



# West Nile Virus Surveillance



## West Nile Virus Surveillance Summary #2 Thursday, June 24, 2010

### WNV Activity in BC

(Data as of June 23, 2010)

The BCCDC webpage on West Nile can be viewed directly at: <http://www.bccdc.ca/dis-cond/a-z/w/WestNileVirus/default.htm>

From Jun 1 <sup>st</sup> , 2010	Human samples*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	9	11	55	72
# Positive	0	0		0

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

### No WNV activity has been identified in BC to date.

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>

### 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 May 31-June 20, 2010 there were 6640 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

June 22nd	2010	2009	2008	2007	2006	2005	2004	2003
Cranbrook	73	118	95	114	117	96	104	109
Creston	95	165	128	175	156	146	157	154
Osoyoos	179	277	224	261	237	291	314	275
Kamloops	180	250	187	222	220	241	263	219
Abbotsford	79	159	80	105	122	155	176	121
Vancouver	50	115	51	72	85	92	124	87
Victoria	48	107	55	70	85	108	128	95
Prince George	69	83	59	79	65	121	97	75

Southern BC is experiencing the coolest spring season temperatures compared against the past 7 years. The 3 month (June-August) Environment Canada temperature forecast calls for above normal temperatures in northern and eastern BC, and below normal temperatures for Vancouver Island. The map can be found at: [http://www.weatheroffice.gc.ca/saisons/image\\_e.html?img=sfe1t\\_s](http://www.weatheroffice.gc.ca/saisons/image_e.html?img=sfe1t_s)

### WNV Activity in Canada

(Data as of June 23, 2010)

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 23, 2010)

- Washington:
  - One positive mosquito pool has been reported positive for WNV in Grant County.
- Oregon:
  - No surveillance activity has been reported

- California:
  - 11 counties are reporting WNV activity; all are in the central or southern parts of California. Fewer counties are affected compared to the same point in the season in 2009.
  - There have been no human cases reported.
  - Positive indicators: 24 dead birds, 6 mosquito pools. The number of positive indicators is lower compared to the same time in the 2009 season.

Other US states reporting WNV activity:

(Data as of June 23; Sources: USGS survey and CDC)

Since May 1, 2010 one human case of WNV has been reported in Georgia. The case reported in Mississippi (highlighted on map) was reported in January 2010.

**West Nile virus (WNV) activity reported to ArboNET, by state, United States, 2010**

*as of June 15, 2010*

