



West Nile Virus Surveillance



BC Centre for Disease Control

West Nile Virus Surveillance Summary #3 Thursday, July 21, 2011

WNV Activity in BC (Data as of July 20, 2011)

No WNV activity has been identified in BC to date.

From , 2011	Human samples*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	116	16	157	584
# 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.

Between June 1 and July 19, 2011 there were 16,047 collections of blood in BC. There were no positive WNV screening test results.

HSDA	Number of collections (June 1-July 19, 2011)
Fraser East	866
Fraser South	2365
Fraser North	1517
Okanagan	1441
Thompson Cariboo Shuswap	315
Vancouver	3626
Richmond	490
North Shore/Coast Garibaldi	461
South Vancouver Island	2476
Central Vancouver Island	1148
North Vancouver Island	534
Northern Interior	808
BC	16047

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 July 19th	2011	Average 2003-2010	Maximum 2003-2010	Minimum 2003-2010
Cranbrook	174	245	311	193
Creston	229	332	425	241
Osoyoos	326	490	565	394
Kamloops	298	428	497	362
Abbotsford	153	242	304	180
Vancouver	118	188	247	142
Victoria	103	180	224	130



West Nile Virus Surveillance



BC Centre for Disease Control

Prince George	89	156	191	137
---------------	----	-----	-----	-----

BC continues to experience below normal temperatures. However, the 3 month (July-September) Environment Canada forecast calls for above normal temperatures for south central and eastern BC, and below normal precipitation for all 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 July 20, 2011)

One human case has been reported from Ontario, this case reported travel outside of Canada (India and China). 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

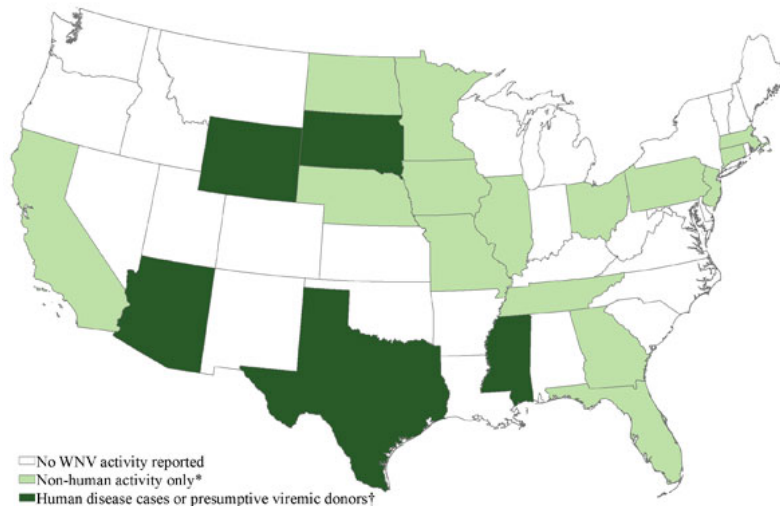
(Data as of July 20, 2011)

- Washington:
 - There has been no WN activity reported
- Oregon:
 - There has been no WN activity reported
- California:
 - 14 counties are reporting WN activity; all are in the central or southern parts of California.
 - There have been no human cases reported.
 - Positive indicators: 69 dead birds, 89 mosquito pools and 3 sentinel chickens. The number of positive indicators is lower compared to the same time in the 2010 season.

Other US states reporting WNV activity:

(Data as of July 20; Sources: USGS survey and CDC)

A total of 9 human cases have been reported in 2011 (Mississippi-1, Arizona-4, South Dakota-1, Wyoming-1 and Texas-2). Four of the cases have been reported as neuroinvasive and 1 death has been reported. Activity is lower throughout the US compared to the same time in 2010.



□ No WNV activity reported
 ■ Non-human activity only*
 ■ Human disease cases or presumptive viremic donors†

* Includes WNV veterinary disease cases and WNV infections in mosquitoes, birds, and sentinel animals.
 † WNV activity in non-human species also might have been reported.

