

West Nile Virus and Other Mosquito-borne Diseases National Surveillance Report English Edition

July 17 to July 23, 2016 (Week 29)

Canada

Humans:

As of surveillance week 29, ending July 23, 2016, no human cases of West Nile virus (WNV) have been reported to the Public Health Agency of Canada.

Mosquitoes:

As of surveillance week 29, 9 (0.18%) out of 4,946 mosquito pools have tested positive for WNV in Canada: Manitoba (4), Ontario (3), Quebec (1), and Saskatchewan (1).

Birds:

As of July 23, 2016, the Canadian Wildlife Health Cooperative has examined a total of 20 dead birds for WNV: Ontario (18), Quebec (1), and Saskatchewan (1). No positives have been reported.

Domestic Animals:

As of July 23, 2016, no domestic animals, positive for WNV, have been reported by the Canadian Food Inspection Agency.

United States and U.S. territories

As of July 23, 2016, the Centers for Disease Control and Prevention have reported 70 cases of West Nile virus disease in the United States, including North Dakota (1), Michigan (1) and Vermont (1). All cases were diagnosed as neuroinvasive diseases.

Detailed information can be accessed via the CDC web site:

http://wonder.cdc.gov/mmwr/mmwr 2016.asp?mmwr year=2016&mmwr week=29&mmwr table=2N&request=Submit&mmwr location=

Europe and Neighbouring Countries

As of July 23, 2016, no human cases of WNV have been reported in the European Union and seven cases have been reported in the neighbouring countries.

Detailed information can be accessed via the ECDC web site:

http://ecdc.europa.eu/en/healthtopics/west_nile_fever/West-Nile-fever-maps/pages/index.aspx

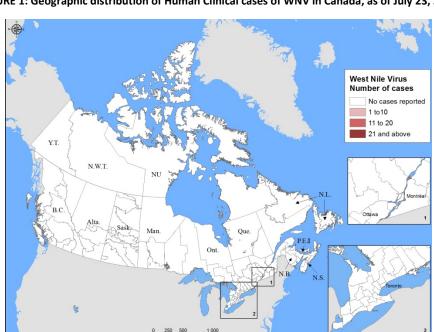


FIGURE 1: Geographic distribution of Human Clinical cases of WNV in Canada, as of July 23, 2016

FIGURE 2: WNV Human Clinical cases and Asymptomatic Infections, by Province/ Territory and by Report week, as of July 23, 2016

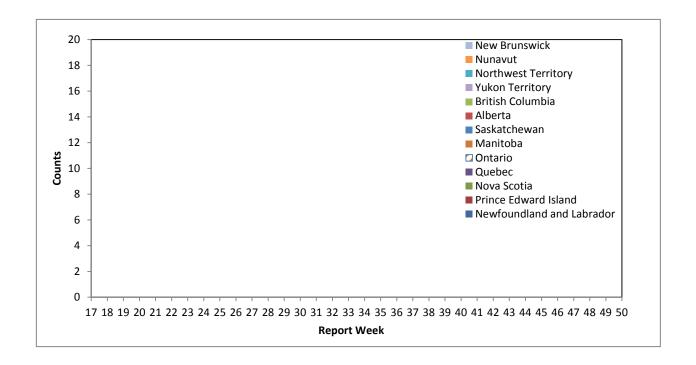
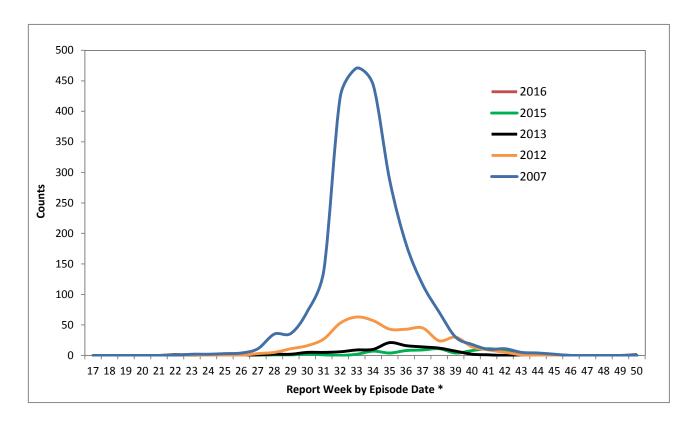


FIGURE 3: WNV Human Clinical cases and Asymptomatic Infections by Report week for selected years, in Canada



^{*}West Nile virus clinical cases and asymptomatic infections are grouped by report week, based on episode date. Episode date could include one of the following: onset date, diagnosis date, lab sample date or reporting date.

TABLE 1: West Nile Virus Human Clinical cases and Asymptomatic Infections by Province/Territory for the current report week and year to date, 2016 season

	Week 29: July 17 to July 23, 2016											
	West Nile virus neurological syndrome	West Nile virus non-neurological syndrome	Unclassified/ unspecified	Total clinical cases ¹	Number of travel-related cases ²	West Nile virus asymptomatic infection ³						
Newfoundland and Labrador	0	0	0	0	0	0						
Prince Edward Island	0	0	0	0	0							
Nova Scotia	0	0	0	0	0	0						
New Brunswick	0	0 0		0	0	0						
Quebec	0	0	0	0	0	0						
Ontario	0	0	0	0	0	0						
Manitoba	0	0	0	0	0	0						
Saskatchewan	0	0	0	0	0	0						
Alberta	0	0	0	0	0	0						
British Columbia	0	0	0	0	0	0						
Yukon Territory	0	0	0	0	0	0						
Northwest Territory	0	0	0	0	0	0						
Nunavut	0	0	0	0	0	0						
Total	0	0	0	0	0	0						

	Year to date: January 1 to July 23 , 2016												
	West Nile virus neurological syndrome	West Nile virus non-neurological syndrome	Unclassified/ unspecified	Total clinical cases ¹	Number of travel-related cases ²	West Nile virus asymptomatic infection ³							
Newfoundland and Labrador	0	0	0	0	0	0							
Prince Edward Island	0	0	0	0	0	0							
Nova Scotia	0	0	0	0	0	0							
New Brunswick	0	0	0	0	0	0							
Quebec	0	0	0	0	0	0							
Ontario	0	0	0	0	0	0							
Manitoba	0	0	0	0	0	0							
Saskatchewan	0	0	0	0	0	0							
Alberta	0	0	0	0	0	0							
British Columbia	0	0	0	0	0	0							
Yukon Territory	0	0	0	0	0	0							
Northwest Territory	0	0	0	0	0	0							
Nunavut	0	0	0	0	0	0							
Total	0	0	0	0	0	0							

Total clinical cases is the sum of both probable and confirmed: West Nile virus neurological and non-neurological syndromes, along with any unclassified or unspecified cases.

² Likely related to travel outside the Province/Territory. These cases are included in either the total clinical cases or West Nile virus asymptomatic infections.

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, 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 West Nile virus specific nucleic acid amplification test following any positive donor screen test result.

TABLE 2: Number of mosquito pools tested and number of positive mosquito pools by Province/Territory, 2016 season

	Year to date: January 1 to July 23, 2016 [≈]									
Province	Number of positive mosquito	Number of mosquito pools	Percentage of positive							
	pools	tested	mosquito pools (%)							
Quebec	1	192	0.52							
Ontario	3	4201	0.07							
Manitoba	4	427	0.94							
Saskatchewan	1	126	0.79							
Total	9	4946	0.18							

 $^{^{\}mathbf{n}}$ In 2016, mosquito surveillance is conducted by the following provinces only: Quebec, Ontario, Manitoba and Saskatchewan

TABLE 3: Number of WNV positive mosquito pools/ Total number of WNV mosquito pools tested by Report week and by Province/ Territory, 2016 season ‡

Province / Territory 17		Report week of 2016																				
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Newfoundland and Labrador	0	0	0	0	0	0	0	0	0	0	0	0	0									
Prince Edward Island	0	0	0	0	0	0	0	0	0	0	0	0	0									
New Brunswick	0	0	0	0	0	0	0	0	0	0	0	0	0									
Nova Scotia	0	0	0	0	0	0	0	0	0	0	0	0	0									
Quebec	0	0	0	0	0	0	0	0	0	0	1/60	0/67	0/65									
Ontario	0	0/6	0/5	0/12	0/49	0/90	0/190	0/460	0/542	0/562	0/802	1/795	2/688									
Manitoba	0	0	0	0	0/4	0/8	0/3	0/17	0/56	0/58	0/69	0/100	4/112									
Saskatchewan	0	0	0	0	0	0	0/1	0/9	0/8	0/14	1/26	0/37	0/31									
Alberta	0	0	0	0	0	0	0	0	0	0	0	0	0									
British Columbia	0	0	0	0	0	0	0	0	0	0	0	0	0									
Yukon Territory	0	0	0	0	0	0	0	0	0	0	0	0	0									
Northwest Territory	0	0	0	0	0	0	0	0	0	0	0	0	0									
Nunavut	0	0	0	0	0	0	0	0	0	0	0	0	0									
Total	0	0/6	0/5	0/12	0/53	0/98	0/194	0/486	0/606	0/634	2/957	1/999	6/896									

[†]Detailed West Nile virus mosquito surveillance data can be accessed through Provincial/ Territorial websites.

FIGURE 4: Reported number of dead birds tested positive for WNV by Province/ Territory and by Report week, 2016 season in Canada

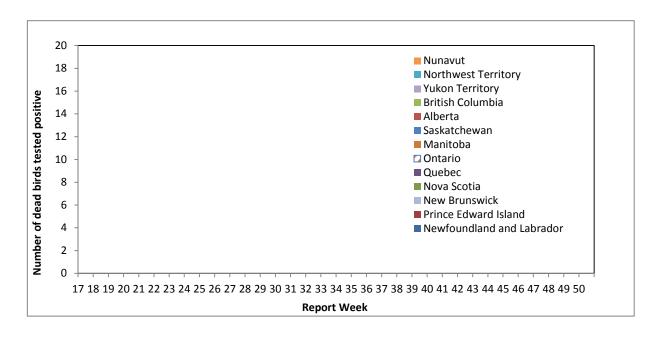
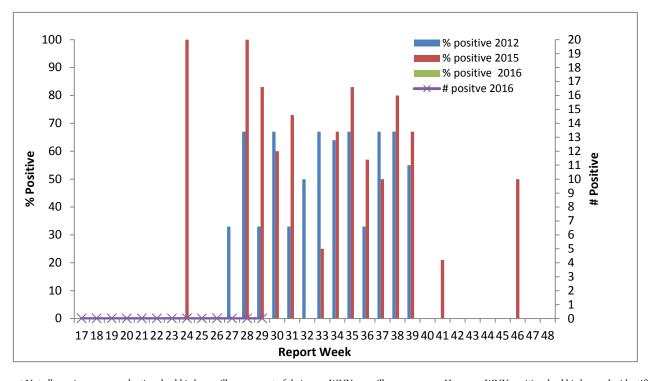


FIGURE 5: Percentage of dead birds tested positive for WNV by Report week in 2012, 2015 and 2016, and number of dead birds tested positive for WNV, by Report week, 2016, in Canada ¶



[¶] Not all provinces are conducting dead bird surveillance as part of their own WNV surveillance program. However, WNV positive dead birds may be identified through the National Wildlife Disease Surveillance Program of the Canadian Wildlife Health Cooperative (CWHC)