

Summary of West Nile Virus Activity in Canada

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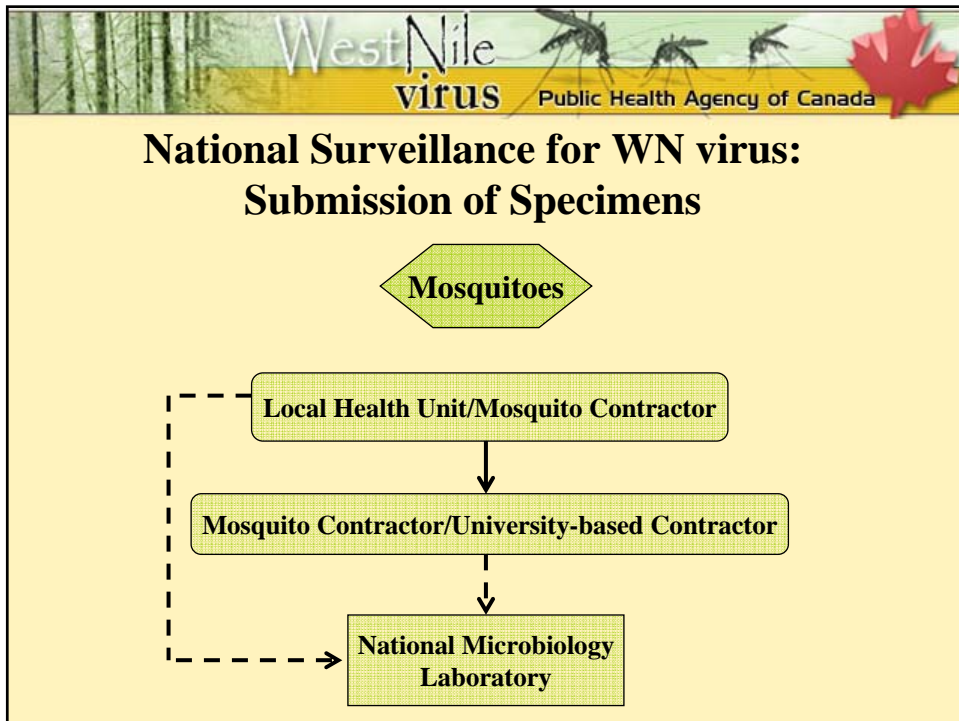
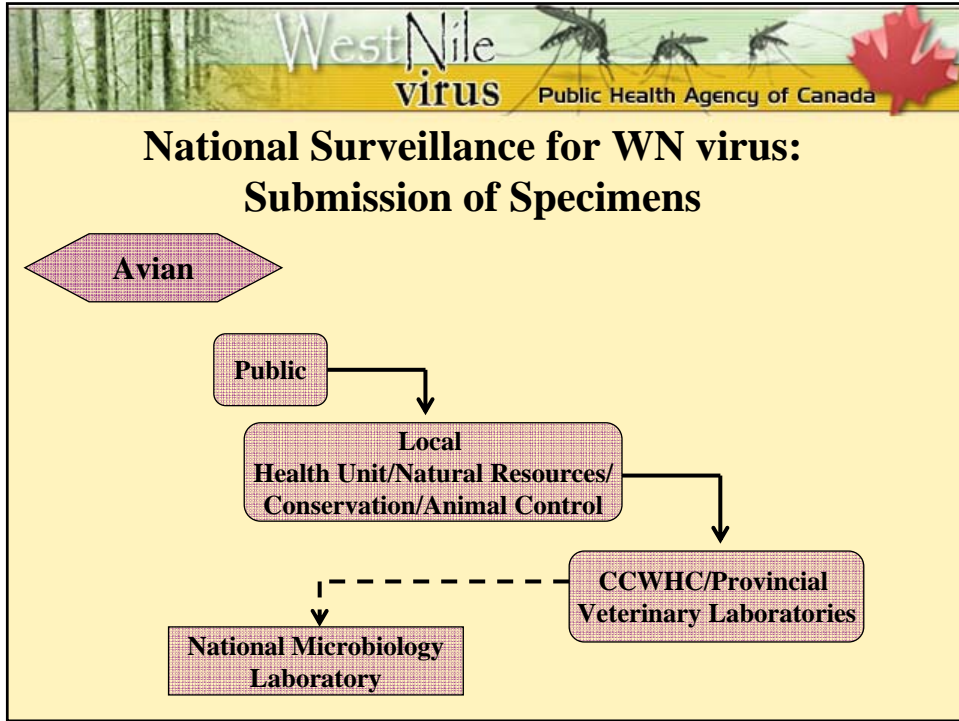
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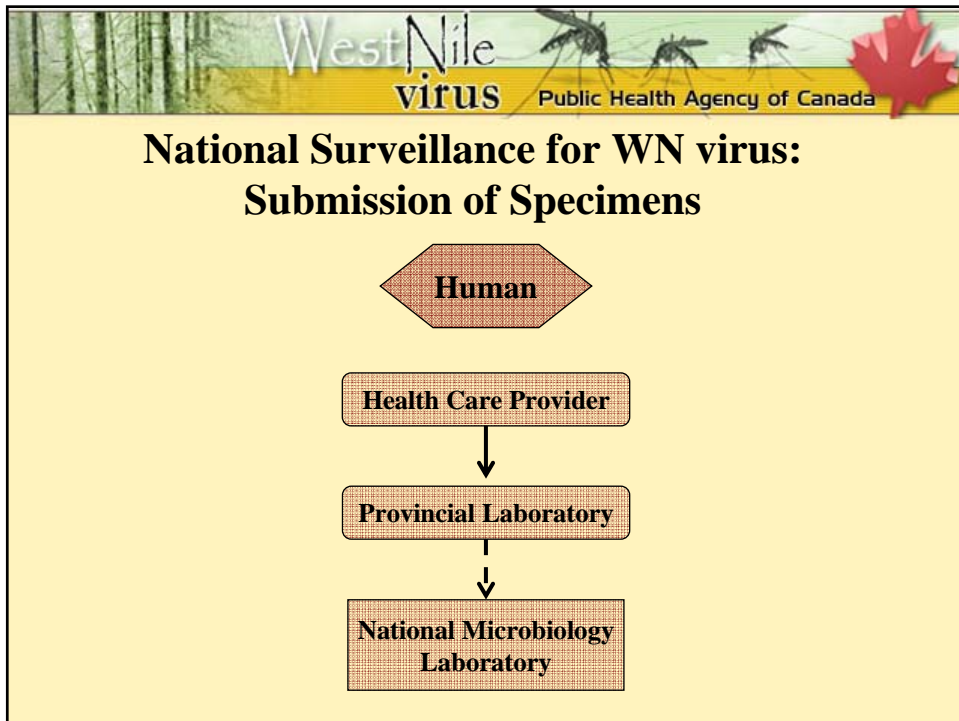
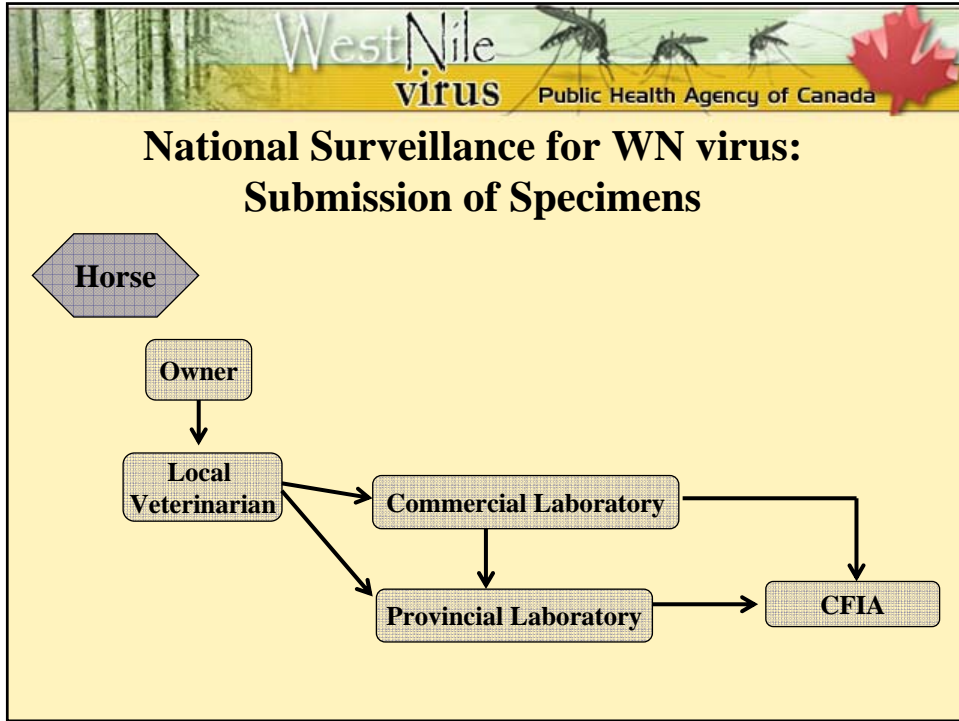
Surveillance in Canada: 2000 - 2005


- Monitoring activities include surveillance in:


- Birds
 - Dead birds
 - Sentinel Chickens
- Mosquitoes
- Horses
- Humans



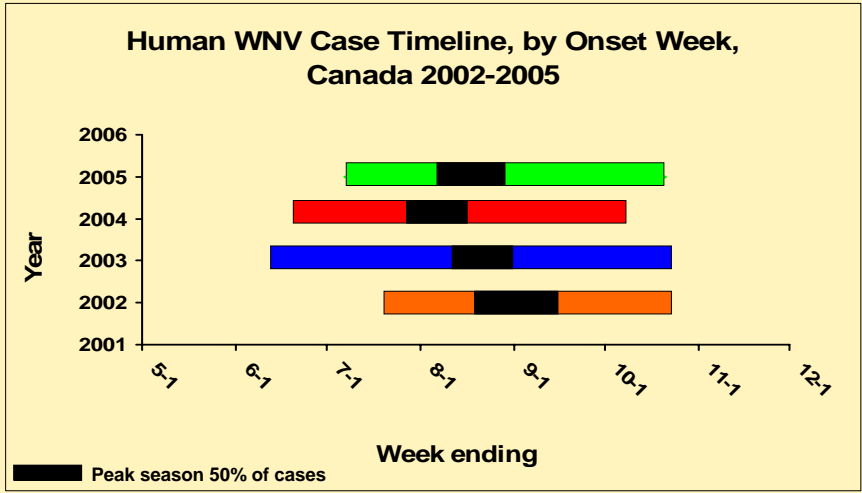





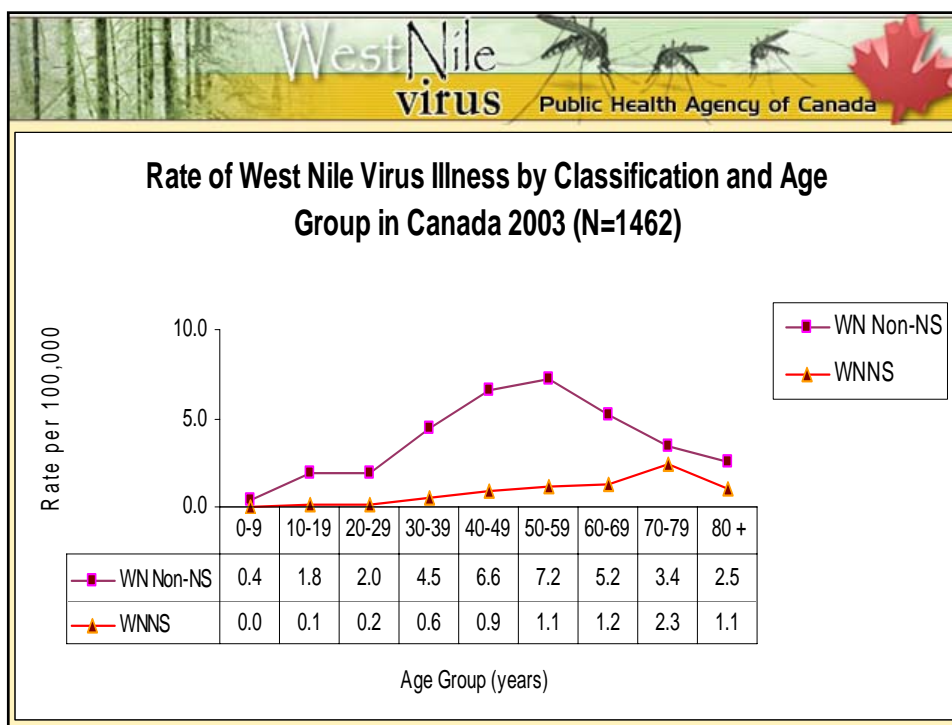
 National Surveillance 2003 - 2005: Case Classification				
	Suspect	Possible	Probable	Confirmed
WNV Neurological Syndromes (WNNS)				
WNV Non-Neurological Syndrome (WN Non-NS)				
WNV Asymptomatic Infection (WNAI)				

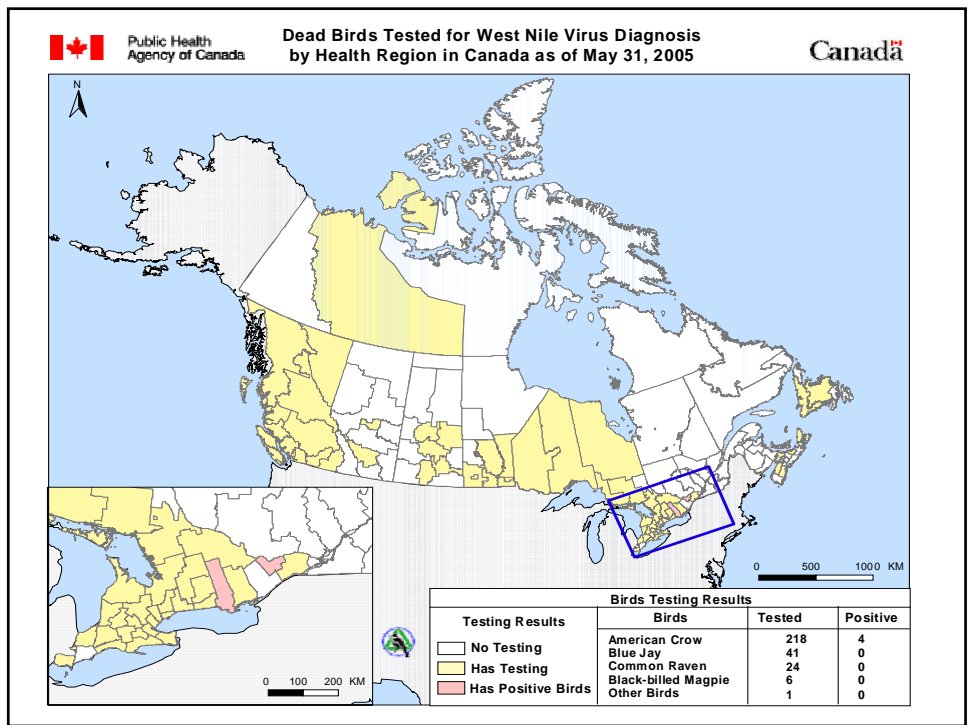
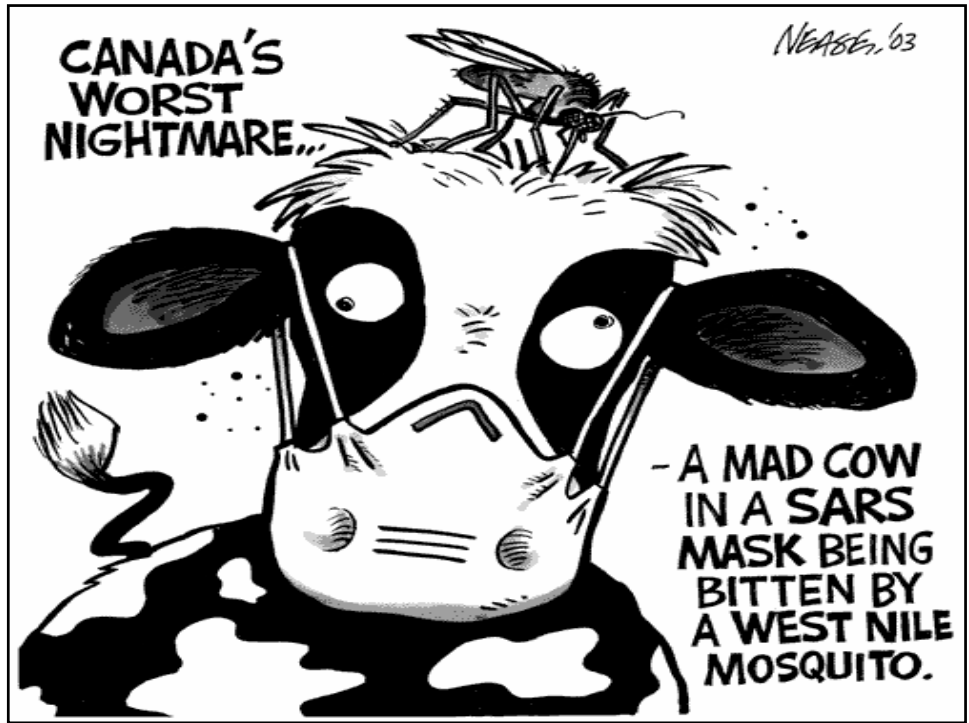
 Canada to the last week of December 2002-2005				
	2002	2003	2004	2005
Provinces with WN virus activity	NS, QC, ON, MB, SK	NS, NB, QC, ON, MB, SK, AB	QC, ON, MB, SK, AB	QC, ON, MB, SK, AB
Human cases ¹	426 (20)	1494 ⁴ (10)	26 ⁴ (0)	229 ⁴ (12)
Dead birds ²	556	1631 (11287)	416 (6208)	447 (3960)
Domestic Animals ³	356	445 ⁵	14 ⁵	3 ⁵
Mosquito Pools ²	305	570	176	695

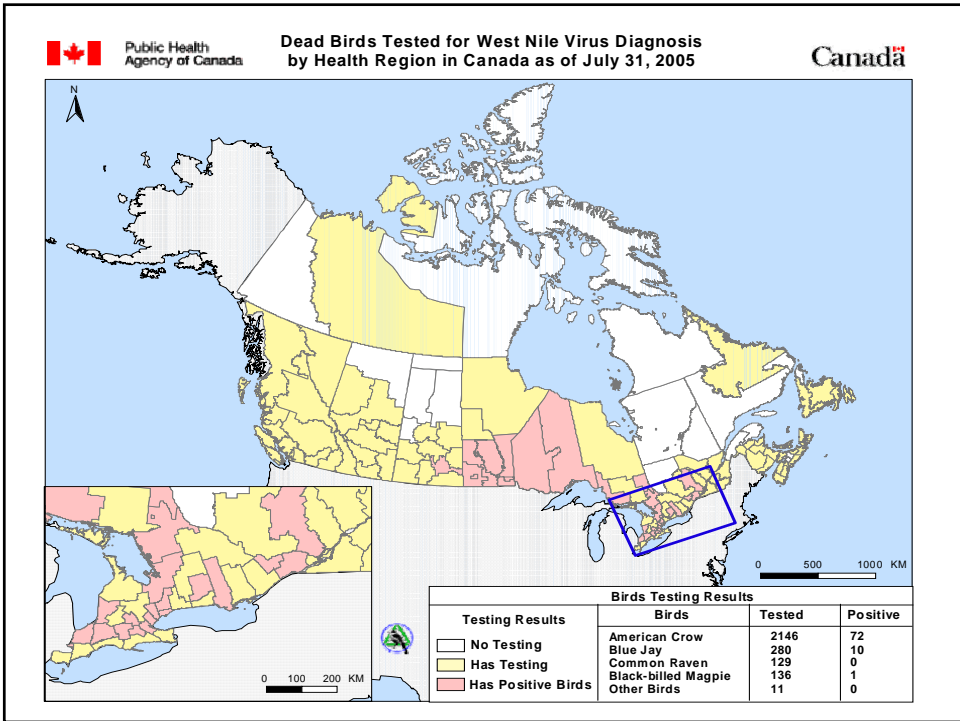
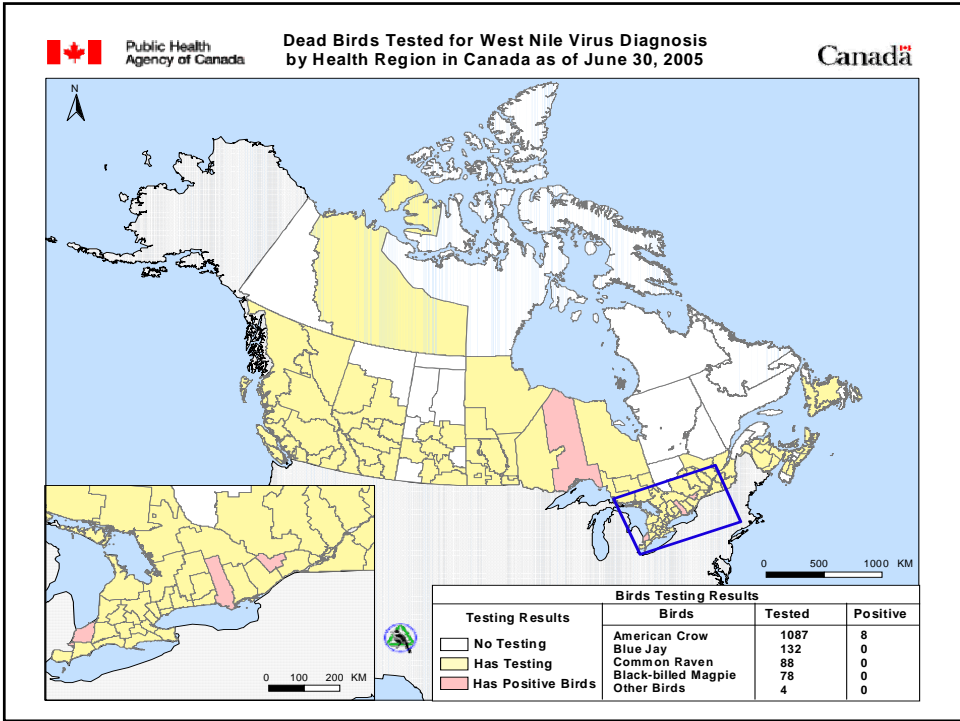
¹ probable and confirmed (number of deaths in brackets)
² confirmed positive (number tested in brackets)
³ presumed or confirmed
⁴ Several cases are related to travel outside Canada
⁵ These figures represent the number of positive results reported to the CFIA as per the Immediately Notifiable Disease Regulations

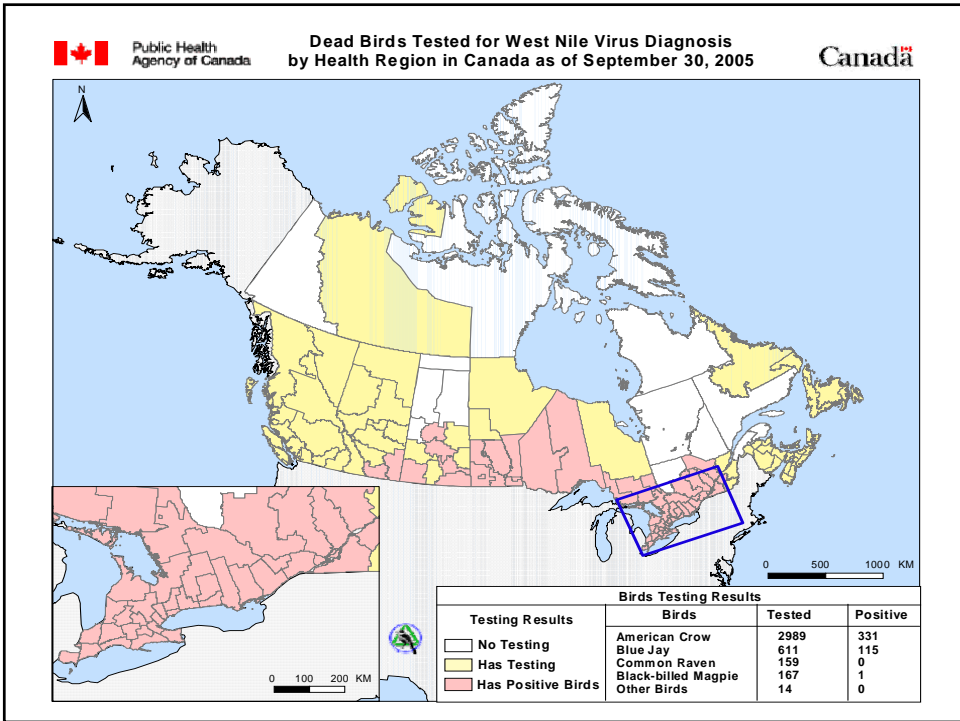
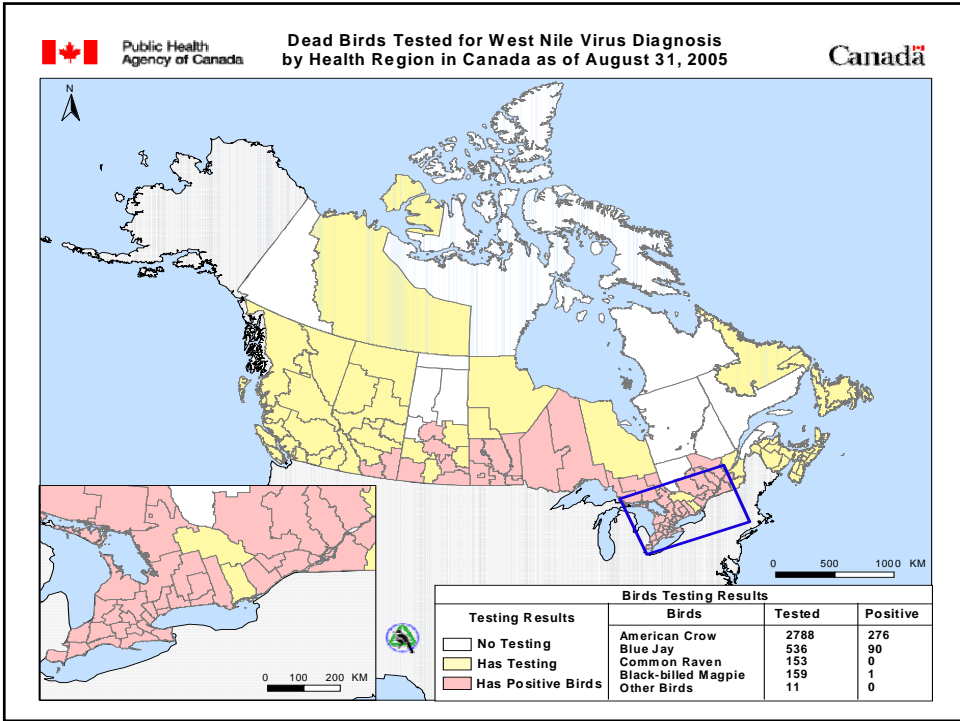


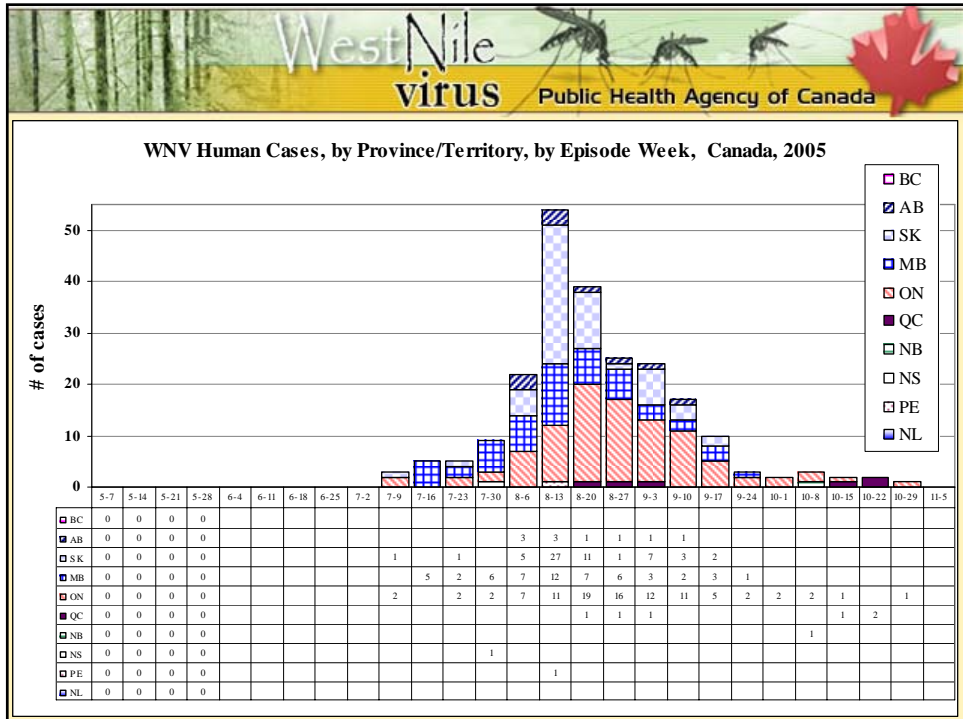
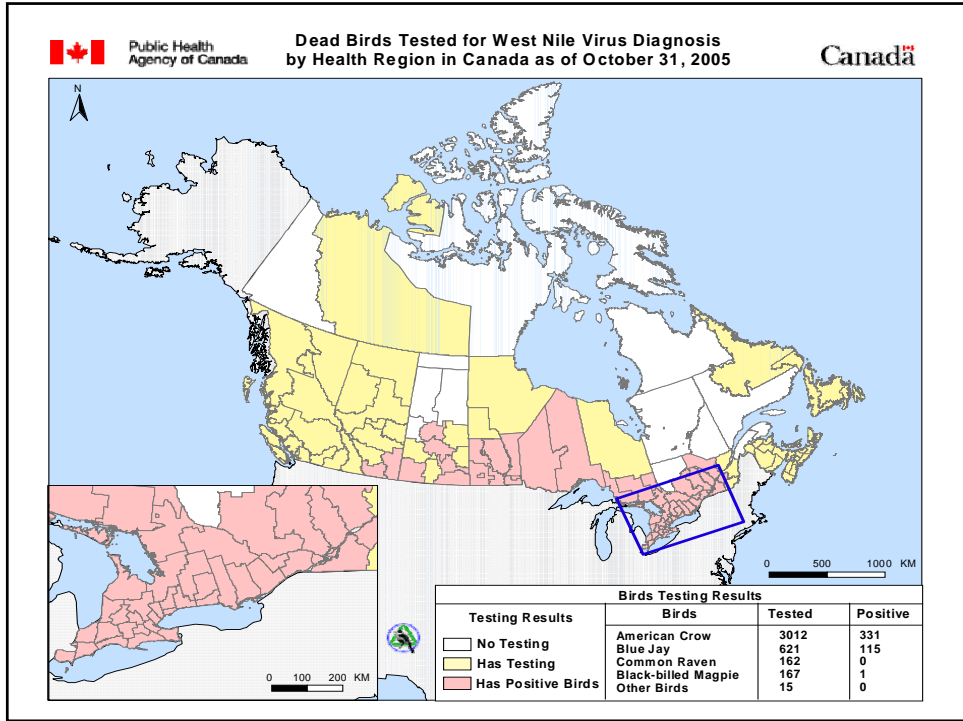
								
Human West Nile Virus Cases by Clinical Classification in Canada 2003-2005								
Year	N	N- (WNAI +U)	WNNS			WN-NonNS		
			Median Age	Age Range	N	Median Age	Age Range	N
2003	1494	1462	54	0-92	217	47	3-92	1245
2004	26	25	50	3-88	13	46	16-83	12
2005	229	215	60	14-87	49	47	6-92	166



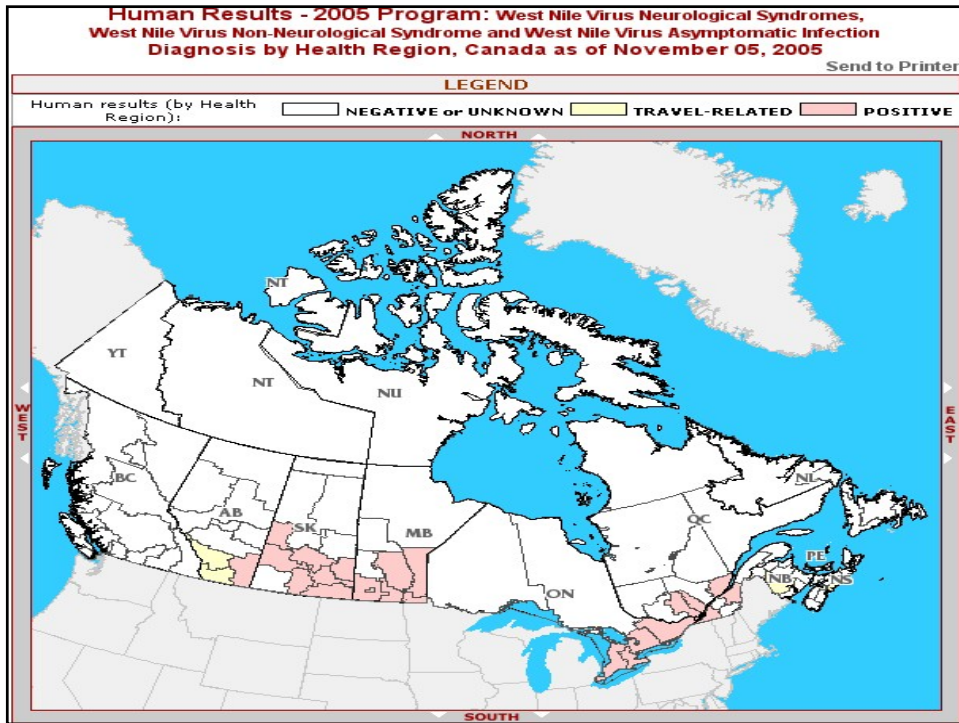
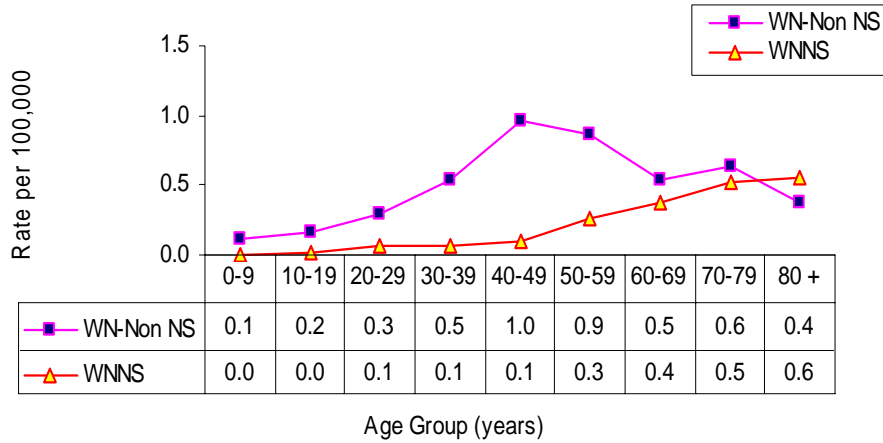




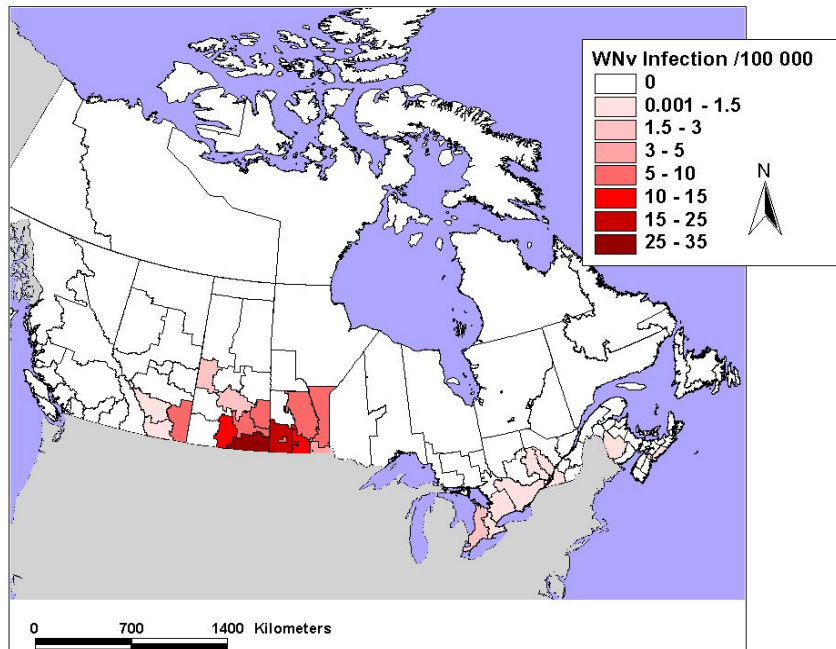




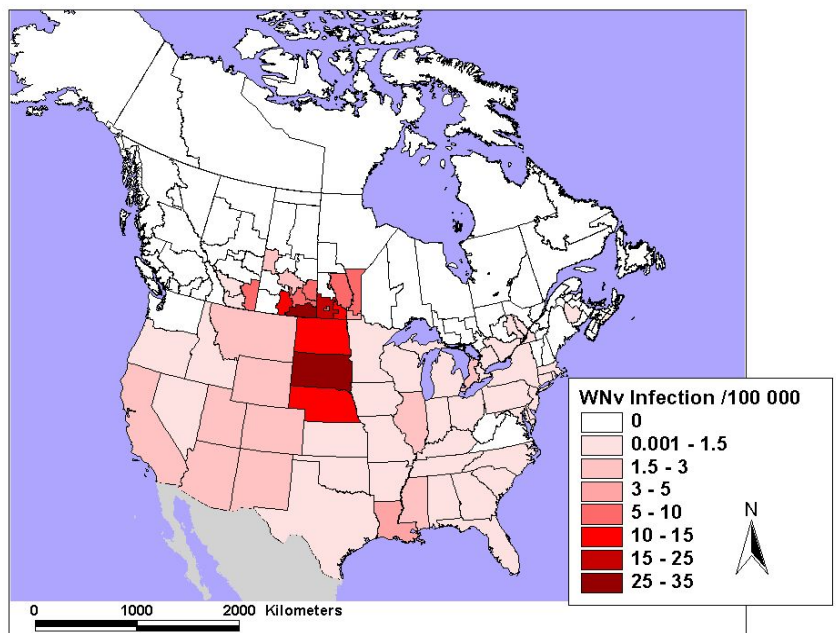
Rate of West Nile Virus Illness by Classification and Age Group in Canada 2005 (N=215)



Rates of Confirmed Human West Nile Virus Infection in Canada during 2005



Rates of Confirmed Human West Nile Virus Infection in Canada and the United States of America in 2005





Blood Screening for WNV in Canada

Blood Agencies


1. Hema-Quebec (1 province)
 2. Canadian Blood Services (9 provinces, 3 territories)
- Both use Roche platform
 - Both have developed close working relationships with public health partners



WNV Infection Detected through Donor Blood Screening

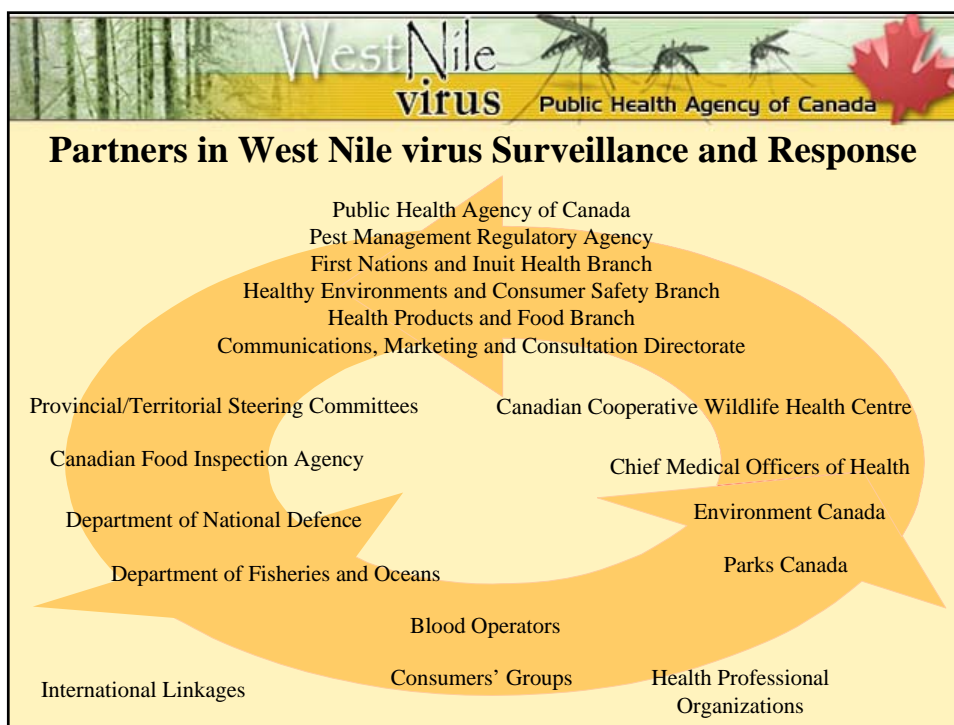
	2003		2004		2005	
Province	# Samples Tested	# Positive	# Samples Tested	# Positive	# Samples Tested	# Positive
NL					n/a	0
NS					n/a	0
NB					n/a	0
QC	n/a	0	n/a	0	n/a	1
ON	n/a	0	n/a	0	n/a	8*
MB	n/a	1	n/a	0	n/a	3
SK	n/a	10	n/a	0	n/a	3*
AB	n/a	3	n/a	0	n/a	1
BC/YK					n/a	0
Total	841,537	14	432,679	0	417,810	16

* One was not positive by alternate NAT



Serosurvey Results in Canada

	Year	Mean	95% CI
Ontario	2002	3.1%	2.2 – 4.0%
Manitoba	2003	3.2%	
Saskatchewan	2003	10%	7 – 13%
Alberta	2003	4.6%	2.8 – 6.8%
Quebec	2004	0.2%	0.1 – 0.5%





**For more information, please consult the
Public Health Agency of Canada's WNV
website at:**

www.westnilevirus.gc.ca

**Pour plus d'informations, consulter le site
Web d'Agence de santé publique du Canada
sur le virus du Nil occidental à l'adresse
suivante:**

www.virusduniloccidental.gc.ca