



West Nile Virus Surveillance Summary #5

Thursday, August 9, 2007

WNV Activity in BC

(Data as of Aug 8, 2007)

An imported case of WNV was identified Monday July 30th through blood donor screening.

- Mild illness reported in resident of Fraser Health.
- Travelled in Saskatchewan during their incubation period to areas with known WNV activity; recalled many mosquito bites.

From June 1 st , 2007	Human Cases ¹	Birds Tested	Birds reported on-line	Mosquito pools
# Tested	118	428	376	1522
# Positive	1(*1)	0		0

¹includes routine screening of CSF, organ and stem cell donations in addition to physician test requests

* 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.

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 Aug-Sep-Oct temperature forecast is above normal for all of BC (and Canada).

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

The Aug-Sep-Oct precipitation forecast is above normal for central BC, and below normal for the southeast and northeast corners 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 7th	2007	2006	2005	2004	2003	30YR
Cranbrook	358	331	236	262	345	202
Creston	494	432	333	374	455	259
Osoyoos	559	542	509	575	591	414
Kamloops	471	509	433	547	507	363
Abbotsford	226	263	248	316	264	156
Vancouver	166	190	168	240	203	119
Victoria	157	188	183	222	197	108
Prince George	170	195	144	194	153	105

WNV Activity in Canada

(Data as of August 8, 2007)

Alberta's first human case of 2007 (WNNS) was reported in week 30 (July 22-28) in a resident of the southern half of the province; increased positive mosquito pools have been detected in this region. This is 2 weeks earlier than 2005/2006. Saskatchewan has reported 13 new human cases in the last two weeks; human infections in Manitoba continue to climb (27 new in last 2 weeks) and were detected 3 weeks earlier this year than previously. An 80-year old man with no known underlying conditions has died from WNV neurological infection in Manitoba, marking Canada's first fatality in 2007. High average trap counts of *Cx. tarsalis* are being reported in Manitoba, Saskatchewan, Alberta and BC this year. Adult mosquito control has already been undertaken in several communities in southern Manitoba due to high mosquito numbers and climbing infection rates.

	Human Cases* (probable/confirmed /unclassified/asymp)	Positive Corvids (confirmed)^	Positive Mosquito pools	Positive Equine Cases
Alberta	1	-	34	0
Saskatchewan	17	-	101	4
Manitoba	41	-	322	1
Ontario	0	26	1	0
Quebec	0	-	0	0
Total	59	26	458	5

*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.

^Provinces with a dash (-) denote those no longer running corvid monitoring as a component of WNV surveillance.

WNV Activity in the US

- Washington:
 - No activity to date in 2007. In 2006, WA identified their first human cases (n=3) in August and September. Evidence of WNV circulation in birds and mosquitoes was detected in 2005, and before that in corvids in 2002.
- Oregon:
 - **Activity noted in 6 counties.** Most along eastern border with Idaho with 2 northern counties bordering Washington: 10 mosquito pools, 1 equine and 9 dead birds positive. First activity noted at similar time last year.
 - Union county has declared state of emergency due to high mosquito infectivity rates.
- California:
 - **Increased WNV activity compared with last year; escalating activity in last 2 weeks**
 - 42 counties are reporting WNV activity; dispersed throughout the state (43 in 2006).
 - Humans: 80 cases, including 44 new in last 2 weeks; 5 deaths (38 cases in 2006)
 - Positive indicators:
 - 2007: 552 dead birds, 402 mosquito pools, 66 sentinel chicken flocks, 5 horses and 7 squirrels.
 - 2006: 443 dead birds, 349 mosquito pools, 83 sentinel chicken flocks
- Idaho:
 - Evidence of infection in southern counties and at the base of the panhandle (mid-state).
 - 17 human cases, 4 birds, 5 horses, 1 llama.
- Montana:
 - First evidence of WNV activity – 3 human cases, 3 birds, 24 mosquito pools, 1 moose. Closest positives to BC in Lake county, south of (but not bordering) E. Kootenays.

Other US states reporting WNV activity:

Data as of July 24; Sources: US CDC

Over the last 2 weeks, 5 new states began reporting human infections for a national cumulative total of 308 WNV infections and 11 fatalities in 25 states. This is considerably more than this time last year when 192 human cases from 20 states had been reported.

