



West Nile virus

National Surveillance Report

English Edition
August 11 to August 17, 2013
(Report Week 33)

Canada

Humans:

During surveillance week 33, the Public Health Agency of Canada (Agency) was informed of six human clinical cases of West Nile virus (WNv). As of week 33, the Agency has been informed of eleven (11) clinical cases of WNv, ten (10) cases reported from Ontario, and one (1) case reported from Manitoba. In Ontario, there have been 7 probable and 3 confirmed cases: Toronto Region (2); South Western Region (3); and, Central West Region (5). In Manitoba, there has been 1 probable case: Winnipeg (1). Of the 11 clinical cases, 2 (18%) were diagnosed as neuroinvasive, 5 (46%) as non-neuroinvasive, and 4 (36%) are currently classified as unspecified WNv illness.

Mosquitoes:

To date (Week 33), a total of 7916 mosquito pools have been tested for WNv [Ontario (5937); Quebec (1131); British Columbia (220); Saskatchewan (106); and, Manitoba (522)]. Of these, 158 WNv positive mosquito pools have been reported: eighty-nine (89) in Ontario [Central East Region: Durham (7); Haliburton-Kawartha-Pine Ridge (1); Peel (23); Simcoe-Muskoka District (1); Toronto (8); York (7); Central West Region: Halton (7); Hamilton (5); Haldimand-Norfolk (1); Niagara (1); Waterloo (2); Wellington-Dufferin-Guelph (2); Eastern Region: Eastern Ontario (1); Hastings and Prince Edward (6); Kingston-Frontenac and Lennox & Addington (1); Leeds-Grenville and Lanark (1); Ottawa (5); South West Region: Chatham-Kent (1); Middlesex-London (1); Perth (2); Wellington-Essex (5); Six Nation Community Region: Six Nations of Grand River (1)]; twenty-three (23) in Quebec [(Blaineville (1); Boucherville (1); Brossard (1); Dorval (1); Dollards-des-Ormeaux (1); Montreal (12); Laval (3); Longueuil (2); and, Pointe-Claire (1)]; one (1) in British Columbia [Okanagan (1)]; sixteen (16) in Manitoba [(Prairie Mountain (2); Winnipeg (4); and, Southern (10)]; and twenty-nine (29) in Saskatchewan [(Mixed-Grass Prairie Region (28); Moist Mixed-Grass Prairie Region (1)].

Dead Birds:

A total of 373 dead birds have been tested for WNv by the Canadian Cooperative Wildlife Health Centre (CCWHC) and the British Columbia Centre for Disease Control (BCCDC). Of these, 32 positives were reported: 18 in Ontario (South Western Region; Central West Region; Toronto Region; and, Ottawa); six (6) in Quebec [Montreal (2); Sainte-Marguerite-du-lac-Masson (1); Varenne (1); Gatineau (1); and, Estrie Region (1)]; one (1) in Manitoba (Brandon); seven (7) in Saskatchewan (Regina and Saskatoon).

Domestic Animals:

Six (6) animals positive for WNv have been reported by the Canadian Food Inspection Agency and the province of Quebec: one (1) heifer cow was reported in Quebec (Montérégie); two (2) in Ontario, an alpaca (Halton Region) and a horse (Windsor-Essex County); two (2) horses in Saskatchewan (Mixed-Grass Prairie Region); one (1) horse in Manitoba (northwest of Winnipeg); and, one (1) horse in Alberta (Lethbridge).

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 week 33, 296 human cases of WNv have been reported by the Centers for Disease Control and Prevention (CDC) in the U.S.A. Of these, 145 (49%) were diagnosed as neuroinvasive disease, and 151 (51%) non-neuroinvasive. Eleven (11) fatal cases were reported. Fifty-six (56) cases of presumptive viremic blood donors were reported.

http://www.cdc.gov/ncidod/dvbid/westnile/surv&controlCaseCount12 detailed.html

Europe and Neighbouring countries

Since the start of the 2013 WNv season, 149 human cases of WNv have been reported by the European Centre for Disease Prevention and Control (ECDC). Thirty (30) human cases of WNv have been reported in the European Union and the European Economic Area in Austria (1); Italy (1); Hungary (1); Romania (1); and Greece (26). One hundred and nineteen (119) human cases of WNv have been reported in neighbouring countries: the Former Yugoslav Republic of Macedonia one (1); Serbia (39); the Russian Federation (53); and Israel (26).

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

Figure 1

WNv clinical cases and asymptomatic infections, by Province / Territory and by report week, 2013 season

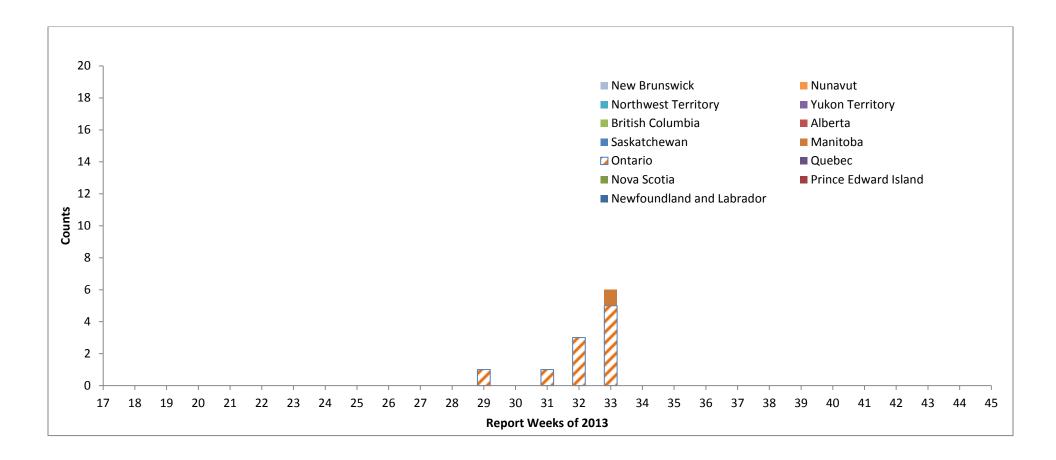


Table 1

													R	eport	Week	s of 20	13												
	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 and Labrador	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												
New Brunswick	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												
Quebec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
Ontario	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	5												
Manitoba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1												
Saskatchewan	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												
British Columbia	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												
Northwest Territory	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												
 Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	6												

Table 2
West Nile virus human clinical cases and asymptomatic infections by Province / Territory for the current Report Week and year to date, 2013
Season

			August 1	1 to August 17,	2013 (Week	33)	
		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 and Labrador	0	0	0	0	0	0
	Prince Edward Island	0	0	0	0	0	0
es	Nova Scotia	0	0	0	0	0	0
tori	New Brunswick	0	0	0	0	0	0
erri	Quebec	0	0	0	0	0	0
d te	Ontario	1	2	2	5	0	0
Provinces and territories	Manitoba	0	0	1	1	0	0
ces	Saskatchewan	0	0	0	0	0	0
š	Alberta	0	0	0	0	0	0
Pro	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	1	2	3	6	0	0
	Newfoundland and		Year to date	From January	1 to August 1	17 2013	
	Labrador	0	0	0	0	0	0
	Prince Edward Island	0	0	0	0	0	0
ies	Nova Scotia	0	0	0	0	0	0
itor	New Brunswick	0	0	0	0	0	0
err	Quebec	0	0	0	0	0	0
ld t	Ontario	2	5	3	10	0	0
sar	Manitoba	0	0	1	1	0	0
Provinces and territories	Saskatchewan	0	0	0	0	0	0
) Vir	Alberta	0	0	0	0	0	0
Prc	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
1	Total	2	5	4	11	0	0

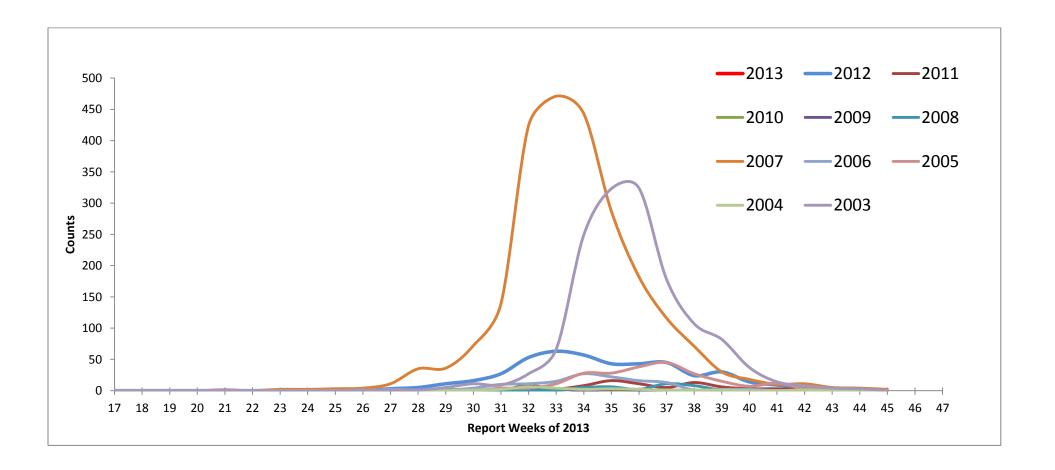
¹ Total clinical cases is the sum of both probable and confirmed: West Nile virus neurological and non-neurological syndromes, along with any unclassified or unspecified cases.

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.

Figure 2

WNv clinical cases and asymptomatic infections by report week, 2013 season compared to previous seasons



Link Figure 2 to the following table 3 below

Table 3

														Rep	ort We	eks of	2013												
	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
2013	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	6												
2012	0	0	0	0	0	0	0	0	0	0	3	5	11	16	27	53	63	57	43	43	45	24	30	14	9	5	1	0	0
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	107	82	37	14	8	4	3	0

Table 4

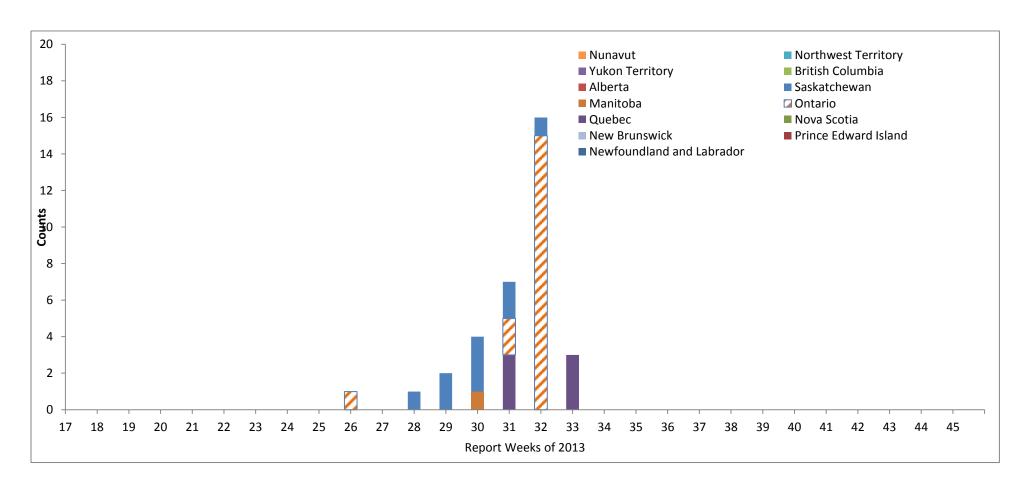
Reported cumulative number of West Nile virus positive mosquito pools by Province/Territory and by report week, 2013 season*

													Re	port \	Veeks	of 20	13												
	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												
Prince Edward Island	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												
Nova Scotia	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	2	3	5	11	23												
Ontario	0	0	0	0	0	0	0	0	0	2	2	4	12	22	41	65	89												
Manitoba	0	0	0	0	0	0	0	0	0	0	0	1	1	7	10	16	16												
Saskatchewan	0	0	0	0	0	0	0	0	0	0	0	1	1	3	3	18	29												
Alberta	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	1	1												
Yukon Territory	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												
Nunavut	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

Figure 3

Reported number of dead birds testing positive for WNv by Province / Territory and by report week, 2013 season



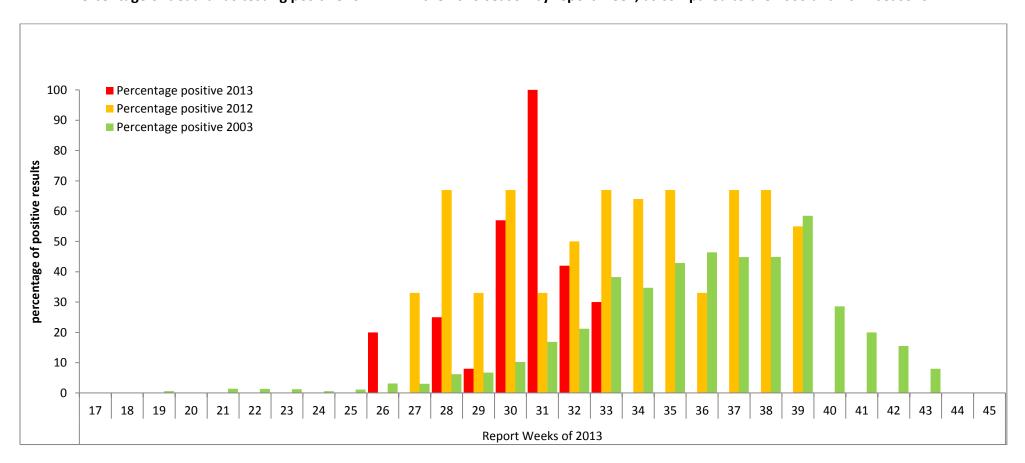
Link figure 3 to the following table 5 below

Table 5

													Re	port \	Neeks	of 20	13												
	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 and Labrador	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												
New Brunswick	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												
Quebec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3												
Ontario	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	15	0												
Manitoba	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0												
Saskatchewan	0	0	0	0	0	0	0	0	0	0	0	1	2	3	2	1	0												
Alberta	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												
Yukon Territory	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												
Nunavut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
Total	0	0	0	0	0	0	0	0	0	1	0	1	2	4	7	16	3												

Percentage of dead birds testing positive for WNv in the 2013 season by report week, as compared to the 2003 and 2012 seasons

Figure 4



Link figure 4 to the following table 7 below

Table 7

														R	eport	Weeks	of 201	13												
		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	2013	0	0	0	0	0	0	0	0	0	1	0	1	2	4	7	16	3												
Numbers tested	2013	0	0	0	0	0	0	0	0	0	5	0	4	25	7	7	38	10												
Percentage positive	2013	0	0	0	0	0	0	0	0	0	20	0	25	8	57	100	42	30												
Percentage positive	2012	0	0	0	0	0	0	0	0	0	0	33	67	33	67	33	50	67	64	67	33	67	67	55	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