

***Ochlerotatus dorsalis* Surveillance in Southwest PA – Bryan Diehl (PA EPD)**

- a) Little Blue Run Impoundment area
 - i) Waste facility for power plant
 - ii) Sludge from scrubbers pumped to impoundment
 - iii) 1200 acre total – 300 to 500 acres breeding mosquitoes at any time
 - iv) Originally an open water lake
 - v) Switched to a geotube plan in 2006 and expanded site
 - vi) “funky” water
 - (1) Brackish water
 - (2) Alkaline
 - (3) Grass seeded on hardened sludge – organic pools created
- b) Populated areas surrounding impoundment
- c) Issues – 2006
 - i) Numerous complaints began in mid-July
 - ii) Very aggressive mosquitoes found in area
 - iii) Species found
 - (1) *Oc sollicitans*
 - (2) *Cx salinarius*
 - (3) *Oc dorsalis*
 - (4) Some others
 - (a) Will fly up to 20 miles for a blood meal
 - (b) Multivoltine
 - (c) Possible disease vector
 - iv) Livestock issues
 - (1) Reduction in milk production
 - (2) Horses kicking stalls
 - v) Human issue
 - (1) No one could mow grass
 - (2) Sports had to be discontinued
 - vi) WNV activity near site
- d) Planning – 2007
 - i) Met with various agencies associated with power plant
 - ii) FirstEnergy contracted with ADAPCO to do control inside impoundment – start date May 1st
 - iii) Public meeting – May 1st
 - iv) FIRST BROOD CAME OFF APRIL 25TH
 - v) Control
 - (1) ADAPCO contracted with adjacent states that were being impacted
 - (2) PA DEP and local mosquito control did adult control outside of impoundment
 - (3) ADAPCO – aerial Bti
 - (4) Problems
 - (a) Very warm water – quick life cycle turn around
 - (b) Difficult access
 - (c) High grass
- e) What next - 2008
 - i) Starting control earlier
 - ii) Already doing surveillance
 - iii) Anticipating fewer problems
- f) Who is taking responsibility for control

- i) They have a no-mosquito clause in their permit
- ii) They have paid for control in the impoundment only