



West Nile Virus Surveillance



West Nile Virus Surveillance Summary #10

Thursday, September 24, 2009

WNV Activity in BC

(Data as of September 23, 2009)

Two horses have been reported positive for WNV, one horse was located in the southern Okanagan, and the other was located in the Fraser Valley. Neither horse traveled outside the province. This was the first positive indicator reported in the Fraser Health Authority. One additional mosquito pool in the Southern Okanagan was also confirmed as positive. To date there have been 2 human cases, two horses and 10 mosquito pools confirmed with WNV in BC.

The BCCDC webpage on West Nile can be viewed directly at: <http://www.bccdc.ca/dis-cond/a-z/w/WestNileVirus/default.htm>

From June 1 st , 2009	Humans*	Corvids submitted	Corvids sighted	Mosquito pools	Horses
# Tested	313	137	387	2449	-
# Positive	2	0		10	2

*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/a-z/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 22-7°C (daily high and low, respectively). Osoyoos, Kamloops, Creston and Cranbrook are expecting sun and temperatures ranging 27-2°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 12, 2009)

One new human case has been reported from Saskatchewan and Alberta, both cases were classified as non-neurological syndrome. Additionally, Ontario reported their first positive mosquito pools.

	Human Cases (confirmed)	Positive Corvids (confirmed)	Positive Mosquito pools	Positive Equine Cases
BC	2	0	10	2
Alberta	2	n/a	n/a	0
Saskatchewan	1	1	11	0
Manitoba	0	0	2	0
Ontario	0	5	11	1
Total	5	6	34	3

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 have been 17 human cases, 326 positive pools, 19 positive birds and 64 positive horses.
 - This is the highest number of human cases reported in a season by Washington State.
 - Most activity continues to be reported in the Southern and Central area of the State. Grays Harbour County, located on the west coast of the State reported their first activity.
 - A recent human case in Whatcom country was associated with travel to Eastern Washington.
- Oregon:
 - There have been 7 human cases, 15 positive birds, 5 positive horses and 266 positive mosquito pools reported.
 - Activity continues to be reported in only 5 Counties located in the north and eastern part of Oregon.
- California:
 - There have been 47 human cases reported in 41 counties, 443 dead birds, 967 mosquito pools, 255 sentinel chicken flocks, 9 horses and 9 squirrels have been reported as positive to date in 2009.

Other US states reporting WNV activity:

(Data as of Sept 15; Sources: USGS survey)

280 human cases of WNV have been reported in 30 States. 49% of human cases have been reported as encephalitis/meningitis. Eight fatalities have been reported. The number of human cases reported continues to be lower compared to previous seasons.

