NEATO MOSQUITO

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Mosquito Life Cycle

Egg

Larva

Pupa

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EGGS

Female laying egg raft on permanent water

Floodwater eggs

Electron Micrograph of Mosquito Eggs

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LARVA

Mouth brushes filter food particles from the water

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PUPA

Trumpets

Wing

Eye

Swimming paddles

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ADULT EMERGING FROM PUPA

Pupal skin splits along top and adult wriggles out

Adult emerging from pupal skin

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ADULT MOSQUITO

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ADULT MOSQUITO

Male has bushy antennae

Female's antennae less hairy

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Mosquito Habitats

Swamps and standing water

Floodwater

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Container Habitats

Treeholes

Man-made

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Host Location

Close:
Heat
Moisture
Vision

Far:
Carbon Dioxide

(Artwork courtesy of: Mosquitoes in the Classroom)

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Mosquito Blood Feeding

Labium (sheath) folds back as stylets enter the skin

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Food Chains

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MOSQUITO-TRANSMITTED DISEASE

Malaria

Yellow Fever

Dengue

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Viral Encephalitis in the United States

Western Equine Encephalitis: Bird-Mosquito Cycle

Eastern Equine Encephalitis: Bird-Mosquito Cycle

St. Louis Encephalitis: Bird-Mosquito Cycle

LaCrosse Encephalitis: Chipmunk-Mosquito Cycle

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LaCrosse Virus Cycle

VIRUS

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LaCrosse Encephalitis

Average: 75 cases/year.

Cases have been reported from 28 states in the eastern half of the country.

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LaCrosse Encephalitis

Symptoms	Aftereffects
Headache, Fever	Nervousness
Nausea, Vomiting	Restlessness
Dehydration	Personality changes
Lethargy (tiredness)	
Disorientation	
Seizures	
Paralysis	
Coma	

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Container Habitat Survey Form

Name _____

Container type	Number seen in yard	Total in yard
Treeholes		
Cans (tin cans or pop cans)		
Cups (plastic or Styrofoam)		
Bottles (glass or plastic)		
Pet bowls		
Buckets		
Tires		
Barrels		
Flowerpots (that hold water)		
Toys (that hold water)		
TOTAL		

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Container Habitat Survey

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Container Habitat Survey

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LaCrosse Encephalitis Risk Factors

- Living in areas where the virus cycle occurs.
- Exposure to treehole mosquitoes.
- Artificial containers around the home.

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LaCrosse Encephalitis Risk Reduction

- Remove artificial containers from around the home
- Use mosquito repellents containing the active ingredient DEET (not greater than 30%).

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Balancing Mosquito

Back view: Place pennies at wing tip and toothpick behind proboscis

(Artwork courtesy of: Mosquitoes in the Classroom)