

## **2015 Kentucky's Equine West Nile Virus (Updated 10/09/2015)**

Eight (8) Cases Reported

Animal's Disposition: Eight (8) survived, Zero (0) euthanized

Animal's West Nile Vaccination Status: Seven (7) not vaccinated, One (1) vaccination unknown/pending

Affected Counties: Bourbon (1), Crittenden (1), Fayette (1), Jefferson (1) Montgomery (1), Nelson (2), Shelby (1)

The last reported cases of EEE affecting horses in Kentucky occurred in 2013 (a 10yo, TWH, non-vaccinated gelding in Logan County and a second case occurred in a 17yo QH mare in Carlisle County). Both horses had no known vaccination history and each animal expired. Prior to these cases, the most recent diagnosis was in 2008 (6mo Paint filly, non-vaccinated), and in 1995 (an 8yr female, Western Kentucky, non-vaccinated).

**SURVEILLANCE:** The Departments of Agriculture and Public Health have included EEE in our arbovirus surveillance. Mosquitoes being screened for West Nile Virus are also tested for Eastern Equine Encephalitis virus. In addition, equine suspected of having contracted an encephalitic condition are being tested for West Nile and when warranted the sample is forwarded to the National Veterinary Services Laboratory for EEE screening.

### *Equine West Nile Virus – Historical Data 2001 – 2017 Summary*

744 Confirmed Equine West Nile Cases

95.69% (712) Not Adequately Vaccinated\*

29.97% (223) Case Mortality Rate\*\*

\*Not-vaccinated during 12mo period preceding onset or received only initial vaccination (no booster)

\*\*Confirmed by Case Definition

### **Annual Reports of Equine West Nile Cases**

- 2001 West Nile 8 Confirmed Equine West Nile Cases 0% Vaccinated  
75% (6) Mortality Rate of Affected Equine

- 2002 West Nile 513 Confirmed Equine West Nile Cases / 97% (496) Not Vaccinated within previous 12 months  
27% (137) Mortality Rate of Affected Equine
- 2003 West Nile 102 Confirmed Equine West Nile Cases 94% (96) Not Vaccinated within previous 12 months  
34% (35) Mortality Rate of Affected Equine
- 2004 West Nile 8 Confirmed Equine West Nile Cases 100% (8) Not Vaccinated within previous 12 months  
50% (4) Mortality Rate of Affected Equine
- 2005 West Nile 9 Confirmed Equine West Nile Cases 100% (9) Not Vaccinated within previous 12 months  
33% (3) Mortality Rate of Affected Equine
- 2006 West Nile 18 Confirmed Equine West Nile Cases 100% (18) Not Vaccinated within previous 12 months  
44% (8) Mortality Rate of Affected Equine
- 2007 West Nile 6 Confirmed Equine West Nile Cases 100% (6) Not Vaccinated within previous 12 months  
33% (2) Mortality Rate of Affected Equine
- 2008 Equine Cases 5 Equine West Nile 80% (4) Not Vaccinated within Previous 12 months  
20% (1) Vaccination Status Unknown  
0% Mortality  
1 EEE Confirmed - Not Vaccinated\* - Deceased \*Vaccinated EEE ~72hrs prior to onset
- 2009 Equine West Nile Cases 8 Confirmed Equine West Nile Cases 87.5% (7) Not Vaccinated within previous 12 months 12.5% (1) Vaccination Status Unknown  
12.5% Mortality Rate of Affected Equine
- 2010 Equine WNV 6 Confirmed Equine West Nile Cases 100% (6) Not Vaccinated within previous 12 months  
50% (3) Mortality Rate of Affected Equine
- 2011 Equine WNV Map 1 Confirmed Equine West Nile Case 100% (1) Not Vaccinated within previous 12 months 0.0% Mortality Rate of Affected Equine
- 2012 West Nile Virus 13 Confirmed Equine West Nile Cases 9 Not Vaccinated, 3 Partially Vaccinated, 1 Reportedly Vaccinated 54% Mortality Rate of Affected Equine
- 2013 Equine West Nile and EEE Map 12 Confirmed Equine West Nile Cases 100% (12) Not Vaccinated within previous 12 months  
83% (10) Mortality Rate of Affected Equine Note: 2 EEE , Not Vacc, Both Expired
- 2014 Equine West Nile 4 Confirmed Equine West Nile Cases 75% (3) Not Vaccinated within previous 12 months (1 Unknown Status)  
75% (4) Mortality Rate of Affected Equine
- 2015 Equine West Nile Cases 8 Equine Confirmed West Nile Cases 87.5% (7) Not Vacc and (1) not thought to be vacc w/in prev 12mon  
100% (8) Reported as surviving
- 2016 Equine West Nile Cases 7 Equine Confirmed West Nile Cases 100% (7) Not Vacc and 100% (7) Reported as surviving.  
Affected Counties: Barren (1), Bourbon (1), Hardin (1), Hart (1), Logan (1), Powell (1), Union (1)
- 2017 Equine West Nile Cases 16 Equine Confirmed West Nile Cases  
81% (13) Not vaccinated, Two (2) vaccinated, One (1) unknown  
75% (12) survived

Affected Counties: Adair (2), Bourbon (1), Franklin (1), Garrard (1), Graves (1), Hardin (1), Hart (1), Johnson (1), Menifee (1), Metcalfe (1), Pulaski (1), Russell (3), Union (1)