



West Nile virus

National Surveillance Report

English Edition
August 5 to August 11, 2012
(Report Week 32)

Canada

Humans:

During surveillance week 32, ending on August 11, 2012, five (5) clinical cases and one (1) asymptomatic infection with West Nile virus in Ontario have been reported to Public Health Agency of Canada (PHAC). As of week 32, a total of 29 clinical cases have been reported to PHAC. Of them, 8 (28%) were classified as West Nile virus Neurological Syndrome, 17 (58%) as West Nile virus Non-Neurological Syndrome and 4 (14%) as unclassified. To date, five asymptomatic infections have been reported [Quebec (2), Ontario (2), and Saskatchewan (1)] to PHAC.

Mosquitoes:

To date a total of 322 positive mosquito pools have been reported in Canada: 249 in Ontario [Central East (139), Central West (53), Eastern (20), South West (35), First Nations Community (2)]; 62 in Manitoba [Interlake-Eastern (9), Southern (14), Western (28), Winnipeg (11)]; three (3) in Saskatchewan [Sun Country (1), Five Hills (1), and Saskatoon Heath Region (1)] and eight (8) in Quebec [Laval (3), Bois-des-Filion (1), Gatineau (1), Sainte-Anne-des-Plaines (2), and Terrebonne (1)].

Dead Birds:

A total of 23 dead birds have been tested for West Nile virus by the Canadian Cooperative Wildlife Health Centre (CCWHC) in Canada. Of them, 11 were positive for West Nile virus, 9/16 in Ontario and 2/3 in Quebec.

Domestic Animals:

Two (2) positive horses with WNV infection have been reported by the Canadian Food Inspection Agency (CFIA): one in Saskatchewan and another in Quebec.

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 August 14, 2012 there have been 693 human cases of West Nile virus infections reported to the Centers for Disease Control and Prevention in the United States, of which 406 (59%) were neuroinvasive and 287 (41%) were non-neuroinvasive. 26 deaths reported. 191 West Nile virus presumptive viremic blood donors have also been reported.

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

Europe and Neighbouring countries

As of August 9, 2012 there have been 124 confirmed human cases of West Nile virus infections reported in Europe and Neighbouring countries [Greece (44), Italy (1), Israel (4), Occupied Palestinian territory (1), and Russian Federation (74)].

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

Stacked bar chart showing the number of reports by week of 2012 for various Canadian provinces and territories. The x-axis represents Report Weeks of 2012 (17 to 45), and the y-axis represents Counts (0 to 20). The legend includes: New Brunswick, British Columbia, Ontario, Newfoundland, Nunavut, Alberta, Quebec, Northwest Territory, Yukon Territory, Saskatchewan, Manitoba, Nova Scotia, and Prince Edward Island.

Report Week	Ontario	Quebec	Saskatchewan	Manitoba	Yukon Territory	Other
23	1	0	0	0	0	0
28	1	0	0	0	0	0
29	7	1	0	0	0	0
30	7	1	0	0	0	0
31	6	4	1	0	0	0
32	6	0	0	0	0	0

[illegible]

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

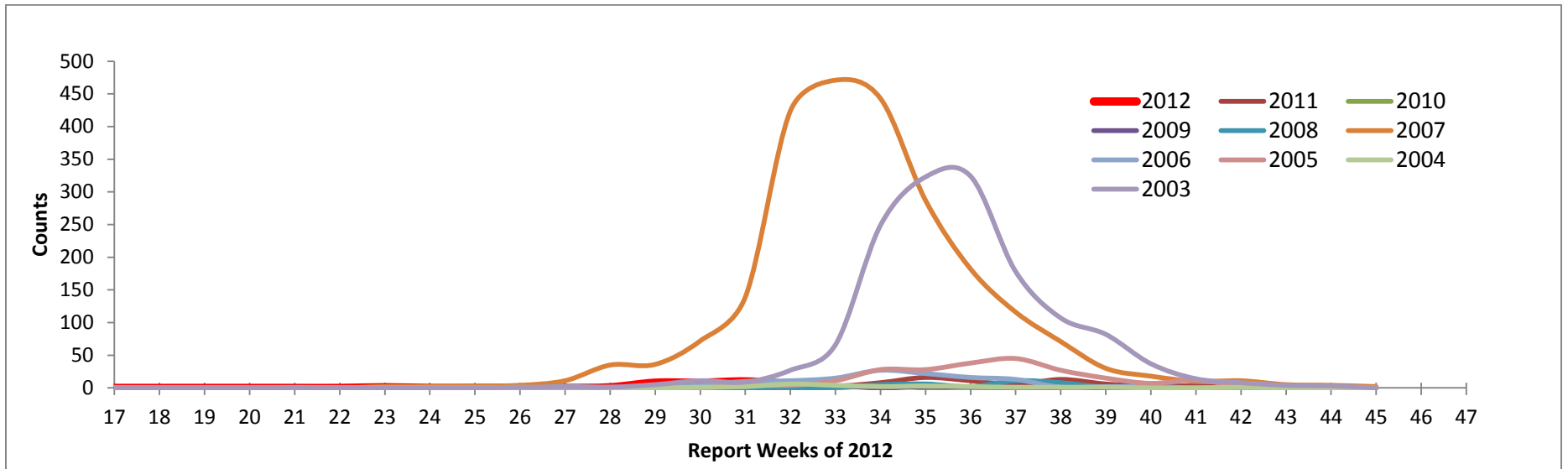
		August 5 to August 11, 2012 (Week 32)					
		West Nile virus Neurological syndrome	West Nile virus Non-Neurological syndrome	Unclassified / Unspecified	Total clinical cases ¹	# of travel related cases ²	West Nile virus asymptomatic infections ³
		# cases	# cases				
Provinces and territories	Newfoundland	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	0	0	0	0
	Ontario	2	2	1	5	0	1
	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		2	2	1	5	0	1
		Year to date: From January 1 to August 11 2012					
Provinces and territories	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	0	0	0	2
	Ontario	8	14	2	24	0	2
	Manitoba	0	3	2	5	0	0
	Saskatchewan	0	0	0	0	0	1
	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		8	17	4	29	0	5

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.

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	0	1	8	8	10	6													
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	0	0	0
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	0	1	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	0	1	1	1	5	11	9	27	66	249	323	324	178	##	82	37	14	8	4	3	0

Table 4

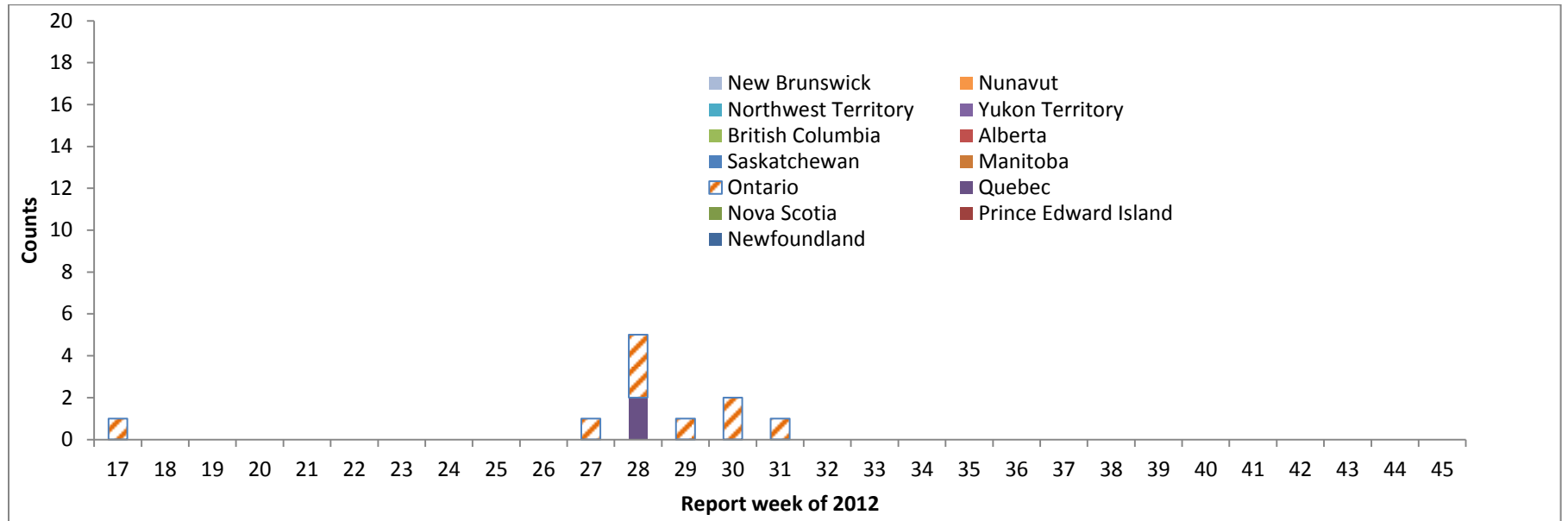
Reported cumulative number of West Nile virus positive mosquito pools by Province/Territory and by report week, 2012 season*

		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															
	Prince Edward Island	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															
	New Brunswick**	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	8															
	Ontario	0	0	0	0	0	0	0	0	2	6	10	19	30	89	162	249															
	Manitoba	0	0	0	0	0	0	0	0	0	0	0	2	20	48	62																
	Saskatchewan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3															
	Alberta**	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															
	Yukon Territory	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															
	Nunavut	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

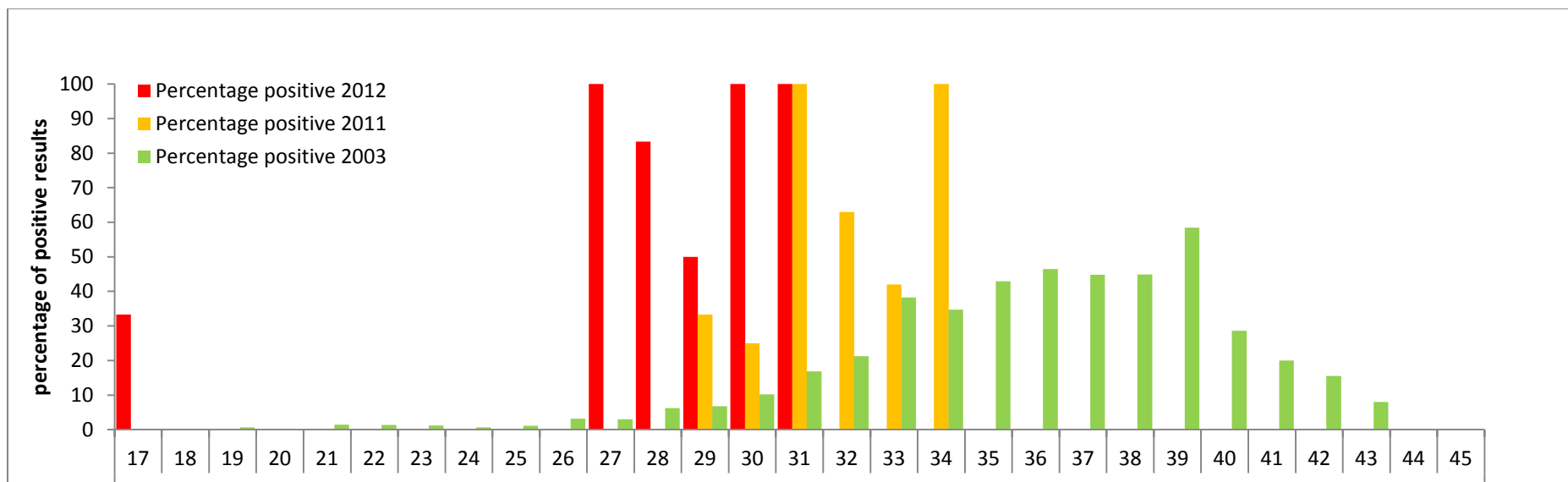
Reported number of dead birds testing positive for WNV by Province / Territory and by report week, 2012 season



[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													
	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													
	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	0/0	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													
	Quebec	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	2/3	0/0	0/0	0/0	0/0													
	Ontario	1/1	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	1/1	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													
	Saskatchewan	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													
	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													
	British Columbia	0/2	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													
	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													
	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													
	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	0/0	0/0	0/0													

Percentage of dead birds testing positive for WNV in the 2012 season by report week as compared to the 2003 and 2011 seasons



[Link figure 4 to the following table 6 below](#)

		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			
Numbers positive	2012	1	0	0	0	0	0	0	0	0	0	1	5	1	2	1	0																
Numbers tested		3	0	0	0	1	1	0	3	1	0	1	6	2	2	1	0																
Percentage positive		33	0	0	0	0	0	0	0	0	0	100	83	50	100	100	0																
Percentage positive	2011	0	0	0	0	0	0	0	0	0	0	0	33	25	100	63	42	100	0	0	0	0	0	0	0	0	0	0	0	0			
Percentage positive	2003	0	0	1	0	1	1	1	1	1	3	3	6	7	10	17	21	38	35	43	46	45	45	58	29	20	15	8	0	0			