



Mosquitoes in Orange County

City of Garden Grove

Rick Howard

District Manager

Orange County Mosquito and Vector Control District



Mosquitoes

Southern House
Mosquito
Culex quinquefasciatus



- West Nile virus
- St. Louis encephalitis
- Western equine encephalitis

Yellow Fever Mosquito
Aedes aegypti



- Zika
- Dengue viruses
- Yellow fever
- Chikungunya
- West Nile virus
- Dog heartworm

Asian Tiger Mosquito
Aedes albopictus



- Dengue viruses
- Zika
- Chikungunya
- West Nile virus
- Dog heartworm

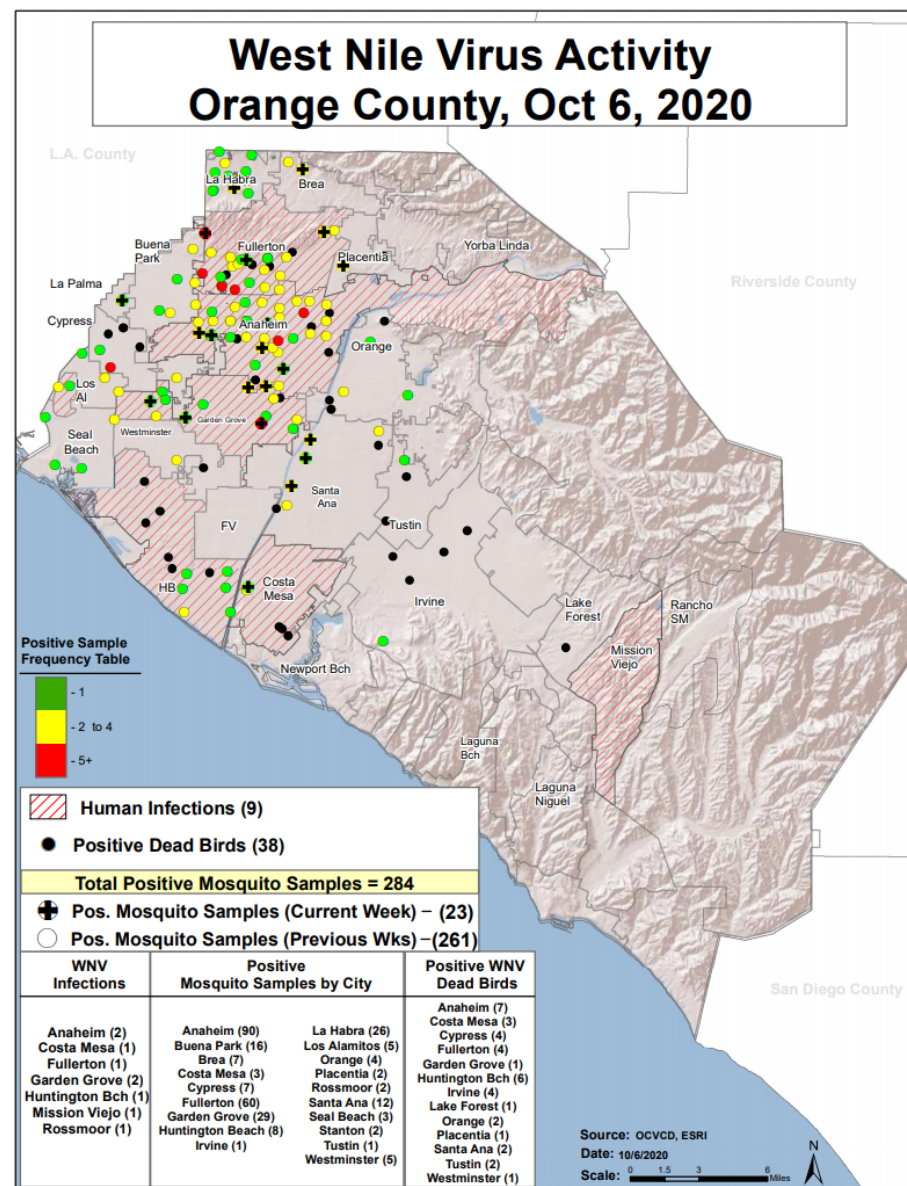


West Nile Virus in OC in 2020

- 284 WNV Positive Mosquito Samples
- 9 WNV Human Cases
- 38 Birds Tested Positive for WNV

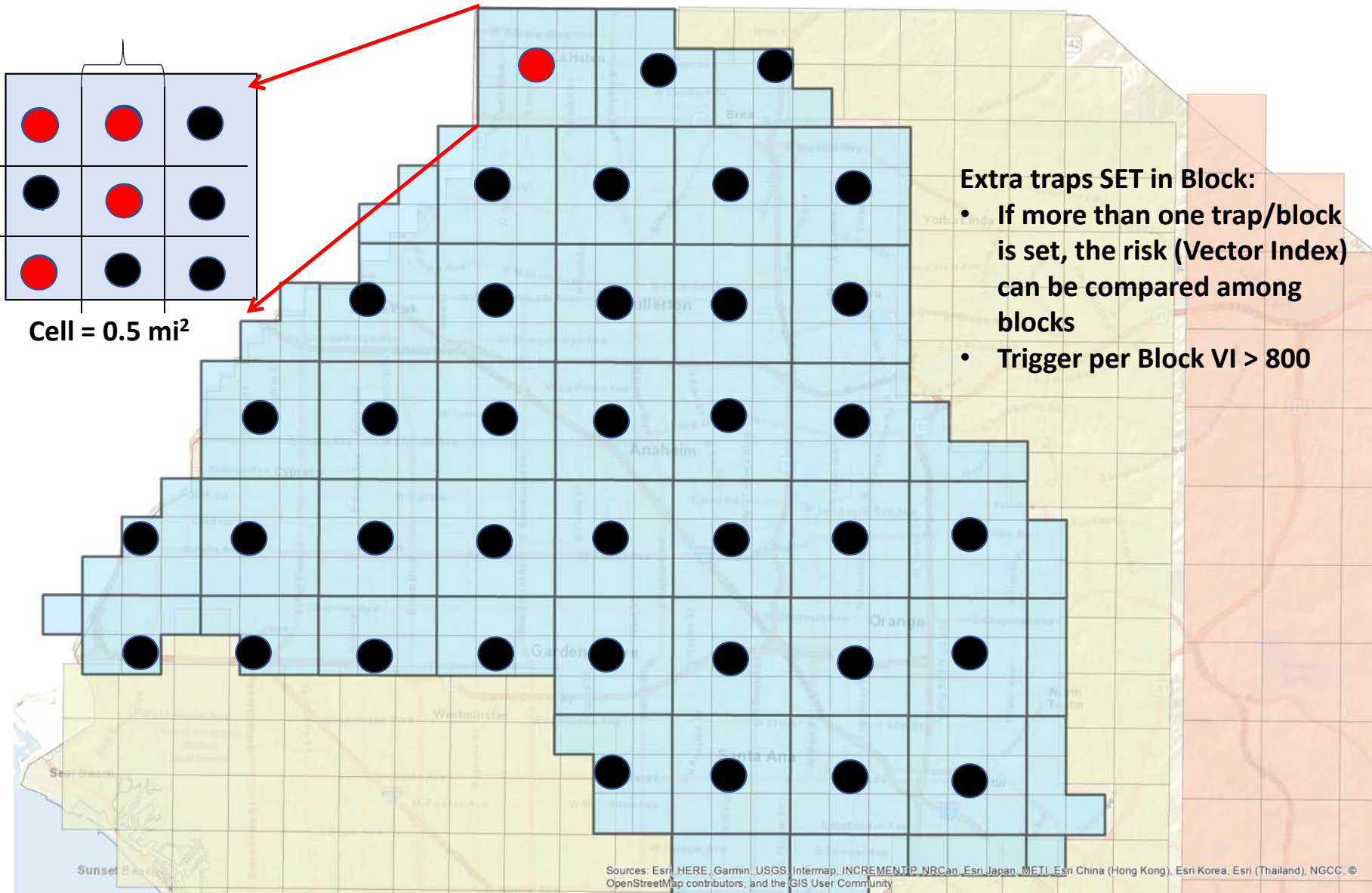
In Garden Grove

- 29 WNV Positive Mosquito Samples
- 2 WNV Human Cases
- 1 Bird Tested Positive for WNV



BLK =
4.5 mi²

Cell = 0.5 mi²

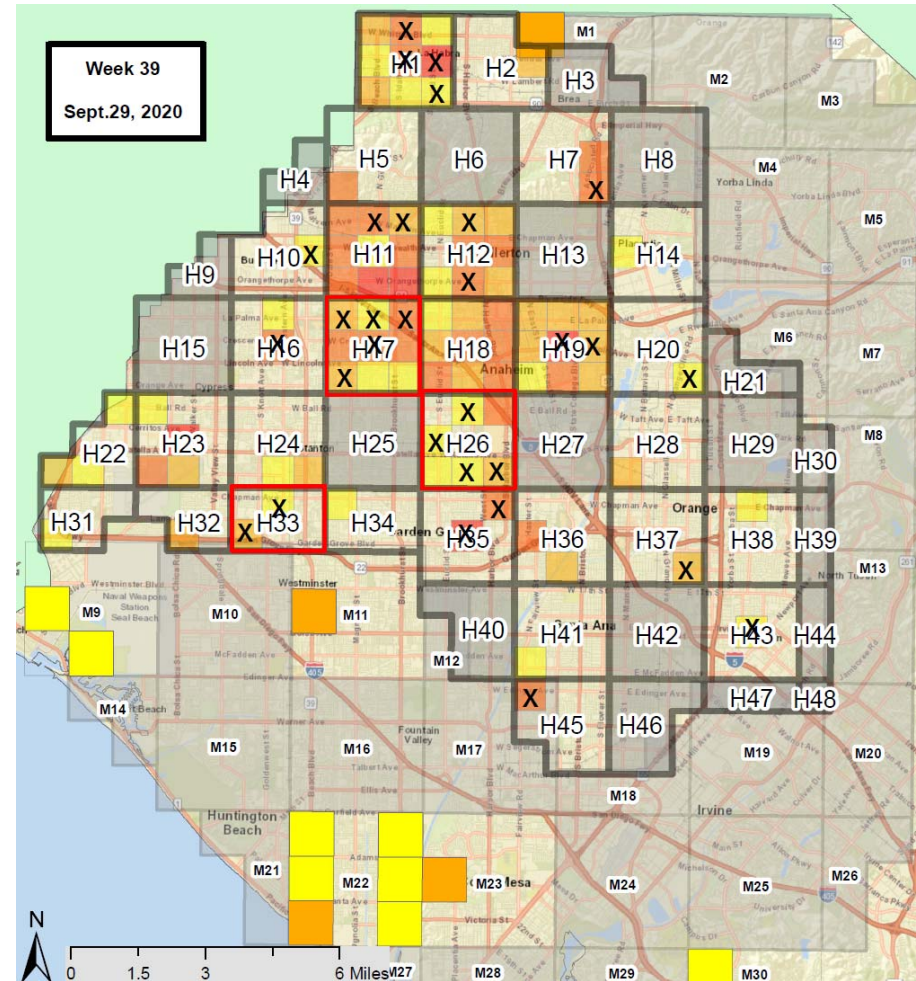


Extra traps SET in Block:

- If more than one trap/block is set, the risk (Vector Index) can be compared among blocks
- Trigger per Block VI > 800

Determining High Risk Areas

- District sets over 100 traps per week
- Extended trapping is initiated with a positive sample
- Control methods are determined based on surveillance data and increased risk for WNV human infection



Integrated Vector Management

Early Intervention

- Advisory Notices
- Treatment of mosquito breeding sources
- Source Reductions
- Surveillance
- **Emergency Response**



PUBLIC HEALTH NOTICE


! West Nile virus has been detected in this area !

Adult mosquito control applications may occur if the area continues to have high West Nile virus activity

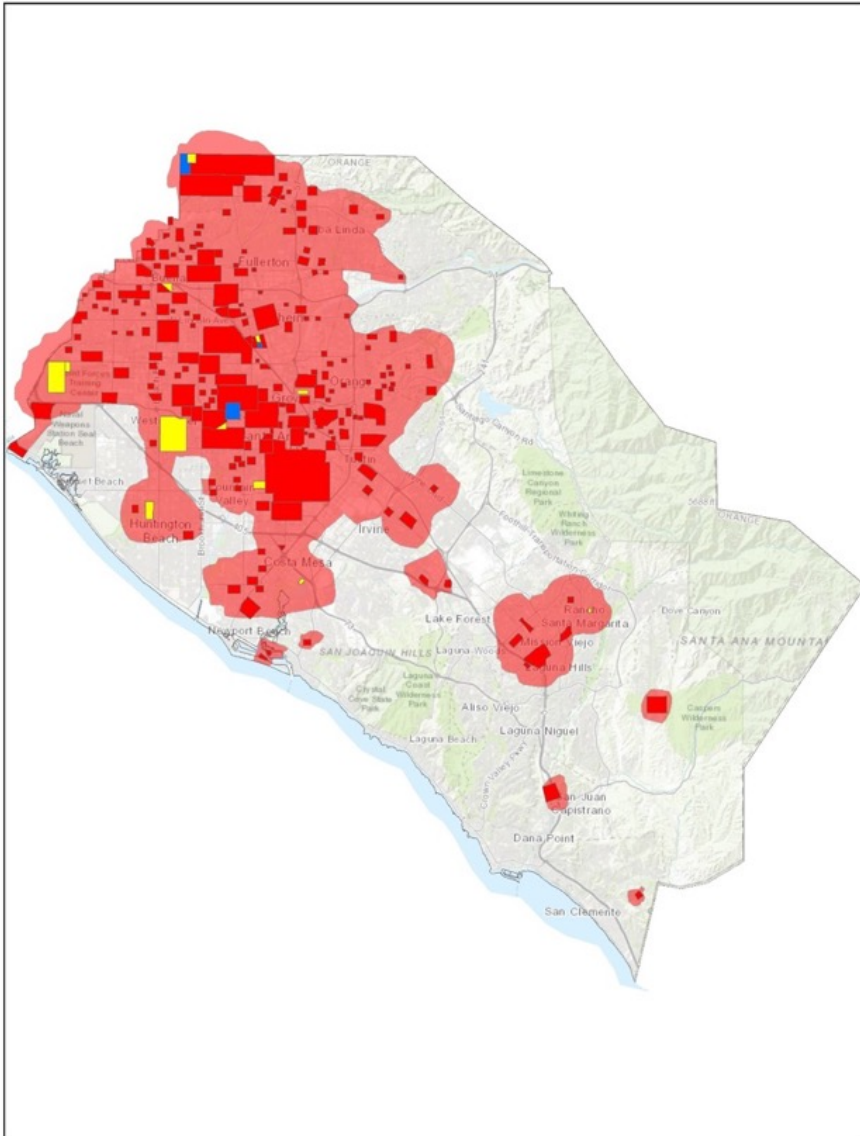
Follow these recommendations to protect yourself and your community:

- Dump or drain any standing water
- Repair window and door screens
- Apply repellent when outdoors
- Avoid spending time outdoors at dawn or dusk
- Report mosquitoes, dead birds, neglected swimming pools, ponds, and fountains

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Invasive Aedes in OC



2016 = 3,500 acres or 5.0 sq miles

2017 = 17,000 acres or 26 sq miles

2018 = 45,600 acres or 71 sq miles

2019 = 67,633 acres or 105 sq miles

2020 = 89,666 acres or 140 sq miles

Livable area of Orange County =
320,000 or 500 sq miles

*Predictions use current data and reasonable assumptions that conditions will not change significantly in the future.



Working Together

- Clean up clutter in the yard.
- Do not grow plants in water-filled buckets or vases - even indoors.
- Remove saucers from under potted plants.
- Remove bromeliads and other plants that naturally hold water from your landscape.
- Scrub outdoor containers that have held water with hot, soapy water to kill mosquito eggs. Store in a dry place.

