



West Nile Virus Surveillance

West Nile Virus Surveillance Summary #5
Thursday, August 5, 2010WNV Activity in BC
(Data as of August 4, 2010)

No WNV activity has been identified in BC to date.

From Jun 1 st , 2010	Human samples*	Corvids tested	Corvids sighted	Mosquito pools
# Tested	106	98	152	958
# 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-August 1, 2010 there were 19,874 collections of blood in BC. There were no positive WNV screening test results. Between July 19 and August 1, 2010 there were 4549 collections in BC.

HSDA	Number of collections (July 19-August 1, 2010)
Fraser East	310
Fraser South	494
Fraser North	549
Okanagan	272
Thompson Cariboo Shuswap	228
Vancouver	1049
North Shore Coast Garibaldi	125
South Vancouver Island	869
North Vancouver Island	398
Northern Interior	225
BC	4549

No collections were reported in East Kootenay, Kootenay Boundary, Richmond, Central Vancouver Island, Northwest or Northeast in this two week period.

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

August 3	2010	2009	2008	2007	2006	2005	2004	2003
Cranbrook	282	347	326	430	401	284	341	415
Creston	354	469	425	579	515	398	474	539
Osoyoos	544	685	592	661	646	613	741	702
Kamloops	505	640	511	568	610	522	665	593
Abbotsford	257	404	257	306	341	333	421	340
Vancouver	207	322	203	246	270	254	344	285
Victoria	177	282	186	225	258	257	311	268
Prince George	207	252	179	223	189	207	263	209



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BC Centre for Disease Control

All of BC continues to experience warm, dry weather. During the past 2 weeks Osoyoos accumulated 143 degree days and Abbotsford accumulated 70 degree days. The 3-month (August-October) seasonal forecast calls for below normal temperatures for coastal BC and above normal temperatures in south eastern 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 August 4, 2010)

Saskatchewan Health reported their first two positive mosquito pools as of July 30. Both pools were identified in the Estevan area. Ontario reported their first two positive mosquito positives on August 3. These positives were collected at the end of July in Peel Region. Nationally there have been a total of six positive mosquito results (2 in SK, 2 in ON and 2 in MB). As of July 30, 108 birds have been tested by the Canadian Cooperative Wildlife Health Centre, one positive American Crow was reported in Saskatchewan. No human cases have been reported.

WNV Activity in the US

(Data as of August 4, 2010)

- Washington:
 - Fifty-two positive mosquito pools have been reported; 50 in Grant County and 2 in Yakima County.
- Oregon:
 - No positive indicators have been reported
- California:
 - 23 counties are reporting WNV activity.
 - There have been 8 human cases reported from four counties; all cases are reported from central and southern counties.
 - Positive indicators: 176 dead birds, 433 mosquito pools, 24 chickens and 5 squirrels.

Other US states reporting WNV activity:

(Data as of August 4; Sources: USGS survey and CDC)

As of July 27, 35 human cases of WNV have been reported. Cases have been reported in Alabama, Arizona, California, Colorado, Georgia, Kansas, Mississippi, Missouri, North Dakota and South Dakota. Nineteen cases were reported as neuroinvasive. One death has been reported in Arizona. Positive blood donors have been reported in Texas, California and Arizona.

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

as of July 27, 2010

