# Louisiana Arbovirus Surveillance Summary 2012

**CDC Week 37 From: 01/01/2012-09/15/2012**

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## Report Summary

**The goal of the surveillance** for West Nile Infections in Humans is to describe the disease burden of the West Nile infection on the human population. Only West Nile Neuro-invasive diseases (encephalitis or meningitis) get reliably reported. For every NID case there are about 10 cases of Fever and about 90 completely asymptomatic infections. Only 1% of the WN-Fever and asymtomatic cases are reported. Although we show the number of cases of all WN infections, it is important to remember that only WN-NID cases are useful for monitoring disease burden and trends in WN in humans.

**Humans:** As of this report, 215 human WNV infections have been identified. There are 30 asymptomatic cases, 27 identified through screening of blood donors. Of the 185 WNV cases with symptoms, 99 are classified as WNV neuroinvasive disease (NID) cases, the most severe presentation of the disease, and 86 are classified as WNV fever cases, the WNV-related mild, febrile illness.
There have been 0 cases of California group Encephalitis (LaCrosse Encephalitis), 0 cases of Eastern Equine Encephalitis and 0 cases of St. Louis Encephalitis reported. Sporadic cases of these arboviruses often occur from year to year in the state.

**Horses:** There have been 42 confirmed cases of equine WNV and 44 confirmed cases of EEE in Louisiana this year.

**Sentinel Chickens:** Have been used in the past as a statewide early warning system to detect arbovirus transmission. These chickens in secure cages were strategically placed and bled regularly. Serologic tests performed on the sentinel chickens provided information of current and local transmission of many arboviruses. However, experience shows that this was not very effective in providing information about local tramsmission.

**Dead Birds:** Are no longer collected statewide because testing of dead birds does not provide information on where and when the bird was infected or of local transmission. Dead birds can only indicate that the bird died at a particular location of an arbovirus endemic to Louisiana.

**Mosquito Pools:** This is the most effective surveillance system to monitor arboviral transmission. Arboviruses are detected through nucleic acid testing of pools of 50 or more mosquitoes of the same species. A positive mosquito pool is an indicator of recent transmission, between mosquitoes and birds, horses or humans. There have been over 19,349 mosquito pools from over 28 parishes submitted for testing. 2 EEE positive pool, 0 SLE positive pools and 2,393 WNV positive pools have been found in 27 parishes.

| West Nile Virus (WNV) Clinical Presentation | | |
|---|---|---|
| Neuroinvasive Disease | NID | 99 |
| Fever | F | 86 |
| Asymptomatic Present Infections | PRE | 30 |
| Positive Blood Donors | PVD | 27 |
| Deaths | | 10 |

| Eastern Equine Encephalitis (EEE) Case | | | |
|---|---|---|---|
| CDC Week Onset | Parish | Age | Gender |
| | | | |

| LaCrosse (CAL) Cases | | | |
|---|---|---|---|
| CDC Week Onset | Parish | Age | Gender |
| | | | |

| St. Louis Encephalits and Fever (SLE) Cases | | | |
|---|---|---|---|
| CDC Week Onset | Parish | Age | Gender |
| | | | |

**Explanation of Clinical Disease:**
WN infections have occurred each year in Lousiana for the last 10 years. Persons of all ages are considered equally susceptible to infection. The majority of all persons infected and immuno-competent are completely asymptomatic (80-90%). A smaller proportion of persons (10-20%) present with influenza-like illness with abrupt onset of fever. A minority of people develop a serious neurologic illness such as aseptic meningitis or encephalitis (0.2 younger than 65 years old, 2% older than age 65). About 10% of people who develop neuroinvasive disease can die. The reporting of deaths caused by WN NID is not mandated by the Louisiana Sanitary code. It has been inconsistent in the past. It is limited to those occuring within 2 weeks for onset.

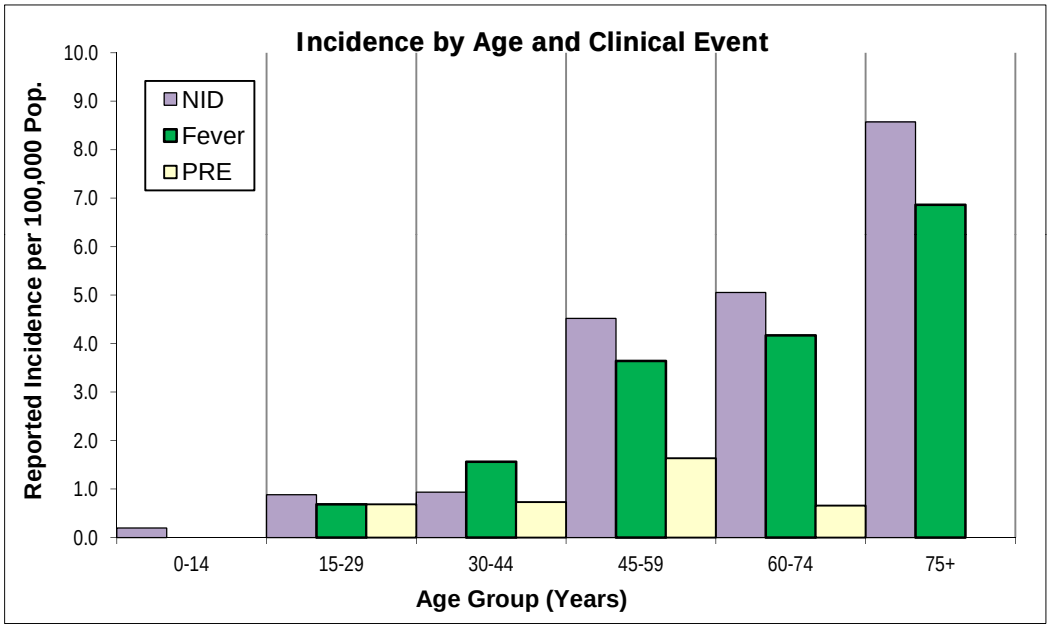
**Limitations:** Human data have very limited usefulness for mosquito control purposes. Only 2% of all WN infections are reported (because most WN infections are asymptomatic or WN fever cases do not get medical care, they never get diagnosed nor are reported). The reporting of those cases is delayed. From the time a mosquito bites a bird infected with WN viruses, it takes 1 to 2 weeks depending on temperatures and other environmental conditions for the virus to multiply in the mosquito vector (extrinsic incubation period); then it takes 3 to 14 days for the virus to multiply in the human host (intrinsic incubation period); it then takes several days from onset of disease to seeking medical care; then a few more days for a physician to order a confirmatory lab test and get the result back (one week from onset, if all goes well); then any where from a few days to a week or two to get the report to DHH OPH. All in all, from the initial mosquito infection to the reporting of the infection it may take from 3 to 6 weeks. In summary, human data are too little too late to be of major use for mosquito control. To provide mosquito control program with data on location of human cases that may be of limited use for correlating infection rates in mosquitoes and human cases and of use to address public and media concern, general geographical location of cases and weeks of onset are provided to mosquito control who request the information. This information must remain strictly confidential. The DHH OPH Laboratory is a reference laboratory used for epidemiologic purposes. Its role in diagnosis of cases is limited since the great majority of physicians and hospitals use private laboratories for their diagnosis.

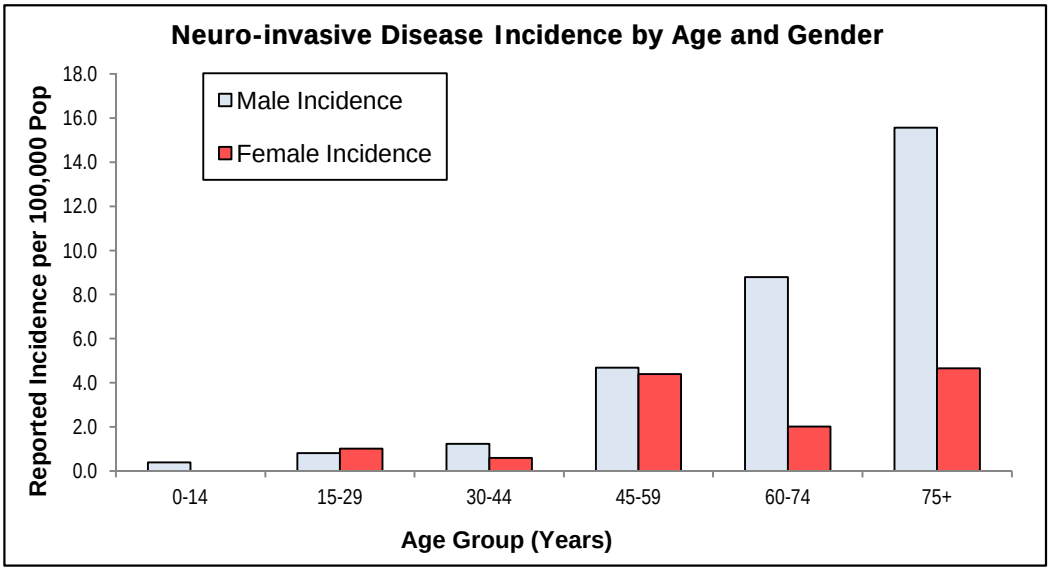
# WNV Human Clinical Presentation



| Age Group | Clinical Classification | | | | | |
|---|---|---|---|---|---|---|
| | NID Cases | Incidence | Fever Cases | Incidence | PRE Cases | Deaths |
| 0-14 | 2 | 0.2 | 0 | 0.0 | 0 | |
| 15-29 | 9 | 0.9 | 7 | 0.7 | 7 | |
| 30-44 | 9 | 0.9 | 15 | 1.6 | 7 | |
| 45-59 | 36 | 4.5 | 29 | 3.6 | 13 | 2 |
| 60-74 | 23 | 5.1 | 19 | 4.2 | 3 | 2 |
| 75+ | 20 | 8.6 | 16 | 6.9 | 0 | 6 |
| Undetermined | | | | | | |
| Total | 99 | 2.2 | 86 | 1.9 | 30 | 10 |

| Age Group | Neuroinvasive Disease Cases by Gender | | | |
|---|---|---|---|---|
| | Male | M Incidence | Female | F Incidence |
| 0-14 | 2 | 0.4 | 0 | 0.0 |
| 15-29 | 4 | 0.8 | 5 | 1.0 |
| 30-44 | 6 | 1.2 | 3 | 0.6 |
| 45-59 | 18 | 4.7 | 18 | 4.4 |
| 60-74 | 18 | 8.8 | 5 | 2.0 |
| 75+ | 13 | 15.6 | 7 | 4.7 |
| Undetermined | | | | |
| Total | 61 | 2.8 | 38 | 1.6 |



# WNV-NID Infections by Parish According to CDC Week



| | | CDC Week | 1-5 | 6-9 | 10-13 | 14-17 | 18-21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region | Parish | Total | Jan | Feb | Mar | Apr | May | Jun | | | | Jul | | | | Aug | | | | | Sep | | | | | Oct | | | | | Nov | | | | Dec | | | |
| 1 | Jefferson | 8 | | | | | | | | | | | | 1 | 3 | | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | |
| 1 | Orleans | 6 | | | | | | | | | | | 1 | | 1 | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | |
| 1 | St. Bernard | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 2 | Ascension | 2 | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | |
| 2 | East Baton Rouge | 13 | | | | | | | | | | | 1 | 3 | | 1 | 2 | 1 | 2 | 1 | 2 | | | | | | | | | | | | | | | | | |
| 2 | East Feliciana | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 3 | Lafourche | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Calcasieu | 3 | | | | | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| 6 | Concordia | 2 | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Rapides | 5 | | | | | | | | | 1 | | | 1 | 1 | 1 | | | | 1 | | | | | | | | | | | | | | | | | | |
| 6 | Vernon | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Bossier | 4 | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| 7 | Caddo | 12 | | | | | | | | | | | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 1 | | | | | | | | | | | | | | | | | | |
| 7 | DeSoto | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Natchitoches | 2 | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 7 | Webster | 3 | | | | | | | | | | | | | | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | |
| 8 | Caldwell | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 8 | Lincoln | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 8 | Madison | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 8 | Ouachita | 3 | | | | | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| 8 | Richland | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 8 | Union | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Livingston | 5 | | | | | | | | | | | | 1 | | | | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | |
| 9 | St. Helena | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 9 | St. Tammany | 10 | | | | | | | | | | | | 3 | 2 | 1 | 3 | | 1 | | | | | | | | | | | | | | | | | | | |
| 9 | Tangipahoa | 9 | | | | | | | | | | | | | 1 | 3 | 2 | 1 | 2 | | | | | | | | | | | | | | | | | | | |
| 9 | Washington | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | WNV-NID Total | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 15 | 11 | 13 | 17 | 17 | 13 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

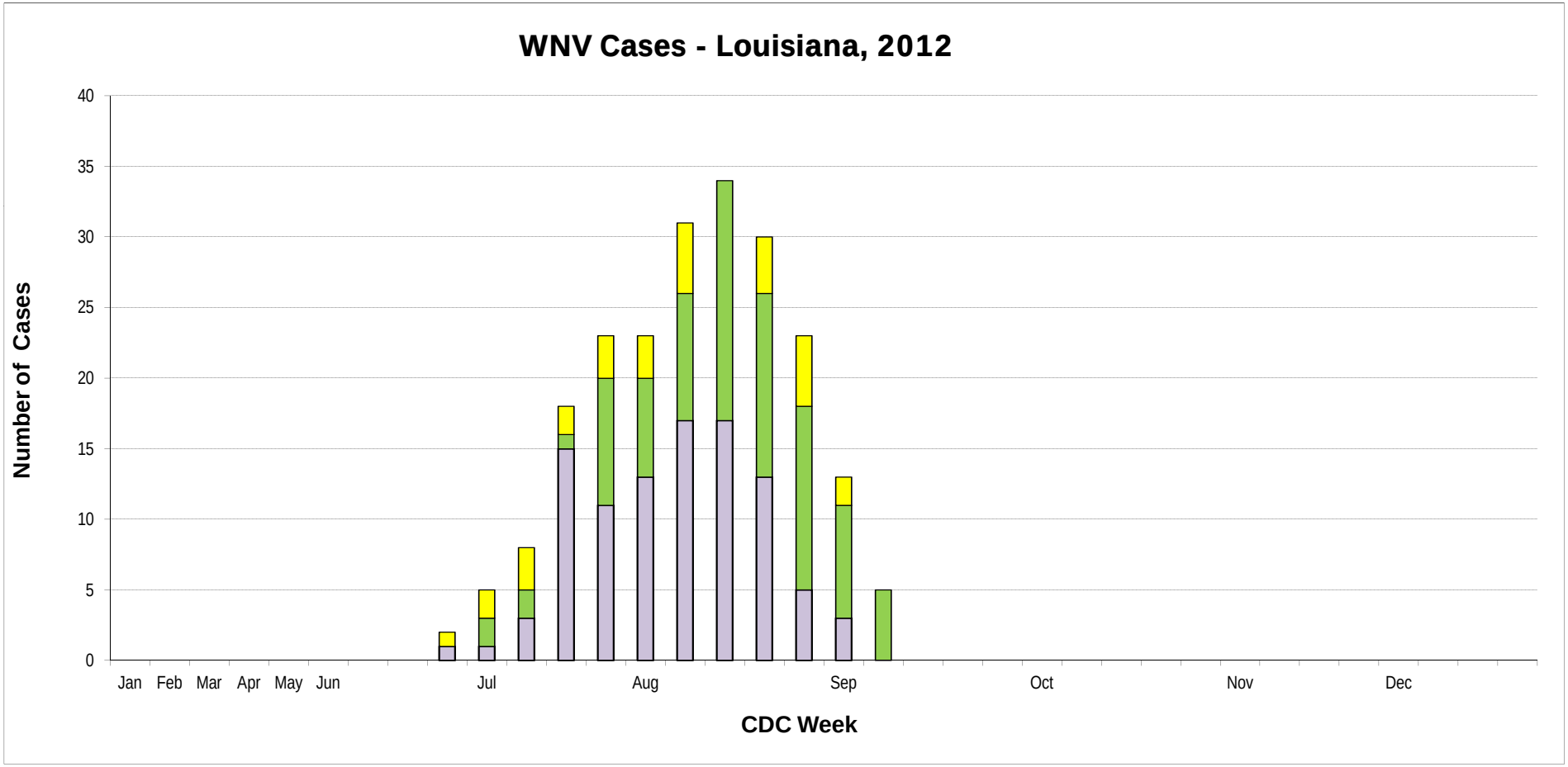
| | | CDC Week | 1-5 | 6-9 | 10-13 | 14-17 | 18-21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Jefferson | 3 | | | | | | | | | | | 1 | | 1 | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 1 | Orleans | 3 | | | | | | | | | | | | | 1 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | |
| 2 | Ascension | 2 | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | |
| 2 | East Baton Rouge | 12 | | | | | | | | | | 1 | | | 2 | | | 3 | 2 | | 3 | 1 | | | | | | | | | | | | | | | | |
| 2 | East Feliciana | 3 | | | | | | | | | | 1 | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| 2 | Iberville | 5 | | | | | | | | | | | | | | | 1 | 1 | | | 2 | 1 | | | | | | | | | | | | | | | | |
| 2 | Pointe Coupee | 3 | | | | | | | | | | | | | | | | | 1 | 1 | | 1 | | | | | | | | | | | | | | | | |
| 2 | West Baton Rouge | 3 | | | | | | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | |
| 3 | St. Charles | 1 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 3 | Lafourche | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 4 | Lafayette | 1 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| 5 | Calcasieu | 5 | | | | | | | | | | | | | | | | 1 | | 3 | | 1 | | | | | | | | | | | | | | | | |
| 6 | Avoyelles | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 6 | Concordia | 1 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| 6 | Rapides | 3 | | | | | | | | | | | 1 | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 7 | Bossier | 5 | | | | | | | | | | | | | | 1 | 1 | 2 | | 1 | | | | | | | | | | | | | | | | | | |
| 7 | Caddo | 7 | | | | | | | | | | | | | | | 2 | | 4 | 1 | | | | | | | | | | | | | | | | | | |
| 7 | DeSoto | 1 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 7 | Webster | 2 | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | |
| 8 | Ouachita | 5 | | | | | | | | | | | | 1 | 1 | | 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | |
| 9 | Livingston | 5 | | | | | | | | | | | | | 1 | 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | |
| 9 | St. Tammany | 9 | | | | | | | | | | | | | 1 | 3 | 1 | 2 | | 2 | | | | | | | | | | | | | | | | | | |
| 9 | Tangipahoa | 3 | | | | | | | | | | | | | 1 | 1 | | | | 1 | | | | | | | | | | | | | | | | | | |
| 9 | Washington | 2 | | | | | | | | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | | | | | |
| | WNV-F Total | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 9 | 7 | 9 | 17 | 13 | 13 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Jefferson | 2 | | | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| 1 | Orleans | 1 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| 1 | Plaquemines | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |

# WNV-NID Infections by Parish According to CDC Week



| | | CDC Week | 1-5 | 6-9 | 10-13 | 14-17 | 18-21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region | Parish | Total | Jan | Feb | Mar | Apr | May | Jun | | | | Jul | | | | Aug | | | | | Sep | | | | | Oct | | | | | Nov | | | | Dec | | | |
| 1 | St Bernard | 1 | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Ascension | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 2 | East Baton Rouge | 2 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| 2 | Pointe Coupee | 2 | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | West Baton Rouge | 3 | | | | | | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | |
| 3 | Terrebonne | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Iberia | 1 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 5 | Calcasieu | 2 | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | |
| 6 | Catahoula | 1 | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| 6 | Concordia | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Rapides | 2 | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 7 | Bossier | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Caddo | 3 | | | | | | | | | | | | | | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | |
| 8 | Lincoln | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | St. Tammany | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Tangipahoa | 3 | | | | | | | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WNV-PRE Total | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 3 | 3 | 5 | 0 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



# NID by Parish 2002-Present

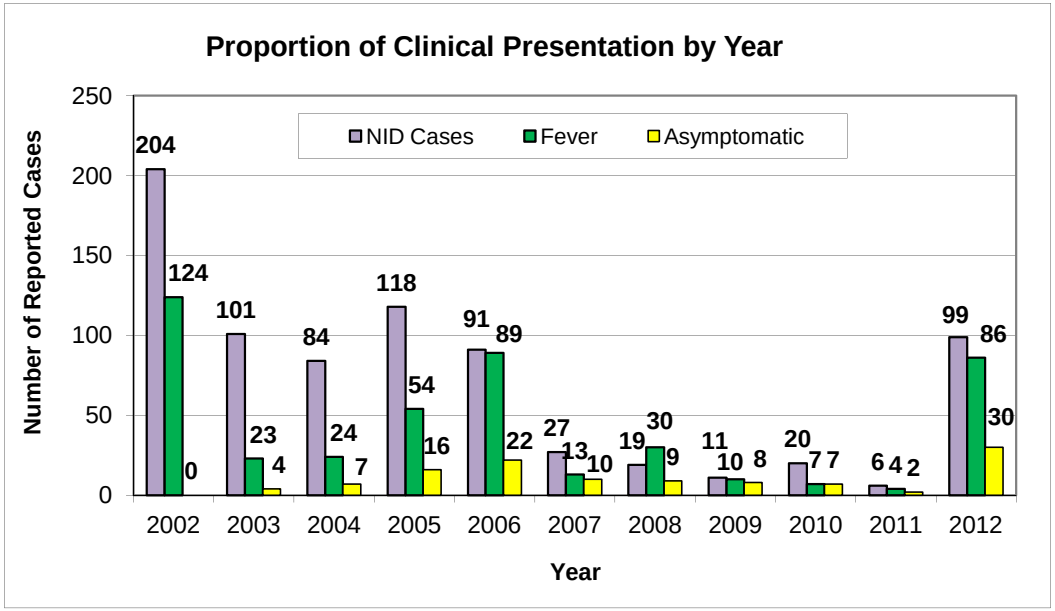


| Reg | Parish | Reported Infections 2012 | | | | Previously Reported NID Cases | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Incidence | NID | Fever | PRE | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| 1 | Jefferson | 1.8 | 8 | 3 | 2 | 24 | 3 | 1 | 6 | 8 | 2 | 2 | 0 | 0 | 0 |
| 1 | Orleans | 1.2 | 6 | 3 | 1 | 10 | 2 | 1 | 6 | 12 | 2 | 2 | 0 | 0 | 0 |
| 1 | Plaquemines | 0.0 | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | St Bernard | 1.5 | 1 | | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Ascension | 2.6 | 2 | 2 | 1 | 6 | 2 | 1 | 3 | 10 | 0 | 0 | 0 | 2 | 0 |
| 2 | East Baton Rouge | 3.1 | 13 | 12 | 2 | 37 | 1 | 22 | 17 | 6 | 0 | 0 | 2 | 9 | 0 |
| 2 | East Feliciana | 4.7 | 1 | 3 | | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Iberville | 0.0 | | 5 | | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Pointe Coupee | 0.0 | | 3 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | West Baton Rouge | 0.0 | | 3 | 3 | 2 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 2 | West Feliciana | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 3 | Assumption | 0.0 | | | | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 3 | Lafourche | 1.1 | 1 | 1 | | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 3 | St Charles | 0.0 | | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | St James | 0.0 | | | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | St John | 0.0 | | | | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 3 | St Mary | 0.0 | | | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Terrebonne | 0.0 | | | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Acadia | 0.0 | | | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Evangeline | 0.0 | | | | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 4 | Iberia | 0.0 | | | 1 | 2 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 3 | 0 |
| 4 | Lafayette | 0.0 | | 1 | | 4 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 4 | St Landry | 0.0 | | | | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | St Martin | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Vermillion | 0.0 | | | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 |
| 5 | Allen | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 5 | Beauregard | 0.0 | | | | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 5 | Calcasieu | 1.6 | 3 | 5 | 2 | 8 | 1 | 3 | 2 | 5 | 0 | 1 | 0 | 0 | 2 |
| 5 | Cameron | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | Jefferson Davis | 0.0 | | | | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Reg | Parish | Reported Infections 2012 | | | | Previously Reported NID Cases | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Incidence | NID | Fever | PRE | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| 6 | Avoyelles | 0.0 | | 1 | | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 6 | Catahoula | 0.0 | | | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 6 | Concordia | 9.9 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 6 | Grant | 0.0 | | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Rapides | 4.0 | 5 | 3 | 2 | 14 | 2 | 8 | 7 | 7 | 2 | 0 | 1 | 0 | 0 |
| 6 | Lasalle | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | Vernon | 1.9 | 1 | | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6 | Winn | 0.0 | | | | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Bienville | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Bossier | 4.1 | 4 | 5 | 1 | 3 | 8 | 9 | 6 | 2 | 0 | 0 | 0 | 0 | 0 |
| 7 | Caddo | 4.8 | 12 | 7 | 3 | 5 | 38 | 8 | 16 | 3 | 7 | 3 | 1 | 0 | 0 |
| 7 | Claiborne | 0.0 | | | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | DeSoto | 3.9 | 1 | 1 | | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Natchitoches | 5.1 | 2 | | | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Red River | 0.0 | | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 7 | Sabine | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 7 | Webster | 7.2 | 3 | 2 | | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8 | Caldwell | 9.5 | 1 | | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | East Carroll | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Franklin | 0.0 | | | | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Jackson | 0.0 | | | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Lincoln | 2.4 | 1 | | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 8 | Madison | 7.3 | 1 | | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Morehouse | 0.0 | | | | 0 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8 | Ouachita | 2.0 | 3 | 5 | | 6 | 2 | 5 | 15 | 3 | 1 | 1 | 0 | 0 | 0 |
| 8 | Richland | 4.8 | 1 | | | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Tensas | 0.0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Union | 4.4 | 1 | | | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | West Carroll | 0.0 | | | | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 9 | Livingston | 5.4 | 5 | 5 | | 12 | 5 | 6 | 11 | 1 | 1 | 1 | 0 | 1 | 0 |
| 9 | St Helena | 9.5 | 1 | | | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | St Tammany | 5.2 | 10 | 9 | 1 | 27 | 4 | 0 | 3 | 14 | 0 | 3 | 4 | 1 | 1 |
| 9 | Tangipahoa | 8.9 | 9 | 3 | 3 | 12 | 6 | 1 | 2 | 6 | 1 | 3 | 1 | 0 | 1 |
| 9 | Washington | 2.3 | 1 | 2 | | 6 | 2 | 0 | 3 | 4 | 2 | 0 | 1 | 0 | 1 |
| | Total | 3.5 | 99 | 86 | 30 | 204 | 101 | 84 | 118 | 91 | 27 | 19 | 11 | 20 | 6 |

# Human Summary 2002-Present

| WNV-NID Cases by CDC Week by Year | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Week | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| Jan | 1 | | | | | | | | | | | |
| | 3 | | | | | | | | | | | |
| | 7 | | | | | | | | | | | |
| March | 10 | | | | | | | | | | | |
| | 13 | | | | | | | | | | | |
| | 17 | | | | | | | | | | | |
| May | 19 | | | | | | | | | | | |
| | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| June | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 24 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 25 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| July | 26 | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| | 27 | 6 | 3 | 3 | 4 | 1 | 0 | 0 | 2 | 3 | 0 | 3 |
| | 28 | 9 | 5 | 2 | 5 | 4 | 0 | 0 | 0 | 0 | 1 | 15 |
| | 29 | 23 | 5 | 2 | 13 | 5 | 0 | 0 | 1 | 1 | 1 | 11 |
| August | 30 | 23 | 8 | 8 | 8 | 6 | 0 | 2 | 1 | 2 | 0 | 13 |
| | 31 | 21 | 10 | 5 | 21 | 7 | 1 | 1 | 0 | 0 | 0 | 17 |
| | 32 | 24 | 7 | 15 | 11 | 14 | 3 | 2 | 1 | 1 | 1 | 17 |
| | 33 | 21 | 8 | 7 | 9 | 13 | 2 | 1 | 2 | 1 | 0 | 13 |
| | 34 | 14 | 6 | 3 | 8 | 7 | 2 | 3 | 1 | 2 | 0 | 5 |
| September | 35 | 8 | 6 | 5 | 6 | 6 | 5 | 3 | 0 | 3 | 1 | 3 |
| | 36 | 13 | 4 | 5 | 8 | 9 | 3 | 2 | 0 | 1 | 1 | 0 |
| | 37 | 8 | 9 | 3 | 9 | 6 | 3 | 0 | 1 | 2 | 1 | 0 |
| | 38 | 6 | 4 | 4 | 2 | 3 | 1 | 0 | 0 | 1 | 0 | 0 |
| | 39 | 3 | 2 | 5 | 4 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| October | 40 | 3 | 4 | 5 | 4 | 1 | 3 | 3 | 0 | 1 | 0 | 0 |
| | 41 | 3 | 2 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 42 | 3 | 1 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 43 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| | 44 | 0 | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| November | 45 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 46 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 47 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| | 48 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| December | 49 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NID Total | | 204 | 101 | 84 | 118 | 91 | 27 | 19 | 11 | 20 | 6 | 99 |




| Total Human WNV Clinical Presentation by Year | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | Total |
| NID Cases | 204 | 101 | 84 | 118 | 91 | 27 | 19 | 11 | 20 | 6 | 99 | 780 |
| Fever | 124 | 23 | 24 | 54 | 89 | 13 | 30 | 10 | 7 | 4 | 86 | 464 |
| Asymptomatic | NA | 4 | 7 | 16 | 22 | 10 | 9 | 8 | 7 | 2 | 30 | 115 |
| Proportion of NID/F | 0.62 | 0.81 | 0.78 | 0.69 | 0.51 | 0.68 | 0.39 | 0.52 | 0.74 | 0.60 | 0.54 | |
| Deaths | 24 | 7 | 7 | 11 | 9 | 2 | 1 | 0 | 0 | 0 | 10 | |

# Arboviral Horses

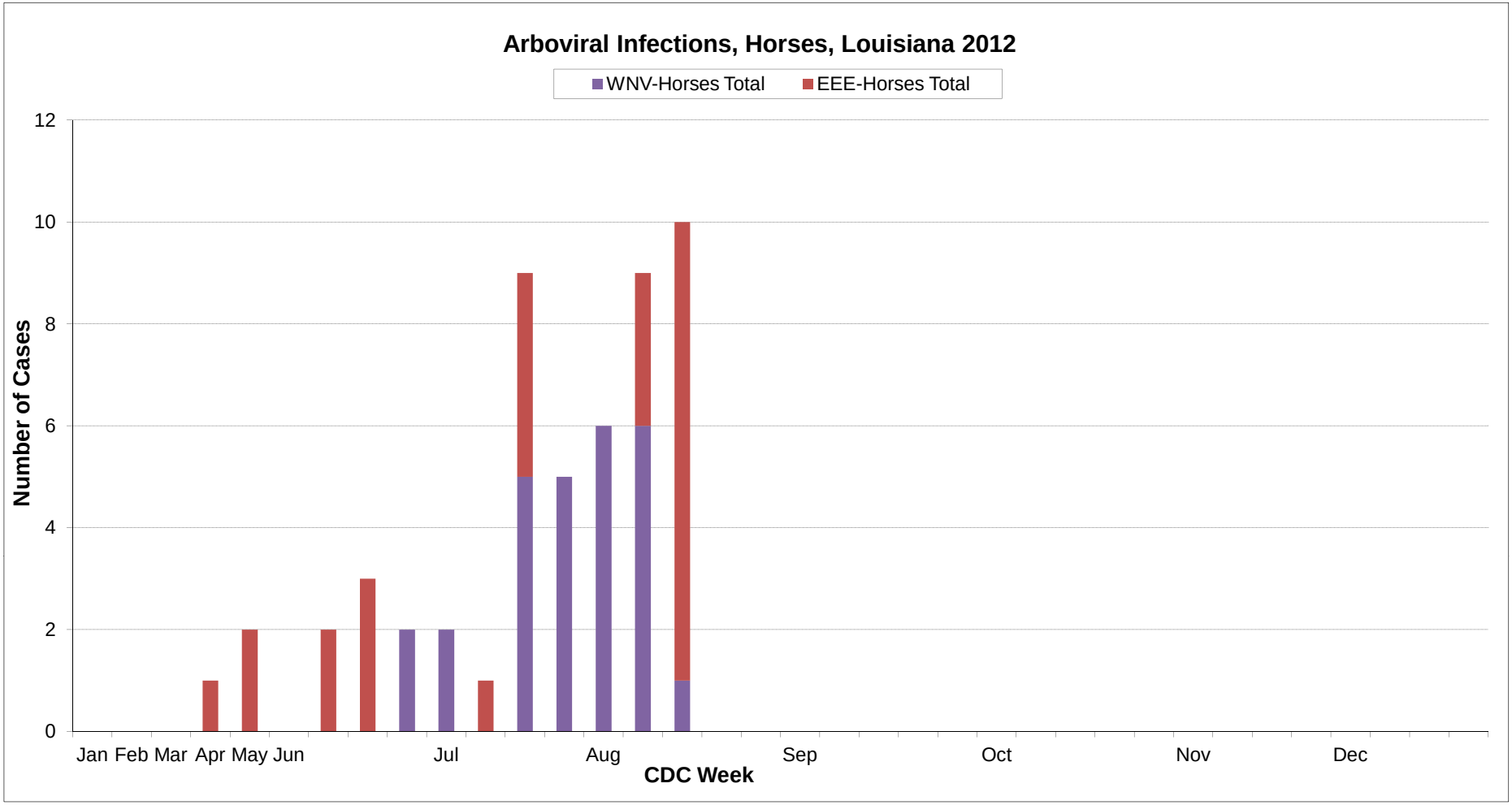


| | | CDC Week | 1-5 | 6-9 | 10-13 | 14-17 | 18-21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region | Parish | Total | Jan | Feb | Mar | Apr | May | Jun | | | | Jul | | | | Aug | | | | | Sep | | | | | Oct | | | | | Nov | | | | Dec | | | |
| 1 | Jefferson | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 2 | Ascension | 4 | | | | | | | | | 1 | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 2 | East Baton Rouge | 5 | | | | | | | | | | | | 2 | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| 2 | East Feliciana | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Iberia | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | St. Landry | 1 | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Vermillion | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 5 | Beauregard | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Calcasieu | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 6 | Rapides | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 7 | Natchitoches | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Franklin | 2 | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| 8 | Ouachita | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Livingston | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | St. Helena | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | St. Tammany | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Tangipahoa | 2 | | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Washington | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | Undetermined | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WNV-Horses Total | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 5 | 5 | 6 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Ascension | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 3 | Assumption | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Lafourche | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Terrebonne | 4 | | | | | 2 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Evangeline | 2 | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| 4 | Iberia | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Vermillion | 3 | | | | | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | |
| 5 | Allen | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 5 | Calcasieu | 2 | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 6 | Rapides | 3 | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Bossier | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 8 | Ouachita | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Livingston | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Tangipahoa | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 9 | Washington | 2 | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| | Undetermined | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | EEE-Horses Total | 25 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 3 | 0 | 0 | 1 | 4 | 0 | 0 | 3 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# Arboviral Horses



| | | CDC Week | 1-5 | 6-9 | 10-13 | 14-17 | 18-21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region | Parish | Total | Jan | Feb | Mar | Apr | May | Jun | | | | Jul | | | | Aug | | | | | Sep | | | | | Oct | | | | | Nov | | | | Dec | | | |



# CDC Weeks



| CDC Week | Week Starting | Week Ending |
|---|---|---|
| 01 | 1/1/2012 | 1/7/2012 |
| 02 | 1/8/2012 | 1/14/2012 |
| 03 | 1/15/2012 | 1/21/2012 |
| 04 | 1/22/2012 | 1/28/2012 |
| 05 | 1/29/2012 | 2/4/2012 |
| 06 | 2/5/2012 | 2/11/2012 |
| 07 | 2/12/2012 | 2/18/2012 |
| 08 | 2/19/2012 | 2/25/2012 |
| 09 | 2/26/2012 | 3/3/2012 |
| 10 | 3/4/2012 | 3/10/2012 |
| 11 | 3/11/2012 | 3/17/2012 |
| 12 | 3/18/2012 | 3/24/2012 |
| 13 | 3/25/2012 | 3/31/2012 |
| 14 | 4/1/2012 | 4/7/2012 |
| 15 | 4/8/2012 | 4/14/2012 |
| 16 | 4/15/2012 | 4/21/2012 |
| 17 | 4/22/2012 | 4/28/2012 |
| 18 | 4/29/2012 | 5/5/2012 |
| 19 | 5/6/2012 | 5/12/2012 |
| 20 | 5/13/2012 | 5/19/2012 |
| 21 | 5/20/2012 | 5/26/2012 |
| 22 | 5/27/2012 | 6/2/2012 |
| 23 | 6/3/2012 | 6/9/2012 |
| 24 | 6/10/2012 | 6/16/2012 |
| 25 | 6/17/2012 | 6/23/2012 |
| 26 | 6/24/2012 | 6/30/2012 |
| 27 | 7/1/2012 | 7/7/2012 |
| 28 | 7/8/2012 | 7/14/2012 |
| 29 | 7/15/2012 | 7/21/2012 |
| 30 | 7/22/2012 | 7/28/2012 |
| 31 | 7/29/2012 | 8/4/2012 |
| 32 | 8/5/2012 | 8/11/2012 |
| 33 | 8/12/2012 | 8/18/2012 |
| 34 | 8/19/2012 | 8/25/2012 |
| 35 | 8/26/2012 | 9/1/2012 |
| 36 | 9/2/2012 | 9/8/2012 |
| 37 | 9/9/2012 | 9/15/2012 |
| 38 | 9/16/2012 | 9/22/2012 |
| 39 | 9/23/2012 | 9/29/2012 |
| 40 | 9/30/2012 | 10/6/2012 |
| 41 | 10/7/2012 | 10/13/2012 |
| 42 | 10/14/2012 | 10/20/2012 |
| 43 | 10/21/2012 | 10/27/2012 |
| 44 | 10/28/2012 | 11/3/2012 |
| 45 | 11/4/2012 | 11/10/2012 |
| 46 | 11/11/2012 | 11/17/2012 |
| 47 | 11/18/2012 | 11/24/2012 |
| 48 | 11/25/2012 | 12/1/2012 |
| 49 | 12/2/2012 | 12/8/2012 |
| 50 | 12/9/2012 | 12/15/2012 |
| 51 | 12/16/2012 | 12/22/2012 |
| 52 | 12/23/2012 | 12/29/2012 |