



West Nile Virus Surveillance



BC Centre for Disease Control

West Nile Virus Surveillance Summary #7 Thursday, September 18, 2008

WNV Activity in BC

(Data as of Sept 17, 2008)

A probable human WNV infection has been reported in 7 year old female resident of Interior Health. This case of non-neurological syndrome is linked to travel to Saskatchewan in late August.

The BCCDC webpage on West Nile can be viewed directly at:

<http://www.bccdc.org/content.php?item=183>

From June 1 st , 2008	Human Cases*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	451	187	408	1806
# Positive	1(+1)	0		0

* Includes routine screening of CSF, organ and stem cell donations in addition to physician test requests

+Travel related case

Maps and graphs of BC surveillance data can be found at: <http://www.bccdc.org/content.php?item=373>

3-month Environment Canada climate predictions for BC

The updated temperature forecast for Sep-Oct-Nov is below normal for the entire province

http://www.weatheroffice.ec.gc.ca/saisons/image_e.html?img=sfe1t_s

Precipitation forecast for this time period is below normal for the entire province.

http://www.weatheroffice.ec.gc.ca/saisons/image_e.html?img=sfe1p_s

Accumulated base 16 °C growing degree days comparison for select BC communities

August 31 st	2008	2007	2006	2005	2004	2003	30YR
Cranbrook	366	442	423	307	360	476	276
Creston	414	607	554	446	517	620	351
Osoyoos	649	687	687	680	809	786	540
Kamloops	580	579	657	575	704	662	475
Abbotsford	280	295	342	340	430	360	222
Vancouver	204	221	239	245	329	275	170
Victoria	189	207	237	239	296	263	153
Prince George	185	189	237	184	264	196	139

Compared with the last two summers, cooler temperatures are being reported to date in 2008. Degree day calculations beyond August 31st are not calculated as newly hatching mosquitoes have entered diapause by this time - a state where they do not seek a bloodmeal - therefore the effect of temperature on mosquito development and viral replication after this time does not contribute to WNV risk.

WNV Activity in Canada

(Data as of Sept 17, 2008)

Little additional WNV activity has been reported over the last 2 weeks. The peak risk period for infection has now passed as mosquitoes have entered diapause and are no longer biting.

	Human Cases (probable/confirmed /unclassified/asymp)	Positive Corvids (confirmed)	Positive Mosquito pools	Positive Equine Cases
BC	1 (*1)	0	0	0
Alberta	1 (*1)	n/a	0	0
Saskatchewan	6	n/a	19	0
Manitoba	13	n/a	41	0
Ontario	1	125	53	0
Total	22	125	113	0

*The number of cases in brackets denotes the number of cases considered to be travel-related. For example, 6 (*2) would indicate a total of 6 probable cases, 2 of which are travel-related.

AB, SK and MN are not testing corvids as part of their WNV programs

WNV Activity in the US

- Washington:
 - Yakima, Benton and Grant counties in the south central region of the state are reporting positive activity in mosquitoes, corvids and/or equines. Incidence in these counties is higher than previous years.
 - Apart from the Seattle area blood donor with travel to Yakima county and Oregon, 2 additional presumed viremic blood donors are pending interpretation.
- Oregon:
 - WNV activity, including 4 human cases, has been reported from 8 counties to date, most bordering Idaho, SE Washington State and NW California.
- Idaho:
 - 32 human cases of WNV Fever have now been reported in Idaho. Although this does not represent an increase in the number of counties affected, human incidence has risen more than 2 fold over the last 2 weeks. This represents infections acquired prior to mosquito diapause; the lag in detection reflects both the incubation period and patient health care seeking behaviour.

Other US states reporting WNV activity:

Data as of Sept 16; Sources: CDC website

712 cases and 11 deaths have been reported to date in the US from 35 states; 41% of cases were neuroinvasive disease. This represents less than a third of the total number of cases reported at this time last year (1982 cases on Sept 14/07).

