



West Nile Virus Surveillance



BC Centre for Disease Control

West Nile Virus Surveillance Summary #5 Thursday, August 18, 2011

WNV Activity in BC

(Data as of August 17, 2011)

No WNV activity has been identified in BC to date.

From June 1, 2011	Human samples*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	224	25	216	1632
# 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 (August 3- 16, 2011) there have been 4289 collections of blood in BC. Between June 1 and August 16, 2011 there were 24916 collections. There were no positive WNV screening test results.

HSDA	Number of collections (August 3-16, 2011)	Number of collections (June 1-August 16, 2011)
Fraser East	166	1322
Fraser South	611	3727
Fraser North	504	2469
Okanagan	477	2325
Thompson Cariboo Shuswap	0	406
Vancouver	983	5545
Richmond	221	490
North Shore/Coast Garibaldi	123	795
South Vancouver Island	520	3698
Central Vancouver Island	456	1838
North Vancouver Island	0	765
Northern Interior	228	1315
BC	4289	24916



West Nile Virus Surveillance



BC Centre for Disease Control

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 16th	2011	Average 2003-2010	Maximum 2003-2010	Minimum 2003-2010
Cranbrook	308	424	510	341
Creston	408	563	679	440
Osoyoos	553	762	862	664
Kamloops	498	681	772	609
Abbotsford	264	400	508	332
Vancouver	219	323	413	264
Victoria	191	294	369	236
Prince George	139	259	316	208

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 17, 2011)

- Activity has been reported in ON and SK
- Positive mosquito pools: 43 from ON, 1 from SK
- Positive horses: 1 from ON
- Positive humans: 1 travel related case was reported from ON

WNV Activity in the US

(Data as of August 17, 2011)

- Washington:
 - There has been no WN activity reported
- Oregon:
 - There has been no WN activity reported
- California:
 - 19 counties are reporting WN activity; all are in the central or southern parts of California.
 - There have been 10 human cases reported.
 - Positive indicators: 151 dead birds, 609 mosquito samples, 1 horse, 1 squirrel and 47 sentinel chickens.

Other US states reporting WNV activity:

(Data as of August 17; Sources: USGS survey and CDC)

A total of 53 human cases have been reported in 2011 (Mississippi, Arizona, South Dakota, Wyoming, Texas, California, Georgia, North Dakota, Louisiana, Colorado, Florida, New Jersey, Nebraska and Virginia). Thirty-two of the cases have been reported as neuroinvasive and 3 deaths have been reported. Fifteen presumptive viremic blood donors have also been reported (California, Indiana, Louisiana, Mississippi, Florida, Nebraska and Virginia). Activity is lower throughout the US compared to the same time in 2010. No activity has been reported in US states that border with BC.

