

Vector Borne Diseases
Arthropods, Birds and Mammals of
Public Health Significance

Satellite Conference and Live Webcast
Wednesday, July 26, 2017
2:00 – 3:30 p.m. Central Time

Produced by the Alabama Department of Public Health
Distance Learning and Telehealth Division

Faculty

Phyllis Mardis
Public Health
Environmental Supervisor
Alabama Department of Public Health



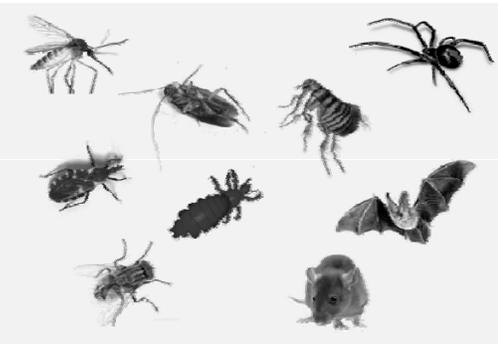
•What is a Vector?



•What is the difference between a vector and a vermin?



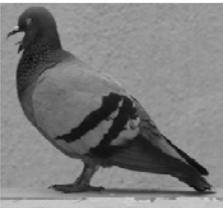
Vectors of Public Health Concern



**Vectors and Pests
of Public Health Concerns**

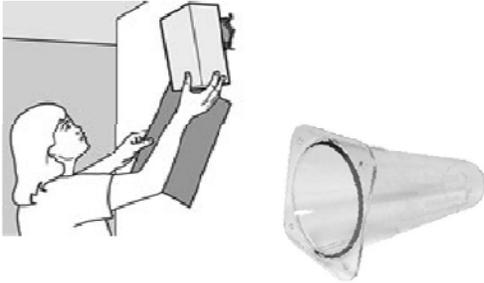
- Bats
- Bird
- Cockroaches
- Flies
- Kissing bugs
- Mosquitoes
- Rodents
- Ticks
- Bed bugs

Bats and Birds



- Rabies
- Salmonellosis
- Histoplasmosis

Bat and Bird Roosts Eradication



Cockroaches

- Diarrhea
- Dysentery
- Salmonellosis
- Cholera



Cockroach Management



Clean up

Flies

- Typhoid
- Paratyphoid
- Cholera
- Dysentery
- Giardiasis
- Conjunctivitis
- Leishmaniasis



Fly Control

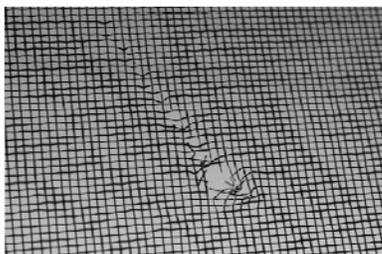
- **Basic Control**
- Screening/caulking
- Fly swatters
- Fly paper
- Vacuuming
- Insect bombs
- Remove breeding materials



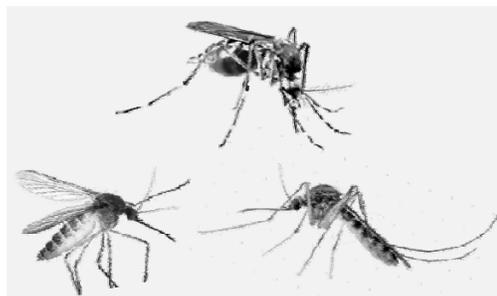
Kissing Bug



Kissing Bug Bite Prevention



Mosquitoes



Avoiding Mosquito Bites

3-Ts } Tip
 } Toss
 } Treat

 &

3-Ds } Drain
 } Dress
 } Defend

Rodents – Rats and Mice



- Rats - most dangerous mammal
- Commensal
- Disease
 - Bites
 - Fleas
 - Mites
 - Urine/Feces

Rodent-borne Diseases

- Rat-bite fever
- Leptospirosis
- Salmonellosis
- Trichinosis
- Plague
- Hemorrhagic fever
- Hantavirus
- & others



Rodent-borne Disease Management



Tick Borne Diseases

- Rocky Mountain Spotted Fever
- Typhus
- Rickettsial pox
- Relapsing Fever
- Tularemia
 - and others
- STARI
 - Lyme



Tick Bite Prevention

- Avoid habitat
- Reduce population
- PPE
 - Long sleeves
 - Long pants
 - Repellent
- Inspect & remove

Bed bugs



Bed Bug Control



Ekbom's Syndrome



Pest Management Integrated Pest Management

- Prevention - Sanitation and habitat modification
- Identification - locating and monitoring
- Treatment - Pesticides
- Exclusion - build them out

Contact Information

**Phyllis Mardis
Public Health
Environmental Supervisor
Alabama Department of Public Health
(334) 206-5373
Phyllis.Mardis@adph.state.al.us**