



West Nile Virus Surveillance



West Nile Virus Surveillance Summary #1 Thursday, June 23, 2011

WNV Activity in BC (Data as of June 22, 2011)

No WNV activity has been identified in BC to date.

From , 2011	Human samples*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	36	1	45	173
# 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 21, 2011 there were 6981 collections of blood in BC. There were no positive WNV screening test results.

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 June 21st	2011	Average 2003-2010	Maximum 2003-2010	Minimum 2003-2010
Cranbrook	58	98	118	70
Creston	86	141	167	91
Osoyoos	150	249	289	172
Kamloops	143	214	245	174
Abbotsford	65	121	162	74
Vancouver	40	81	113	46
Victoria	39	84	120	46
Prince George	52	78	121	54

BC experienced the coolest spring season temperatures compared against the past 8 years. The 3 month (June-August) Environment Canada temperature forecast calls for above normal temperatures for all of BC with the exception of Vancouver Island and Haida Gwaii, 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 June 22, 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

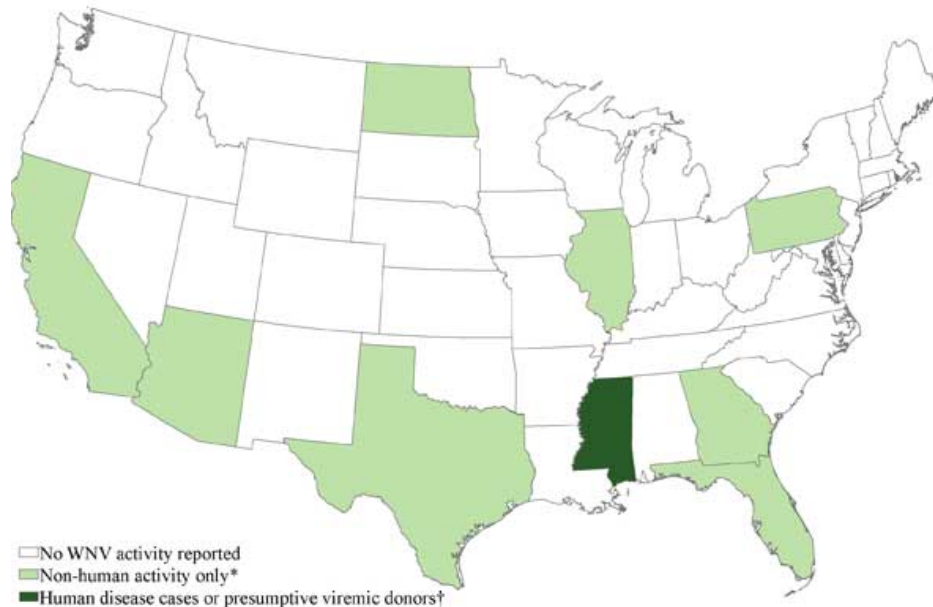
(Data as of June 22, 2011)

- Washington:
 - There has been no WN activity reported
- Oregon:
 - There has been no WN activity reported
- California:
 - 10 counties are reporting WNV activity; all are in the central or southern parts of California.
 - There have been no human cases reported.
 - Positive indicators: 23 dead birds, 6 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 June 22; Sources: USGS survey and CDC)

As of June 21, 1 human case of neuroinvasive illness has been reported from Mississippi.



* 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.

