		CDC Home Search Health Topics A-	Z			
	West Nile Vi	Drine Infectious Diseases				
Virus _		Home > Statistics, Surveillance,	and Control	>		Fata né sina av
		rveillance, and Control				<u>Esta página er</u> Español
		Surveillance Program Guidelin	es I Case De	efinition I See Also		
pics		· ·				
an				st Nile Virus Activity e United States		
nce			in ui	e onited States		
<u>ce</u>	State	Encephalitis/Meningitis	Fever	Clinical/Unspecified	Total	Fatalities
ty	New York	59	3	0	62	7
	Total	59	3	0	62	7
<u>av</u> nina					,	
	west Nile ence	ephalitis and West Nile mening in inflammation of the brain, meni				
				tion of WN meningitis and/or end		ine spinal cord.
-	West Nile fev	ver refers to typically less severe	cases that	show no evidence of neuroinvasio	on. WN fever is consi	dered a notifiah
<u>s</u>		ver refers to typically less severe er the number of cases reported (
	disease, howeve		as with all c	liseases) may be limited by whet	her persons affected	seek care, whet
s al Sites or	disease, howeve laboratory c Other Clinical	er the number of cases reported (as with all c nt to which o anifestations	liseases) may be limited by whet cases are reported to health auth other than WN fever, WN encep	her persons affected horities by the diagno halitis or WN mening	seek care, whet sing physician. itis, such as acu
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• Maps & Human			West Nile Viru			
Cases		i	in the United S	States		
Clinical Guidance	State	Encephalitis/Meningitis	Fever	Clinical/Unspecified	Total	Fatalities
 Lab Guidance Workplace Safety 	Connecticut	0	1	0	1	0
Background	New Jersey	5	1	0	6	1
Ecology/Virology	New York	14	0	0	14	1
 Education/Training Resources 	d Total	19	2	0	21	2
·In the News						
• Publications	West Nile encenha	litis and West Nile meningitis ar	e forms of seve	re disease that affect a person'	s nervous syst	em Encenhalitis
• <u>Conferences</u> •Related Links		ammation of the brain, meningitis is				
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• <u>Guidelines for</u>	West Nile fever re	efers to typically less severe cases	that show no ev	idence of neuroinvasion. WN fe	ver is conside	red a notifiable
Surveillance, Prevention, & Control 🔂 PDF		e number of cases reported (as with osis is ordered and the extent to w				
(254 KB/77 pages)		udes persons with clinical manifesta alysis. Clinical/Unspecified cases				
		ses Reported to CDC- These num				
	the national, electro	bugh December 31, 2001 that have nic surveillance system established . Information regarding 2001 virus/	by CDC to assis	t states in tracking West Nile vi	rus and other	mosquito-borne
	Of the 21 cases 19	(90%) were reported as West Nile	meningitis or en	conhalitic (neuroinvacive dicea	(10%)	were reported as
		der disease), and 0 (0%) were clini	cally Clinical/Un			
	Note: The high p	roportion of neuroinvasive disease of	ases among rep	orted cases of West Nile virus	disease reflect	s surveillance
	reporting bias. Serio asymptomatic infec	bus cases are more likely to be repo ctions. Data from population-based	rted than mild c surveys indicate	ases. Also, the surveillance system that among all people who be	tem is not des come infected	signed to detect with West Nile
		ople with asymptomatic infections) ni PT, et al. Epidemic West Nile Enc survey		ork, 1999: Results of a househ		
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 $http://www.cdc.gov/ncidod/dvbid/westnile/surv&controlCaseCount00_detailed.htm$



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 Statistics, Surveillance, and Control

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Fatalities

1

1

0

1

0

2

1

1

3

Total

2

6

12

6

1

6

3

12

15

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West Nile Virus

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Government Sites Guidelines for Surveillance, Prevention, & Control PDF (254 KB/77 pages)

 Pennsylvania
 3
 0
 0
 3
 0

 Total
 64
 2
 0
 66
 10

2001 West Nile Virus Activity

in the United States

Fever

0

0

0

n

0

0

0

0

2

Clinical/Unspecified

0

0

0

n

0

0

0

n

0

refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. <u>Click here for further explanation of WN meningitis and/or encephalitis.</u>

West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. **Clinical/Unspecified** cases are those for which sufficient clinical information was not provided.

Total Human Cases Reported to CDC- These numbers reflect both mild and severe human disease cases occurring between January 1, 2001 through December 31, 2001 that have been reported to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2001 virus/disease activity is posted when such cases are reported to CDC.

Of the 66 cases, 64 (97%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 2 (3%) were reported as West Nile fever (milder disease), and 0 (0%) were clinical/Unspecified at this time. Please refer to state health department web sites for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

<u>1999|2000|2001|2002|2003|2004|2005|2006|2007|2008|2009|2010</u>

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<u> 1aps & Human</u>				t Nile Virus Activity e United States		
<u>Cases</u> Clinical Guidance			in ch	e onited States		
ab Guidance	State	Encephalitis/Meningitis	Fever	Clinical/Unspecified	Total	
Vorkplace Safety	Alabama	34	15	0	49	
ackground	Arkansas	32	11	0	43	
<u>cology/Virology</u> ducation/Training	California	1	0	0	1	
sources	Colorado	6	8	0	14	
<u>n the News</u>	Connecticut	10	6	1	17	
<u>iblications</u>	Delaware	0	1	0	1	
onferences elated Links	District of	14	19	1	34	
ate & Local	Columbia	22			20	
vernment Sites	Florida	28	0	0	28	
<u>iidelines for</u>	Georgia	28	15	1	44	
<u>irveillance,</u>	Illinois	553	328	3	884	
<u>evention, &</u> ontrol 🔝 PDF	Indiana	180	102	11	293	
54 KB/77	Iowa	27	27	0	54	
iges)	Kansas	22	0	0	22	
	Kentucky	53	22	0	75	
	Louisiana	204	122	3	329	
	Maryland	22	14	0	36	
	Massachusetts	19	4	0	23	
	Michigan	557	54	3	614	
	Minnesota	16	32	0	48	
	Mississippi	162	29	1	192	
	Missouri	126	42	0	168	
	Montana	2	0	0	2	
	Nebraska	84	53	15	152	
	New Jersey	16	8	0	24	
	New York	68	12	2	82	
	North Carolina	2	0	0	2	
	North Dakota	3	11	3	17	
	Ohio	310	131	0	441	
	Oklahoma	16	4	1	21	
	Pennsylvania	42	20	0	62	
	Rhode Island	1	0	0	1	
	South Carolina	1	0	0	1	
	South Dakota	17	20	0	37	
	Tennessee	47	9	0	56	
	Texas	202	0	0	202	
	Vermont	0	1	0	1	
	Virginia	16	12	1	29	
	West Virginia	3	0	0	3	
		~ ~				
	Wisconsin Wyoming	22 0	26 2	4 0	52 2	

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. Click here for further explanation of WN meningitis and/or encephalitis.

West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. **Clinical/Unspecified** cases are those for which sufficient clinical information was not provided.

Total Human Cases Reported to CDC- These numbers reflect both mild and severe human disease cases occurring between January 1, 2002 through December 31, 2002 that have been reported to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2002 virus/disease activity is posted when such cases are reported to CDC.

Of the 4156 cases, 2946 (71%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 1160 (28%) were reported as West Nile fever (milder disease), and 50 (1%) were clinically Clinical/Unspecified at this time. Please refer to <u>state health</u> <u>department web sites</u> for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

<u>1999|2000|2001|2002|2003|2004|2005|2006|2007|2008|2009|2010</u>

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GENTE+SEGURA+SALUDABLE ^{TV}	

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	Division of Vector-Borne In	fectious Diseases				
abort.	West Nile Virus	Search Site Index Contact Us				
est Nile Virus		Statistics, Surveillance, and Contract Statistics	Control >			Esta pági
sics		lance, and Control				Espar Espar
a <u>ct Sheet</u> & A		veillance Program Guidelines	Case Definitio	n I See Also		
ecific Topics						
<u>aps & Human</u> ases		200	03 West Nile in the Unit	e Virus Activity ted States		
<u>inical Guidance</u> ab Guidance	State	Encephalitis/Meningitis	Fever	Clinical/Unspecified	Total	Fatal
orkplace Safety	Alabama	25	10	2	37	3
<u>ckground</u>	Arizona	7	2	4	13	1
ology/Virology	Arkansas	23	2	0	25	C
lucation/Training sources	California	2	1	0	3	C
the News	Colorado	621	2326	0	2947	63
blications	Connecticut	12	5	0	17	C
nferences	Delaware	12	4	1	17	2
lated Links ate & Local	District of	3	0	0	3	C
vernment Sites	Columbia	5	0	0	5	U
lidelines for	Florida	61	33	0	94	6
rveillance,	Georgia	27	21	2	50	4
evention, &	Idaho	0	1	0	1	C
<u>ntrol</u> 🔂 PDF 54 KB/77	Illinois	30	24	0	54	1
ges)	Indiana	15	31	1	47	2
57	Iowa	81	65	1	147	6
	Kansas	89	0	2	91	4
	Kentucky	11	1	2	14	1
	Louisiana	101	23	0	124	8
	Maryland	49	23	1	73	8
	Massachusetts	12	5	0	17	1
	Michigan	14	4	1	19	2
	Minnesota	48	100	0	148	4
	Mississippi	34	38	15	87	1
	Missouri	39	25	0	64	8
	Montana	75	135	12	222	4
	Nebraska	194	1741	7	1942	2
	Nevada	2	0	0	2	C
	New Hampshire	2	0	1	3	(
	New Jersey	21	9	4	34	3
	New Mexico	74	135	0	209	4
	New York	57	12	2	71	1
	North Carolina	16	8	0	24	2
	North Dakota	94	523	0	617	5
	Ohio	84	24	0	108	8
	Oklahoma	56	23	0	79	C
	Pennsylvania	145	90	2	237	8
	Rhode Island	5	2	0	7	1
	South Carolina	3	3	0	6	C
	South Dakota	151	869	19	1039	1.
	Tennessee	21	5	0	26	1
	Texas	431	289	0	720	3
	Utah	0	1	0	1	(
	Vermont	0	3	0	3	(
	Virginia	19	1	6	26	1
	West Virginia	1	1	0	2	(
	Wisconsin	- 7	2	8	17	C
	Wyoming	92	210	73	375	9
	Total	2866	6830	166	9862	26

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis

refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. <u>Click here for further explanation of WN meningitis and/or encephalitis.</u>

West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. **Clinical/Unspecified** cases are those for which sufficient clinical information was not provided.

Total Human Cases Reported to CDC for 2003- These numbers reflect both mild and severe human disease cases occurring between Jan.1 - Dec. 31, 2003 that have been reported to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2004 virus/disease activity will be posted when such cases are reported to CDC.

Of 9862 cases, 6830 (69%) were reported as West Nile fever (milder disease), 2866 (29%) were reported as West Nile meningitis or encephalitis (*neuroinvasive disease*) and 166 (2%) were clinically Clinical/Unspecified. Please refer to <u>state health department web</u> <u>sites</u> for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

<u>1999</u> 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

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SAFER · HEALTHIER · PEOPLE"	Division of Vector-Borne Infectious Di	seases				
SAFER • HEALTHIER • PEOPLE* GENTE•SEGURA+SALUDABLE™	West Nile Virus					
West Nils Vince	West Nile Virus Home DVBID Home Search Site Ir					
West Nile Virus Basics		tics, Surveillance, and Control >			Es	ta página en
Fact Sheet	Statistics, Surveillance, a					<u>Español</u>
• <u>Q & A</u>	Maps and Data Surveillance F	Program <u>Guidelines</u> <u>Case Defin</u>	ition <u>See Als</u>	<u>io</u>		
Specific Topics		2004 West N	lile Virus Act	ivity		
• <u>Maps & Human</u> Cases			nited States	-		
 Clinical Guidance 	State	Encephalitis/Meningitis	Fever	Clinical/Unspecified	Total	Fatalities
·Lab Guidance		15	1	0	16	
• Workplace Safety • Background	Arizona	214	160	17	391	16
 Ecology/Virology 	Arkansas	17	100	1	28	0
Education/Training	a California	289	395	95	779	28
Resources • In the News	Colorado	41	250	0	291	4
·Publications	Connecticut	0	1	0	1	0
Conferences	District of Columbia	1	1	0	2	0
• <u>Related Links</u> •State & Local	Florida	33	8	0	41	2
Government Sites	Georgia	14	7	0	21	1
•Guidelines for	Idaho	1	2	0	3	0
Surveillance,	Illinois	29	30	1	60	4
<u>Prevention, &</u> <u>Control</u> 😭 PDF	Indiana	8	2	3	13	1
(254 KB/77	Iowa	13	9	1	23	2
pages)	Kansas	18	25	0	43	2
	Kentucky	1	6	0	7	0
	Louisiana	85	24	0	109	7
	Maryland	10	6	0	16	0
	Michigan	13	3	0	16	0
	Minnesota	13	21	0	34	2
	Mississippi	31	18	2	51	4
	Missouri	27 2	9 3	0 1	36	2 0
	Montana Nebraska	7	46	1 0	6 53	0
	Nevada	25	40 19	0	44	0
	New Jersey	1	0	0	1	0
	New Mexico	31	53	4	88	4
	New York	7	3	0	10	0
	North Carolina	3	0	0	3	0
	North Dakota	2	18	0	20	2
	Ohio	11	1	0	12	2
	Oklahoma	16	6	0	22	3
	Oregon	0	3	0	3	0
	Pennsylvania	9	5	1	15	2
	South Carolina	0	2	0	2	0
	South Dakota	6	45	0	51	1
	Tennessee	13	1	0	14	0
	Texas	119	57	0	176	8
	Utah	6	5	0	11	0
	Virginia	4	0	1	5	1
	Wisconsin	5	7	0	12	2
	Wyoming	2	7	1	10	0
	Total	1142	1269	128	2539	100

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. Click here for further explanation of WN meningitis and/or encephalitis.

West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. **Clinical/Unspecified** cases are those for which sufficient clinical information was not provided.

Total Human Cases Reported to CDC- These numbers reflect both mild and severe human disease cases occurring between January 1, 2004 through December 31, 2004 that have been reported to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2004 virus/disease activity is posted when such cases are reported to CDC.

Of the 2539 cases, 1142 (45%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 1269 (50%) were reported as West Nile fever (milder disease), and 128 (5%) were clinically Clinical/Unspecified at this time. Please refer to <u>state</u> <u>health department web sites</u> for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

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• Fact Sheet	Mans and Data I Surve	illance Program Guidelines C	ase Definition	See Also		Lopunor		
· <u>Q & A</u> Specific Topics		2005 West Nile Virus Activity						
• <u>Maps & Human</u>	in the United States							
<u>Cases</u>				Other				
 <u>Clinical Guidance</u> Lab Guidance 	State	Encephalitis/Meningitis	Fever	Other Clinical/Unspecified	Total	Fatalities		
· <u>Workplace Safety</u>	Alabama	6	4	0	10	2		
Background	Arizona	50	61	2	113	5		
 Ecology/Virology Education/Training 	Arkansas	13	15	0	28	4		
Resources	California	299	534	47	880	19		
·In the News	Colorado	21	85	0	106	2		
 Publications 	Connecticut	4	2	0	6	1		
<u>Conferences</u>	Delaware	1	0	1	2	0		
• <u>Related Links</u> •State & Local	District of Columbia	3	2	0	5	0		
Government Sites	Florida	10	11	0	21	1		
Guidelines for	Georgia	9	7	4	20	2		
Surveillance,	Idaho	3	10	0	13	0		
Prevention, &	Illinois	134	91	27	252	13		
<u>Control</u>	Indiana	10	2	11	23	1		
pages)	Iowa	14	21	2	37	2		
	Kansas	17	8	0	25	1		
	Kentucky	5	0	0	5	1		
	Louisiana	117	54	0	171	11		
	Maryland	4	1	0	5	0		
	Massachusetts	4	2	0	6	1		
	Michigan	52	8	2	62	4		
	Minnesota	18	27	0	45	3		
	Mississippi	39	31	0	70	6		
	Missouri	17	13	0	30	3		
	Montana	8	17	0	25	0		
	Nebraska	55	133	0	188	5		
	Nevada	14	15	2	31	1		
	New Jersey	3	3	0	6	0		
	New Mexico	20	13	0	33	2		
	New York	30	8	0	38	4		
	North Carolina	2	2	0	4	0		
	North Dakota	12	74	0	86	0		
	Ohio	46	15	0	61	2		
	Oklahoma	17	14	0	31	1		
	Oregon	1	6	0	7	0		
	Pennsylvania	14	11	0	25	2		
	Rhode Island	1	0	0	1	0		
	South Carolina	5	0	0	5	1		
	South Dakota	35	193	1	229	2		
	Tennessee	15	3	0	18	1		
	Texas	128	67	0	195	11		
	Utah	21	31	0	52	1		
	Virginia	0	1	0	1	0		
	Wisconsin	11	6	0	17	2		
	Wyoming	6	6	0	12	2		
	Total	1294	1607	99	3000	119		
	West Nile encephalit	is and West Nile meningitis	are forms of sev	vere disease that affect a person's	s nervous syste	m. Encephalitis		

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. Click here for further explanation of WN meningitis and/or encephalitis.

West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion.

WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. **Clinical/Unspecified** cases are those for which sufficient clinical information was not provided.

See the **case definition** (2004) for <u>Neuroinvasive and Non-Neuroinvasive Domestic Arboviral Diseases</u>. From the CDC Epidemiology Program Office.

Total Human Cases Reported to CDC: These numbers reflect both mild and severe human disease cases occurring between January 1, 2005 to December 31, 2005 as reported through May 5, 2006 that have been reported to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2005 virus/disease activity is posted when such cases are reported to CDC.

Of the 3000 cases, 1294 (43%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 1607 (54%) were reported as West Nile fever (milder disease), and 99 (3%) were clinically Clinical/Unspecified at this time. Please refer to <u>state health</u> <u>department web sites</u> for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

<u>1999</u> 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

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asics	<u>West Nile Virus Home</u> > <u>Statistics, Surveillance, and Control</u> > Statistics, Surveillance, and Control						
<u>act Sheet</u>	Maps and Data Surveillance Program Guidelines Case Definition See Also						
<u>) & A</u> pecific Topics	Maps and Data Surveilla	ince Program Guideline					
laps & Human	2006 West Nile Virus Activity in the United States						
ases							
linical Guidance ab Guidance	State	Encephalitis/ Meningitis	Fever	Other Clinical/Unspecified	Total	Fatalities	
Vorkplace Safety	Alabama	8	0	0	8	0	
<u>ackground</u> cology/Virology	Arizona	65	77	8	150	11	
ducation/Training	Arkansas	24	5	0	29	4	
esources	California	81	186	11	278	7	
n the News	Colorado	66	279	0	345	7	
ublications	Connecticut	7	2	0	9	1	
<u>onferences</u> elated Links	District of Columbia	0	2	0	2	0	
tate & Local	Florida	3	0	0	3	0	
overnment Sites	Georgia	2	5	1	8	1	
uidelines for	Idaho	115	827	54	996	21	
urveillance, revention, &	Illinois	122	69	24	215	10	
Control 🔂 PDF	Indiana	27	8	45	80	5	
254 KB/77	Iowa	21	13	3	37	0	
ages)	Kansas	17	13	0	30	4	
	Kentucky	5	1	0	6	1	
	Louisiana	91	89	0	180	9	
	Maryland	9	1	1	11	1	
	Massachusetts	2	1	0	3	0	
	Michigan	43	10	2	55	7	
	Minnesota	31	34	0	65	3	
	Mississippi	89	94	0	183	14	
	Missouri	50	11	1	62	5	
	Montana	12	21	1	34	0	
	Nebraska	45	219	0	264	1	
	Nevada	34	76	14	124	1	
	New Jersey	2	2	1	5	0	
	New Mexico	3	5	0	8	1	
	New York	16	8	0	24	4	
	North Carolina	1	0	0	1	0	
	North Dakota	20	117	0	137	1	
	Ohio	36	12	0	48	4	
	Oklahoma	26	21	1	48	6	
	Oregon	7	50	12	69	2	
	Pennsylvania	8	1	0	9	2	
	South Carolina	1	0	0	1	0	
	South Dakota	38	75	0	113	3	
	Tennessee	16	6	0	22	1	
	Texas	233	121	0	354	32	
	Utah	56	102	0	158	5	
	Virginia	0	0	5	5	0	
	Washington	0	3	0	3	0	
	West Virginia	1	0	0	1	0	
	Wisconsin	11	10	0	21	1	
	Wyoming	15	40	10	65	2	
	Totals	1459	2616	194	4269	177	

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. Click here for further explanation of WN meningitis and/or encephalitis.

West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. Clinical/Unspecified cases are those for which sufficient clinical information was not provided.

See the **case definition** (2004) for <u>Neuroinvasive and Non-Neuroinvasive Domestic Arboviral Diseases</u>. From the CDC Epidemiology Program Office.

Total Human Cases Reported to CDC: These numbers reflect both mild and severe human disease cases occurring between January 1, 2006 to December 31, 2006 as reported through May 22, 2007 that have been reported to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2006 virus/disease activity is posted when such cases are reported to CDC.

Of the 4269 cases, 1459 (34%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 2616 (61%) were reported as West Nile fever (milder disease), and 194 (5%) were clinically unspecified at this time. Please refer to <u>state health</u> <u>department web sites</u> for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

<u>1999</u> 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

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Specific Topics			2007 West Nile V			
 Maps & Human 			in the United	d States		
<u>Cases</u> · <u>Clinical Guidance</u> ·Lab Guidance	State	Encephalitis/ Meningitis	Fever	Other Clinical/Unspecified	Total	Fatalities
·Workplace Safety	Alabama	17	7	0	24	3
Background	Arizona	50	45	2	97	6
• Ecology/Virology	Arkansas	13	7	0	20	1
· Education/Training Resources	California	154	220	6	380	20
·In the News	Colorado	99	477	0	576	7
Publications	Connecticut	2	2	0	4	0
• <u>Conferences</u>	Delaware	1	0	0	1	0
• <u>Related Links</u> • <u>State & Local</u>	Florida	3	0	0	3	1
Government Sites	Georgia	23	24	3	50	1
•Guidelines for	Idaho	10	120	2	132	1
Surveillance,	Illinois	57	26	18	101	4
Prevention, &	Indiana	14	7	3	24	1
Control 🔂 PDF (254 KB/77	Iowa	12	15	3	30	3
pages)	Kansas	14	26	0	40	2
pageo)	Kentucky	4	0	0	4	0
	Louisiana	27	13	0	40	2
	Maryland	6	3	1	10	0
	Massachusetts	3	3	0	6	0
	Michigan	14	1	2	17	4
	Minnesota	44	57	0	101	2
	Mississippi	50	86	0	136	4
	Missouri	61	16	0	77	5
	Montana	37	164	1	202	4
	Nebraska	21	142	0	163	4
	Nevada	2	6	4	12	1
	New Jersey	1	0	0	1	0
	New Mexico	39	21	0	60	3
	New York	16	6	0	22	3
	North Carolina	4	4	0	8	0
	North Dakota	49	320	0	369	3
	Ohio	13	9	1	23	3
	Oklahoma	59	47	1	107	8
	Oregon	7	19	0	26	0
	Pennsylvania	5	5	0	10	0
	Rhode Island	0	1	0	1	0
	South Carolina	3	2	0	5	0
	South Dakota	48	160	0	208	6
	Tennessee	5	3	3	11	1
	Texas	170	90	0	260	16
	Utah	28	42	0	70	2
	Virginia	3	1	1	5	0
	Wisconsin	7	6	0	13	1
	Wyoming	22	147	12	181	2
	Totals	1217	2350	63	3630	124
	1 9 9919					Tala

2007 West Nile Virus Activity

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. Click here for further explanation of WN meningitis and/or encephalitis.

> West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported

(as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. Clinical/Unspecified cases are those for which sufficient clinical information was not provided.

See the **case definition** (2004) for <u>Neuroinvasive and Non-Neuroinvasive Domestic Arboviral Diseases</u>. From the CDC Epidemiology Program Office.

Total Human Cases Reported to CDC: These numbers reflect both mild and severe human disease cases occurring between January 1, 2007 to December 31, 2007 as reported through May 20, 2008 to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2007 virus/disease activity is posted when such cases are reported to CDC.

Of the 3630 cases, 1217 (34%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 2350 (65%) were reported as West Nile fever (milder disease), and 63 (2%) were clinically unspecified at this time. Please refer to <u>state health</u> <u>department web sites</u> for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

<u>1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | <mark>2008 | 2009 |</mark> 2010</u>

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Date last modified: April 13, 2010 Content source: Division of Vector Borne Infectious Diseases National Center for Zoonotic, Vector-Borne, and Enteric Diseases



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Final 2008 West Nile Virus Activity in the United States							
State	Encephalitis/ Meningitis	Fever	Other Clinical/Unspecified	Total	Fatalities		
Alabama	11	7	0	18	0		
Arizona	62	43	9	114	7		
Arkansas	7	2	0	9	0		
California	292	149	4	445	15		
Colorado	17	54	0	71	1		
Connecticut	5	2	1	8	0		
Delaware	0	0	1	1	0		
District of Columbia	4	1	3	8	0		
Florida	3	0	0	3	0		
Georgia	4	3	1	8	0		
Idaho	2	31	6	39	1		
Illinois	12	4	4	20	1		
Indiana	3	0	1	4	0		
Iowa	3	0	3	6	1		
Kansas	14	17	0	31	0		
Kentucky	3	0	0	3	0		
Louisiana	18	31	0	49	1		
Maryland	6	7	1	14	0		
Massachusetts	1	0	0	1	0		
Michigan	11	4	2	17	0		
Minnesota	2	8	0	10	0		
Mississippi	22	43	0	65	2		
Missouri	12	3	0	15	1		
Montana	0	3	2	5	0		
Nebraska	7	40	0	47	1		
Nevada	9	5	2	16	0		
New Jersey	6	4	0	10	2		
New Mexico	5	3	0	8	0		
New York	32	14	0	46	6		
North Carolina	2	0	1	3	0		
North Dakota	2	35	0	37	0		
Ohio	14	1	0	15	1		
Oklahoma	4	5	0	9	0		
Oregon	3	13	0	16	0		
Pennsylvania	12	2	0	14	1		
Rhode Island	1	0	0	1	0		
South Carolina	0	1	0	1	0		
South Dakota	11	28	0	39	0		
Tennessee	12	7	0	19	1		
Texas	40	24	0	64	1		
Utah	6	18	2	26	0		
Virginia	0	0	1	1	0		
Washington	2	1	0	3	0		
West Virginia	1	0	0	1	0		
Wisconsin	4	3	1	8	1		
Wyoming	0	8	0	8	0		
Totals	687	624	45	1356	44		

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. <u>Click here for further explanation of WN meningitis and/or encephalitis.</u>

> West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. Clinical/Unspecified cases are those for which sufficient clinical information was not provided.

See the **case definition** (2004) for <u>Neuroinvasive and Non-Neuroinvasive Domestic Arboviral Diseases</u>. From the CDC Epidemiology Program Office.

Total Human Cases Reported to CDC: These numbers reflect both mild and severe human disease cases occurring between January 1, 2008 to December 31, 2008 as reported through April 10, 2009 to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2008 virus/disease activity is posted when such cases are reported to CDC.

Of the 1356 cases, 687 (51%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 624 (46%) were reported as West Nile fever (milder disease), and 45 (3%) were clinically unspecified at this time. Please refer to <u>state health</u> <u>department web sites</u> for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

<u>1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010</u>

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Date last modified: April 13, 2010 Content source: Division of Vector Borne Infectious Diseases National Center for Zoonotic, Vector-Borne, and Enteric Diseases

Division of Vector-Borne Infectious Diseases

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Basics · Fact Sheet	Statistics, Surveillance, and Control								
• <u>Q & A</u>	Maps and Data Surveillance Program Guidelines Case Definition See Also								
Specific Topics	Final 2009 West Nile Virus Activity								
• <u>Maps & Human</u> Cases	in the United States								
Clinical Guidance	<u>.</u>	Encephalitis/	_	Other					
·Lab Guidance	State	Meningitis	Fever	Clinical/Unspecified	Total	Fatalities			
 Workplace Safety Background 	Arizona	12	8	0	20	0			
• <u>Ecology/Virology</u>	Arkansas	6	0	0	6	1			
Education/Training	California	63	45	4	112	4			
Resources	Colorado	36	67	0	103	3			
• <u>In the News</u> • <u>Publications</u>	District of Columbia	2	0	0	2	0			
• <u>Conferences</u>	Florida	2	0	1	3	0			
Related Links	Georgia	4	0	0	4	2			
• <u>State & Local</u> Government Sites	Idaho	5	26	7	38	2			
• Guidelines for	Illinois	5	0	0	5	0			
Surveillance,	Indiana	2	2	0	4	1			
Prevention, &	Iowa	0	5	0	5	0			
Control T PDF	Kansas	4	9	0	13	0			
(254 KB/77 pages)	Kentucky	3	0	0	3	0			
pageo)	Louisiana	10	11	0	21	0			
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	Michigan Minnesota	1	3	0	1 4	0			
	Mississippi	31	22	0	53	5			
	Missouri	4	1	0	5	0			
	Montana	2	3	0	5	0			
	Nebraska	11	41	0	52	0			
	Nevada	7	4	1	12	0			
	New Jersey	3	0	0	3	0			
	New Mexico	5	2	1	8	1			
	New York	5	0	2	7	0			
	North Dakota	0	1	0	1	0			
	Ohio	0	2	0	2	0			
	Oklahoma	8	2	0	10	1			
	Oregon	0	8	3	11	0			
	South Carolina	2	0	1	3	0			
	South Dakota	6	15	0	21	0			
	Tennessee	4	5	0	9	1			
	Texas	93	22	0	115	9			
	Utah	1	1	0	2	0			
	Virginia	5	0	0	5	0			
	Washington	25	8	5	38	1			
	Wisconsin	1	0	0	1	0			
	Wyoming	4	8	0	12	1			
	Totals	373	322	25	720	32			

West Nile encephalitis and West Nile meningitis are forms of severe disease that affect a person's nervous system. Encephalitis refers to an inflammation of the brain, meningitis is an inflammation of the membrane around the brain and the spinal cord. Click here for further explanation of WN meningitis and/or encephalitis.

> West Nile fever refers to typically less severe cases that show no evidence of neuroinvasion. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

Other Clinical includes persons with clinical manifestations other than WN fever, WN encephalitis or WN meningitis, such as acute flaccid paralysis. **Clinical/Unspecified** cases are those for which sufficient clinical information was not provided.

See the **case definition** (2004) for <u>Neuroinvasive and Non-Neuroinvasive Domestic Arboviral Diseases</u>. From the CDC Epidemiology Program Office.

Total Human Cases Reported to CDC: These numbers reflect both mild and severe human disease cases occurring between January 1, 2009 to December 31, 2009 as reported through April 30, 2010 to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2009 virus/disease activity is posted when such cases are reported to CDC.

Of the 720 cases, 373 (52%) were reported as West Nile meningitis or encephalitis (neuroinvasive disease), 322 (45%) were reported as West Nile fever (milder disease), and 25 (3%) were clinically unspecified at this time. Please refer to state health department web sites for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based seroepidemiological survey. Lancet 2001;358:261-264.

For Case Information:

1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

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Date last modified: April 30, 2010 Content source: Division of Vector Borne Infectious Diseases National Center for Zoonotic, Vector-Borne, and Enteric Diseases

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Neuroinvasive disease cases, refers to severe cases of disease that affect a person's nervous system. These include encephalitis which is an inflammation of the brain, meningitis which is an inflammation of the membrane around the brain and the spinal cord and acute flaccid paralysis which is an inflammation of the spinal cord that can cause a sudden onset of weakness in the limbs and/or breathing muscles.

Click here for further explanation of WN meningitis and/or encephalitis. Click here for further explanation of acute flaccid paralysis

Nonneuroinvasive disease cases refers to typically less severe cases that show no evidence of neuroinvasion—primarily West Nile fever. WN fever is considered a notifiable disease, however the number of cases reported (as with all diseases) may be limited by whether persons affected seek care, whether laboratory diagnosis is ordered and the extent to which cases are reported to health authorities by the diagnosing physician.

See the case definition (2004) for <u>Neuroinvasive and NonNeuroinvasive Domestic Arboviral Diseases</u>.

Presumptive viremic donors (PVDs) are people who had no symptoms at the time of donating blood (people with symptoms are deferred from donating) through a blood collection agency, but whose blood tested positive in preliminary tests when screened for the presence of West Nile virus. Some PVDs do go on to develop symptoms after donation, at which point they would be included in the count of human disease cases by their state.

Total Human Cases Reported to CDC: These numbers reflect both mild and severe confirmed and probable human disease cases occurring between January 1, 2010 to December 31, 2010 as reported through December 28, 2010 to ArboNET by state and local health departments. ArboNET is the national, electronic surveillance system established by CDC to assist states in tracking West Nile virus and other mosquito-borne viruses. Information regarding 2010 virus/disease activity is posted when such cases are reported to CDC.

Of the 981 WNV cases, 601 (61%) were reported as a neuroinvasive disease cases, and 380 (39%) as nonneuroinvasive disease cases. One hundred and seventeen presumptive viremic donors have been reported at this time. Please refer to state health department web sites for further details regarding state case totals.

Note: The high proportion of neuroinvasive disease cases among reported cases of West Nile virus disease reflects surveillance reporting bias. Serious cases are more likely to be reported than mild cases. Also, the surveillance system is not designed to detect asymptomatic infections. Data from population-based surveys indicate that among all people who become infected with West Nile virus (including people with asymptomatic infections) less than 1% will develop severe neuroinvasive disease. See: Mostashari F, Bunning ML, Kitsutani PT, et al. Epidemic West Nile Encephalitis, New York, 1999: Results of a household-based servey. Lancet 2001;358:261-264.

For Case Information:

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