2016 Utah Zika Planning Summit
“Vector Control”
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Aedes aegypti
(Yellow Fever Mosquito)
Aedes albopictus
(Asian Tiger Mosquito)

“Invasive Aedes”

CHIKV, DEN, YF, ZIKV

Sylvatic cycle
spillover
Forest dwelling
Aedes aegypti

“Urban” epidemic cycle

Aedes aegypti
Aedes albopictus
Aedes Mosquitoes

- Highly invasive
- Container-inhabiting (eggs)
- Peridomestic
- Major nuisance (feed on man)
- Emergent/efficient vector
- Difficult to control

**BIG PEST and PUBLIC HEALTH CONCERN**

**Aedes aegypti**

**Aedes albopictus**

**Culex pipiens**

**Integrated Mosquito Management**

Research, Training & Operations, Public Education, Larval, Adult, Larvicide, Control, Surveillance

**Mosquitoes REQUIRE water**
Utah 3rd state to pass mosquito abatement legislation
SLCMAD – 1924

Urban Jungle

Suburban Jungle
Door-to-door Source Reduction

- Labor intensive
- Time consuming
- Demoralizing
- Access issues
- Recurring trash

Vector Control Guidelines

1. Action plan
2. High risk areas
3. Communication
4. Resources & logistics
5. Community involvement
Phase 1
(Vector Biting or Virus Introduction)

1. Increased surveillance
2. Insecticide susceptibility
3. Community outreach
4. Larval control
5. Adult control

Utah Mosquito Control Needs

1. Traps (BGS/LOT...)
2. Predictive modeling
3. Public relations (Personal protection, source reduction, pesticide safety, vigilance...)
4. Insecticide monitoring
5. Enforcement
6. Collaborations (DOT, DPW, City, AmeriCorps...)
7. COMMUNICATION

www.citizenscience.us

Invasive Aedes training coming soon!