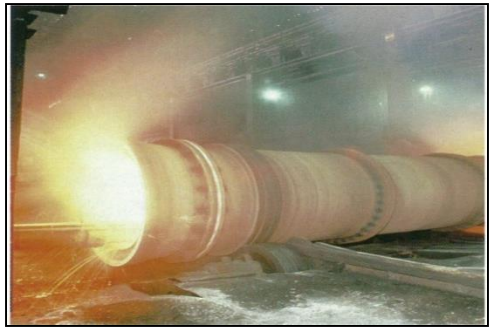
Kubota Factory Tour





30th Anniversary Trip
Funabashi, Japan
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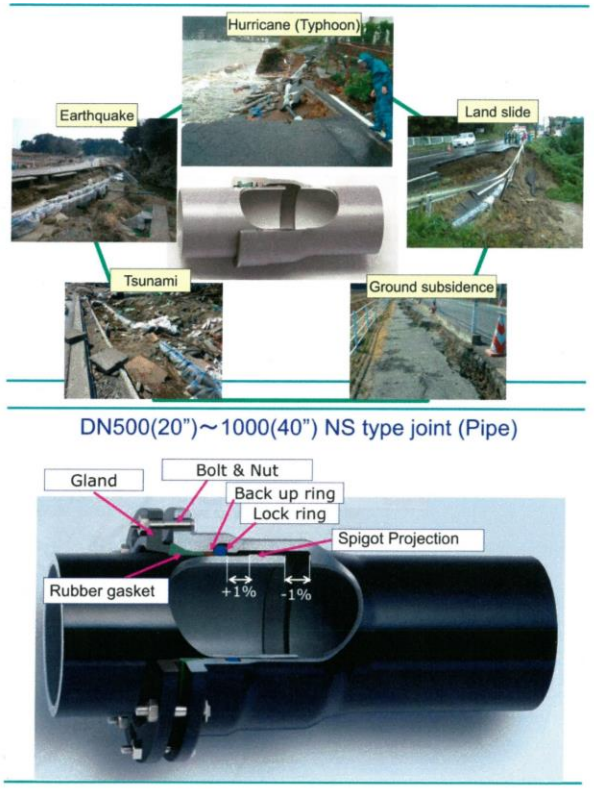
Economic Development

Kubota Factory Tour



HAYWARD SISTER CITIES Est. November 7, 1986 FUNABASHI

30th Anniversary Trip
Funabashi, Japan
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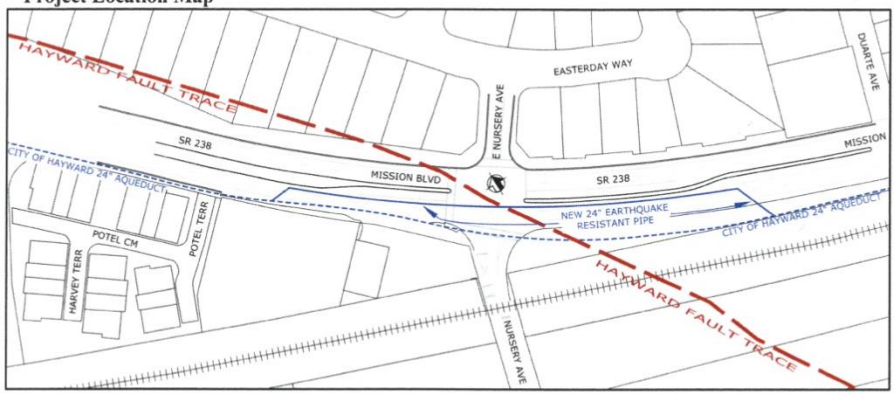
Economic Development

Kubota Factory Tour

Project Location Map



Kubota 24" ERDIP Manufactured for Hayward

HAYWARD SISTER CITIES Est. November 7, 1986 FUNABASHI

30th Anniversary Trip
Funabashi, Japan
October 20-28, 2016

Economic Development

Funabashi Fish Market






HAYWARD SISTER CITIES Est. November 7, 1986 FUNABASHI

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Economic Development

Funabashi Fish Market

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Economic Development

Economic Development Forum

HAYWARD
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Economic Development

Economic Development Forum

Cultural Exchange

Educational Exchange

30th Anniversary Trip
Funabashi, Japan
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Economic Development

30th Anniversary Dinner

HAYWARD
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Educational Exchange

30th Anniversary Trip
Funabashi, Japan
October 20-28, 2016

Economic Development

Cultural Exchange

30th Anniversary Dinner

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Educational Exchange

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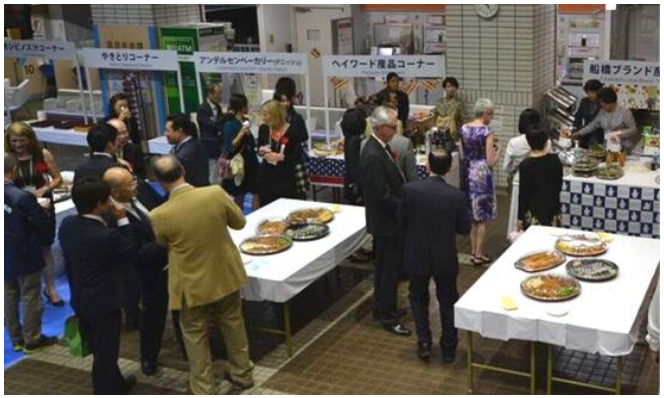

HAYWARD FUNABASHI
SISTER CITIES
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30th Anniversary Trip
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Educational
Exchange

Cultural
Exchange

Economic
Development

Thank you
Ray Tsurumoto
In fond memory of “Setsu” Tsurumoto

HAYWARD
SISTER CITIES
Est. November 7, 1986
FUNABASHI

Comments, Questions, Ideas:

Item #7 WS 16-071

Review of the Hayward Promise Neighborhood Initiative

City of Hayward

CITY COUNCIL WORK SESSION

REVIEW OF THE HAYWARD PROMISE NEIGHBORHOOD INITIATIVE

DECEMBER 5, 2016

Background - HPN

- Five year, $25 million grant from U.S. Dept of Education to lead agency Cal State East Bay
- Grant period began in January, 2011; ends December, 2016
- HPN grant purpose was to provide "cradle to career" services in Jackson Triangle neighborhood
- Cal State East Bay is primary recipient of grant funds; spent approx., $5 million total of HPN grant, mostly on administration and outreach
- Remaining approx. $20 million was distributed to sub-recipient partner agencies to support service delivery
- Sub-recipient partners include HUSD, Chabot CC, City of Hayward
- City of Hayward received 5.7% of grant, approx. $288,000 per year.

City of Hayward's HPN Activities

- 21st Century Learning Centers / Homework Support
- Access to 21st Century Learning Tools
- Access to Healthy Meals
- Community Garden /Project EAT
- Improved Transportation
- Focused CSO / Code Enforcement
- Neighborhood Health and Empowerment Network
- Additional Solutions
- HPN grant funds allocated to above services: Approx. $288,000 / year
- City of Hayward in-kind match resources provided: Over $300,000 / year

Continuation of City HPN Services

- HPN grant funding expires at the end of CY 2016
- City has completed its fifth and final year of HPN grant participation
- No additional funding available from Dept. of Ed. at this time
- Future federal grant funding is a possibility, but uncertain
- The City, under guidance of Council, has taken positive steps to sustain and/or expand key City-operated HPN-related services:
- 21st Century Learning Centers, Access to 21st Century Learning Tools, Healthy Food Access, Community Garden/Project EAT, Neighborhood Empowerment Network, and related activities
- City staff will continue to strategically seek and apply for funding with partner organizations to support City program efforts.

Next:
Presentation by Cal State East Bay

HAYWARD PROMISE NEIGHBORHOOD

Presentation by CSUEB

HAYWARD PROMISE NEIGHBORHOOD

Keeping the Promise – December 6, 2016

Presentation by CSUEB

This Is Hayward Promise Neighborhood

1. Alameda County Food Bank – Mobile Pantry
2. Alameda County Public Health Nursing
3. Chabot College
4. City of Hayward
5. California State University, East Bay
6. Eden Area Regional Occupational Program
7. First 5 of Alameda County
8. 4 Cs of Alameda County
9. Hatchuel Tabernik Associates – Data Partner
10. Hayward Unified School District and Adult Education
11. La Familia Counseling Center
12. Super Stars Literacy
13. Tiburcio Vasquez Health Center

What makes this work distinctive?

- Collective Impact

- Common agenda
- Strategic and accountable partnerships
- Shared measurement systems
- Mutually reinforcing activities
- Continuous communication
- Coordination and leadership capacity

Data Highlights

- **5% increase** from 2013 to 2016 of children who have a medical home.
- **18% increase** from 2014 to 2016 of children who are kindergarten ready.
- **95%** of students in 6th through 9th grades attend school regularly.
- **300** families accessed the most recent Fresh Food For Families at Eden Greenway Park.
- **120% increase** in the number of residents who are aware of and or participated in HPN programs and services from 2013 through 2016.

Every Child Deserves a Promise Neighborhood

- Conditions to sustain and scale the work of Hayward Promise Neighborhood
  - Partners committed to mission and vision
  - Resident Civic Engagement
  - Organizational and leadership capacity
  - Opportunities to participate in regional, statewide and national efforts

Every Child Deserves a Promise Neighborhood

"Unity and continued support from HPN makes us all stronger as individuals and as a community."

Item #9 LB 16-108

Zero Net Energy Goal for Municipal Facilities

ZNE Goal for Municipal Facilities

UTILITIES & ENVIRONMENTAL SERVICES

Erik Pearson
Environmental Services Manager

December 6, 2016

Current Policies

- GHG Reduction Goals (General Plan Policy NR-2.5)
  - 20% by 2020
  - 61.7% by 2040
  - 82% by 2050
- CA Building Code to Require ZNE in:
  - Single-Family in 2020
  - Commercial in 2030
- ZNE Policy for New & Retrofits of Municipal Buildings

Current Annual Production

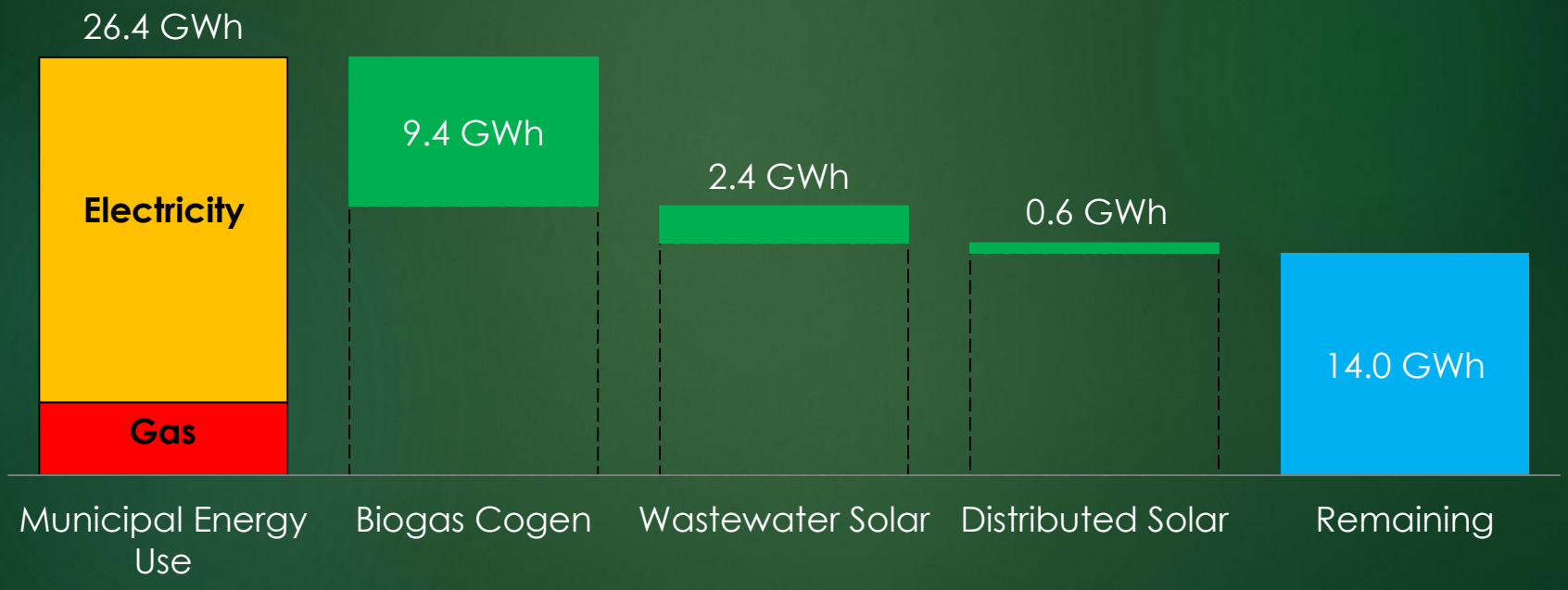
City facilities are producing:

- WPCF CoGen: 9,400,000 kWh
- WPCF Solar: 2,353,000 kWh
- Other Solar: 634,000 kWh
- Total: 12,387,000 kWh

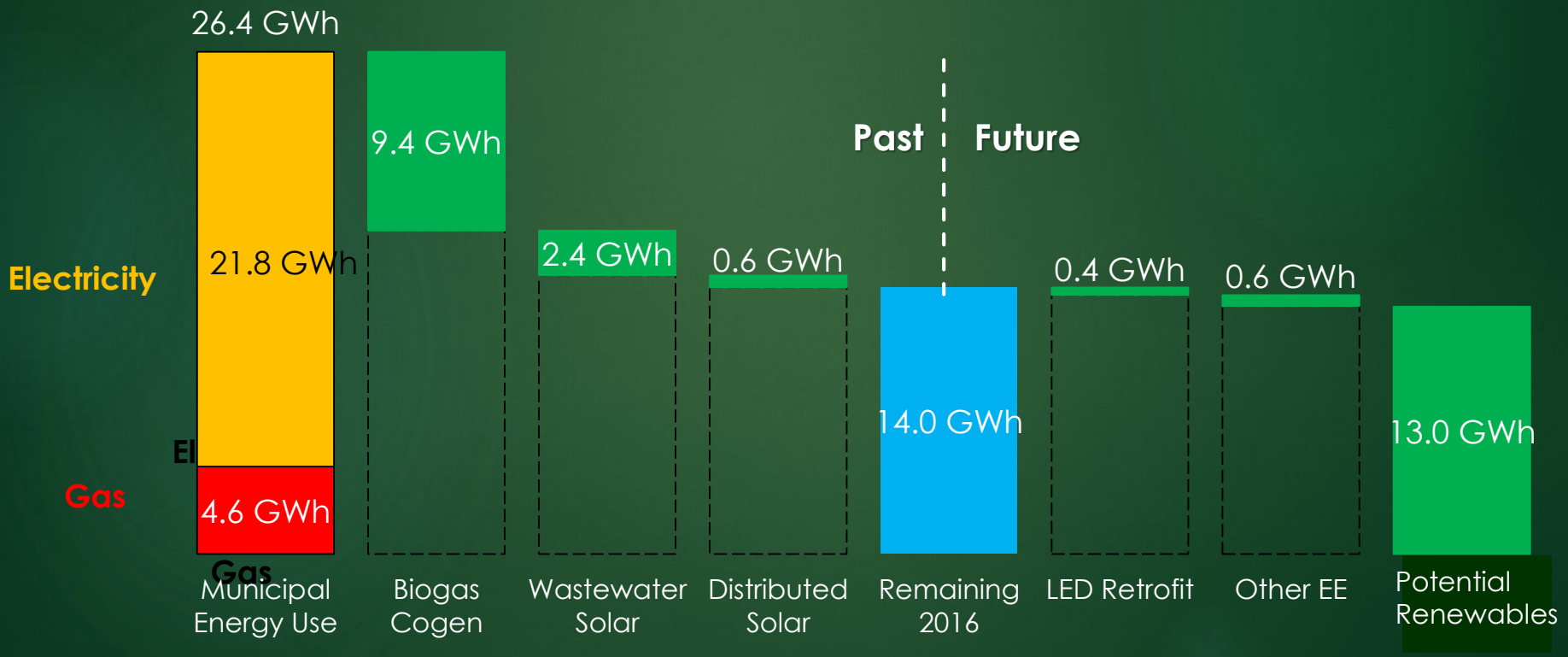
Total Energy Use in 2015

Electricity Used	21.8 million kWh
Electricity Produced	12.4 million kWh
Electricity Purchased	9.4 million kWh
Natural Gas Used (157,000 therms)	4.6 million kWh
Total Renewable Energy to go "ZNE"	14 million kWh
Energy Efficiency Potential	1 million kWh
Total Renewable Energy to go "ZNE"	13 million kWh

Municipal Energy Picture



Path to ZNE


26.4 GWh
21.8 GWh
4.6 GWh
Electricity
Gas
9.4 GWh
2.4 GWh
0.6 GWh
Past
Future
14.0 GWh
0.4 GWh
0.6 GWh
13.0 GWh
Municipal Energy Use
Biogas Cogen
Wastewater Solar
Distributed Solar
Remaining 2016
LED Retrofit
Other EE
Potential Renewables

Sustainability Committee

- Committee recommended that Council adopt a goal of achieving cumulative municipal ZNE by 2025 and made the following comments:

- Prioritize Projects by Cost-effectiveness
- Current Spending
- Cost Savings

Subset of Potential Sites

Description	kWh/year
Police Station	703,000
Cinema Parking Structure	309,000
City Hall	87,000
Watkins Street Parking Structure (2nd half)	446,000
2nd CoGen engine at WPCF	7,000,000
Phase 2 Solar PV at WPCF	2,353,000
Hesperian Pump Station - roofed canopy	336,000
May Road (adjacent to Treeview Reservoir)	612,000

Summary

Description	kWh/year	Cost
Total Potential	15,800,000	
kWh needed for electricity	8,600,000	$15,000,000
Kwh needed for natural gas	4,400,000	
Total Needed	13,000,000	$20,000,000
Excess Potential	2,800,000	

Watkins Parking Structure

28471 Hesperian

1285 Reservoir

1241 Walpert Street

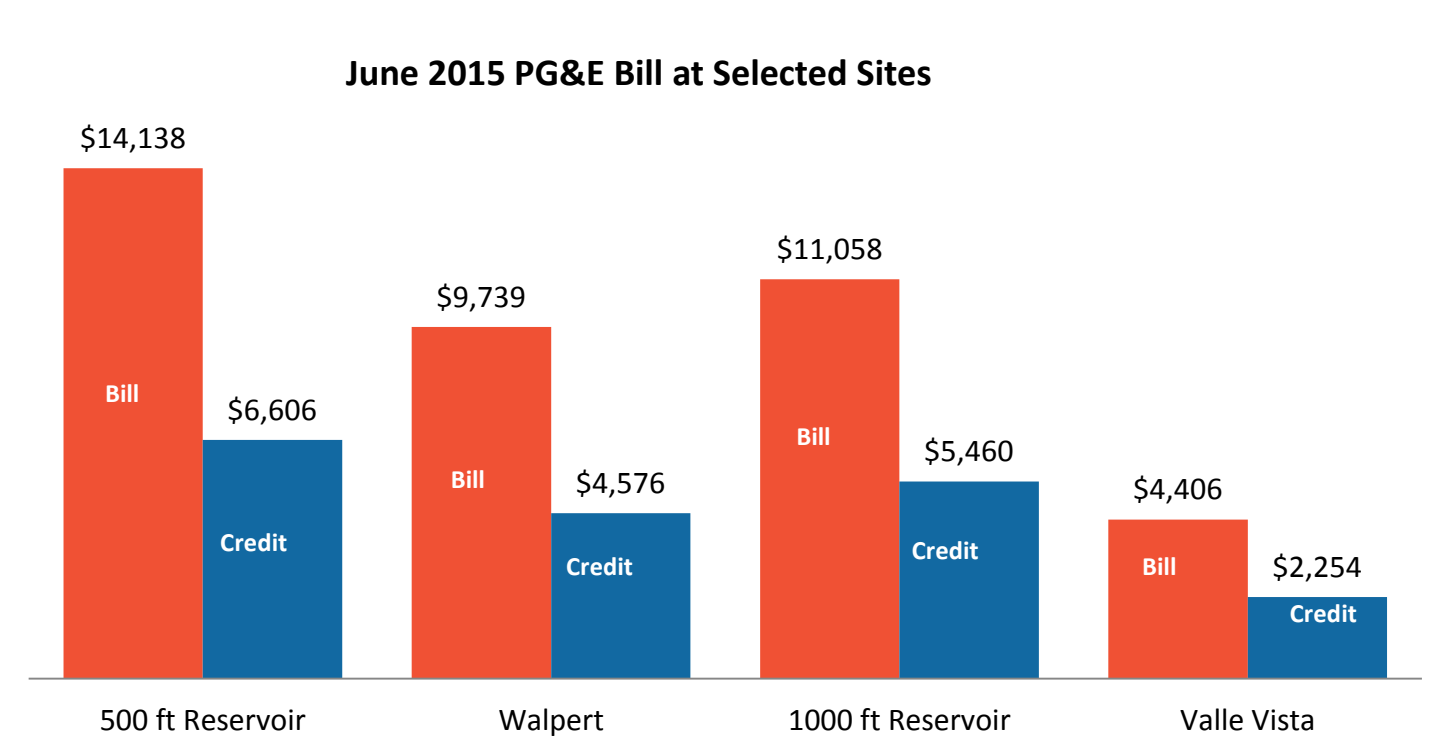
Barnes Court

City Hall

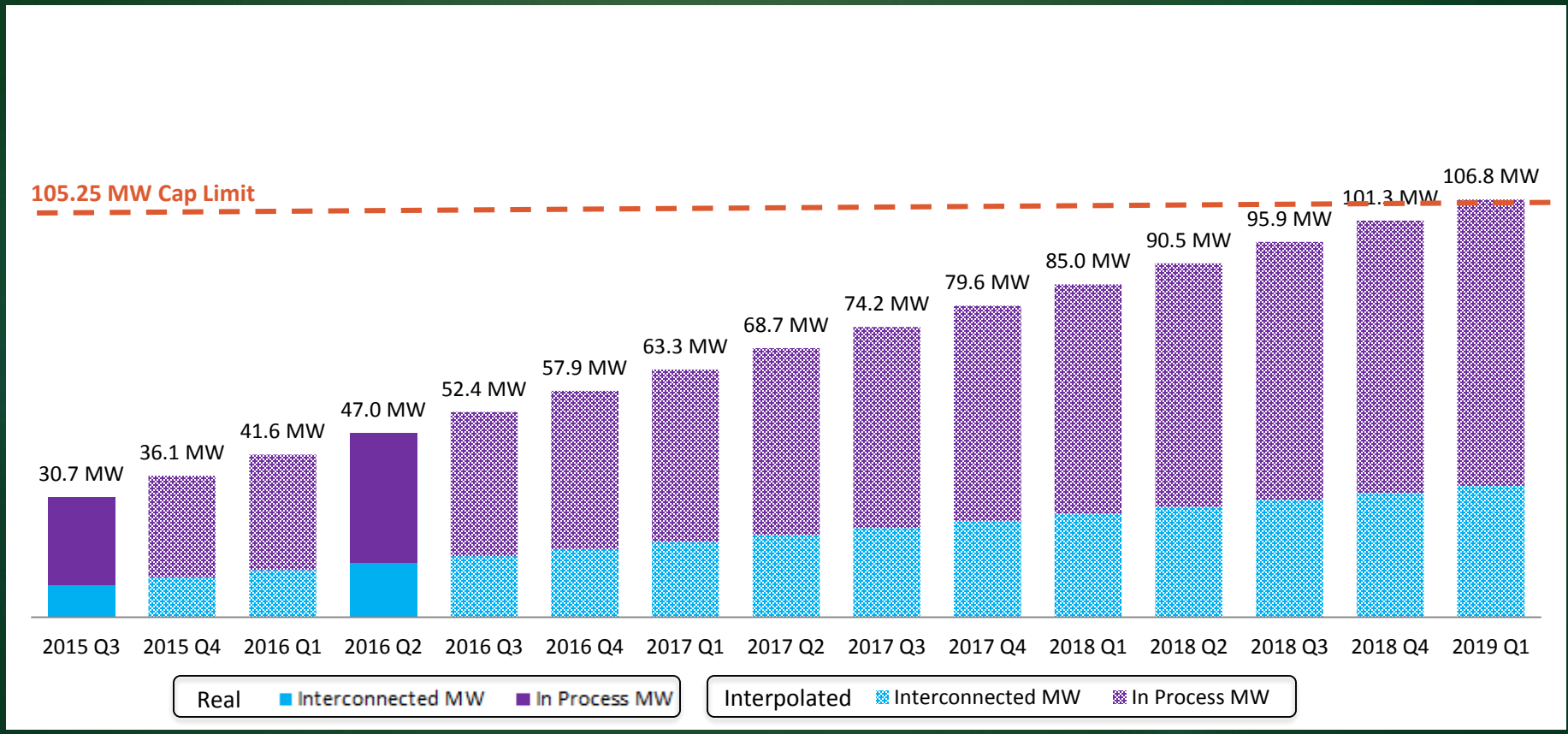
Fire Station 1

RES-BCT Benefits

- RES-BCT only offsets the *generation charge*
- Tariff will likely expire in 2019
- NEM sites cannot receive RES-BCT credits
- RES-BCT cannot be used to offset gas usage
- East Bay Community Energy will likely honor RES-BCT, and may offer a better tariff



RES-BCT Expiring



Net Energy Metering (NEM)

- Allows customers to "sell" excess electricity
- Surplus is paid @ $0.03 - $0.04 per kWh
- City pays PG&E $0.20 to $0.25 per kWh

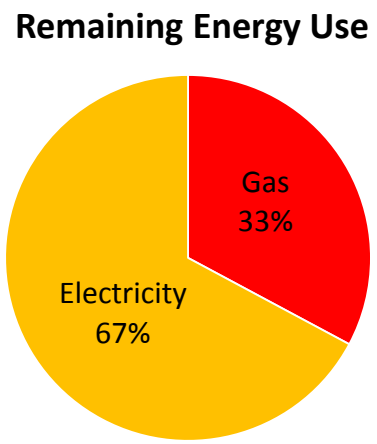
PG&E Tariffs

Recommendations:

- Prioritize sites where RES-BCT will be used due to possible expiration
- Use RES-BCT where energy production has potential to greatly exceed demand
- Where solar cannot meet energy demand, designate as RES-BCT benefiting accounts
- Benefiting accounts can have solar systems as long as those systems do not exceed the demand of the site.
- Use NEM where solar production will closely match site demand.

Natural Gas Options

Option	Work Entailed
1. Offset with Renewable Electricity	Install more solar or a second biogas cogeneration system
2. Electrify Municipal Buildings	Replace gas appliances with electric equivalent
3. Create Biogas Vehicle Fueling Station	Install a biogas fuelling station for municipal vehicles next to the WPCF
4. Install Storage Tanks & Truck Biogas	Install storage tanks at each facility which uses gas and truck biogas to the sites for use



Fiscal Impact

- Annual Energy Cost = $2.3 million
- Total Cost for Renewables = $18 to 20 million
- Payback = 10 to 20 years

Recommendation

- Adopt resolution setting goal of achieving cumulative ZNE for municipal facilities by 2025

Next Steps

- Prioritize installation of renewable energy facilities
- Identify funding
- Incorporate into CIP

Questions & Discussion