Clark County Mosquito Control District (CCMCD)  
History

• Prior to 1982 mosquito control was a function of the SW Washington Health District
• CCMCD established by vote of Clark County residents in 1982 (RCW 17.28)
• CCMCD coordinates with Clark County Public Health
CCMCD Structure

- Board of Trustees: 10 members
- Staffing: Manager and 13 seasonal employees
- Budget: $478,000 for 2016 ($4.05 parcel fee)
- Building and equipment
- Clark County Public Health staff support
CCMCD Work Plan

- **Purpose of CCMCD**: The objective of mosquito management is to keep populations below levels where they become a nuisance or a public health problem leading to an outbreak of disease.
- **CCMCD uses Integrated Pest Management**
  - Primary focus on immature mosquito abatement
  - Endorsed by WA Dept. of Ecology and CDC
- **Various methods used to monitor and control mosquito populations**
Mosquito Surveillance

- Dipping for larvae
Mosquito Surveillance

- Dipping for larvae
- Adult trapping
Mosquito Surveillance

- Dipping for larvae
- Adult trapping
- Service requests
Mosquito Surveillance

- Dipping for larvae
- Adult trapping
- Service requests
- Testing for West Nile Virus
Mosquito Control

- Assessment
Mosquito Control

• Assessment
• Larvae Control
Mosquito Control

- Assessment
- Larvae Control
- **Adult Control**
Zika Virus Vectors

- *Aedes aegypti*, Yellow Fever Mosquito (L)
- *Aedes albopictus*, Asian Tiger Mosquito (R)
Zika Virus Vectors

Distribution of established tiger mosquitoes

- Asian tiger mosquito
- Yellow fever mosquito
- Asian tiger and yellow fever mosquito

* We present these data to the best of our knowledge and belief, but do not give any guarantee that the data are free of errors.
Zika Virus Vectors

- *Aedes aegypti*, Yellow Fever Mosquito
- *Aedes albopictus*, Asian Tiger Mosquito
Potential Distribution of *Aedes aegypti*

Aedes albopictus

The global distribution of the arbovirus vectors Aedes aegypti and Ae. Albopictus
Kraemer, et. al.,
eLife 08347 (2015)
Potential Distribution of *Aedes aegypti* and *A. albopictus*
Clark County Mosquitoes

• Over two dozen species
• Two *Aedes* species:
  – *Aedes vexans* (R)
  – *Aedes cinereus*

Can Zika Virus spread to other species of *Aedes*?
Conclusions

• CCMCD provides mosquito monitoring and abatement for Clark County
• The District coordinates very closely with Public Health
• The District has and will continue to enhance its role in the Zika Virus situation
• At this time, we anticipate no vector-borne Zika spread; but we must remain vigilant.
Questions?