Louisiana Arbovirus Surveillance Summary 2018

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Report Summary

Prevention - Not in my house, not in my yard, not on my skin, day and night, I'll fight the bite!

CDC Week 52

The goal of the surveillance for West Nile (WN) Infections in humans is to describe the disease burden of the West Nile infection on the human population. Only West Nile Neuroinvasive diseases (NID) including encephalitis or meningitis get reliably reported. For every NID case there are about 10 cases of Fever and about 90 completely asymptomatic infections. Only one percent of the WN-Fever (WN-F) and asymptomatic (WN-PRE) 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: Detailed information on the number of arboviral infections can be found within this report, please refer to the Table of Contents. **Equines:** Horses can be infected by WN and Eastern Equine Encephalitis (EEE) virus and do develop encephalitis. Horse's viremia is too low to infect mosquitoes and does not play a role in transmission. However, since horses live outside surveillance of horse infections is a good indicator of arboviral transmission. Contact the Louisiana Department of Agriculture and Forestry (LDAF) for the most up to date statistics on horse infections.

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 transmission.

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. Every year 20,000-50,000 mosquito pools from approximately 30 parishes are submitted for testing. Detailed information on the number of positive pools can be found within this report, please refer to the Table of Contents.

Explanation of Clinical Disease: WN infections have occurred each year in Louisiana 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).

Explanation of Deaths: 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 so it is inconsistently reported. It is limited to being included in this report to only those deaths occurring within two weeks for onset. For the preservation of confidentiality, OPH will not report details about WN deaths (such as date, parish, gender and age).

Limitations: Human data have very limited usefulness for mosquito control purposes. Only two percent 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 Department of Health Office of Public Health (LDH 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 LDH 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.

Arboviral Report Summary Presentation

	Mosquito	Avian	Equine			Hur	nan		
Disease	Pools			Neuroinvasive NID	Fever F	Asymptomatic PRE	Total	Positive Blood Donors PVD ‡	Deaths
CAL									
EEE	1	0	6						
SLE	17	0	0						
WEE									
WNV	1070	98	5	52	24	11	87	12	4
Total	1088	98	11	52	24	11	87	12	4

Data from CDC Week 1-41 From: 01/01/2018-10/13/2018

CAL = California serogroup viruses (including La Crosse)

EEE = Eastern Equine Encephalitis virus

SLE = St. Louis Encephalitis virus

WEE = Western Equine Encephalitis virus

WNV = West Nile virus

* Avian includes any wild bird or sentinel chicken samples

‡ PVD are people who had no symptoms at the time of donating blood with a blood collection agency, but whose blood tested positive when screened for the presence of virus. If they become symptomatic and meet the case definition reporting criteria, they are counted as a case and are included in the appropriate disease category case tallies.

Data from CDC Week 1-40 From: 01/01/2017-10/07/2017

Human Mosquito Avian Equine **Positive Blood Donors** Neuroinvasive Fever Asymptomatic Pools Total Deaths PVD ‡ NID F PRE Disease CAL EEE 5 SLE WEE **WNV** 419 47 46 1 34 8 5 2 3 Total 419 46 6 34 8 5 47 2 3

Arbovirus by Parish

Data from	CDC	Weel	k:	41			From:	01	/01	/20	18-10/13	/20	18				
				WN	V					SL	E			E	E	CAL	CAL = Califor
Parish	М	Α	Ε		Hu	ıman		М	Α	Ε	Human	М	Α	Е	Human	Human	(includ
				NID	F	PRE	Total										EEE = Easter
Acadia	1						0										
Allen	9						0										SLE = St. Lo
Ascension	119	0	1	4	5	2	11							1			WEE = Weste
Assumption	1						0										
Avoyelles				1			1										
Beauregard							0										WNV =
Bossier	26			0	2	0	2										
Caddo	27			4	2	3	9										
Calcasieu	3						0	3									
Cameron	1						0										M = Mosquito
Claiborne				1			1										A = Avian
DeSoto				2	0	1	3										E = Equine
East Baton Rouge	146	3	0	7	5	4	16										
East Feliciana		-	Ē		-	-	0		-								
Evangeline			1				0							1			
Franklin			-				0							-			
Grant				1			1										
Iberia	31		-				0					-					
Iberville	01						0										
Jackson							0					-					
Jefferson	39	59	0	2	0	0	2	6				-					
Jefferson Davis	33	33	v	~	0	U	0						-				
Lafayette	16	0	1	1			1	1					-				
Lafourche	6	U	Ľ	3	0	0		2					-				
Lasalle	0		-	3	U	U	3	2				-					
	2						-										
Lincoln	2			~	-	•	0										
Livingston	_			3	1	0	4										
Morehouse	1						0										
Natchitoches	404			•		•	0							2			
Orleans	101			2	1	0	3	1									
Ouachita	59			5	3	0	8										
Plaquemines						_	0										
Rapides				4	0	0	4							1			
St. Bernard	4						0										
St. Charles	31	31	0				0										
St. James	6						0										
St. John	67						0										
St. Landry			1	1			1										
St. Martin	15	5	0	1			1										
St. Mary	3						0										
St. Tammany	66		1	7	3	0	10										
Tangipahoa	61			1			1					1		1			
Terrebonne	6	1	1	0	1	0	1	4									
Washington	1		1	1	0	1	2		l								
West Baton Rouge	223		1	1	1	0	2										
West Feliciana	1		1				0										
Total	1070	98	5	52	24	11	87	17	0	0	0	1	0	6	0	0	
All human and aquina								1						1.11-		1	1

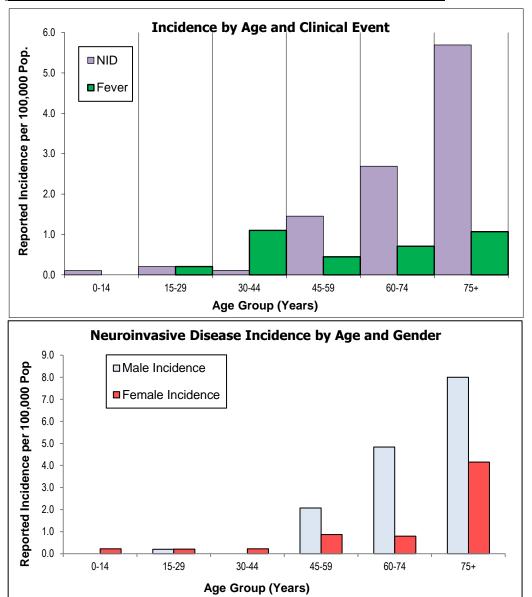
CAL = California serogroup viruses (including La Crosse) EEE = Eastern Equine Encephalitis virus SLE = St. Louis Encephalitis virus WEE = Western Equine Encephalitis virus WNV = West Nile virus

All human and equine case tallies are reported by the case's parish of residence, not the parish where the exposure occurred.

WNV Human Clinical Presentation

			Clinical Class	ification		
Age Group	NID Cases	Incidence	Fever Cases	Incidence	PRE Cases	Deaths
0-14	1	0.1	0	0.0	0	
15-29	2	0.2	2	0.2	2	
30-44	1	0.1	10	1.1	3	
45-59	13	1.5	4	0.4	3	
60-74	19	2.7	5	0.7	3	
75+	16	5.7	3	1.1	0	
Undetermined						
Total	52	1.1	24	0.5	11	4

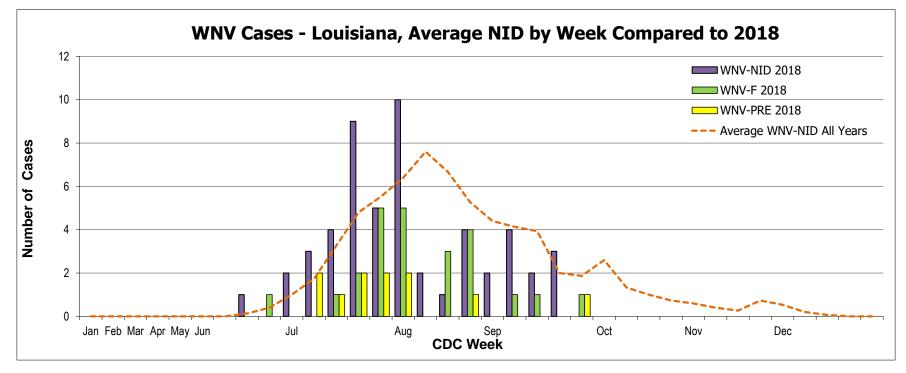
Ago Group	Neur	oinvasive Dise	ase Cases by	Gender
Age Group	Male	M Incidence	Female	F Incidence
0-14	0	0.0	1	0.2
15-29	1	0.2	1	0.2
30-44	0	0.0	1	0.2
45-59	9	2.1	4	0.9
60-74	16	4.8	3	0.8
75+	9	8.0	7	4.2
Undetermined				
Total	35	1.5	17	0.7



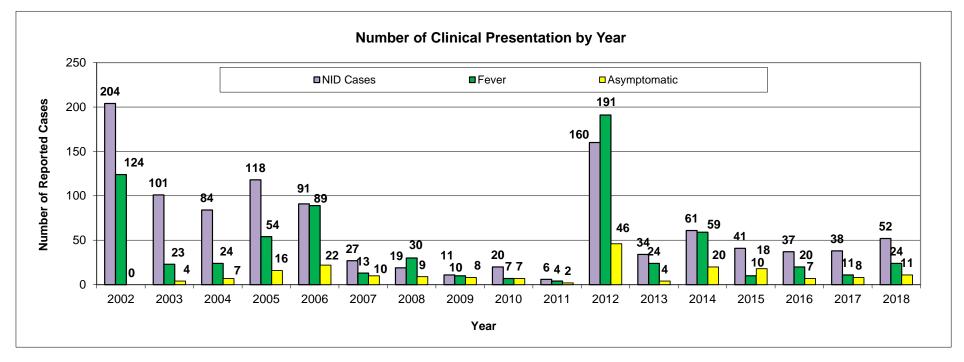
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WNV Infections by Parish According to CDC Week

																				5															- 3	
							13-17				24			27	28	29 3			33			36	37	38 39		41	42			45	46 4			9 50	0 51	. 5
Region		Tot	al	Jan	Feb	Mar	Apr	May	Jun				Jul				Aug	9			Sep				Oct				Nov			D)ec			
1	Jefferson		2														2																			
2	Orleans		2														1						1						-							
2	Ascension		4											1		1	1						1													
	East Baton Rouge		7													1 2	2	1		1		2														
	West Baton Rouge		1																			1														
3	Lafourche		3													1	L							2												
4	Lafayette		1																	1																
4	St. Landry		1												1																					
4	St. Martin		1													1																				
5			0																																	
6	Avoyelles		1														1																			
6	Grant		1																					1												
	Rapides		4												1	1 1	-				1															
7	Caddo		4											1			2	1																		
7	Claiborne		1												1																					
7	DeSoto		2											1		1																				
8	Ouachita		5												1	1 1	1				1															
9	Livingston		3								1								1			1														
9	St. Tammany		7										2			2	1			2																
9	Tangipahoa		1														1																			
9	Washington		1													1																				
	WNV-NID 2	2018	52	0	0	0	0	0	0	0	1	0	2	3	4	9 5	5 10	2	1	4	2	4	2	3 0	0	0	0	0	0	0	0	0	0 (0 0	0 (
	WNV-F 2	2018	24	0	0	0	0	0	0	0	0	1	0	0	1	2 5	5 5	0	3	4	0	1	1	0 1	0	0	0	0	0	0	0	0	0	0 0) ()	
	WNV-PRE 2	2018	11	0	0	0	0	0	0	0	0	0	0	2	1	2 2	2 2	0	0	1	0	0	0	0 1	0	0	0	0	0	0	0	0	0	0 0	0 (
Ave	erage WNV-NID All Y	ears	68	0	0	0	0	0	0	0	0	0	1	2	3	5 6	6	8	7	5	4	4	4	2 2	3	1	1	1	1	0	0	1	1 (0 0	0	



					Tota	Huma	n WNV	Clinica	I Prese	entation	h by Yea	ar						
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
NID Cases	204	101	84	118	91	27	19	11	20	6	160	34	61	41	37	38	52	1104
Fever	124	23	24	54	89	13	30	10	7	4	191	24	59	10	20	11	24	717
Asymptomatic	0	4	7	16	22	10	9	8	7	2	46	4	20	18	7	8	11	199
Proportion of NID	0.62	0.81	0.78	0.69	0.51	0.68	0.39	0.52	0.74	0.60	0.46	0.59	0.51	0.80	0.65	0.78	0.68	
Deaths	24	7	7	11	9	2	1	0	0	0	21	4	12	5	2	4	4	
Total Disease	328	128	115	188	202	50	58	29	34	12	397	62	140	69	64	57	87	



NID by Week 2002-Present

						WNV	-NID C	ases by	CDC \	Neek b	y Year							
	week	2002	2003	2004	2005			2008			-	2012	2013	2014	2015	2016	2017	2018
Jan	1																	
	3																	
	7																	
March	-																	┣───┦
	13																0	
	17																1	
May	19																0	
i la y	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	25	2	2	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
Julv	26	_	_	0	-	1	0	0	_	÷	0	1	-	Ŷ	1	0	0	_
July	20	<u>11</u> 6	0 3	3	0 4	 1	0	0	<u>1</u> 2	0 3	0	3	0	0	1	0	5	2 3
	28	9	5	2	<u>4</u> 5	4	0	0	2	0	1	15	1	3	2	2	0	<u> </u>
	29	23	5	2	13	4 5	0	0	1	1	1	15	0	<u> </u>	<u> </u>	2	0 7	9
August	30	23	5 8	2	_	5	0	2	1	2	0	11	1	9	2	2	1	9 5
August	31	23	_	<u>ठ</u> 5	8 21	0 7	1	<u> </u>	_		0	13	3	3		2	1	5 10
	32	21	<u>10</u> 7	5 15	11	14	3	2	0	0	1	17	3	<u> </u>	5 4	6	5	2
	33	24	8	7	9	13	2	1	2	1	0	16	<u> </u>	4 9	4	0	2	1
	34	14	<u> </u>	3	8	7	2	3	<u> </u>	2	0	10	6	6	4 5	2	4	4
September	35	<u>14</u> 8	6	5		6		3	0	2	1	14	2	3	5	<u> </u>	4 2	4
September	36	<u> </u>	<u> </u>	5	6	9	53	2	0	<u> </u>	1	4	2	8	5	1	2	<u> </u>
	37	8	<u>4</u> 9	3	<u> </u>	6	3	2	1	2	1	4	2	<u> </u>	4	1	4	4 2
	38	6	<u> </u>	4	2	3	1	0	0	1	0	4	0	4	- 4	1	4	3
	39	3	4	- 4 - 5	4	<u> </u>	1	0	0	0	0	4	1	4	1	1	0	0
October	40	3	4	5	4	4	3	3	0	1	0	4	3	<u> </u>	0	4	0	
occobe.	41	3	2	<u> </u>	3	1	0	0	0	0	0	2	1	0	0	4	0	0 0
	42	3	<u> </u>	2	3	1	0	0	0	0	0	1	1	0	3	4	1	0
	43	0	2	0	3 0	0	3	0	0	0	0	3	0	0	 	2	2	0
	44	0	4	0	0	1	0	0	0	0	0	3	0	0	0	1	0	0
November	45	0	2	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0
november	46	0	<u> </u>	<u> </u>	0	0	0	0	0	0	0	1	0	0	0	1	0	0
	47	1	1	2	0	1	0	1	0	0	0	1	0	0	1	3	0	0
	48	0	2	<u> </u>	0	0	0	0	0	2	0	1	0	0	0	2	1	0
December	49	0	2	1 0	0	0	0	0	0	2	0	0	0	0	0	2	 0	0
December	50	0	<u> </u>	0	0	0	0	0	0	0	0	<u> </u>	0	0	0	0	0	0
	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NID Total	52	204	v	84	-	91	27	19	11	20	0 6	1 60	34	61	41	37	38	
NID Total		204	101	04	118	91	21	13	11	20	0	100	54	01	41	5/	20	52

NID by Parish 2002-Present

R e	Parish	NID 2	2018					Prev	vious	sly R	epor	ted I	NID	Case	es						R e	Parish	NID 2	2018					Previ	ious	ly Re	epor	ted	NID	Cases	s				
g		Incid	#	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	7	g		Incid	#	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
	Jefferson	0.5	2	24	3	1	6	8	2	2	0	0	0	13	0	0	1	0	0)		Avoyelles	2.4	1	2	0	0	0	1	1	1	0	0	0	1	0	0	1	0	0
1	Orleans	0.5	2	10	2	1	6	12	2	2	0	0	0	11	0	0	1	0	0)	6	Catahoula	0.0		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1	Plaquemines	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0)	6	Concordia	0.0		1	0	0	0	1	1	0	0	0	0	2	0	0	0	0	1
1	St Bernard	0.0		0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0)	6	Grant	4.5	1	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	1
2	Ascension	3.3	4	6	2	1	3	10	0	0	0	2	0	3	0	4	2	0	0)	6	Lasalle	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	East Baton Rouge	1.6	7	37	1	22	17	6	0	0	2	9	0	17	0	21	3	4	6	5	6	Rapides	3.0	4	14	2	8	7	7	2	0	1	0	0	11	4	0	8	2	7
2	East Feliciana	0.0		2	1	1	0	0	0	0	0	0	0	2	0	0	0	2	0)	6	Vernon	0.0		0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0
2	Iberville	0.0		2	0	0	2	0	0	0	0	0	0	0	0	1	1	0	0)	6	Winn	0.0		1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
2	Pointe Coupee	0.0		6	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0)	7	Bienville	0.0		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2	West Baton Rouge	3.8	1	2	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0)	7	Bossier	0.0		3	8	9	6	2	0	0	0	0	0	6	0	2	1	1	2
2	West Feliciana	0.0		0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0)	7	Caddo	1.6	4	5	38	8	16	3	7	3	1	0	0	19	0	16	5	10	6
3	Assumption	0.0		0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	L	7	Claiborne	6.3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Lafourche	3.0	3	0	2	0	1	1	0	0	0	0	0	1	0	4	1	0	0)	7	DeSoto	7.3	2	1	1	0	0	0	0	0	0	0	0	3	0	0	0	1	0
3	St Charles	0.0		0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0)	7	Natchitoches	0.0		0	1	0	2	0	0	0	0	0	0	2	0	1	0	0	0
3	St James	0.0		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0)	7	Red River	0.0		1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
3	St John the Baptist	0.0		2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0)	7	Sabine	0.0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
3	St Mary	0.0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0)	7	Webster	0.0		0	0	1	0	1	0	0	0	0	0	4	0	0	1	0	0
3	Terrebonne	0.0		0	3	0	0	0	0	0	0	0	0	1	0	1	0	0	0)	8	Caldwell	0.0		0	0	1	0	0	0	0	0	0	0	1	3	0	0	0	0
4	Acadia	0.0		0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0)	8	East Carroll	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Evangeline	0.0		1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0)	8	Franklin	0.0		0	0	1	1	0	0	0	0	0	0	1	0	1	0	1	0
4	Iberia	0.0		2	1	0	4	0	0	0	0	3	0	1	0	0	0	0	1	L	8	Jackson	0.0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Lafayette	0.4	1	4	0	1	1	1	1	0	0	0	0	2	9	0	0	1	0	ו	8	Lincoln	0.0		0	2	0	1	0	0	1	0	0	0	1	0	0	0	0	2
4	St Landry	1.2	1	1	0	3	0	0	0	0	0	0	0	0	0	0	2	0	0)	8	Madison	0.0		0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
4	St Martin	1.8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0)	8	Morehouse	0.0		0	2	2	1	0	1	0	0	0	0	1	0	0	0	0	2
4	Vermillion	0.0		0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0)	8	Ouachita	3.2	5	6	2	5	15	3	1	1	0	0	0	3	14	2	6	3	1
5	Allen	0.0		0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	L	8	Richland	0.0		2	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0
5	Beauregard	0.0		0	0	1	1	0	1	0	0	1	0	1	0	0	0	1	0)	8	Tensas	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Calcasieu	0.0		8	1	3	2	5	0	1	0	0	2	8	1	0	0	5	0)	8	Union	0.0		1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0
5	Cameron	0.0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0)	8	West Carroll	0.0		0	2	2	0	0	1	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	0	0	0	3	0	0)	9	Livingston	2.2	3	12	5	6	11	1	1	1	0	1	0	6	1	2	0	2	3
																					9	St Helena	0.0		0	2	0	2	0	0	0	0	0	0	2	0	0	0	0	0
	* parishes highligh	nted i	n gr	ey h	ave	case	es ea	ach y	year												9	St Tammany	2.7	7	27	4	0	3	14	0	3	4	1	1	10	1	2	2	0	2
																					9	Tangipahoa	0.8	1	12	6	1	2	6	1	3	1	0	1	12	0	0	1	0	0
																					9	Washington	2.1	1	6	2	0	3	4	2	0	1	0	1	1	0	1	0	0	1
																						Total	1.1	52	204	101	84	118	91	27	19	11	20	6	160	34	61	41	37	38

Imported Arboviral Summary 2018

Parish	CHIKV	DENV	ZIKV ¹	Total
Caddo		1		1
Orleans	1			1
St. Tammany		1		1
Statewide Total	1	2	0	3

	Countries of	of Travel ²
CHIKV	DENV	ZIKV ¹
Tanzania		
	Guatemala	
	Sri Lanka	

Imported Arboviral Summary 2017

Parish	CHIKV	DENV	ZIKV ¹	Total
Jefferson	3		1	4
St. Tammany		1		1
Statewide Total	3	1	1	5

Countries of Travel				
СНІКУ	DENV	ZIKV ¹		
India	India	USVI		

Imported Arboviral Summary 2016

Parish	CHIKV	DENV	ZIKV ¹	Total
Ascension			1	1
Bienville			1	1
Bossier	1			1
Caddo		1	1	2
East Baton Rouge			2	2
Jefferson		1	5	6
Lafayette		1	1	2 2
Livingston			2	
Orleans		2	16	18
Ouachita			1	1
St. Charles			1	1
St. James			1	1
St. Landry			4	4
St. Tammany		1	2	3
Statewide Total	1	6	38	45

Countries of Travel					
CHIKV	DENV	ZIKV ¹			
Costa Rica	Bolivia	Belize			
	Guatemala	Colombia			
	Indonesia	Costa Rica			
	Mexico	Dominican Republic			
	Nigeria	El Salvador			
	Philippines	Grenada			
		Guatemala			
		Haiti			
		Honduras			
		Jamaica			
		Mexico			
		Nicaragua			
		Puerto Rico			
		Saint Lucia			
		Trinidad			
		USVI			
		Venezuela			

¹Zika disease cases that had complaints of fever, rash, arthralgia, conjunctivitis, GBS or a birth defect

²For a comprehensive list of countries with active transmission of a specific arbovirus, please visit https://wwwnc.cdc.gov/travel/

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CDC Week	Week Starting	Week Ending
01	12/31/2017	1/6/2018
02	1/7/2018	
03	1/14/2018	
04	1/21/2018	
05	1/28/2018	
06	2/4/2018	
07	2/11/2018	
08	2/18/2018	2/24/2018
09	2/25/2018	
10	3/4/2018	
11	3/11/2018	
12	3/18/2018	
13	3/25/2018	
14	4/1/2018	
15	4/8/2018	
16	4/15/2018	
17	4/22/2018	
17	4/22/2018	
10	5/6/2018	
20	5/13/2018	5/19/2018
20	5/20/2018	
21		
22	5/27/2018	
23 24	6/3/2018	
	6/10/2018	
25	6/17/2018	
26 27	6/24/2018	
27	7/1/2018 7/8/2018	7/7/2018
		7/14/2018
29	7/15/2018	7/21/2018
30	7/22/2018	7/28/2018
31	7/29/2018	
32 33	8/5/2018	
33 34	8/12/2018	
	8/19/2018	, ,
35	8/26/2018	9/1/2018
36	9/2/2018	9/8/2018
37	9/9/2018	9/15/2018
38	9/16/2018	9/22/2018
39	9/23/2018	9/29/2018
40	9/30/2018	10/6/2018
41	10/7/2018	10/13/2018
42	10/14/2018	10/20/2018
43	10/21/2018	10/27/2018
44 45	10/28/2018	11/3/2018
45	11/4/2018	11/10/2018
46	11/11/2018	11/17/2018
47	11/18/2018	11/24/2018
48	11/25/2018	12/1/2018
49	12/2/2018	12/8/2018
50	12/9/2018	12/15/2018
51	12/16/2018	12/22/2018
52	12/23/2018	12/29/2018