



West Nile Virus National Surveillance Report

English Edition

September 24, 2011 to October 1, 2011 (Week 39)

Canada

Human:

During the week 39, ending on 01 October 2011, four (4) new human cases of West Nile virus (WNV) were reported to the Public Health Agency of Canada (PHAC). As of week 39, a total of seventy-one human clinical cases [Quebec (32), Ontario (39)] and five asymptomatic infections [Quebec (2), Ontario (3)] have been reported to PHAC in Canada. Of the 71 clinical cases, twenty-eight (39%) were classified as West Nile virus Neurological Syndrome, twenty-three (32%) as West Nile virus Non-Neurological Syndrome, and twenty (28%) as unclassified. Two (2) deaths associated with WNV have been reported to PHAC.

Mosquito:

A total number of 286 mosquito pools positive for WNV have been reported in Canada, including Saskatchewan (4), Ontario (278), 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:

Eighteen (18) positive horses with WNV infection have been reported by the Canadian Food Inspection Agency (CFIA): one (1) in British Columbia, two (2) in Saskatchewan, ten (10) in Ontario and five (5) 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 October 4, a total of 432 human cases of WNV have been reported to the Centers for Disease Control and Prevention (CDC) in the United States. Of them, 289 (67%) were reported as neuroinvasive disease cases and 143 (33%) as nonneuroinvasive disease cases. twenty-three (23) deaths have been reported.

Ninety-five 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>

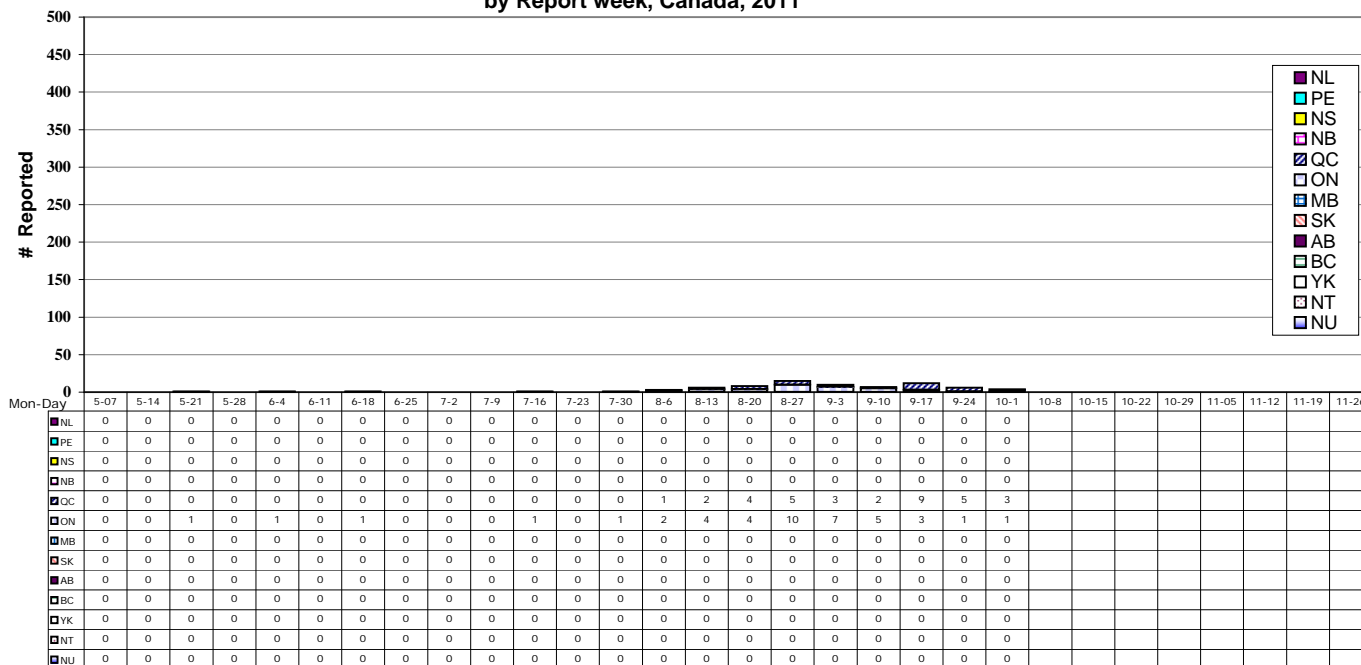
Europe and Neighbouring Countries

As of October 6, a total of 79 confirmed human cases of West Nile fever have been reported in the EU (61 cases in Greece, 8 in Italy and 10 in Romania). In the neighbouring countries, 142 cases have been reported: 116 in the Russian Federation, 2 in Albania, 2 in the former Yugoslav Republic of Macedonia, 3 in Turkey and 19 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.asp

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: September 24, 2011 to October 1, 2011 (Week 39)					
	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	3	3	0	0
ON	0	0	1	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	0	0	4	4	0	0
Provinces Territories	Year-to-Date: May 1, 2011 to October 1, 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	12	7	13	32	0	2
ON	16	16	7	39	1	3
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	28	23	20	71	1	5

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

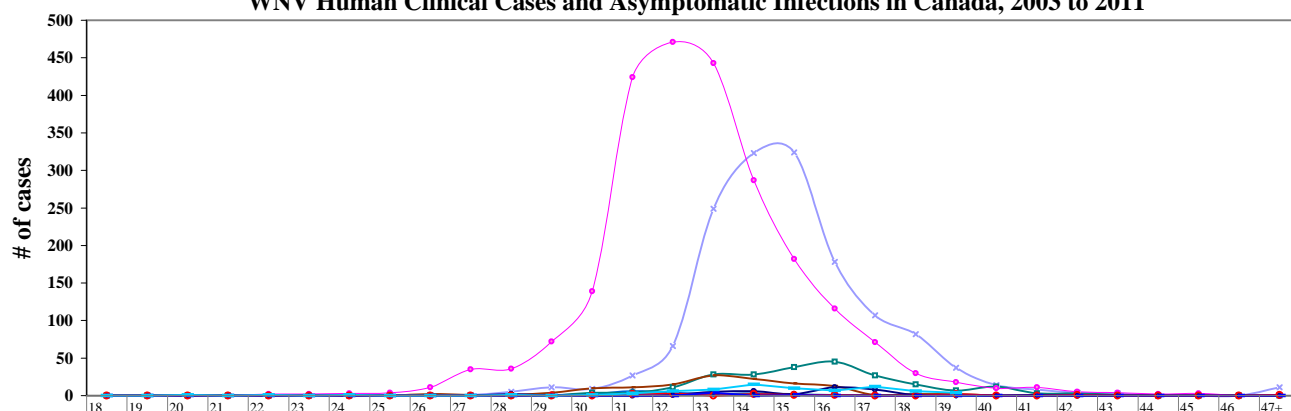
² Likely related to travel outside the province / territory. These cases are included in either the Total Clinical Cases or West Nile Virus Asymptomatic Infection

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																														
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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	0	0	0								
PE	0	0	0	0	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	0	0	0	0							
NB	0	0	0	0	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	4	4	4	4							
ON	0	0	0	0	0	0	0	0	0	0	0	1	5	11	43	87	136	200	200	200	273	278	278							
MB	0	0	0	0	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	1	2	2	3	3	3	3	4	4							
AB ⁶	0	0	0	0	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	0	0	0	0							
YK	0	0	0	0	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	0	0	0	0							
NU	0	0	0	0	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	207	280	286	286							

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 years. The 2003 data (green line with squares) shows a significant peak in percentage positive cases around week 39, reaching nearly 60%. The 2011 data (purple line with asterisks) shows a sharp peak in the number of positive cases around week 31, reaching approximately 110. Other years show much lower and more stable values.

[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).