



West Nile Virus National Surveillance Report

English Edition

August 28, 2011 to September 3, 2011 (Week 35)

Canada

Human:

During the week 35, one new human case of West Nile virus (WNV) was reported to the Public Health Agency of Canada (PHAC). As of week 35, a total of eighteen human clinical cases [Quebec (7), Ontario (11)] and three asymptomatic infections [Quebec (2), Ontario (1)] have been reported to PHAC in Canada. Of the 18 clinical cases, ten (56%) were classified as West Nile virus Neurological Syndrome, five (28%) as West Nile virus Non-Neurological Syndrome, and three (16%) as unclassified. One death associated with WNV has been reported to PHAC.

Mosquito:

A total of 207 mosquito pools positive for WNV have been reported in Canada, including Saskatchewan (3), Ontario (200), and Quebec (4).

Bird:

A total of 105 dead birds have been tested for WNV by the Canadian Cooperative Wildlife Health Centre (CCWHC) in Canada. Of them, twenty-two (22) positives have been reported in three provinces: Quebec (5), Ontario (16) and Saskatchewan (1).

Domestic Animal:

Five positive horses with WNV infection has been reported by the Canadian Food Inspection Agency (CFIA): three in Ontario and two in Quebec.

National WNV surveillance data and maps can be found on the PHAC web site at: <http://www.phac-aspc.gc.ca/wnv-vwn/index.html>

United States

As of September 6, a total of 135 human cases of WNV have been reported to the Centers for Disease Control and Prevention (CDC) in the United States. Of them, 83 (62%) were reported as neuroinvasive disease cases and 50 (37%) as nonneuroinvasive disease cases. Five (5) deaths have been reported. Forty-six (46) WNV presumptive viremic donors have been reported.

Detailed information can be accessed via the CDC web site: <http://www.cdc.gov/ncidod/dvbid/westnile/surv&control.htm>

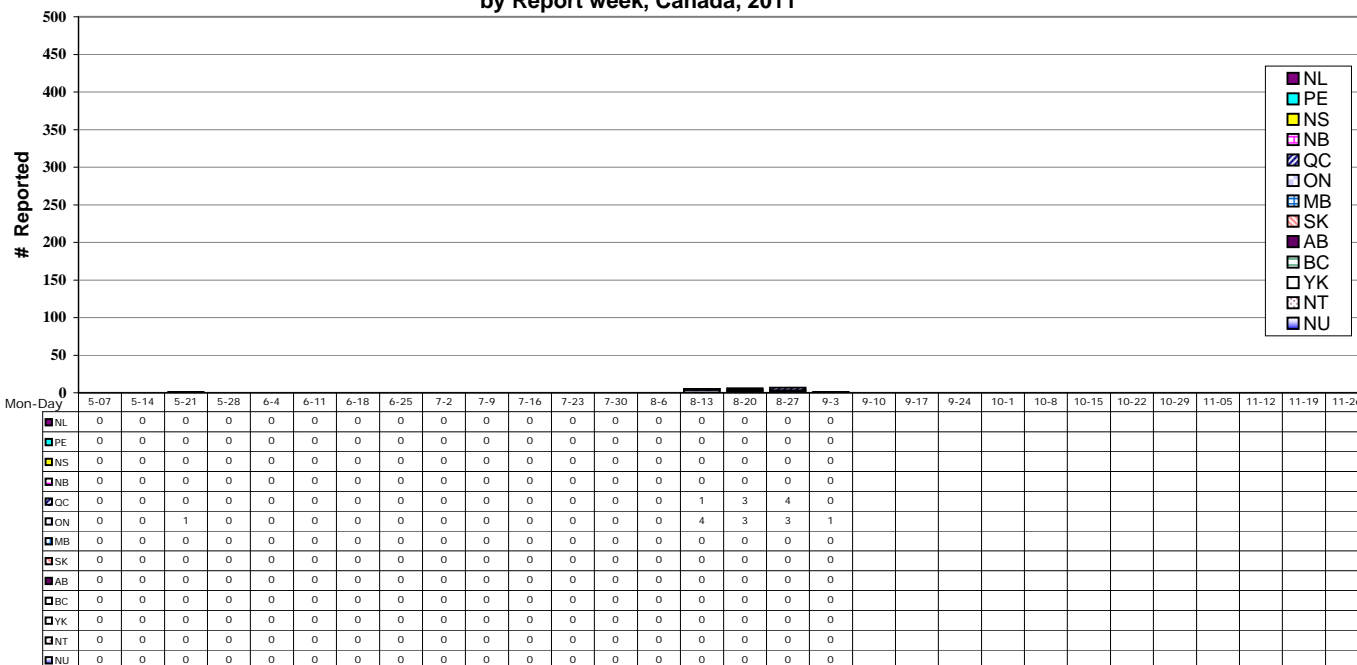
Europe and Neighbouring Countries

As of September 9, a total of 66 confirmed human cases of West Nile fever have been reported in the EU (56 cases in Greece, 3 in Italy and 7 in Romania). In the neighbouring countries, 108 cases have been reported: 96 in the Russian Federation, 2 in Albania and 10 in Israel.

Detailed information can be accessed via the ECDC web site:

http://ecdc.europa.eu/en/activities/diseaseprogrammes/emerging_and_vector_borne_diseases/Pages/West_Niles_fever_Risk_Maps.aspx

WNV Human Clinical Cases and Asymptomatic Infections, by Province/Territory,
by Report week, Canada, 2011



Abbreviations: Newfoundland & Labrador (NL), Prince Edward Island (PE), New Brunswick (NB), Nova Scotia (NS), Quebec (QC), Ontario (ON), Manitoba (MB), Saskatchewan (SK), Alberta (AB), British Columbia (BC), Yukon Territory (YK), Northwest Territories (NT), Nunavut (NU)

**WNV Human Clinical Cases and Asymptomatic Infections for the Current Report Week and Year-to-Date,
by Province/Territory, Canada, 2011**

Provinces Territories	Report Week: August 28, 2011 to September 3, 2011 (Week 35)					
	West Nile Virus Neurological Syndrome (WNNS)	West Nile Virus Non- Neurological Syndrome (WN Non_NS)	Unclassified / Unspecified	Total Clinical Cases ¹	No. of travel related cases ²	West Nile Virus Asymptomatic Infections ³
	No. Cases	No. Cases				
NL	0	0	0	0	0	0
PE	0	0	0	0	0	0
NS	0	0	0	0	0	0
NB	0	0	0	0	0	0
QC	0	0	0	0	0	0
ON	1	0	0	1	0	0
MB	0	0	0	0	0	0
SK	0	0	0	0	0	0
AB	0	0	0	0	0	0
BC	0	0	0	0	0	0
YT	0	0	0	0	0	0
NT	0	0	0	0	0	0
NU	0	0	0	0	0	0
Canada	1	0	0	1	0	0
Provinces Territories	Year-to-Date: May 1, 2011 to September 3, 2011					
	West Nile Virus Neurological Syndrome (WNNS)	West Nile Virus Non- Neurological Syndrome (WN Non_NS)	Unclassified / Unspecified	Total Clinical Cases ¹	No. of travel related cases ²	West Nile Virus Asymptomatic Infections ³
	No. Cases	No. Cases				
NL	0	0	0	0	0	0
PE	0	0	0	0	0	0
NS	0	0	0	0	0	0
NB	0	0	0	0	0	0
QC	4	2	0	6	0	2
ON	6	3	3	12	1	1
MB	0	0	0	0	0	0
SK	0	0	0	0	0	0
AB	0	0	0	0	0	0
BC	0	0	0	0	0	0
YT	0	0	0	0	0	0
NT	0	0	0	0	0	0
NU	0	0	0	0	0	0
Canada	10	5	3	18	1	3

¹ Total Clinical Cases is the sum of both probable and confirmed: WNNS, WN Non-NS and Unclassified / Unspecified

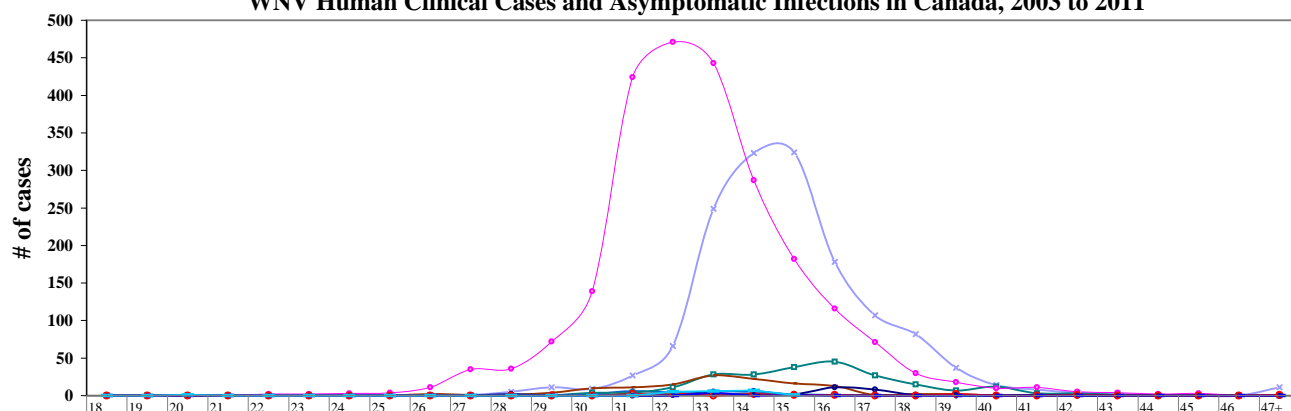
² Likely related to travel outside the province / territory. These cases are included in either the Total Clinical Cases or West Nile Virus Asymptomatic Infection

³ Satisfies West Nile virus diagnostic test criteria IN THE ABSENCE of clinical criteria. This category could include asymptomatic blood donors whose blood is screened using a Nucleic Acid Amplification Test (NAT), by Blood Operators (i.e. Canadian Blood Services or Hema-Quebec) and is subsequently brought to the attention of public health officials. Blood Operators in Canada perform a supplementary WN virus-specific NAT following any positive donor screen test result.

Details on human case definitions can be seen on the PHAC West Nile virus surveillance web site:

http://www.phac-aspc.gc.ca/wnv-vwn/hmncasedef_e.html

WNV Human Clinical Cases and Asymptomatic Infections in Canada, 2003 to 2011



Week Date	18	19	20	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+
5-07																														
5-14																														
5-21																														
5-28																														
6-4																														
6-11																														
6-18																														
6-25																														
7-2																														
7-9																														
7-16																														
7-23																														
7-30																														
8-6																														
8-13																														
8-20																														
8-27																														
9-3																														
9-10																														
9-17																														
9-24																														
10-1																														
10-8																														
10-15																														
10-22																														
10-29																														
11-05																														
11-12																														
11-19																														
11-26																														

Report Week by Episode date ⁴

**Cumulative number of WNV positive mosquito pools tested by week,
by province/territory, in Canada⁵ 2011**

Provinces	Cumulative Total Tested by Report Week																													
Territories	17	18	19	20	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
NL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
PE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
NS ⁶	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
NB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
QC ⁶	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	4											
ON	0	0	0	0	0	0	0	0	0	0	0	1	5	11	43	87	136	200	200											
MB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
SK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	3										
AB ⁶	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
BC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
YK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
NT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
NU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
Canada	0	0	0	0	0	0	0	0	0	0	0	1	5	11	44	90	142	207	207											

⁴ Episode date could include one of the following: symptom onset date, diagnosis date, lab sample date, or reporting date.

⁵ Detailed WNV mosquito surveillance data can be accessed through provincial/territorial web sites.

⁶ These provinces are not conducting mosquito surveillance as part of their WNV surveillance program at provincial level in 2011.

The graph displays the progression of positive cases over time for several seasons. The left y-axis represents the percentage of positive cases (% Positive), ranging from 0 to 100. The right y-axis represents the number of positive cases (# Positive), ranging from 0 to 200. The x-axis shows Report Weeks (15 to 45) and corresponding On-Days (4-17 to 11-13). The legend identifies the following data series:

- 2003 % +ve (Green line with square markers)
- 2007 % +ve (Blue line with square markers)
- 2009 % +ve (Dark blue line with diamond markers)
- 2010 % +ve (Red line with circle markers)
- 2011 # +ve (Cyan line with 'x' markers)
- 2011 % +ve (Purple line with asterisk markers)

The 2003 season shows a significant peak in % Positive around week 39, reaching approximately 60%. The 2011 season shows a sharp peak in # Positive around week 31, reaching approximately 120. The 2011 % +ve series also shows a peak around week 31, reaching approximately 50%.

[illegible][illegible]

⁹ These provinces are not conducting dead bird surveillance as part of their WNV surveillance program in 2009. However, WNV positive dead birds may be identified in these areas through the National Wildlife Disease Surveillance Program of the Canadian Cooperative Wildlife Health Centre (CCWHC).