



West Nile Virus Surveillance



West Nile Virus Surveillance Summary #9 Thursday, September 10, 2009

WNV Activity in BC

(Data as of September 9, 2009)

The second human case of WNV in BC has been confirmed. This case was a family member of the first confirmed human case and reported travel in the southern Okanagan. One new mosquito pool has tested positive for WNV, for a total of nine positive pools to date in 2009. All positive pools were in the Okanagan Health Service Delivery Area.

The BCCDC webpage on West Nile can be viewed directly at: http://www.bccdc.ca/dis-cond/az/_w/WestNileVirus/default.htm

From June 1 st , 2009	Humans*	Corvids submitted	Corvids sighted	Mosquito pools
# Tested	225	124	372	2238
# Positive	2	0		9

*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.ca/dis-cond/az/_w/WestNileVirus/Surveillance/WNV2009SurveillanceData.htm

7-day Environment Canada weather forecast for select BC communities

Warm and dry conditions are forecasted for BC over the next week. Abbotsford, Vancouver and Victoria are expecting sun and temperatures ranging 27-10°C. Osoyoos, Kamloops, Creston and Cranbrook are expecting sun and temperatures ranging 31-5°C.

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

August 31 st	2009	2008	2007	2006	2005	2004	2003	30YR
Cranbrook	368	366	442	423	307	360	476	276
Creston	519	414	607	554	446	517	620	351
Osoyoos	750	649	687	687	680	809	786	540
Kamloops	696	580	579	657	575	704	662	475
Abbotsford	385	280	295	342	340	430	360	222
Vancouver	289	204	221	239	245	329	275	170
Victoria	255	189	207	237	239	296	263	153
Prince George	252	185	189	237	184	264	196	139

All communities experienced dramatically increased accumulated degree days this year compared to last year and the 30 year average. Degree day calculations beyond August 31st are not calculated as newly hatched mosquitoes have entered diapause by this time (a state where they do not seek a blood meal); therefore, the effect of temperature on mosquito development and viral replication after this time does not contribute to WNV risk.



West Nile Virus Surveillance



BC Centre for Disease Control

WNV Activity in Canada

(Data as of September 9, 2009)

	Human Cases (confirmed)	Positive Corvids (confirmed)	Positive Mosquito pools	Positive Equine Cases
BC	2	0	9	0
Alberta	1	n/a	n/a	0
Saskatchewan	0	1	11	0
Manitoba	0	0	2	0
Ontario	0	3	0	1
Total	3	4	22	1

AB, SK and MN and ON are not testing corvids as part of their WNV programs, all birds have been tested by the Canadian Cooperative Wildlife Health Centre

AB is not testing mosquito pools

WNV Activity in the US

- Washington:
 - There has been 1 human case, 326 positive pools, 15 positive birds and 32 positive horses.
 - King County reported activity for the first time in the 2009 season this week with one dead crow reported positive.
- Oregon:
 - There have been six human cases, 15 positive birds, 3 positive horses and 258 positive mosquito pools reported. No new activity has been reported since last surveillance report.
 - Activity has been reported in 5 Counties located in the north and eastern part of Oregon.
- California:
 - There have been 29 human cases reported in 40 counties, 405 dead birds, 845 mosquito pools, 171 sentinel chicken flocks, 6 horses and 6 squirrels have been reported as positive to date in 2009.
- Montana:
 - One new human case has been reported for a total of four cases to date.

Other US states reporting WNV activity:

(Data as of Sept 8; Sources: USGS survey)

196 human cases of WNV have been reported in 28 States. 49% of human cases have been reported as encephalitis/meningitis. Six fatalities have been reported. The number of human cases reported continues to be lower compared to previous seasons.

