



West Nile Virus National Surveillance Report

English Edition

August 21, 2011 to August 27, 2011 (Week 34)

Canada

Human:

During the week 34, four new human cases of West Nile virus (WNV) infection were reported to the Public Health Agency of Canada (PHAC). As of week 34, a total of five human clinical cases [Quebec (2), Ontario (3)] and two asymptomatic infections [Quebec (2)] have been reported to PHAC in Canada. Of the five clinical cases, one (20%) was classified as West Nile virus Neurological Syndrome, three (60%) as West Nile virus Non-Neurological Syndrome, and one (20%) as unclassified. No deaths associated with WNV have been reported to PHAC since the start of this season.

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:

Two positive horses with WNV infection has been reported by the Canadian Food Inspection Agency (CFIA): one in Ontario and one 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 August 30, a total of 104 human cases of WNV have been reported to the Centers for Disease Control and Prevention (CDC) in the United States. Of them, 65 (63%) were reported as neuroinvasive disease cases and 39 (37%) as nonneuroinvasive disease cases. Four (4) deaths have been reported. Forty-two (42) 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>

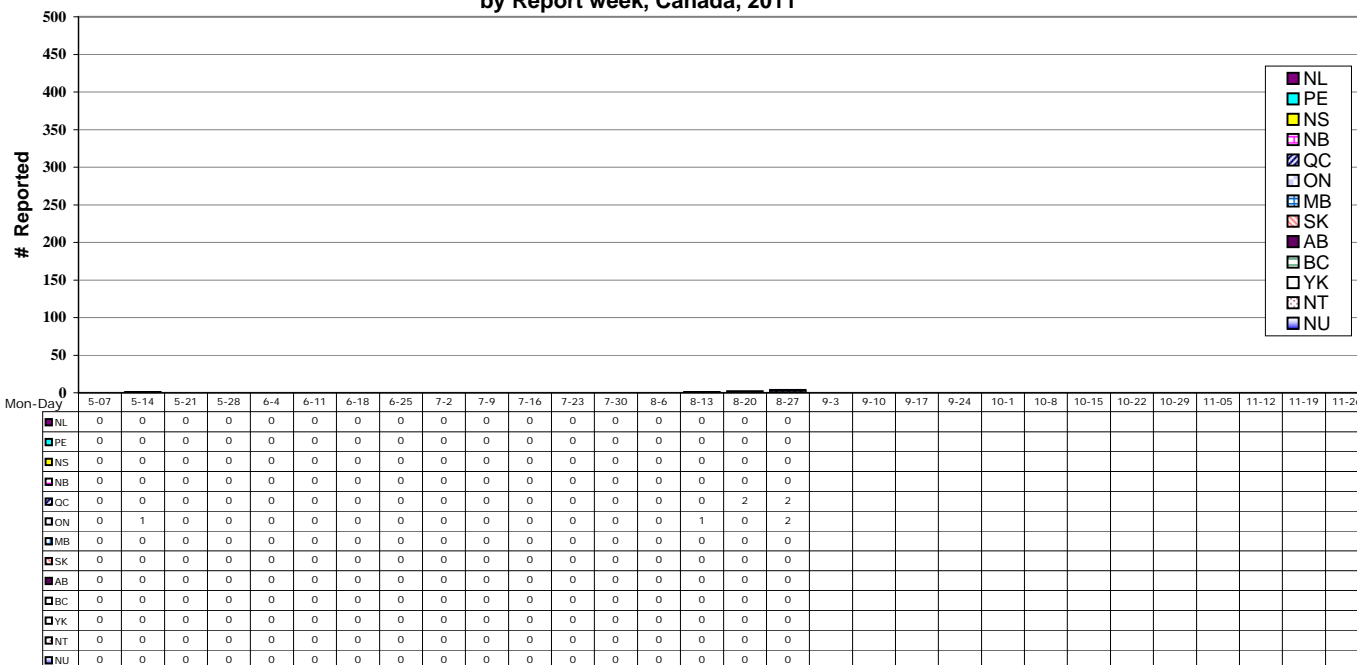
Europe and Neighbouring Countries

As of August 26, a total of 41 confirmed human cases of West Nile fever have been reported in the EU (26 cases in Greece and 2 in Romania). In the neighbouring countries, 60 cases have been reported: 53 in the Russian Federation, 2 in Albania and 5 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 21, 2011 to August 27, 2011 (Week 34) | | | | | |
|--------------------------|---|--|-------------------------------|--------------------------------------|---|---|
| | 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 | 2 |
| ON | 1 | 1 | 0 | 2 | 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 | 1 | 0 | 2 | 0 | 2 |
| Provinces Territories | Year-to-Date: May 1, 2011 to August 27, 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 | 0 | 2 | 0 | 2 | 0 | 2 |
| ON | 1 | 1 | 1 | 3 | 1 | 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 | 3 | 1 | 5 | 1 | 2 |

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

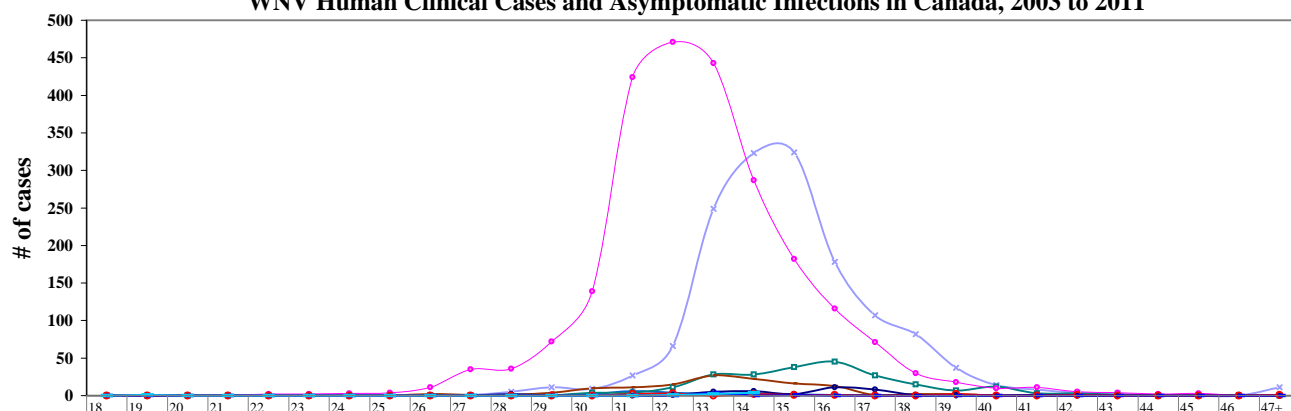
² Likely related to travel outside the province / territory. These cases are included in either the Total Clinical Cases or West Nile Virus Asymptomatic Infection

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**

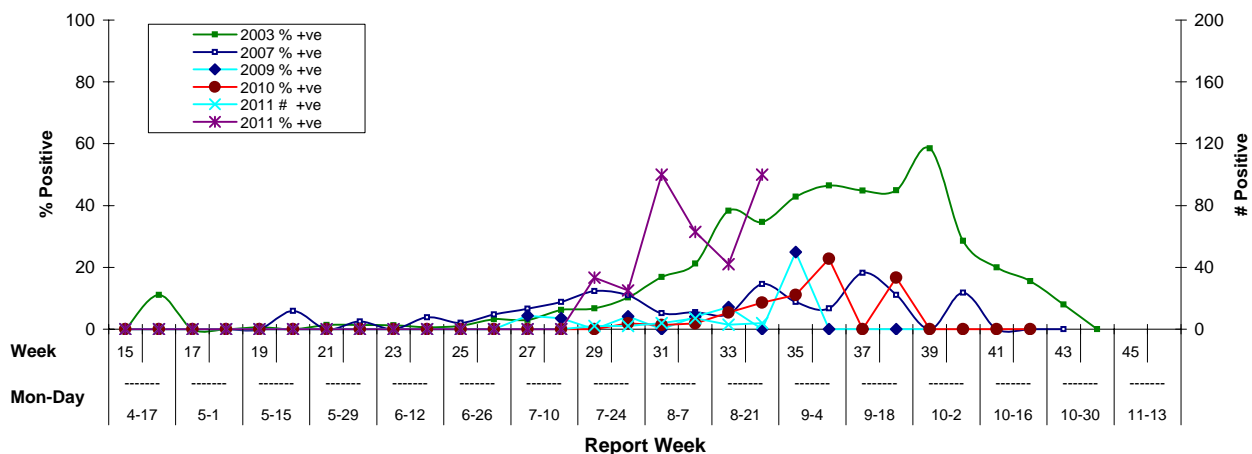
| Provinces | Cumulative Total Tested by Report Week | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| Territories | 17 | 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 | | | | | | | | | | | | |
| PE | 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 | | | | | | | | | | | | |
| NB | 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 | | | | | | | | | | | | |
| ON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 11 | 43 | 87 | 136 | 200 | | | | | | | | | | | | |
| MB | 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 | | | | | | | | | | | |
| AB ⁶ | 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 | | | | | | | | | | | | |
| YK | 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 | | | | | | | | | | | | |
| NU | 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 | | | | | | | | | | | | |

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

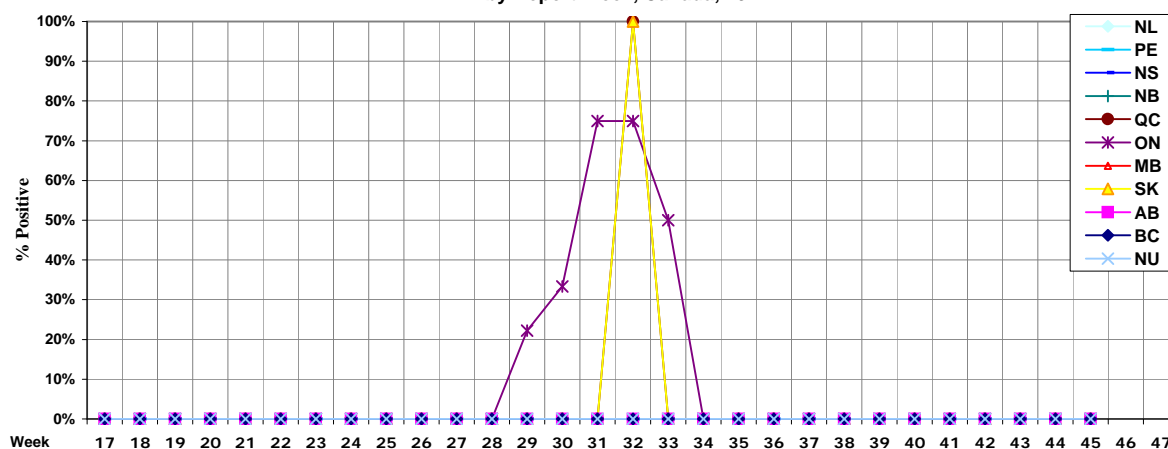
⁵ Detailed WNV mosquito surveillance data can be accessed through provincial/territorial web sites.

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

Percentage of Dead Birds⁷ Tested Positive for WNV, by Report Week, Canada 2003, 2007⁸, 2009⁸, 2010⁸ & 2011⁸, and Number of Dead Birds⁷ Tested Positive for WNV, by Report Week, Canada 2011



**Percentage of Dead Birds Tested Positive for WNV, by Province/Territory,
by Report Week, Canada, 2011**

[illegible]

⁷ Mostly corvids (e.g. crows, blue jays, and ravens).

^a As seen in 2007, not all provinces are conducting dead bird surveillance as part of their WNV surveillance program in 2009. However, WNV positive dead birds may be identified through the National Wildlife Disease Surveillance Program of the Canadian Cooperative Wildlife Health Centre (CCWHC).

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).