



West Nile Virus Surveillance



BC Centre for Disease Control

West Nile Virus Surveillance Summary #4 Thursday, August 4, 2011

WNV Activity in BC (Data as of August 3, 2011)

No WNV activity has been identified in BC to date.

From , 2011	Human samples*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	168	21	187	1031
# Positive	0	0		0

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

The BCCDC webpage including maps and graphs of BC surveillance data can be found at:
http://www.bccdc.ca/dis-cond/a-z/_w/WestNileVirus/Surveillance/WNV2011Surveillance.htm

Canadian Blood Services Data

CBS performs year-round WNV nucleic acid testing and this information is provided as aggregate, regional updates throughout the WNV season to BCCDC. This reporting provides geographic and timely human WNV surveillance data.

In the previous two weeks (July 20-August 2, 2011) there have been 4580 collections of blood in BC. Between June 1 and August 2, 2011 there were 20627 collections. There were no positive WNV screening test results.

HSDA	Number of collections (July 20-August 2, 2011)	Number of collections (June 1-August 2, 2011)
Fraser East	290	1156
Fraser South	751	3116
Fraser North	448	1965
Okanagan	407	1848
Thompson Cariboo Shuswap	91	406
Vancouver	936	4562
Richmond	0	490
North Shore/Coast Garibaldi	211	672
South Vancouver Island	702	3178
Central Vancouver Island	234	1382
North Vancouver Island	231	765
Northern Interior	279	1087
BC	4580	20627



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Past temperature and future climate predictions for BC

Warmer temperatures favour greater mosquito abundance, biting activity and WNV amplification. Accumulated degree days (i.e. heat units) are calculated to forecast mosquito development.

Accumulated base 14.3 °C growing degree days comparison for select BC communities

Up to August 2nd	2011	Average 2003-2010	Maximum 2003-2010	Minimum 2003-2010
Cranbrook	233	346	423	277
Creston	304	460	569	348
Osoyoos	423	636	718	534
Kamloops	388	567	643	500
Abbotsford	208	326	409	250
Vancouver	168	261	334	198
Victoria	154	241	304	173
Prince George	109	212	255	173

BC continues to experience below normal temperatures. The 3 month (August-October) Environment Canada forecast calls for below normal temperatures and below normal precipitation for most of BC. The maps can be found at: http://www.weatheroffice.gc.ca/saisons/image_e.html?img=sfe1t_s and http://www.weatheroffice.gc.ca/saisons/image_e.html?img=sfe1p_s.

WNV Activity in Canada

(Data as of August 3, 2011)

- As of July 23 there have been five positive mosquito pools, all reported from ON.
- One travel related human case was reported from ON.
- No other activity has been reported to the Public Health Agency of Canada by provinces and territories at this time.

WNV Activity in the US

(Data as of August 3, 2011)

- Washington:
 - There has been no WN activity reported
- Oregon:
 - There has been no WN activity reported
- California:
 - 18 counties are reporting WN activity; all are in the central or southern parts of California.
 - There have been three human cases reported.
 - Positive indicators: 118 dead birds, 271 mosquito samples 1 squirrel and 19 sentinel chickens.
 - The number of positive indicators remains lower compared to the same time in the 2010 season.

Other US states reporting WNV activity:

(Data as of August 3; Sources: USGS survey and CDC)

A total of 27 human cases have been reported in 2011 (Mississippi-6, Arizona-4, South Dakota-1, Wyoming-1, Texas-2, California-3, Georgia-1 North Dakota-1, Louisiana-1, Colorado-1, Florida-5 and Virginia-1). Twelve of the cases have been reported as neuroinvasive and 1 death has been reported. Six presumptive viremic blood donors have also been reported (California, Indiana, Louisiana, Mississippi and Virginia). Activity is lower throughout the US compared to the same time in 2010.

