





West Nile Encephalitis in Louisiana 2002

**Infectious Disease Epidemiology Section
Office of Public Health
Louisiana Dept of Health & Hospitals
...Your Taxes at Work...**

504-568-5005 or 1-800-256-2748

Objectives

At the end of the session

-  **The listener**
 -  **Will understand the lumpy and wavy distribution of WNV in Louisiana**
 -  **Will not understand the reasons for the lumps and waves**
-  **The sleeper will have had a good rest**

Fightthebite Campaign



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Louisiana's West Nile Virus Surveillance Program



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What is West Nile virus?

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Mosquitoes spread this virus after they feed on infected birds and then bite people, other birds and animals. It is not spread by person-to-person contact and there is no evidence that people can get the virus by handling infected animals

Most recent
statistics

What is West Nile
virus?

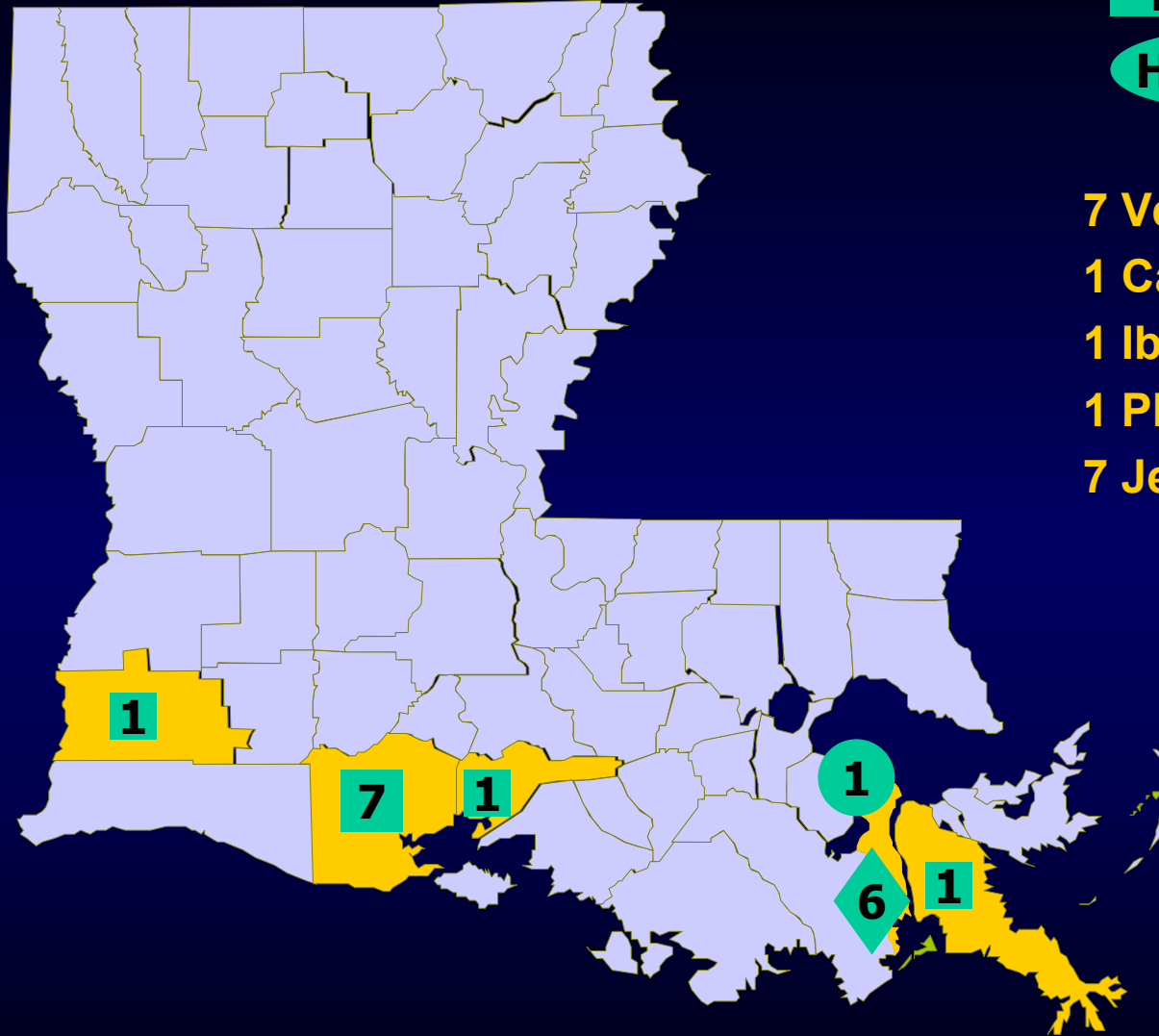
What is an
Arboviral
Encephalitis?

What is West Nile
encephalitis?

How can I get it?

**2001 WNV comes to
Louisiana**

West Nile Virus 2001



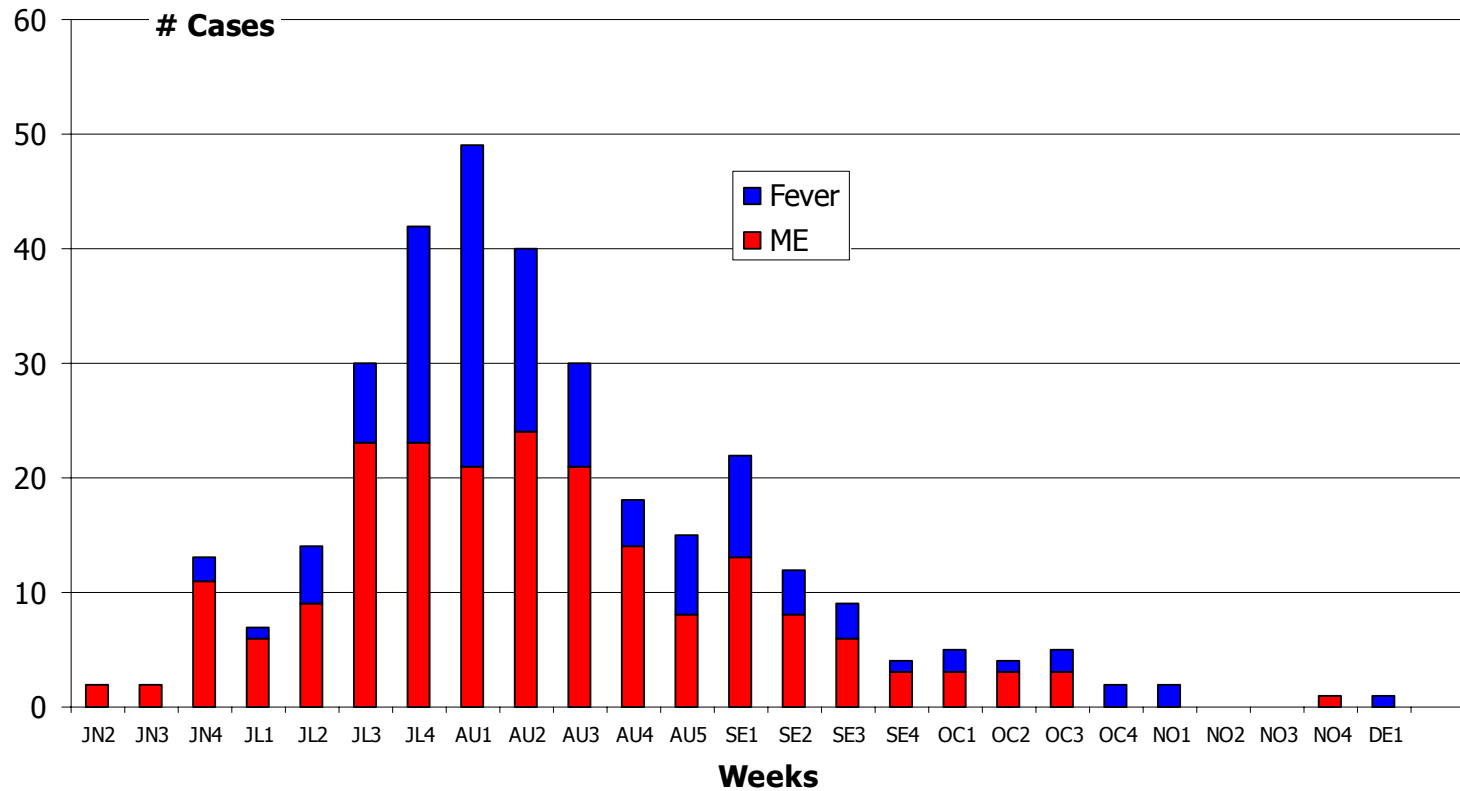
Horse
Human
Bird

7 Vermillion
1 Calcasieu
1 Iberia
1 Plaquemine
7 Jefferson

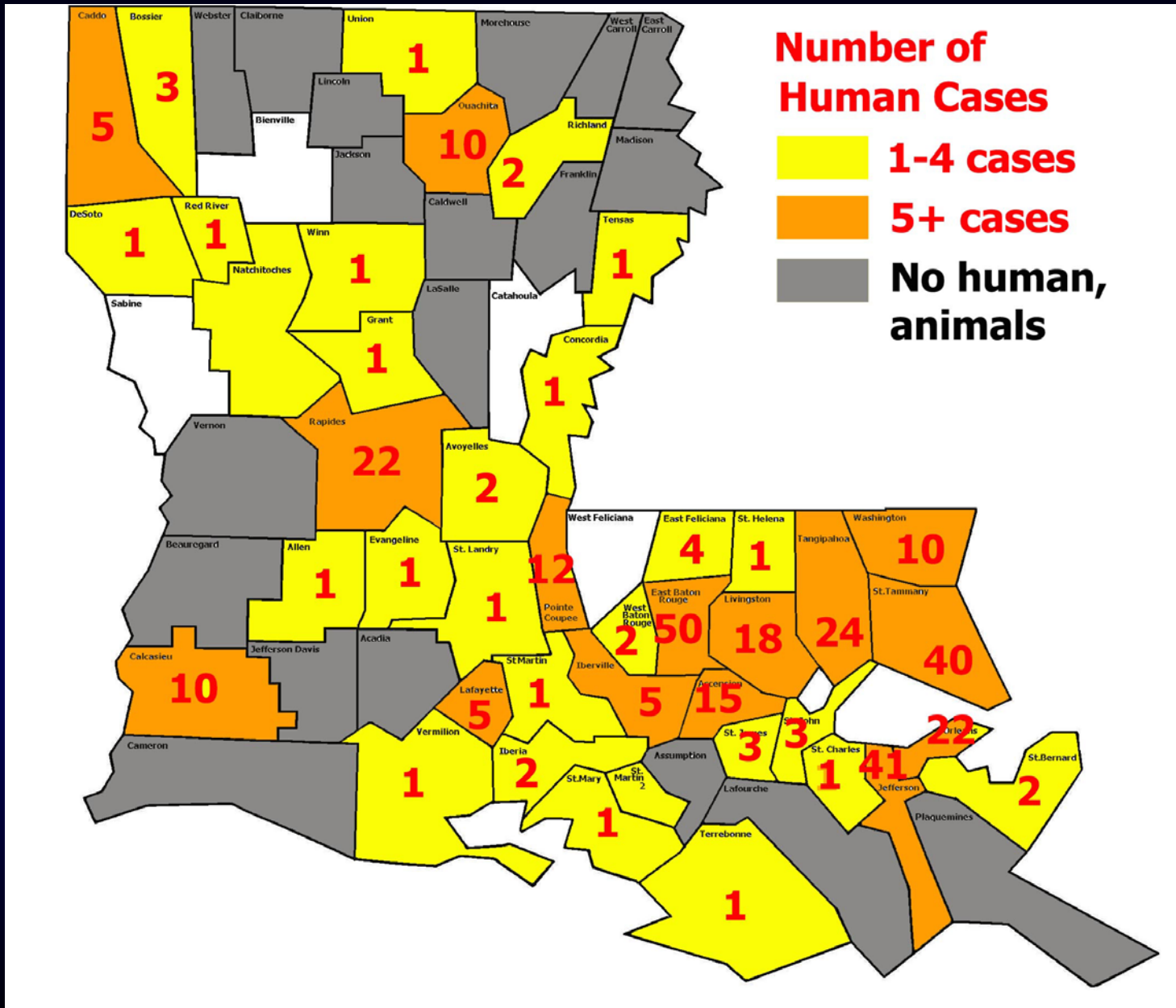
2002 WNV Epidemic

Epidemic Curve

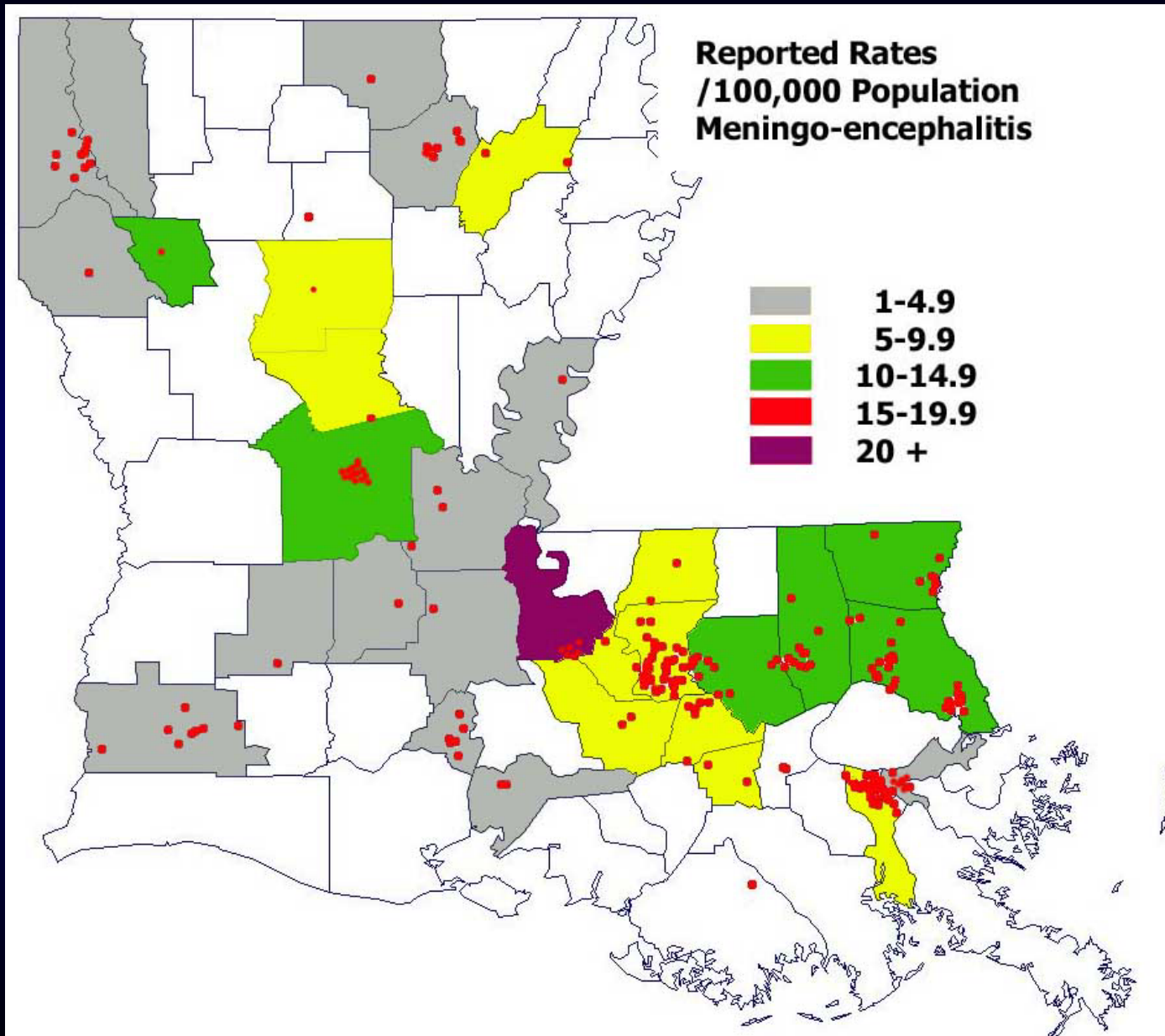
West Nile Cases Louisiana 2002



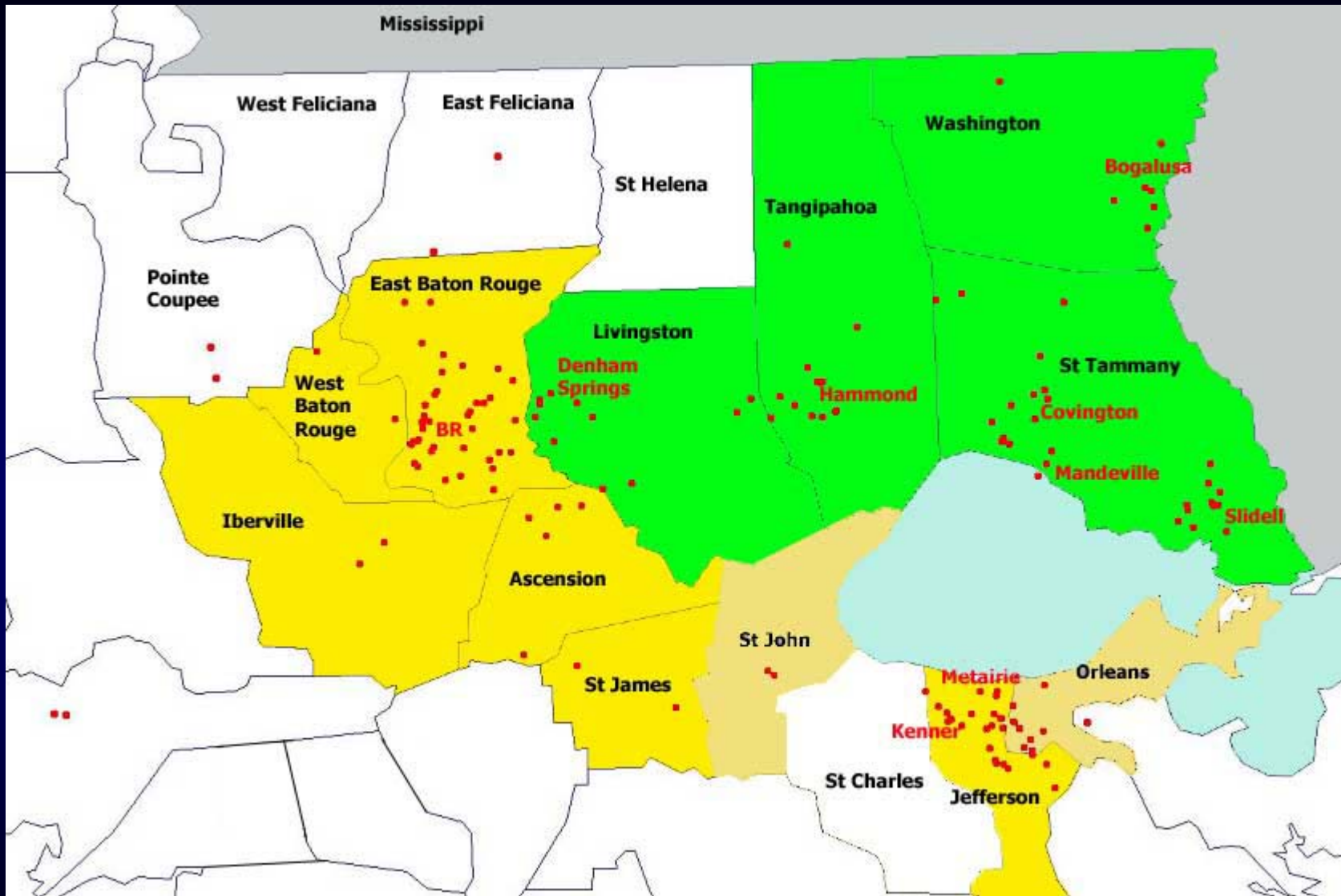
Geographical Distribution of Cases



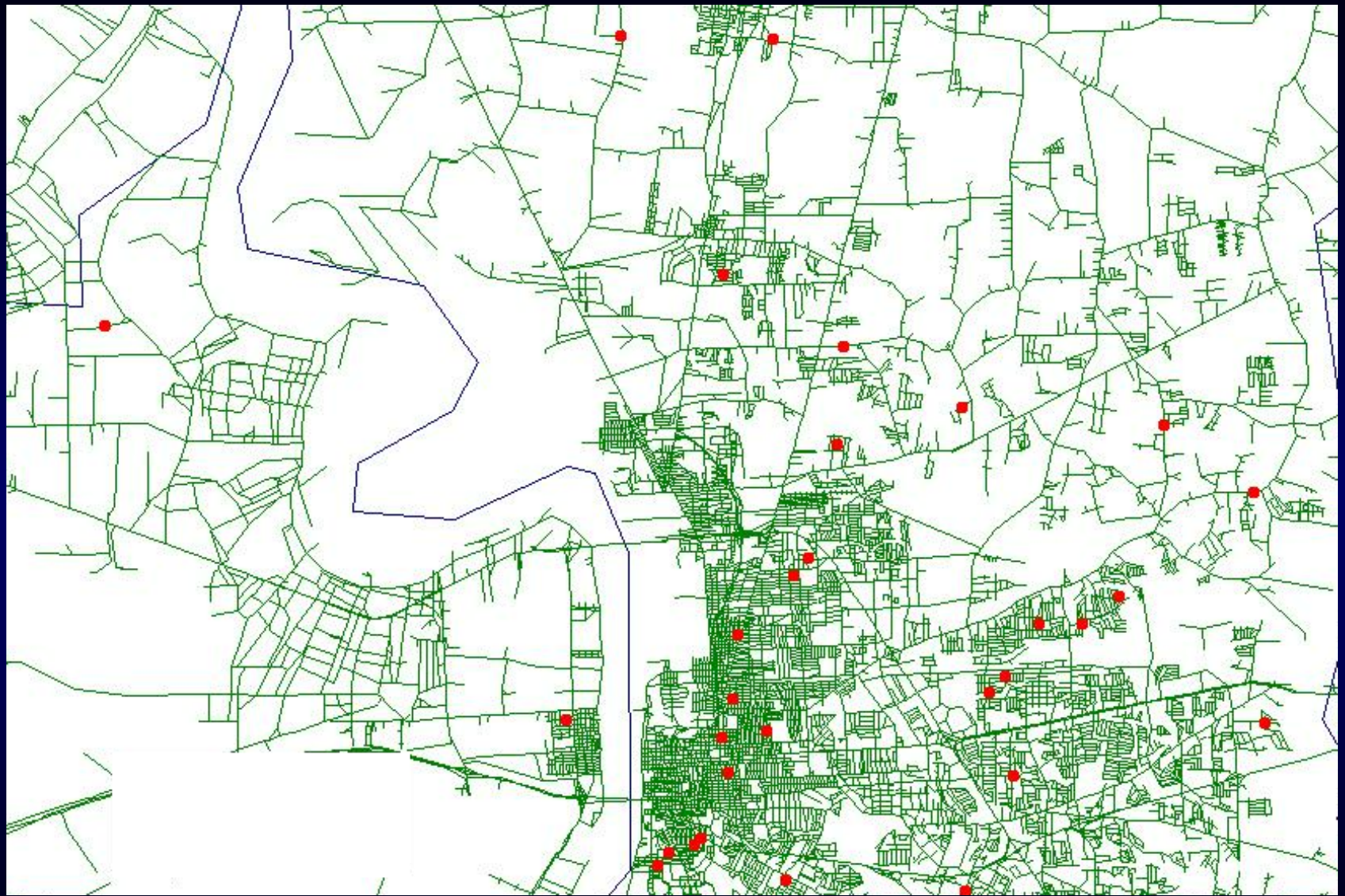
Meningoencephalitis Reported Rates



WNV-ME Regions 1-2-9



WNV-ME Baton Rouge

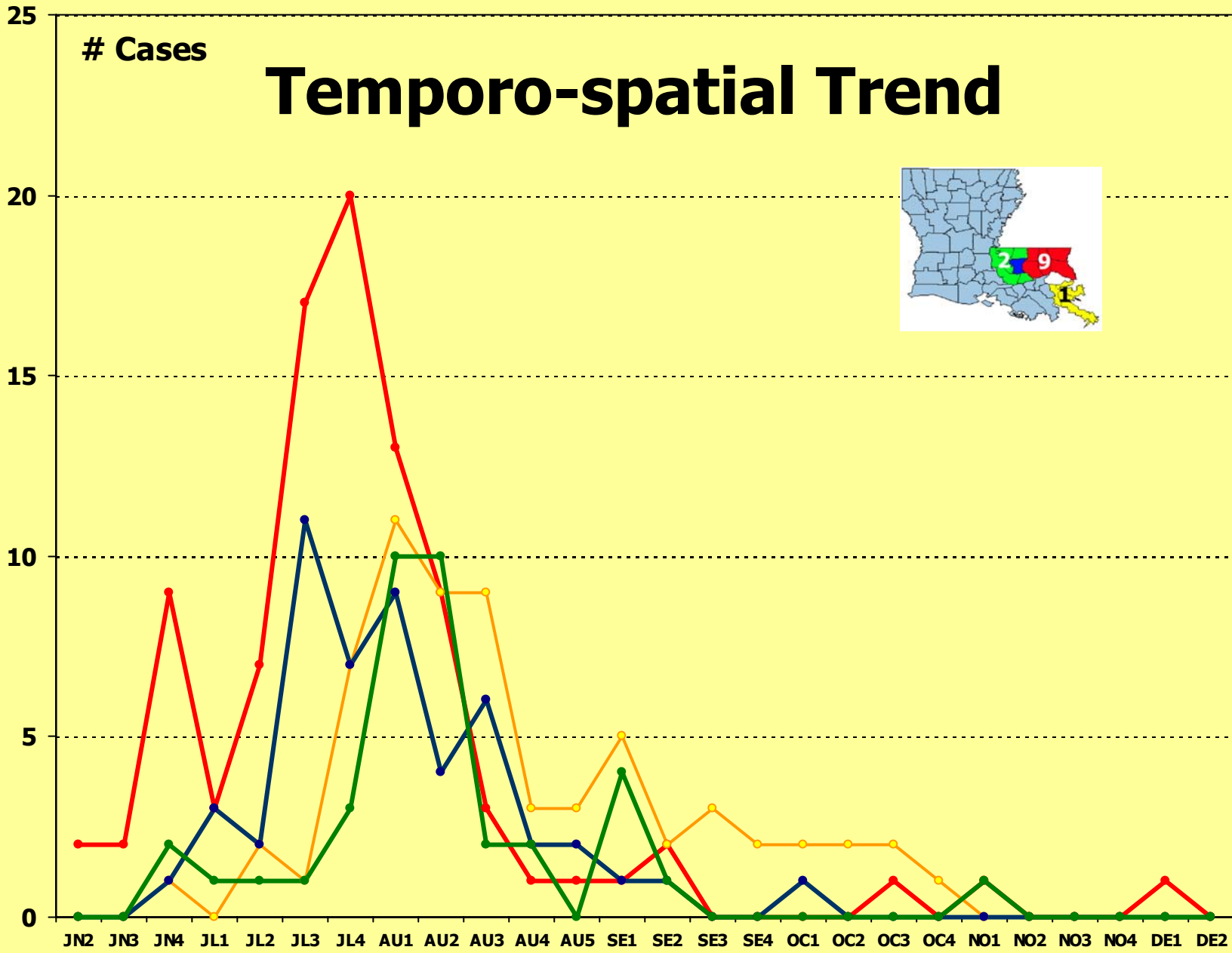
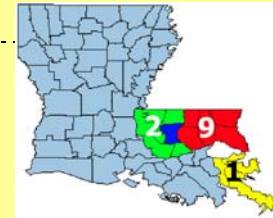


WNV-ME Slidell



Cases

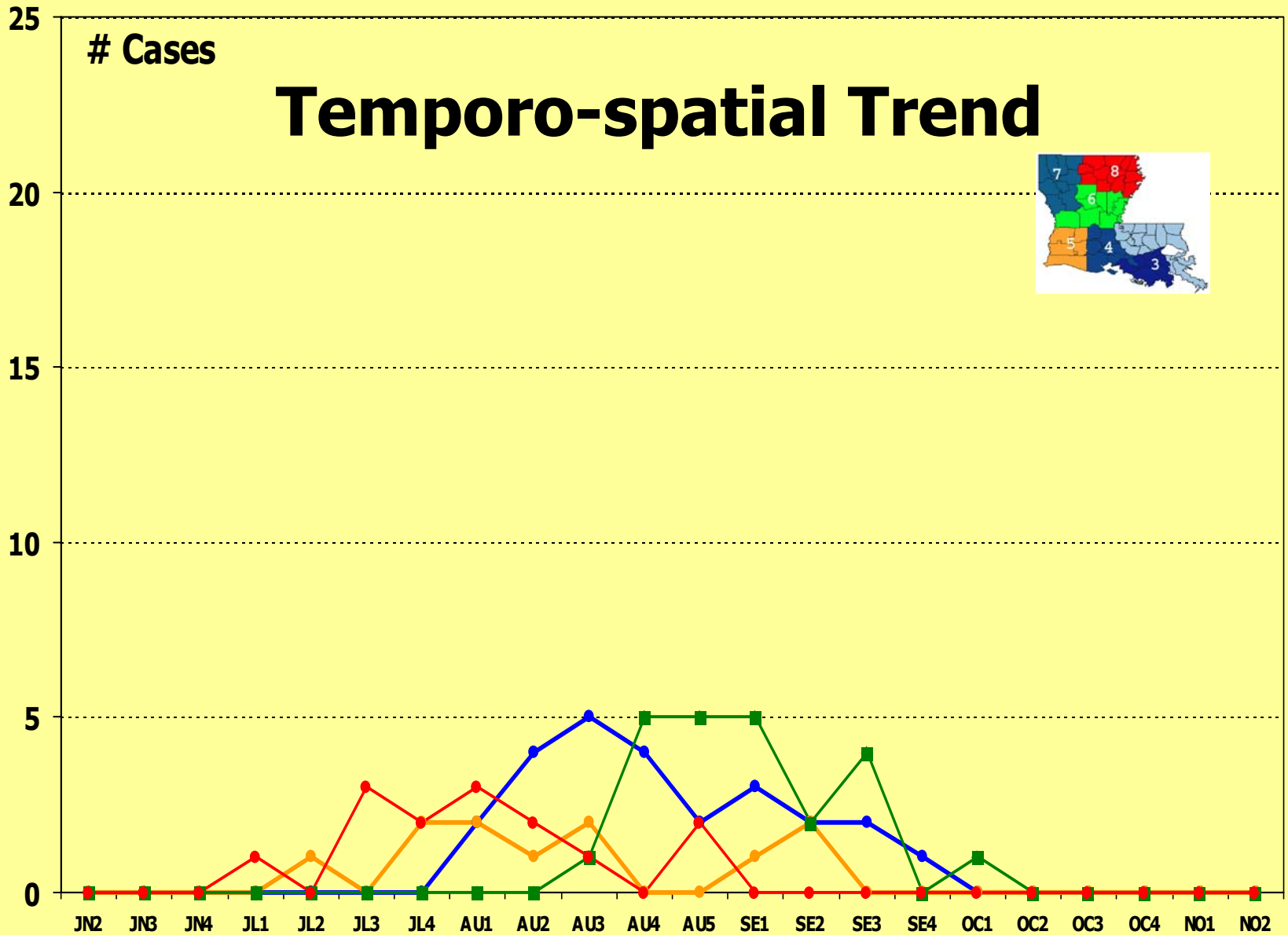
Temporo-spatial Trend



Reg9_NorthofLake Reg1_NewOrleansMetro Reg2_BatonRouge Reg2_Other

Cases

Temporo-spatial Trend



● Reg3&4&7

● Reg5_LakeCharles

■ Reg6_Alexandria

● Reg8_Ouachita

10

Cases

Temporo-spatial Trend for selected Parishes

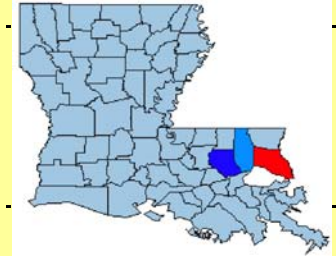
8

6

4

2

0



JN2

JN3

JN4

JL1

JL2

JL3

JL4

AU1

AU2

AU3

AU4

AU5

SE1

SE2

SE3

SE4

OC1

OC2

OC3

OC4

NO1

NO2

—●— St Tammany

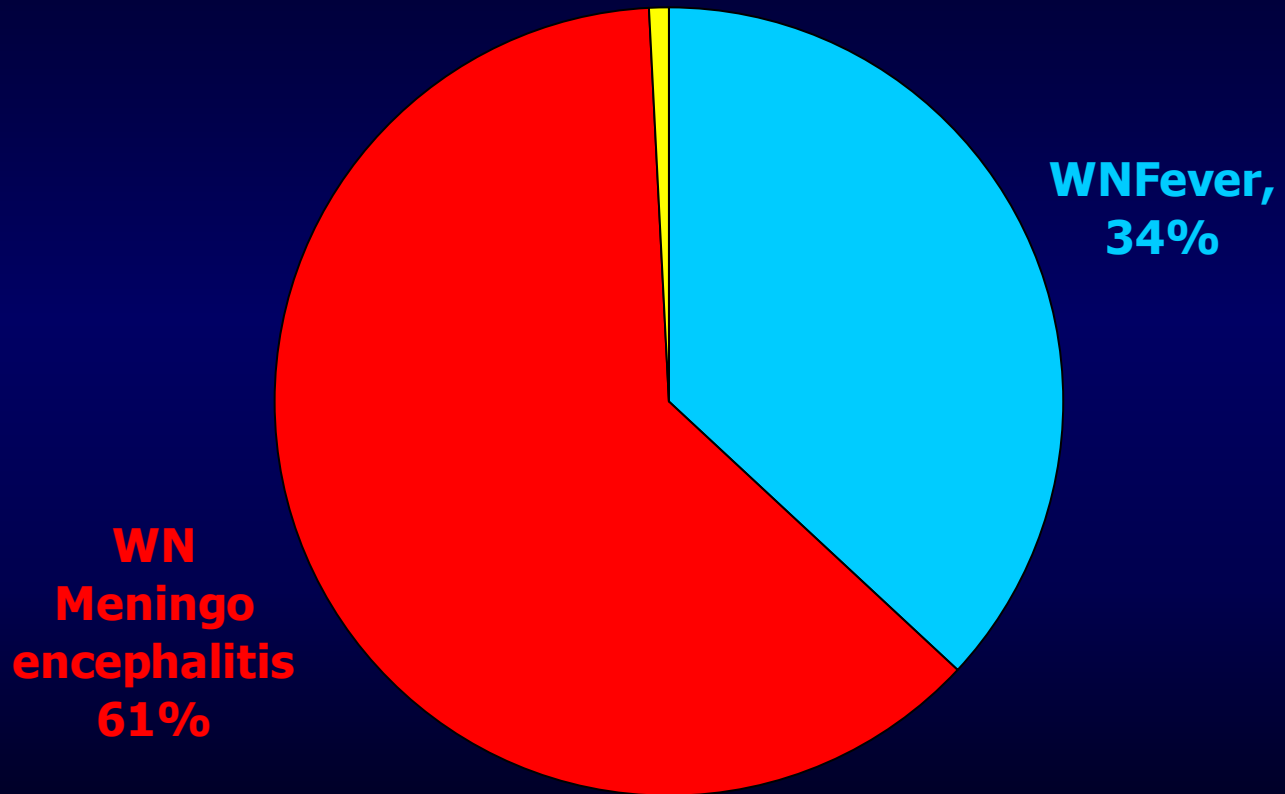
—●— Tangipahoa

—■— Livingston

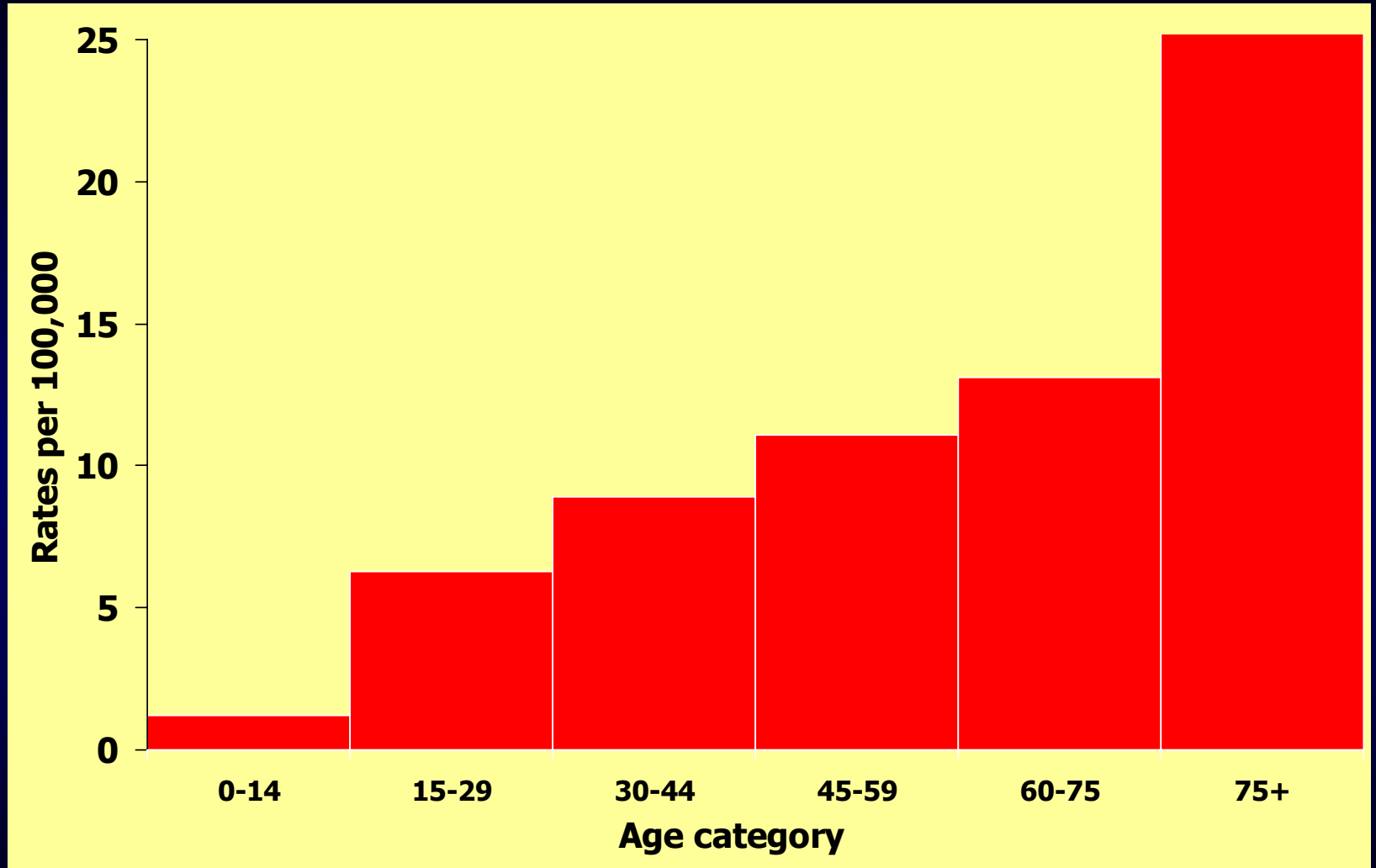
Clinical Presentation of Reported Cases

WN Fever	122
WN Meningoencephalitis	204
Undetermined	3

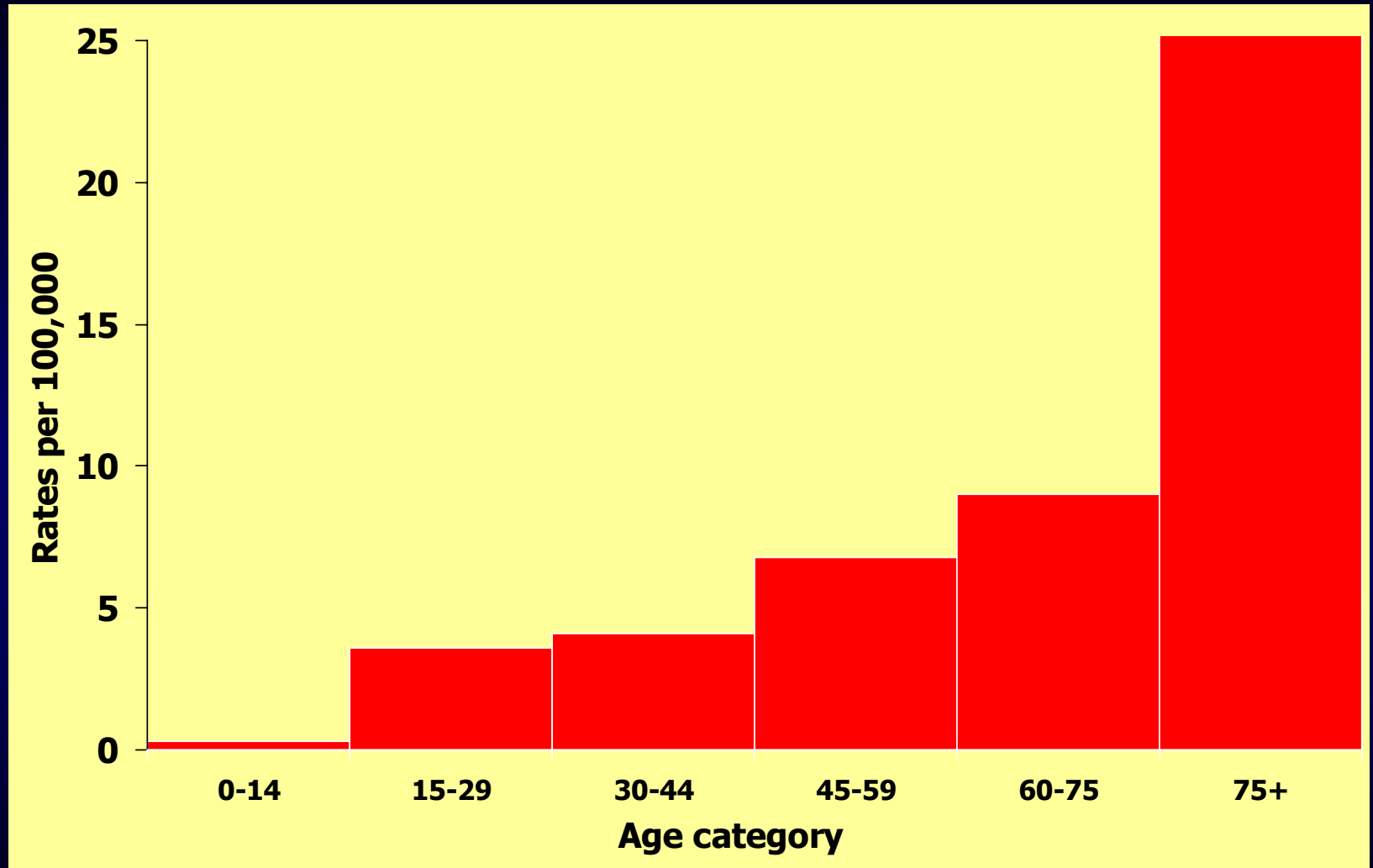
Unk 15, 5%



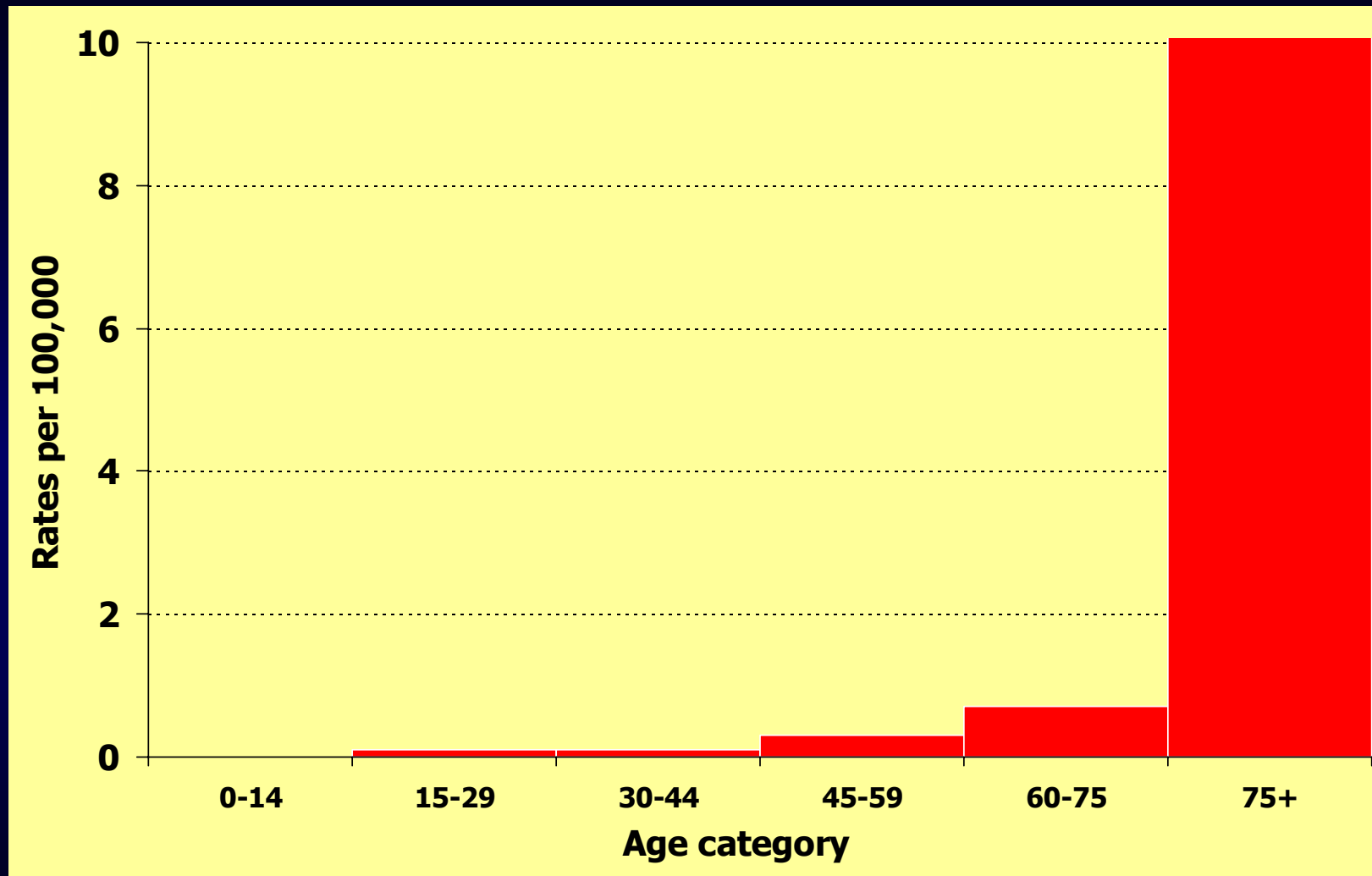
Incidence by Age Group: All Cases



Incidence by Age Group: ME

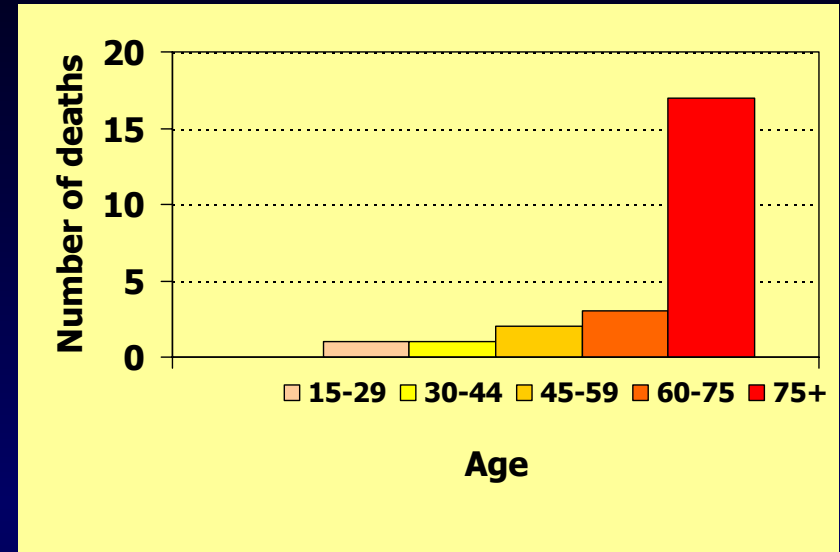


Fatality Rate by Age Group



Meningoencephalitis fatalities

- 24 deaths among meningoencephalitis cases
- Case-fatality rate 11.8% (24/204)
- 8 females, 16 males



Early warning system

- **People collect and report dead birds: particularly crows, blue jays and birds of prey**
- **Local mosquito control traps mosquitoes**
- **Public health transport specimens**
- **LSU Veterinary labs tests birds and mosquitoes**
- **Public Health keeps track of results of birds and mosquitoes and warns mosquito control and the public.**

Early Warning System

Parish	JA	FE	MA	AP	MY1	MY2	MY3	MY4	JN1	JN2	JN3	JN4	JL1	JL2	JL3	JL4	AU1	AU2	AU3	AU4	AU5	SE1	SE2	SE3	SE4	OC1	OC2	OC3	OC4	NO1	NO2	NO3	NO4	DE1		
Jefferson									1	0	2	1	6	6	6	5	3	1	4	0	1	0	2	1	1	1										
Orleans																1	4	2	4	0	2	1	2	2	2	0	1	1								
Plaquemines																																				
St Bernard																	1	1																		
Ascension									2	0	1	0	0	2	4	0	1	0	3	1	0	0	0	0	0	0	0	0	0	1						
EBatonRouge									1	3	2	11	7	9	4	6	2	2	1	1	0	0	1													
East Feliciana													1	0	0	0	2	1																		
Iberville																	3	1	0	1																
Pointe Coupee																2	2	4	2																	
WBatonRouge															1	1																				
Assumption																																				
Lafourche																																				
St Charles																																				
St James																																				
St John																		2	0	0	1															
St Mary																																				
Terrebonne																																				
Acadia																																				
Evangeline																		1																		
Iberia																																				
Lafayette																																				
St Landry																																				
St Martin																																				
St Mary																																				
Vermilion																																				
Allen																																				
Beauregard																																				
Calcasieu																																				
Cameron																																				
Jeff/Davis																																				
Avoyelles																																				
Concordia																																				
Grant																																				
Lasalle																																				
Rapides																																				
Vernon																																				
Winn																																				
Bossier																																				
Caddo																																				
Claiborne																																				
Desoto																																				
Natchitoches																																				
RedRiver																																				
Webster																																				
Caldwell																																				
East Caroll																																				
Franklin																																				
Jackson																																				
Lincoln																																				
Madison																																				
Morehouse																																				
Ouachita																																				
Richland																																				
Tensas																																				
Union																																				
W Caroll																																				
Livingston																																				
St Helena																																				
StTammany																																				
Tangipahoa																																				
Washington																																				

- Bird
- Bird and chicken
- Chicken
- Horse
- Mosquito pool

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