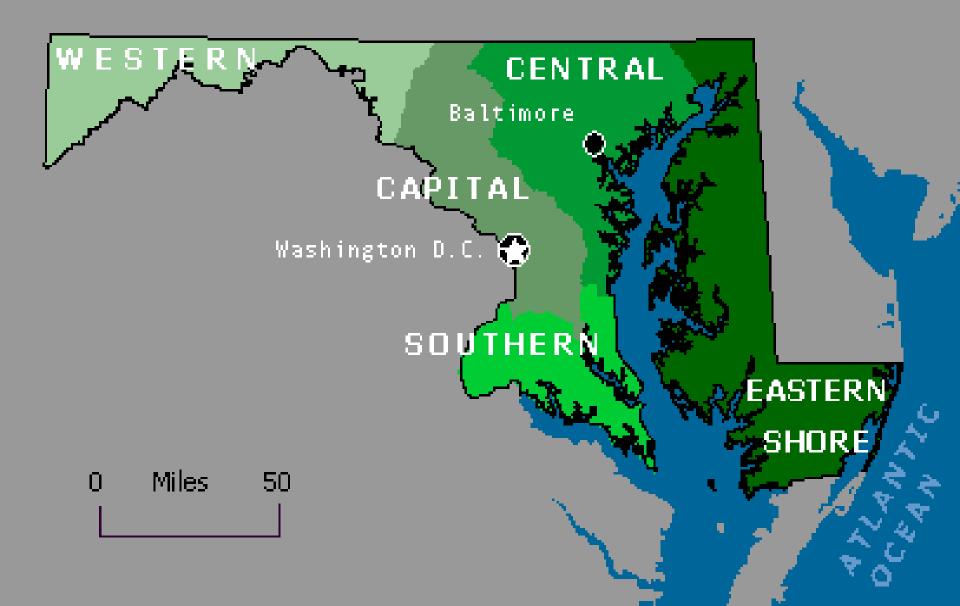
# **Maryland 2019 Update**



# Statewide Statistics

Acres Treated: (Ground Control Only)

Adult Control:	1,148,628
Larval Control:	636
OMWM:	647
Total Acres Treated By Ground Control	1,149,911

### **Aerial Applications**

Larvicide	5,978 acres
Adulticide	95,418 acres
Total	101,396 acres



20,797 acres in response to positive pools

#### **Eastern Shore**

- Above average tides (Ongoing Issue)
- Salt marsh species controlled by aircraft



# Maryland's Top 3



Ae. sollicitans

Cx. species

An. species



#### Maryland Arbovirus Surveillance Results, 2019

Surveillance Season: July 1 - October 31, 2019

#### Data Current as of November 20, 2019

Population	WNV	EEE	Total
Humans	4*	0	4*
Mosquito Pools	6	3	9
Equines	0	1	1
Birds	0	0	0

#### Humans

Region	Pediatric	Adult	Total
National Capitol Region	0	3*	3*
Baltimore Metro Region	0	1	1
Total	0	4	4

<sup>\*</sup>Travel-associated case

#### **Mosquito Pools**

Region	WNV	EEE	Total
Eastern Shore	0	3	3
National Capitol Region	6	0	6
Total	6	3	9

#### **Equines**

Region	WNV	EEE	Total
Eastern Shore	0	1	1
Total	0	1	1

#### Birds

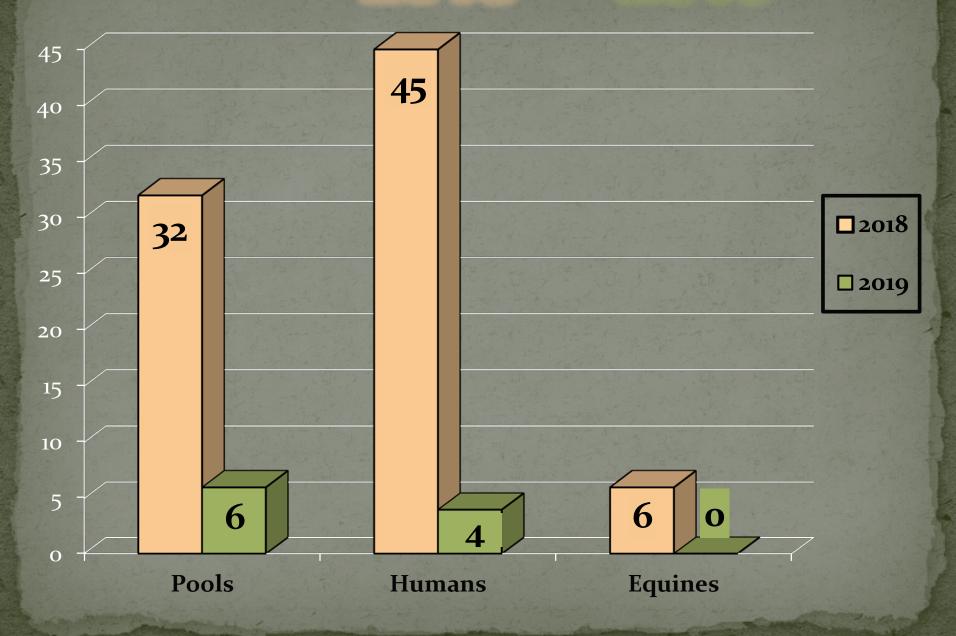
Jurisdiction	Species	WNV	Total
None reported to date.			0
Total			0

# **Arboviral Surveillance: An Inter-Agency Coordination**

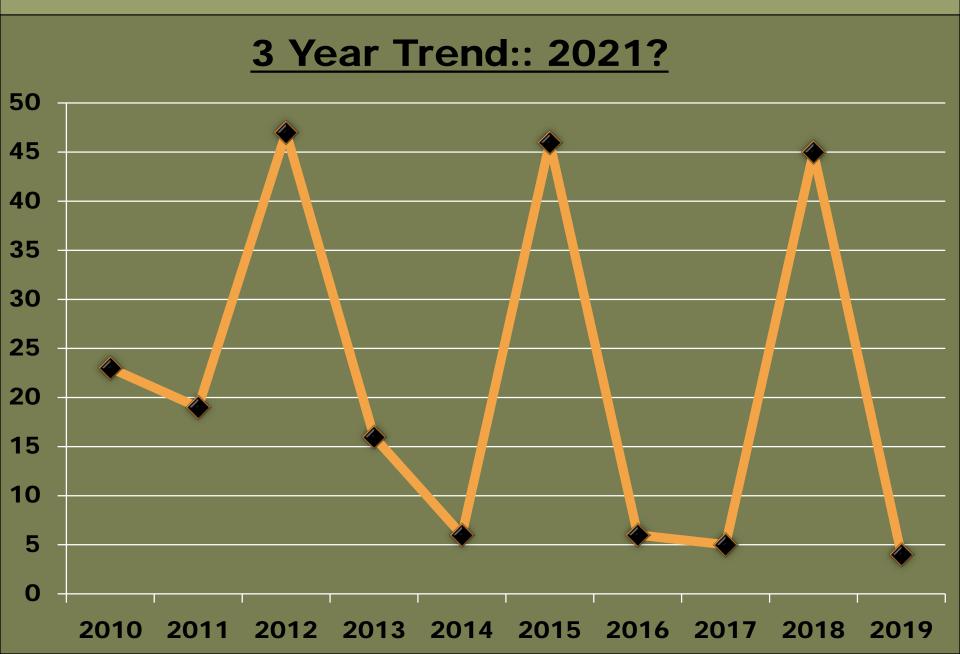
- Mosquito pools collected by:
  - Maryland Department of Agriculture
  - Maryland Department of Natural Resources
  - United States Department of Defense

- Mosquito pools are tested by
  - Maryland Department of Health

#### WNV: 2018 vs 2019



#### **WNV Human Cases**



## **Mosquito Control + Black Fly Control**



Photo courtesy of www.dep.pa.gov

WHO: Maryland Department of Agriculture, Department of Natural Resources, University of Maryland **Department of Entomology** 

**WHAT: Black Fly Control** 

WHEN: Started in 2017

5 - monthly applications per year

WHERE: Potomac River in Washington County, MD

WHY: Response to Citizen Requests

HOW: BTI applied by helicopter



credit: Oklahoma State University)

**Modeled from** PA's program

### What do ya'll do in the winter time?





- "Off Season" November April
- -- Annual maintenance of Crisfield tidal dike/gate systems
- -- OMWM Projects: New projects every year



#### **Corrosion of Steel**

**Pipes Rust** 

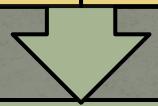
Pipes Unravel



#### **Gaps in Pipe**

Water Flows in Gaps

Water Erodes Berm



#### **Breech in Berm**

Dike System Failure

Tidal Water Floods Inland





### 1<sup>st</sup> Time Install with Plastic Pipe



### Repair Heavy Equipment

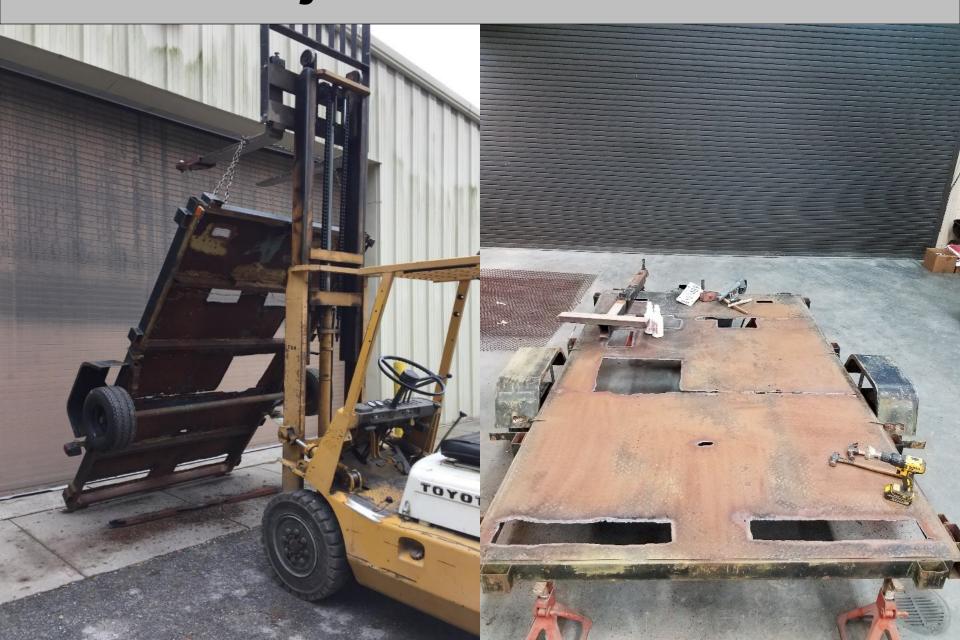
- ~ Track pads are made of aluminum
- ~ Oak boards rot & buttons wear down
- ~ Track chain becomes loose: needs tightening
- ~ Routine Maintenance: oil, filters, grease bearings, replace hydraulic oil, etc.







### Winter Projects: Rebuild Old Trailer







- -- Facility maintenance: pruning, mulching, raking, tree felling, snow removal, etc.
- -- Building repairs and upgrades: painting, welding, fabrication, carpentry, flooring, electrical wiring & conduit, rain gutter cleaning/repairs, etc.
- -- Budget reviews, invoicing, compilation and analysis of field data & statistics, etc. «Continuously engage in projects that improve our program and facilities»

