



West Nile virus

National Surveillance Report

October 14 to October 20, 2012

(Report Week 42)

Canada

Humans:

During surveillance week 42, ending on October 20, 2012, three additional clinical cases caused by West Nile virus were reported to the Public Health Agency of Canada (PHAC). As of week 42, there have been a total of 424 clinical cases and 17 asymptomatic infections reported to PHAC. Of the 424 clinical cases, 134 (32 %) were classified as Neurological Syndrome, 229 (54 %) Non-Neurological Syndrome, and 61 (14%) Unclassified. Up to week 42, six deaths associated with WNV have been reported.

Mosquitoes:

To date, a total of 605 positive mosquito pools have been reported in Canada: 464 in Ontario [Central East (235), Central West (97), Eastern (61), North East (2), South West (62), First Nations Community (7)]; 116 in Manitoba [Interlake-Eastern (13), Southern (48), Western (35), Winnipeg (20)]; 6 in Saskatchewan [Sun Country (3), and Saskatoon (1), Five Hills (1), Cypress (1)] and 19 in Quebec [Laval (3), Bois-des-Filion (3), Gatineau (1), Sainte-Anne-des-Plaines (3), Terrebonne (5), Boisbriand (1), Rosemere (1), and Trois-Rivieres (2)].

Note: Quebec public health authorities have not done mosquito surveillance since 2006, however, entomological surveillance is conducted in some municipalities of the province. As of week 40, Ontario has stopped its mosquito trapping surveillance initiative.

Dead Birds:

A total of 118 dead birds have been tested for West Nile virus by the Canadian Cooperative Wildlife Health Centre (CCWHC) in Canada. Of them, 64 were positive for West Nile virus, [33/54 in Ontario, 30/46 in Quebec and 1/11 in Saskatchewan].

Domestic Animals:

As of week 42, the Canadian Food Inspection Agency (CFIA) has reported 37 horses testing positive for West Nile virus: [Alberta (5); Manitoba (6); Ontario (6); Quebec (13); and Saskatchewan (7)].

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

United States

As of October 23, 2012 there have been 4,725 human cases of West Nile virus infection reported to the Centers for Disease Control and Prevention in the United States, of which 2,413 (51%) were neuroinvasive and 2,312 (49%) were non-neuroinvasive. 219 deaths have been reported. In addition, 562 West Nile virus presumptive viremic blood donors have been reported.

Source: http://www.cdc.gov/ncidod/dvbid/westnile/surv&controlCaseCount12_detailed.htm

Europe and Neighbouring countries

As of October 25, 2012 there have been 775 confirmed human cases of West Nile virus infection reported in Europe and Neighbouring countries [Greece (161), Hungary (8), Italy (45), Romania (14), Algeria (1), Croatia (5), Yugoslav (6), Israel (46), Kosovo (4), Palestine (2), Russian Federation (397), Serbia (64), and Tunisia (22)].

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

Table 2: West Nile virus human clinical cases and asymptomatic infections by Province / Territory for the current Report Week and year to date, 2012 Season

October 14 to October 20, 2012 (Week 42)						
	West Nile virus Neurological syndrome (# cases)	West Nile virus Non-Neurological syndrome (# cases)	Unclassified / Unspecified	Total clinical cases ¹	# of travel related cases ²	West Nile virus asymptomatic infections ³
Newfoundland	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	3	3	0	0
Ontario	0	0	0	0	0	0
Manitoba	0	0	0	0	0	0
Saskatchewan ⁴	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	3	0	0

Year to date: From January 1 to October 20, 2012						
Newfoundland	0	0	0	0	0	0
Prince Edward Island	1	0	0	1	1	0
Nova Scotia	0	0	0	0	0	0
New Brunswick	0	0	0	0	0	0
Quebec	66	34	24	124	2	7
Ontario	57	153	32	242	0	10
Manitoba	6	28	5	39	2	0
Saskatchewan ⁴	0	9	0	9	2	0
Alberta	4	5	0	9	2	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	134	229	61	424	9	17

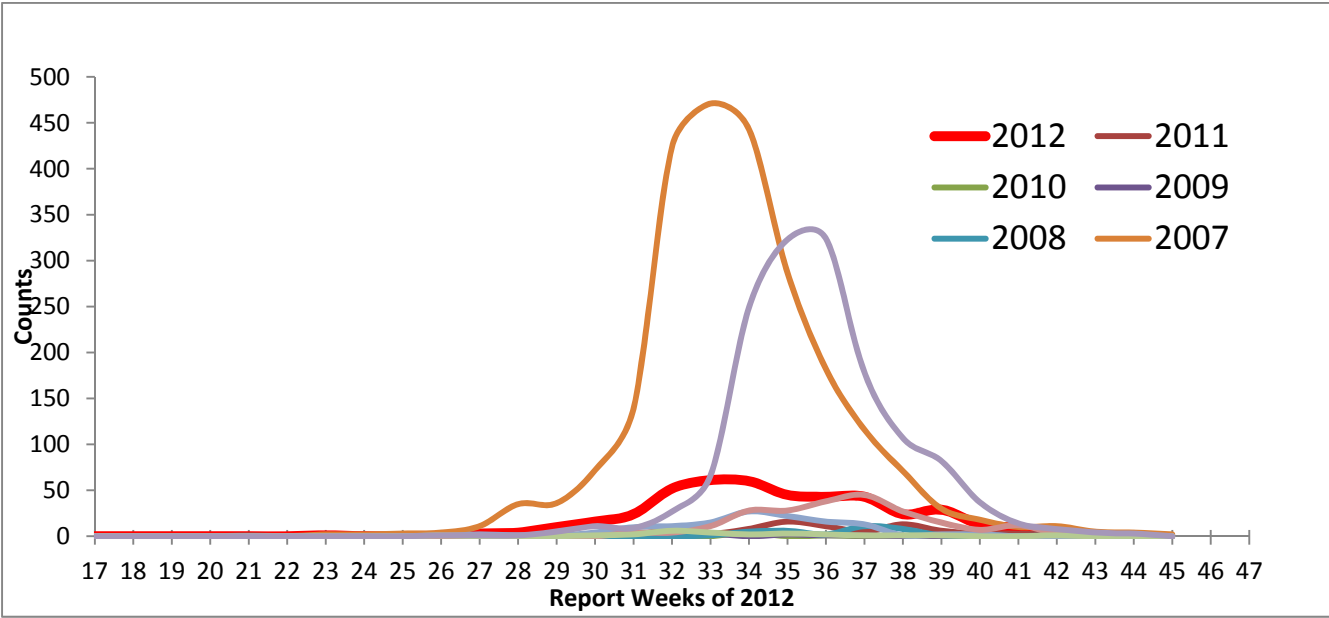
¹ Total clinical cases is the sum of both probable and confirmed: West Nile virus neurological and non-neurological syndromes, along with any unclassified or unspecified cases.

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.

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 West Nile virus specific NAT following any positive donor screen test result.

⁴ Saskatchewan has ended WNV provincial surveillance program as of September 15th 2012. The final human case count in 2012 will be reported to PHAC by end of the season.

WNV clinical cases and asymptomatic infections by report week, 2012 season compared to previous seasons



Link Figure 2 to the following table 3 below

	Report Weeks of 2012																												
	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
2012	0	0	0	0	0	0	1	0	0	0	3	4	10	16	24	52	61	60	45	43	43	24	29	13	9	3			
2011	0	0	0	0	1	0	1	0	2	0	0	0	0	0	1	8	3	8	16	11	5	13	6	3	3	2			
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	2	1	1	0	0	2	0	0	1	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	5	6	2	11	8	1	1	0	1	0	0	0
2007	0	0	0	0	0	0	2	2	3	4	11	35	36	72	139	424	471	443	287	182	116	71	30	18	10	11	5	4	2
2006	0	0	0	0	0	0	0	0	0	0	2	1	1	4	10	11	15	27	22	16	13	1	2	2	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	11	28	28	38	45	27	15	7	12	3	3	1	0
2004	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	6	4	2	3	2	1	1	1	0	0	1	0	0	0
2003	0	0	0	0	0	0	0	0	1	1	1	5	11	9	27	66	249	323	324	178	107	82	37	14	8	4	3	0	0

Table 4

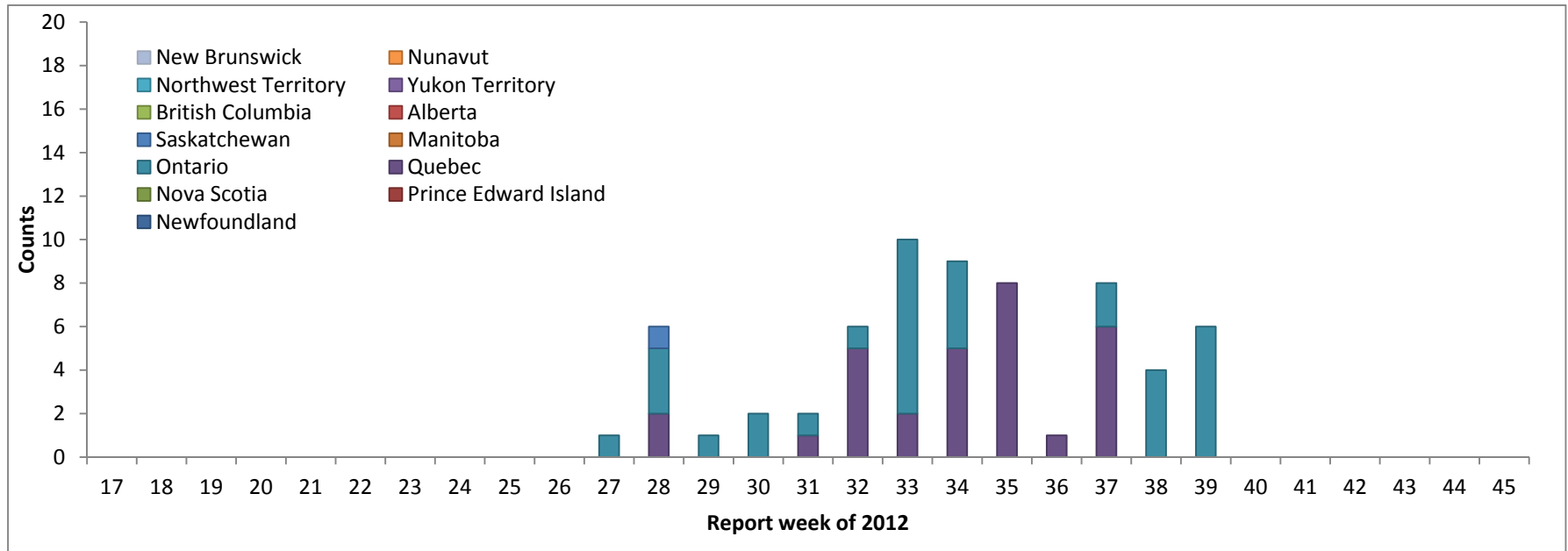
Reported cumulative number of West Nile virus positive mosquito pools by Province/Territory and by report week, 2012 season*

	Report weeks of 2012																														
	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		
Newfoundland	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	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	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Quebec**	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	19	19	19	19	19	19	19	19	19	19	19	19				
Ontario	0	0	0	0	0	0	0	2	6	10	19	30	89	162	249	312	375	409	434	454	462	462	464	464	464	464	464				
Manitoba	0	0	0	0	0	0	0	0	0	0	0	2	20	48	62	98	108	111	116	116	116	116	116	116	116	116	116	116			
Saskatchewan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	6	6	6	6	6	6	6	6	6	6				
Alberta**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	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	0	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	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

* Detailed West Nile virus mosquito surveillance data can be accessed through Provincial/ territorial websites

** These Provinces/Territories are not conducting mosquito surveillance as part of their West Nile virus surveillance program at provincial level in 2012

Reported number of dead birds testing positive for WNV by Province / Territory and by report week, 2012 season



Link figure 3 to the following table 5 below

	Report Weeks of 2012																												
	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
Newfoundland	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	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	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	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	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	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	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0			
Quebec	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	2/4	0/0	0/1	1/3	5/5	2/3	5/6	8/12	1/1	6/10	0/1	0/0	0/0	0/0	0/0			
Ontario	0/0	0/0	0/0	0/0	0/1	0/1	0/0	0/3	0/1	0/0	1/1	3/3	1/2	2/2	1/2	1/6	8/10	4/5	0/0	0/0	2/2	4/4	6/11	0/0	0/0	0/0			
Manitoba	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0			
Saskatchewan	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	1/2	0/1	0/0	0/1	0/1	0/0	0/2	0/0	0/2	0/0	0/1	0/0	0/0	0/0	0/0			
Alberta	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	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	0/1	0/0	0/1	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	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	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	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	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/1	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0			

