



West Nile Virus Surveillance

West Nile Virus Surveillance Summary #8
Thursday, September 3, 2009**WNV Activity in BC**

(Data as of September 2, 2009)

Five new mosquito pools have tested positive for WNV, all pools are in the Okanagan Health Service Delivery Area. To date, there have been 8 mosquito pools and one human case positive for WNV in BC.

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	193	121	366	2129
# Positive	1	0		8

*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

Cooler, wetter conditions are forecasted for BC over the next week. Abbotsford, Vancouver and Victoria are expecting rain and temperatures ranging 22-11°C. Osoyoos, Kamloops, Creston and Cranbrook are expecting a mix of sun, clouds and rain with temperatures ranging 24-8°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.

WNV Activity in Canada

(Data as of September 2, 2009)

Human activity reported: On Aug 31, Alberta reported their first human case from the Calgary area. The case experienced neurological symptoms.

As of August 22, outside of BC there have been 13 positive mosquito pools reported as positive for WNV, 11 in Saskatchewan and 2 in Manitoba. One new positive dead bird was reported from Ontario bringing the total to three positive dead birds tested by the Canadian Cooperative Wildlife Health Centre, all reported in Ontario.

Overall in Canada the activity has been lower compared to previous seasons and has only been reported in recent weeks.

WNV Activity in the US

- Washington:
 - There has been 1 human case, 326 positive pools, 12 positive birds and 32 positive horses.
 - Activity continues to be located in the southern and central Counties of Washington State. One new county (Lewis) reported activity for the first time this week.
- Oregon (*no update available since Aug 26*):
 - There have been six human cases, 12 positive birds, 3 positive horses and 193 positive mosquito pools reported.
 - Activity has been reported in 5 Counties located in the north and eastern part of Oregon.
- California:
 - 39 Counties are reporting WNV activity.
 - There have been 26 human cases reported in 2009 compared to 126 at the same time in 2008.
 - Positive indicators: 385 dead birds, 744 mosquito pools, 139 sentinel chicken flocks, 4 horses and 6 squirrels.
- Idaho:
 - As of Aug 26 there have been 13 symptomatic human cases and one fatality.
 - 4 positive horses have been reported and 9 Counties have reported positive mosquito pools.
 - The majority of the activity is reported by Counties in the southern part of the State that border with Oregon.
- Montana:
 - 3 human cases, 8 horses and 4 mosquito pools have been reported as positive as of August 28

Other US states reporting WNV activity:

(Data as of Sept 1; Sources: USGS survey)

156 human cases of WNV have been reported in 25 States. 50% 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.

