



# West Nile virus

## National Surveillance Report

English Edition  
July 21 to July 27, 2013  
(Report Week 30)

### Canada

#### **Humans:**

As of surveillance week 30, ending on July 27, the Public Health Agency of Canada has received one (1) probable West Nile virus (WNV) human case reported from Ontario.

#### **Mosquitoes:**

To date (Week 30), a total of 4261 mosquito pools have been tested for West Nile virus [Ontario (3323), Quebec (186), British Columbia (135), Saskatchewan (95), and Manitoba (522)]. Of them, 31 WNV positive mosquito pools have been reported [twenty-two (22) in Ontario [(Durham (4), Peel (6), Toronto (1), Halton (2), Hamilton (2), Hastings and Prince Edward Counties (1), Leeds—Grenville and Lanark District (1), Niagara (1), Chatham-Kent (1), Middlesex-London (1), Perth (1), Windsor-Essex (1)], three (3) in Quebec [(Montreal (2), Laval (1)], seven (7) in Manitoba [(Prairie Mountain (1), Winnipeg (2), Southern (4)], three (3) in Saskatchewan [(Regina (1), Saskatoon (2)].

#### **Dead Birds:**

A total of 35 dead birds have been tested for West Nile virus by the Canadian Cooperative Wildlife Health Centre (CCWHC) and the British Columbia Centre for Disease Control (BCCDC). Of them, five (5) positives were reported: one (1) in Ontario (Sarnia region); one (1) in Manitoba; three (3) in Saskatchewan (Regina and Saskatoon).

#### **Domestic Animals:**

No animals positive for West Nile virus have been reported by the Canadian Food Inspection Agency, since the start of the 2013 WNV season.

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

Since the start of the 2013 WNV season, 53 human WNV cases [Alabama (1), Arizona (1), California (4), Colorado (1), Georgia (1), Idaho (1), Indiana (1), Iowa (2), Louisiana (1), Minnesota (3), Mississippi (7), Nebraska (4), Nevada (6), South Dakota (12), Tennessee (1), and Texas (4), Washington (1), Wisconsin (1)] have been reported by the Centers for Disease Control and Prevention (CDC) in the U.S.A. Of them, 11 (35%) were diagnosed as neuroinvasive disease, and 20 (65%) non-neuroinvasive). Three fatal cases were reported. 20 cases of presumptive viremic blood donors were reported.

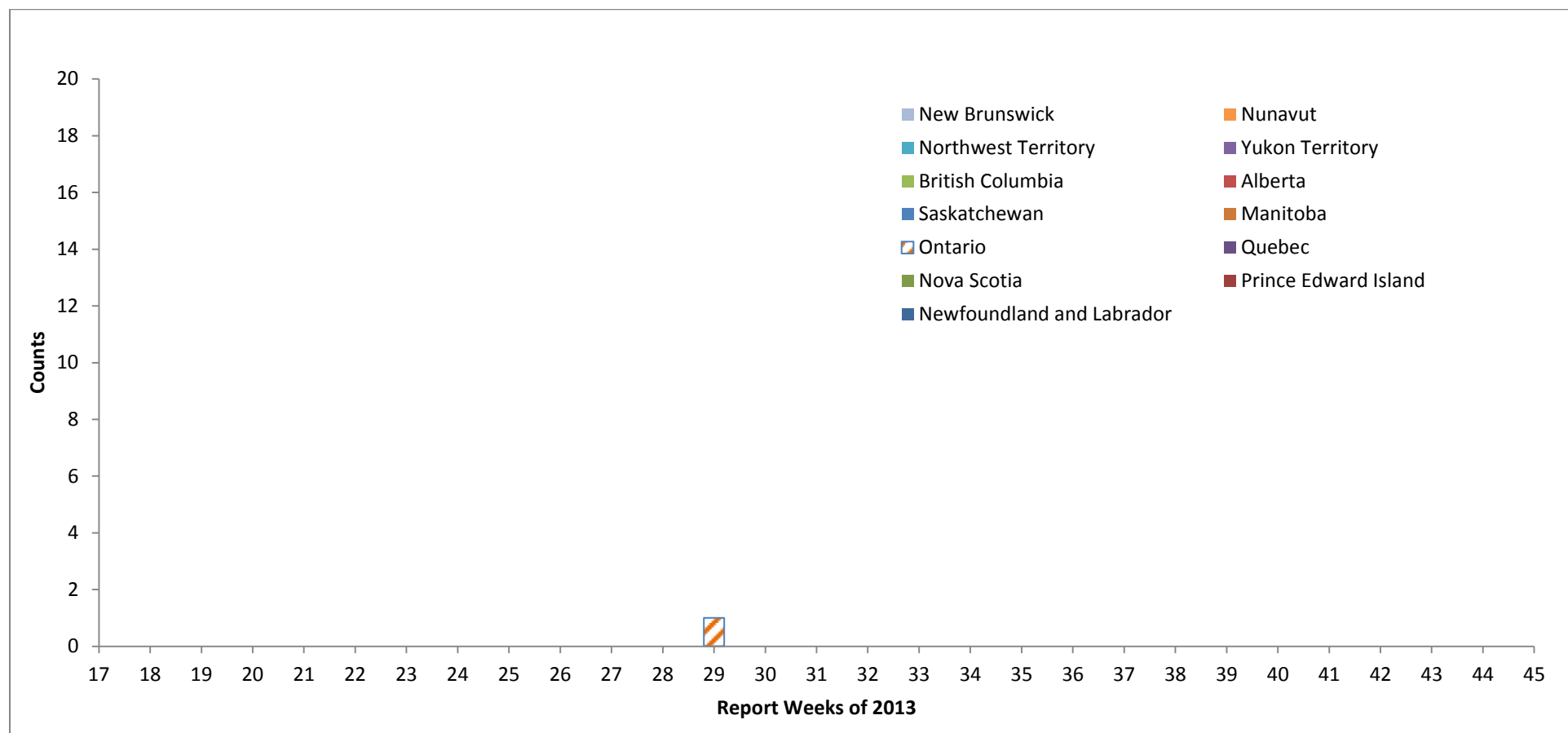
Source: [http://www.cdc.gov/ncidod/dvbid/westnile/surv&controlCaseCount12\\_detailed.html](http://www.cdc.gov/ncidod/dvbid/westnile/surv&controlCaseCount12_detailed.html)

### Europe and Neighbouring countries

Since the start of the 2013 WNV season, four (4) human cases of WNV has been reported in the European Union and the European Economic Area in the Attiki and Thessaloniki region of Greece. Seventeen (17) human cases of WNV have been reported in neighbouring countries: the Former Yugoslav Republic of Macedonia one (1), the Russian Federation twelve (12), Israel four (4).

Source: [http://ecdc.europa.eu/en/healthtopics/west\\_nile\\_fever/West-Nile-fever-maps/Pages/index.aspx](http://ecdc.europa.eu/en/healthtopics/west_nile_fever/West-Nile-fever-maps/Pages/index.aspx)

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



Link Figure 1 to the following table 1 below

### Table 1

[illegible]

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

		July 14 to July 20, 2013 (Week 29)					
		West Nile virus Neurological syndrome	West Nile virus Non-Neurological syndrome	Unclassified / Unspecified	Total clinical cases <sup>1</sup>	# of travel related cases <sup>2</sup>	West Nile virus asymptomatic infections <sup>3</sup>
		# cases	# cases				
Provinces and territories	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
		Year to date: From January 1 to July 20 2013					
Provinces and territories	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	1	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	1	0	0	0

<sup>1</sup> 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.

<sup>2</sup> Likely related to travel outside the province/territory. These cases are included in either the total clinical cases or West Nile virus asymptomatic infections.

<sup>3</sup> 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

The graph displays the distribution of report weeks for various years from 2003 to 2013. The x-axis represents 'Report Weeks of 2013' from 17 to 47, and the y-axis represents 'Counts' from 0 to 500. The 2007 distribution (orange) is the highest, peaking at approximately 470 counts around week 33. The 2003 distribution (purple) peaks at approximately 330 counts around week 36. Other years show much lower counts, generally peaking between weeks 30 and 38.

Year	Approximate Peak Week	Approximate Peak Count
2013	30	10
2012	33	60
2011	34	20
2010	31	10
2009	36	330
2008	33	10
2007	33	470
2006	37	40
2005	36	30
2004	31	10
2003	36	330

Link Figure 2 to the following table 3 below

Table 3

		Report Weeks 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																	
	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

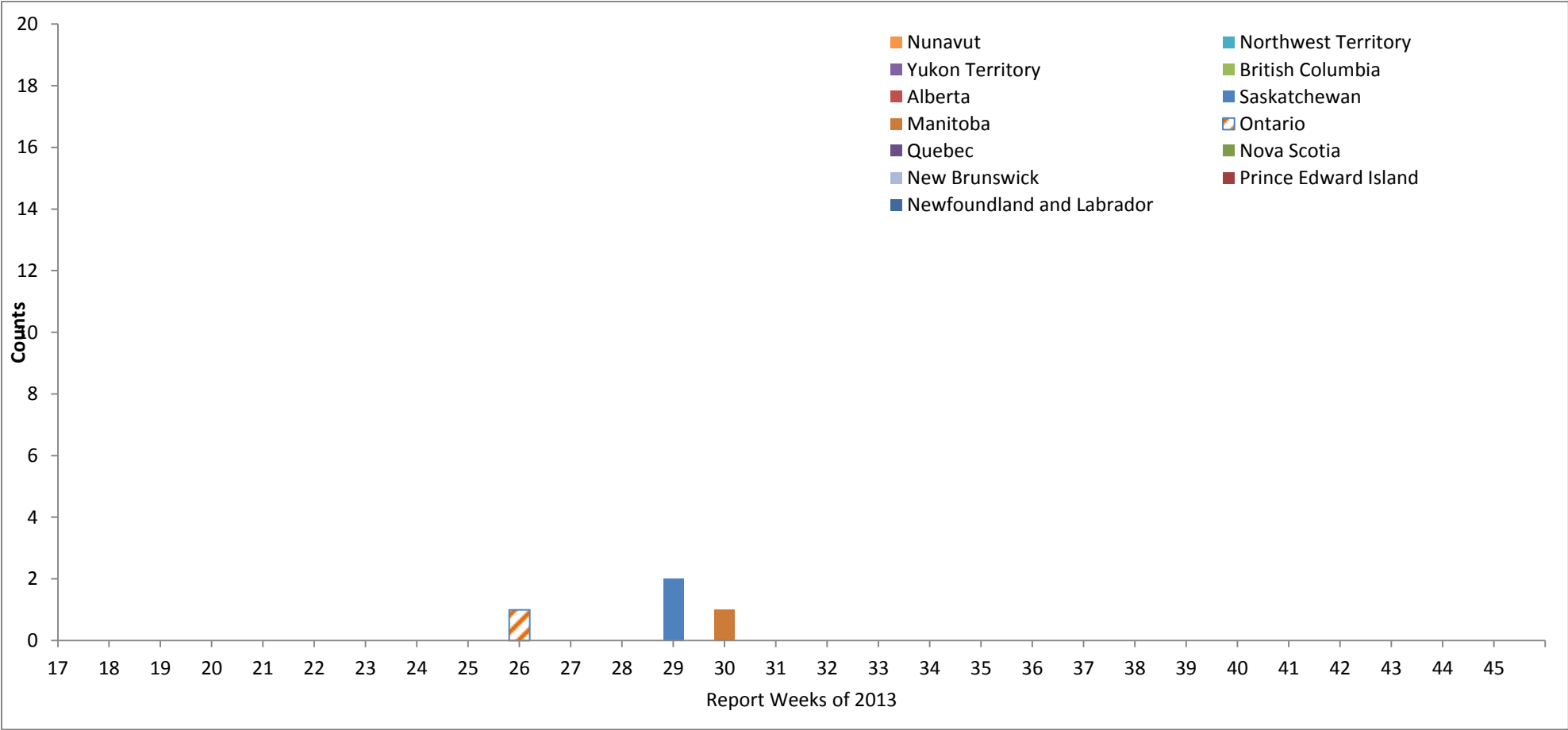
**Reported cumulative number of West Nile virus positive mosquito pools by Province/Territory and by report week, 2013 season\***

		Report Weeks 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		
	Newfoundland	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	0	2	1																		
	Ontario	0	0	0	0	0	0	0	0	0	2	2	4	12	22																	
	Manitoba	0	0	0	0	0	0	0	0	0	0	0	1	1	7																	
	Saskatchewan	0	0	0	0	0	0	0	0	0	0	0	1	1	3																	
	Alberta	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																	
	Yukon Territory	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																	
	Nunavut	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





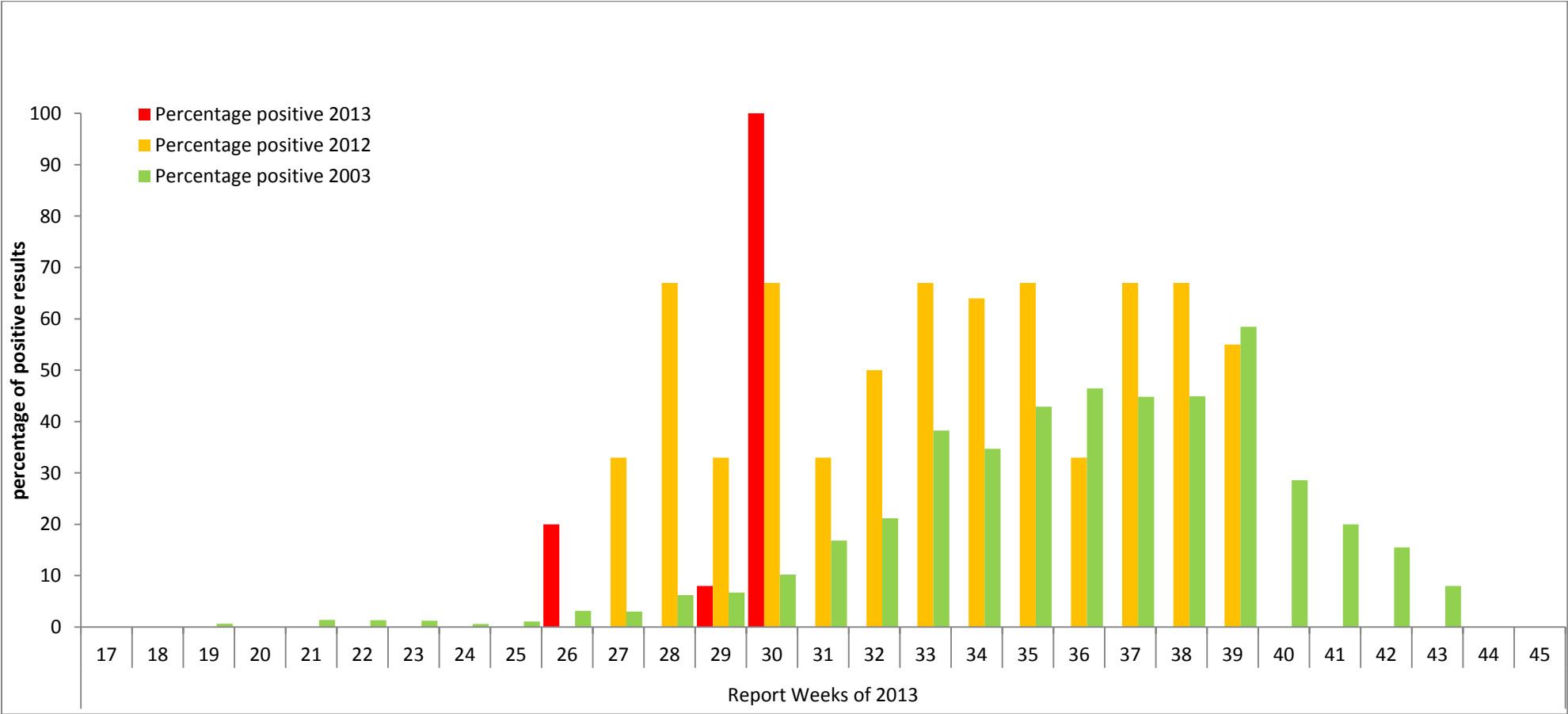
Link figure 3 to the following table 5 below

Table 5

[illegible]

Figure 4

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



Link figure 4 to the following table 6 below

Table 6

		Report Weeks 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
Numbers positive	2013	0	0	0	0	0	0	0	0	0	1	0	0	2	1															
Numbers tested	2013	0	0	0	0	0	0	0	0	0	5	0	3	25	1															
Percentage positive	2013	0	0	0	0	0	0	0	0	0	20	0	0	8	100															
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