

Introduction to Northwest Mosquito Abatement District

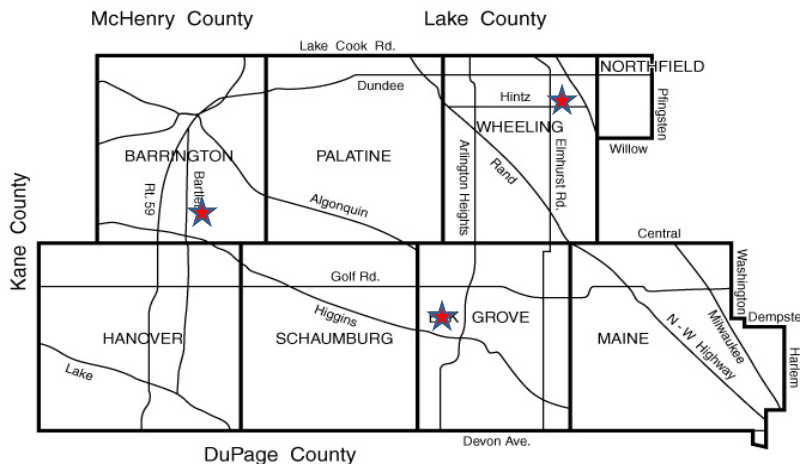
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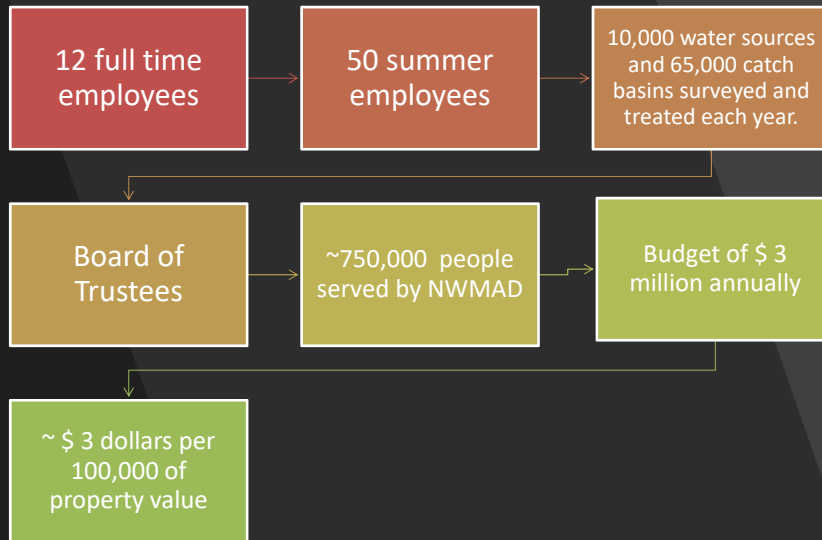


Northwest Mosquito Abatement District

- Formed 1956
- 242 square miles served



The District by the Numbers



Mission of NWMAD

Manage mosquito populations that inhibit peoples' ability to enjoy the outdoors and/or mosquitoes that can carry and transmit diseases to humans.

Use integrated pest management (best management practices) to manage mosquito populations. These include: adult and larvae mosquito surveillance, larval abatement, adult treatment, mosquito habitat source reduction and public education.

District Response to WNV

- Larval surveillance and abatement in over 10,000 aquatic sites, inspections and treatment of over 65,000 storm water catch basins.
- 39 adult mosquito traps run 7 days a week throughout the district
- Vector mosquitoes tested for WNV in lab
- Adult treatment if nuisance mosquitoes > 35 per trap for 3 straight days or WNV detected 2 consecutive days from same trap.



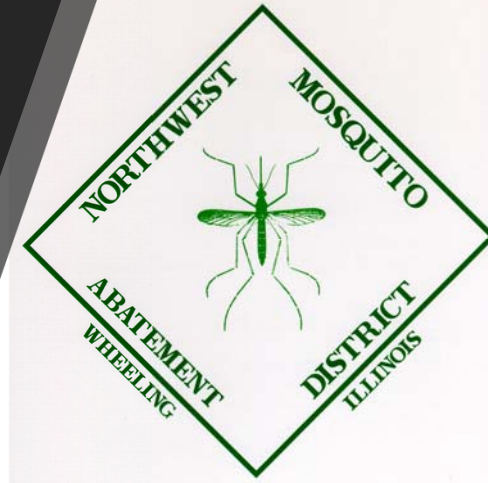
Centers for Disease Control and Prevention Grant.

- 5 year collaboration between academic institutions, public health departments and mosquito abatement districts.
- Increase surveillance and understanding of mosquito and tick borne disease.
 - Loyola University, Northshore MAD NWMAD – Efficacy of storm water catch basin abatement.
 - Michigan State, University of Maryland, NSMAD, NWMAD – Genetic markers for subterranean mosquitoes and ability to transmit WNV.
 - University of Wisconsin, University of Illinois, NSMAD and NWMAD – Efficacy of larvicide and adulticide on mosquito biting rates.



Questions?

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Zika Virus

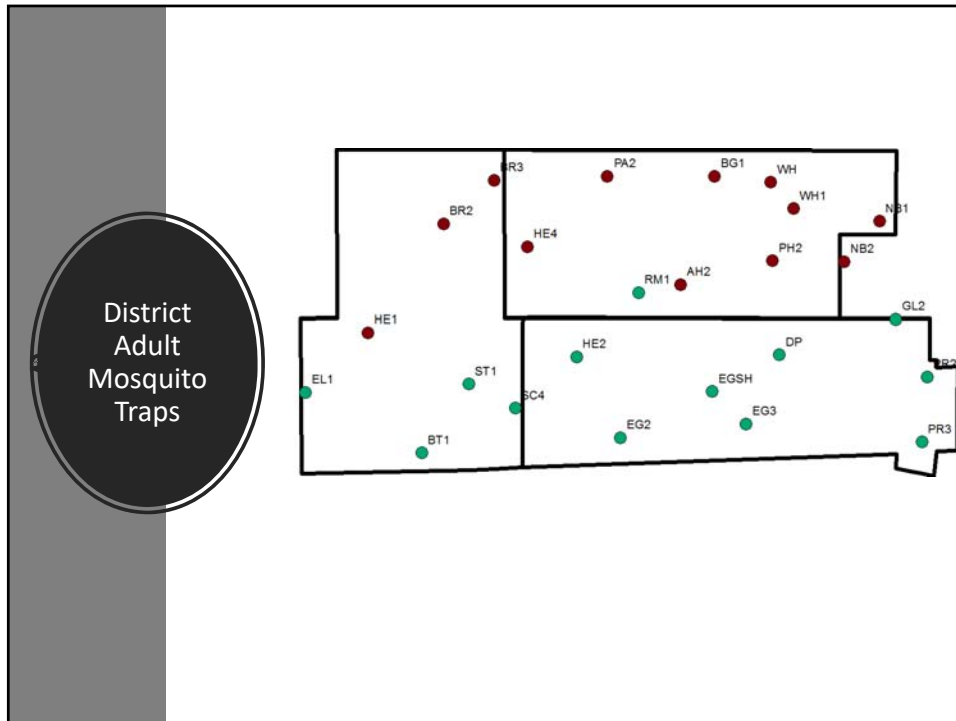
The mosquito species that spread Zika virus are not found in the Chicago area, but can occur in southern Illinois.

The district does monitor for this species in case there is an introduction.

80% of people infected with Zika do not get ill.

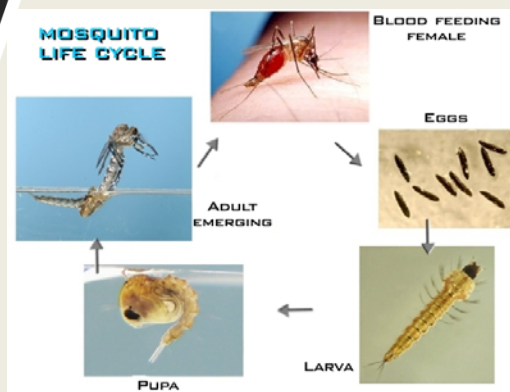
Women who are pregnant, or thinking of becoming pregnant, should consult their physician before traveling.

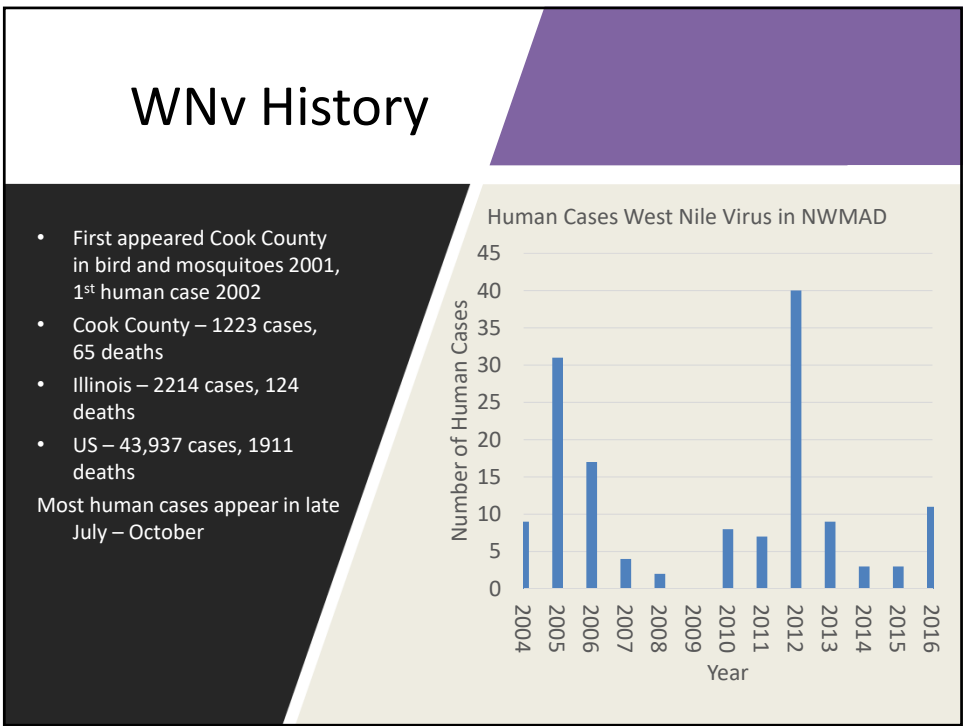
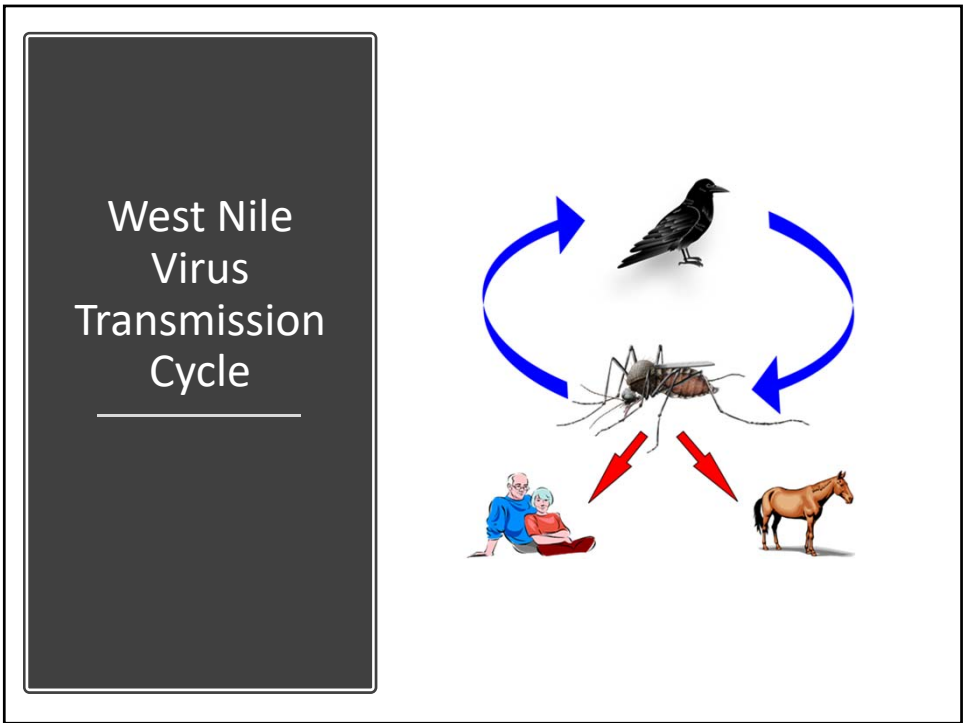
Local transmission has occurred in southern Florida and Texas in 2016. Only one local transmission case in 2017 (Texas)

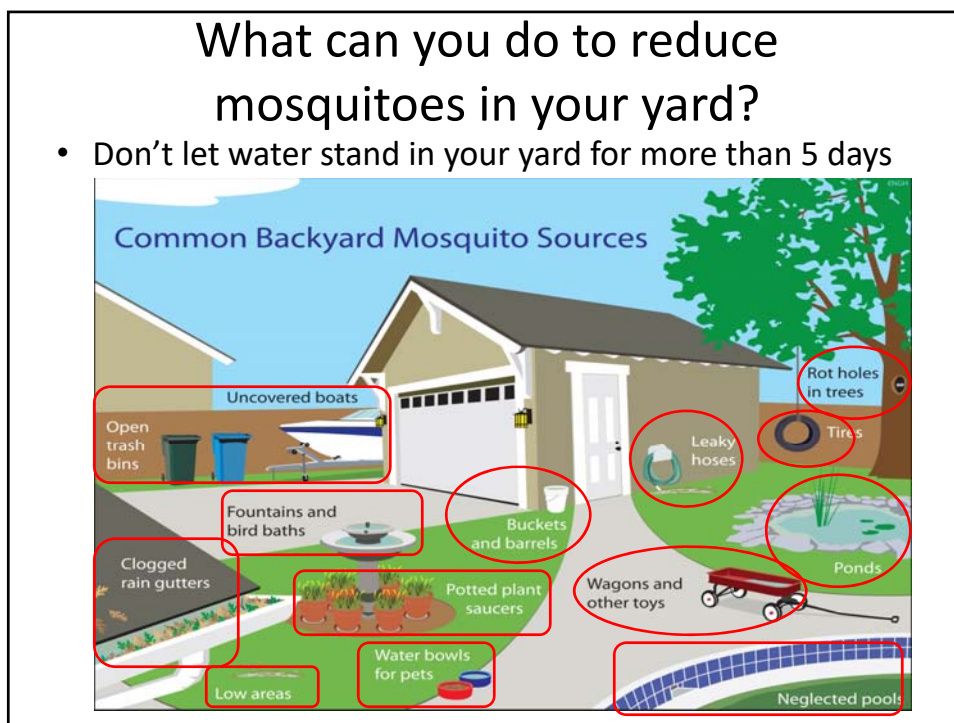
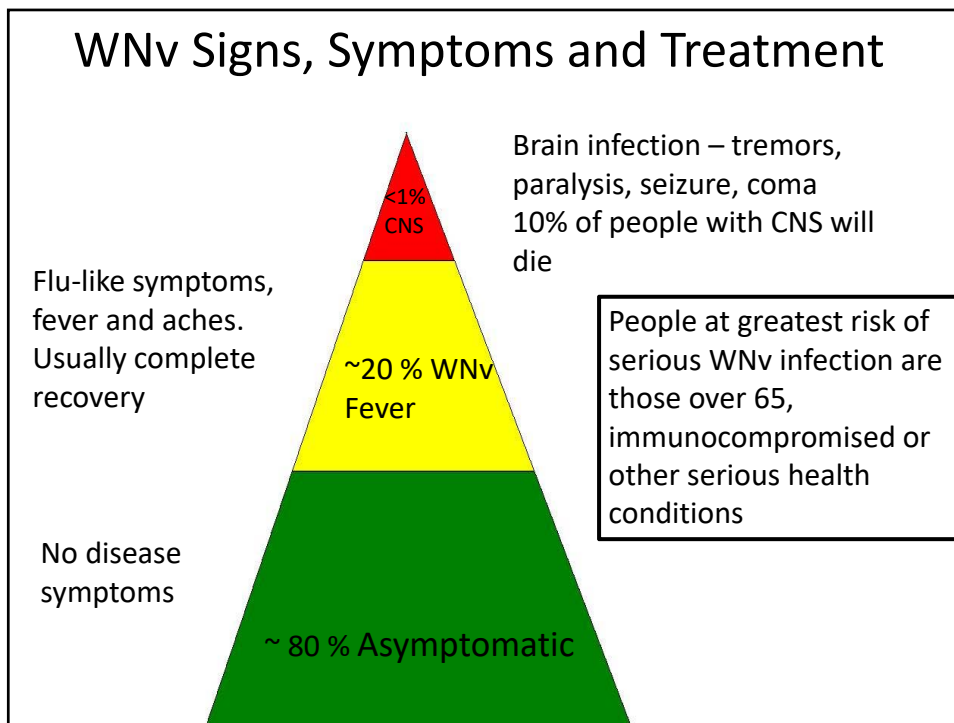


Mosquito Facts

- ~ 30 species of mosquitoes in our district
- 2 main types of mosquitoes
 - Floodwater – most common nuisance biter of humans
 - Disease vector – carries West Nile virus
- Only females take blood







Mosquito larvae



How can you reduce mosquito bites?

- Wear long sleeves/pants when outdoors
- Avoid being out at dusk and dawn
- Wear insect repellent when mosquitoes are present
 - 20 % DEET, Picaridin, Oil of lemon eucalyptus
- Drought conditions are favorable for WNV vector mosquitoes.

