



West Nile Virus Surveillance



West Nile Virus Surveillance Summary #3 Thursday, July 8, 2010

WNV Activity in BC (Data as of July 7, 2010)

No WNV activity has been identified in BC to date.

From Jun 1 st , 2010	Human samples*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	36	32	79	226
# 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

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-July 4, 2010 there were 10,738 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

July 6th	2010	2009	2008	2007	2006	2005	2004	2003
Cranbrook	122	179	181	191	217	138	161	171
Creston	155	250	238	273	283	202	243	239
Osoyoos	263	387	353	361	381	387	455	395
Kamloops	250	332	307	318	361	316	400	309
Abbotsford	111	213	149	155	198	199	237	176
Vancouver	82	154	108	114	144	135	186	139
Victoria	79	149	106	107	144	145	179	143
Prince George	89	104	114	111	125	146	150	110

BC is experiencing the coolest spring and early summer season temperatures compared against the past 7 years. The 3 month (July-September) Environment Canada temperature forecast calls for below normal temperatures for coastal BC and above normal temperatures in southeastern BC. The map can be found at:
http://www.weatheroffice.gc.ca/saisons/image_e.html?img=sfe1t_s

WNV Activity in Canada

(Data as of July 7, 2010)

As of June 23, no WNV activity has been reported to the Public Health Agency of Canada by provinces and territories.

WNV Activity in the US

(Data as of July 7, 2010)

- Washington:
 - Three positive mosquito pools have been reported; 2 in Grant County and 1 in Yakima County.

- Oregon:
 - No surveillance activity has been reported
- California:
 - 17 counties are reporting WNV activity; the majority are in the central or southern parts of California.
 - There have been no human cases reported.
 - Positive indicators: 40 dead birds, 48 mosquito pools, 1 squirrel. 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 July 8; Sources: USGS survey and CDC)

As of July 6th 4 human cases of WNV have been reported; 2 in Georgia, 1 in Mississippi and 1 in North Dakota. Three were reported as neuro-invasive. No deaths have been reported. Additionally, one positive blood donor was reported in Texas.

West Nile virus (WNV) activity reported to ArboNET, by state, United States, 2010
as of July 6, 2010

