



West Nile Virus Surveillance



BC Centre for Disease Control

West Nile Virus Surveillance Summary #2 Thursday, July 7, 2011

WNV Activity in BC (Data as of July 6, 2011)

No WNV activity has been identified in BC to date.

From , 2011	Human samples*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	66	9	82	321
# 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 June 28, 2011 there were 11379 collections of blood in BC. There were no positive WNV screening test results.

HSDA	Number of collections (June 1-June 28, 2011)
Fraser East	601
Fraser South	1761
Fraser North	992
Okanagan	1008
Thompson Cariboo Shuswap	186
Vancouver	2504
Richmond	320
North Shore Coast Garibaldi	366
South Vancouver Island	1870
Central Vancouver Island	646
North Vancouver Island	534
Northern Interior	591
BC	11379

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 5th	2011	Average 2003-2010	Maximum 2003-2010	Minimum 2003-2010
Cranbrook	103	164	212	119
Creston	147	228	278	151
Osoyoos	232	362	438	257
Kamloops	214	315	382	244
Abbotsford	108	176	229	106
Vancouver	77	129	177	79
Victoria	73	127	171	74
Prince George	68	116	147	85



BC Centre for Disease Control

West Nile Virus Surveillance



BC experienced the coolest spring season temperatures compared against the past 8 years. 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 6, 2011)

No WNV activity has been reported to the Public Health Agency of Canada by provinces and territories at this time.

WNV Activity in the US

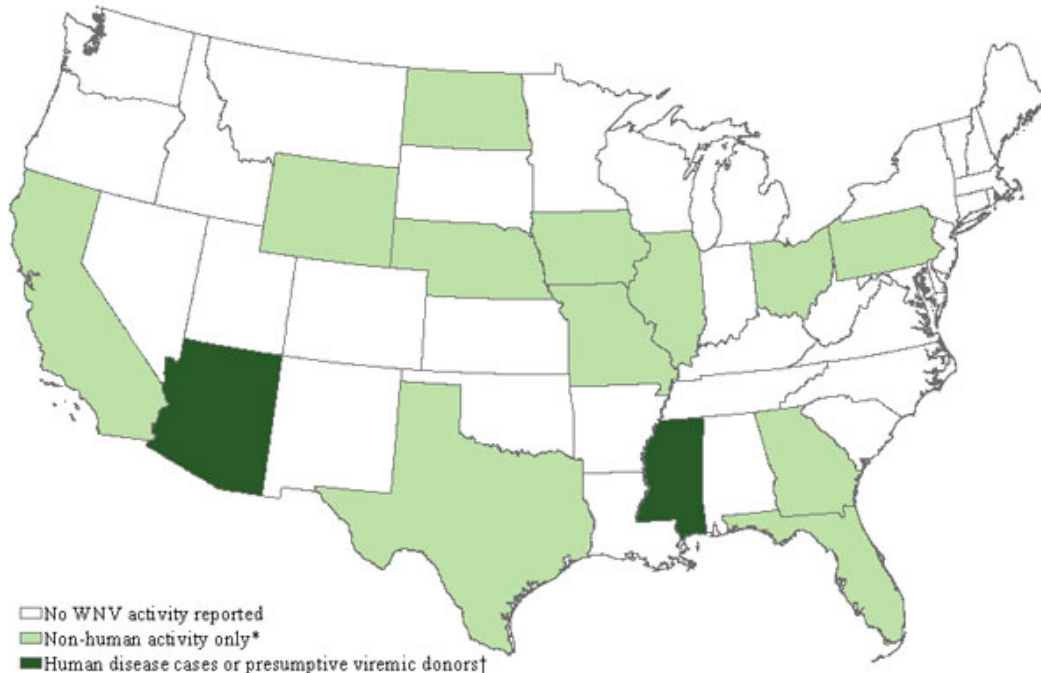
(Data as of July 6, 2011)

- Washington:
 - There has been no WN activity reported
- Oregon:
 - There has been no WN activity reported
- California:
 - 12 counties are reporting WNV activity; all are in the central or southern parts of California.
 - There have been no human cases reported.
 - Positive indicators: 37 dead birds, 31 mosquito pools. 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 6; Sources: USGS survey and CDC)

One new human case has been reported from Arizona. In total there has been two human case of illness reported in 2011 (Mississippi-1, Arizona-1).



* 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.

