



West Nile Virus Surveillance



BC Centre for Disease Control

West Nile Virus Surveillance Summary #5 Thursday, August 21, 2008

WNV Activity in BC

(Data as of August 20, 2008)

No WNV activity has been identified in BC to date.

The BCCDC webpage on West Nile can be viewed directly at:

<http://www.bccdc.org/content.php?item=183>

From June 1 st , 2008	Human Cases*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	303	132	338	1321
# Positive	0	0		0

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

Maps and graphs of BC surveillance data can be found at: <http://www.bccdc.org/content.php?item=373>

3-month Environment Canada climate predictions for BC

The updated temperature forecast for Aug-Sep-Oct is below normal for most of the province and normal for southeastern BC.

http://www.weatheroffice.ec.gc.ca/saisons/image_e.html?img=sfe1t_s

Precipitation forecast is below normal for most of province and normal for: Vancouver Island, Lower Mainland, central Interior and north east corner of the province.

http://www.weatheroffice.ec.gc.ca/saisons/image_e.html?img=sfe1p_s

Accumulated base 16 °C growing degree days comparison for select BC communities

August 19th	2008	2007	2006	2005	2004	2003	30YR
Cranbrook	347	409	378	273	337	424	245
Creston	413	562	494	392	479	550	311
Osoyoos	545	625	620	610	741	701	486
Kamloops	536	527	585	514	660	595	427
Abbotsford	264	260	300	301	399	315	192
Vancouver	190	192	214	211	299	243	148
Victoria	174	180	210	217	273	231	134
Prince George	178	182	216	171	253	184	128

Compared with the last two summers, cooler temperatures are being reported to date in 2008. This may be a result of the Pacific Decadal Oscillation.

WNV Activity in Canada

(Data as of Aug 20, 2008)

Five positive human cases were reported in the last 2 weeks – one each in SK and ON and 3 in MB. Human activity in 2008 is beginning much later than in 2007; the timing of human cases in 2008 is comparable to 2004, both these years followed intense WNV activity on the Prairies in the year previous. Very few human cases were reported nationally in 2004 and 2008 may prove similar. Positive mosquitoes continue to be reported from Saskatchewan, Manitoba and Ontario; the number of *Culex tarsalis* has been increasing recently in Manitoba but nothing like the numbers reported in 2007 at this time.

	Human Cases (probable/confirmed /unclassified/asymp)	Positive Corvids (confirmed)	Positive Mosquito pools	Positive Equine Cases
BC	0	0	0	0
Alberta	0	n/a	0	0
Saskatchewan	1	n/a	9	0
Manitoba	3	n/a	31	0
Ontario	1	47	9	0
Total	5	47	49	0

*The number of cases in brackets denotes the number of cases considered to be travel-related. For example, 6 (*2) would indicate a total of 6 probable cases, 2 of which are travel-related.

AB, SK and MN are not testing corvids as part of their WNV programs

WNV Activity in the US

- Washington:
 - **Human activity reported.** The first human case of WNV in 2008 was reported in an asymptomatic Seattle blood donor with travel to Yakima county and areas of Oregon.
 - Yakima, Benton and Grant counties in the south central region of the state are reporting positive activity in mosquitoes and/or equines.
- Oregon:
 - **Human activity reported.** Three human cases have been reported from Malheur county bordering southern Idaho.
 - WNV activity has been reported from 4 counties to date, most bordering Idaho and SE Washington State.
- Idaho:
 - 11 southern counties are reporting WNV activity, 3 more than 2 weeks ago. 12 human cases of WNV Fever were reported from 7 different counties.
- California:
 - 38 counties are reporting WNV activity throughout the state with 78 human cases reported. Human cases are clustered in southern counties and those in the central valley systems. 40% more human cases were reported in California at this time last year.

Other US states reporting WNV activity:

Data as of Aug 15; Sources: CDC website

236 cases and two deaths have been reported to date in the US from 28 states; 41% of cases were neuroinvasive disease. This represents less than ½ the total number of cases reported at this time last year. Of note, Montana reported their first WNV activity of 2008 in the last 2 weeks – 2 mosquito pools and 2 equine cases from the central part of the state.

