

Louisiana Arbovirus Surveillance Summary 2010

Bulletin 1 CDC Week 28

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Report Summary

As of this report, 3 human WNV infections have been identified. There are 2 asymptomatic cases identified through screening of blood donors. Of the 1 WNV cases with symptoms, 1 are classified as WNV neuroinvasive disease (NID) cases, the most severe presentation of the disease, and 0 are classified as WNV fever cases, the WNV-related mild, febrile illness. There has been 0 WNV fatalities to date in Louisiana.

There have been 0 cases of California group Encephalitis, most likely LaCrosse Encephalitis, 0 cases of Eastern Equine Encephalitis and 0 cases of St. Louis Encephalitis reported. These infections are not considered outbreaks since sporadic cases of these arboviruses often occur from year to year in the state.

Horses:

There has been 2 confirmed cases of equine WNV and 1 confirmed cases of EEE in Louisiana this year.

Sentinel Chickens:

There has been 0 sentinel chickens confirmed with WNV and 0 confirmed with SLE in Louisiana. Sentinel chickens are used as a statewide early warning system for arboviruses. These chickens in secure cages are strategically placed and bled regularly. Serologic tests performed on the sentinel chickens provide information of current and local transmission of many arboviruses.

Dead Birds:

There has been 0 tested dead birds confirmed with WNV in Louisiana. Dead bird surveillance is conducted by parish or local mosquito abatement districts at their option. 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. Persons who encounter dead birds in Louisiana can contact their local parish health unit or mosquito control program.

Mosquito Pools:

There have been over 2000 mosquito pools submitted for testing. 65 WNV positive pools have been found in over 10 parishes.

West Nile Virus (WNV) Clinical Presentation

Neuroinvasive Disease	NID	1
Fever	F	0
Asymptomatic Present Infections	PRE	2
Positive Blood Donors		2

Eastern Equine Encephalitis (EEE) Case

CDC Week Onset	Parish	Age	Gender

LaCrosse (CAL) Cases

CDC Week Onset	Parish	Age	Gender

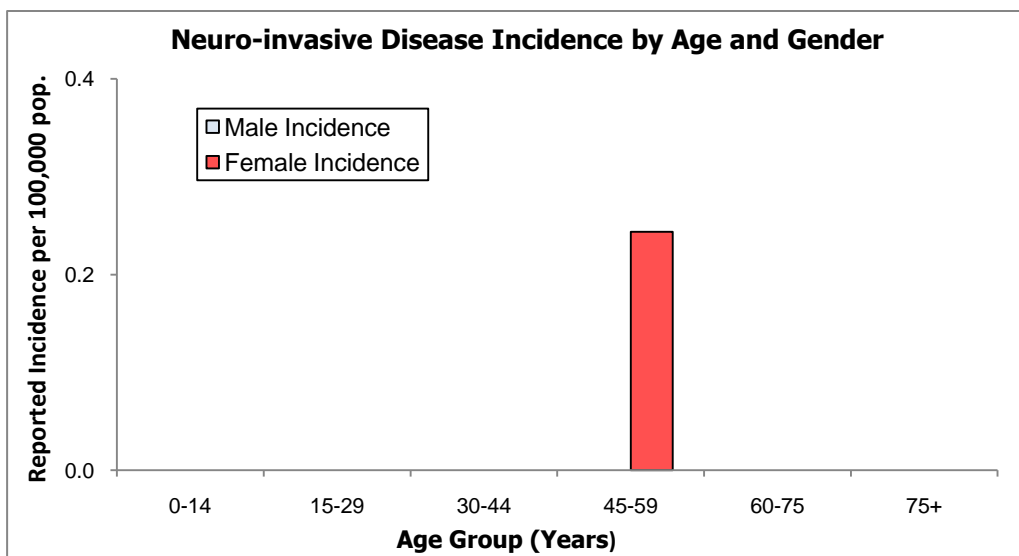
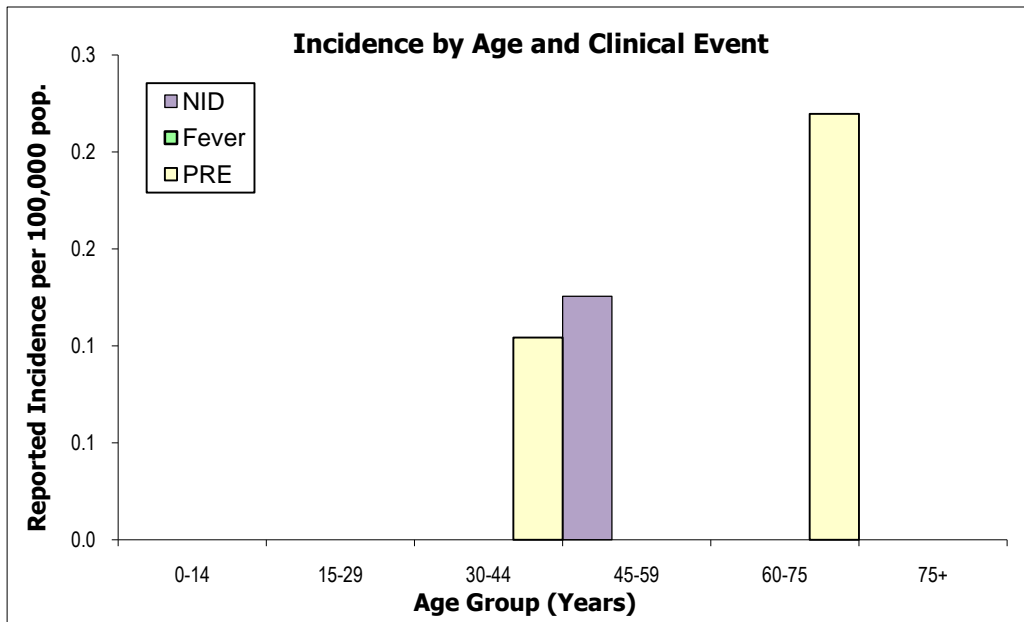
St. Louis Encephalitis and Fever (SLE) Cases

CDC Week Onset	Parish	Age	Gender

WNV Human Clinical Presentation

Age Group	Clinical Classification					
	NID Cases	Incidence	Fever Cases	Incidence	PRE Cases	Deaths
0-14	0	0.0	0	0.0	0	
15-29	0	0.0	0	0.0	0	
30-44	0	0.0	0	0.0	1	
45-59	1	0.1	0	0.0	0	
60-75	0	0.0	0	0.0	1	0
75+	0	0.0	0	0.0	0	0
Undetermined						
Total	1	0.0	0	0.0	2	0

Age Group	Neuroinvasive Disease Cases by Gender			
	Male	M Incidence	Female	F Incidence
0-14	0	0.0	0	0.0
15-29	0	0.0	0	0.0
30-44	0	0.0	0	0.0
45-59	0	0.0	1	0.2
60-75	0	0.0	0	0.0
75+	0	0.0	0	0.0
Undetermined				
Total	0	0.0	1	0.0



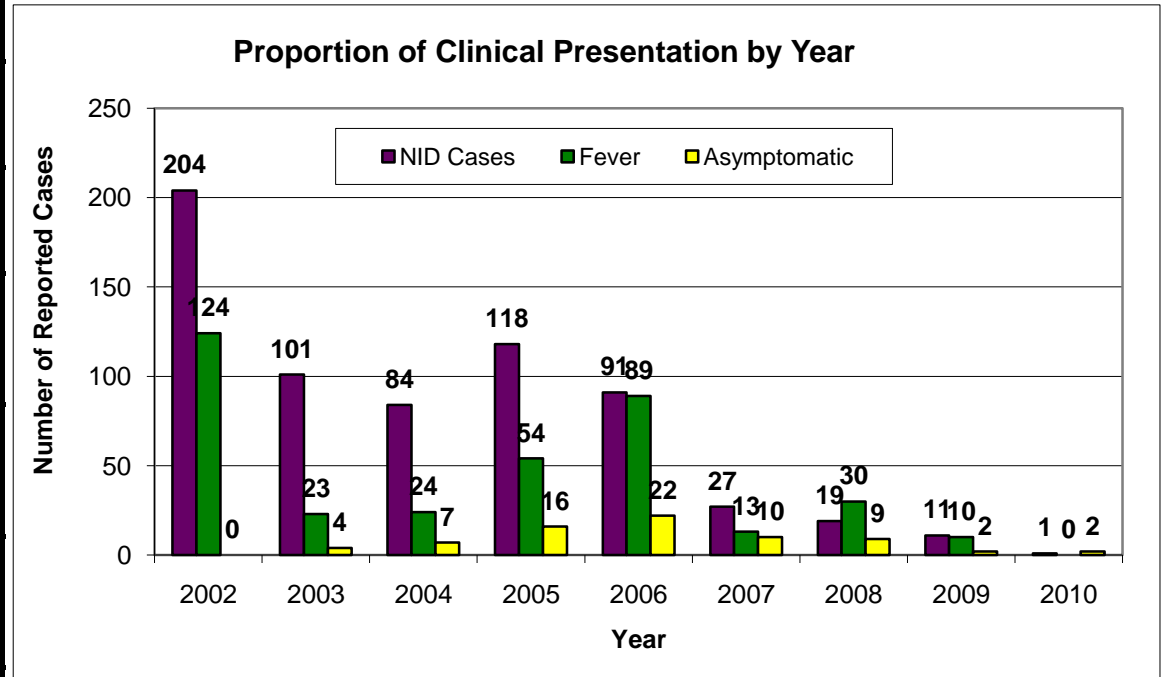
NID by Parish 2002-Present

R e g	Parish	Reported Infections 2010			Previously Reported NID Cases								
		Incidence	NID	Fever	PRE	2002	2003	2004	2005	2006	2007	2008	2009
1	Jefferson	0.0				24	3	1	6	8	2	2	0
1	Orleans	0.0				10	2	1	6	12	2	2	0
1	Plaquemines	0.0				0	0	0	0	0	0	0	0
1	St Bernard	0.0				0	0	0	1	0	0	0	0
2	Ascension	1.3	1	1		6	2	1	3	10	0	0	0
2	East Baton Rouge	0.0		1		37	1	22	17	6	0	0	2
2	East Feliciana	0.0				2	1	1	0	0	0	0	0
2	Iberville	0.0				2	0	0	2	0	0	0	0
2	Pointe Coupee	0.0				6	0	0	2	0	0	0	0
2	West Baton Rouge	0.0				2	0	1	0	1	0	0	0
2	West Feliciana	0.0				0	0	0	0	0	0	1	0
3	Assumption	0.0				0	1	0	0	1	0	0	0
3	Lafourche	0.0				0	2	0	1	1	0	0	0
3	St Charles	0.0				0	0	0	0	0	0	0	0
3	St James	0.0				2	0	0	0	0	0	0	0
3	St John	0.0				2	0	0	0	0	1	0	0
3	St Mary	0.0				0	1	0	0	0	0	0	0
3	Terrebonne	0.0				0	3	0	0	0	0	0	0
4	Acadia	0.0				0	0	0	1	0	0	0	0
4	Evangeline	0.0				1	0	1	0	0	1	0	0
4	Iberia	0.0				2	1	0	4	0	0	0	0
4	Lafayette	0.0				4	0	1	1	1	1	0	0
4	St Landry	0.0				1	0	3	0	0	0	0	0
4	St Martin	0.0				0	0	0	0	0	0	0	0
4	Vermillion	0.0				0	0	0	0	1	0	0	0
5	Allen	0.0				0	0	0	0	0	0	0	1
5	Beauregard	0.0				0	0	1	1	0	1	0	0
5	Calcasieu	0.0				8	1	3	2	5	0	1	0
5	Cameron	0.0				0	1	0	0	0	0	0	0
5	Jefferson Davis	0.0				0	0	1	0	0	0	0	0

R e g	Parish	Reported Infections 2010				Previously Reported NID Cases							
		Incidence	NID	Fever	PRE	2002	2003	2004	2005	2006	2007	2008	2009
6	Avoyelles	0.0				2	0	0	0	1	1	1	0
6	Catahoula	0.0				0	1	0	0	1	0	0	0
6	Concordia	0.0				1	0	0	0	1	1	0	0
6	Grant	0.0				1	0	0	0	0	0	0	0
6	Rapides	0.0				14	2	8	7	7	2	0	1
6	Lasalle	0.0				0	0	0	0	0	0	0	0
6	Vernon	0.0				0	0	0	0	1	0	0	0
6	Winn	0.0				1	0	0	1	0	0	0	0
7	Bienville	0.0				0	0	0	0	0	0	0	0
7	Bossier	0.0				3	8	9	6	2	0	0	0
7	Caddo	0.0				5	38	8	16	3	7	3	1
7	Claiborne	0.0				0	1	0	0	0	0	0	0
7	DeSoto	0.0				0	1	0	0	0	0	0	0
7	Natchitoches	0.0				1	1	0	2	0	0	0	0
7	Red River	0.0				0	0	0	0	0	0	0	0
7	Sabine	0.0				1	0	0	0	0	1	0	0
7	Webster	0.0				0	0	1	0	1	0	0	0
8	Caldwell	0.0				0	0	1	0	0	0	0	0
8	East Carroll	0.0				0	0	0	0	0	0	0	0
8	Franklin	0.0				0	0	1	1	0	0	0	0
8	Jackson	0.0				0	1	0	0	0	0	0	0
8	Lincoln	0.0				0	2	0	1	0	0	1	0
8	Madison	0.0				0	0	1	0	0	0	0	0
8	Morehouse	0.0				0	2	2	1	0	1	0	0
8	Ouachita	0.0				6	2	5	15	3	1	1	0
8	Richland	0.0				2	1	1	0	0	0	0	0
8	Tensas	0.0				0	0	0	0	0	0	0	0
8	Union	0.0				1	1	1	0	0	0	0	0
8	West Carroll	0.0				0	2	2	0	0	1	0	0
9	Livingston	0.0				12	5	6	11	1	1	1	0
9	St Helena	0.0				0	2	0	2	0	0	0	0
9	St Tammany	0.0				27	4	0	3	14	0	3	4
9	Tangipahoa	0.0				12	6	1	2	6	1	3	1
9	Washington	0.0				6	2	0	3	4	2	0	1
	Total	0.0	1	0	2	204	101	84	118	91	27	19	11

Human Summary 2002-Present

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



Total Human WNV Clinical Presentation by Year									
	2002	2003	2004	2005	2006	2007	2008	2009	2010
NID Cases	204	101	84	118	91	27	19	11	1
Fever	124	23	24	54	89	13	30	10	0
Asymptomatic	NA	4	7	16	22	10	9	2	2
Proportion of NID/F	0.62	0.81	0.78	0.69	0.51	0.68	0.39	0.52	1.00

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