

**Table 1:** Total laboratory-confirmed influenza cases by city, Region of Peel

CITY	Report Period: February 8 - 14, 2009			Season to Date: September 1, 2008 - February 14, 2009		
	Total # Influenza	# Positive Tests by Agent		Total # Influenza	# Positive Tests by Agent	
		Influenza A	Influenza B		Influenza A	Influenza B
Brampton	1	0	1	33	12	21
Caledon	0	0	0	2	2	0
Mississauga	5	2	3	76	27	49
<b>TOTAL</b>	<b>6</b>	<b>2</b>	<b>4</b>	<b>111</b>	<b>41</b>	<b>70</b>

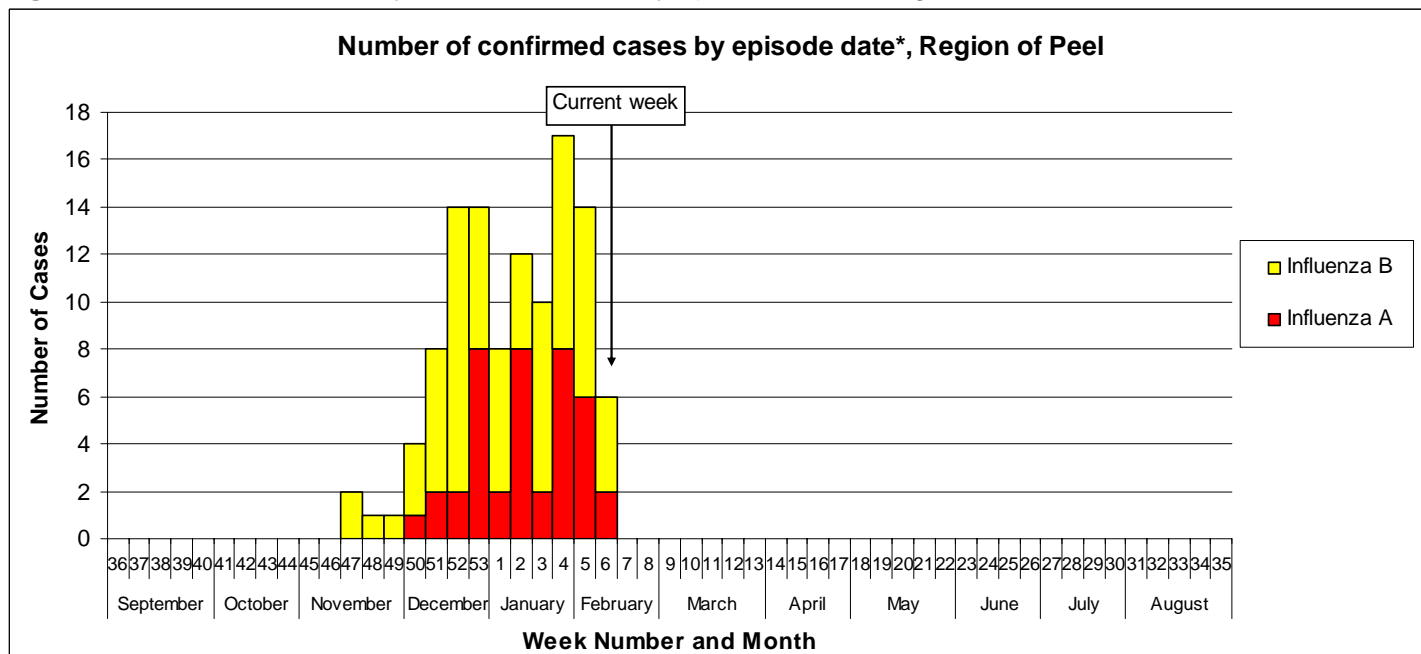
**Table 2:** Total laboratory-confirmed influenza cases by age grouping and agent, Region of Peel

Agent	Age Group				TOTAL
	0-12 years	13-19 years	20-64 years	65+ years	
Influenza A	18	3	15	5	41
Influenza B	42	9	15	4	70
<b>TOTAL</b>	<b>60</b>	<b>12</b>	<b>30</b>	<b>9</b>	<b>111</b>

**Table 3:** Additional influenza case statistics, Region of Peel

	Season to Date: September 1, 2008 - February 14, 2009
Total Cases <1 year of age	12
Average Age of Cases	20
Minimum Age	<1
Maximum Age	90

**Figure 1:** Number of laboratory-confirmed cases by episode date\*, Region of Peel, 2008-2009



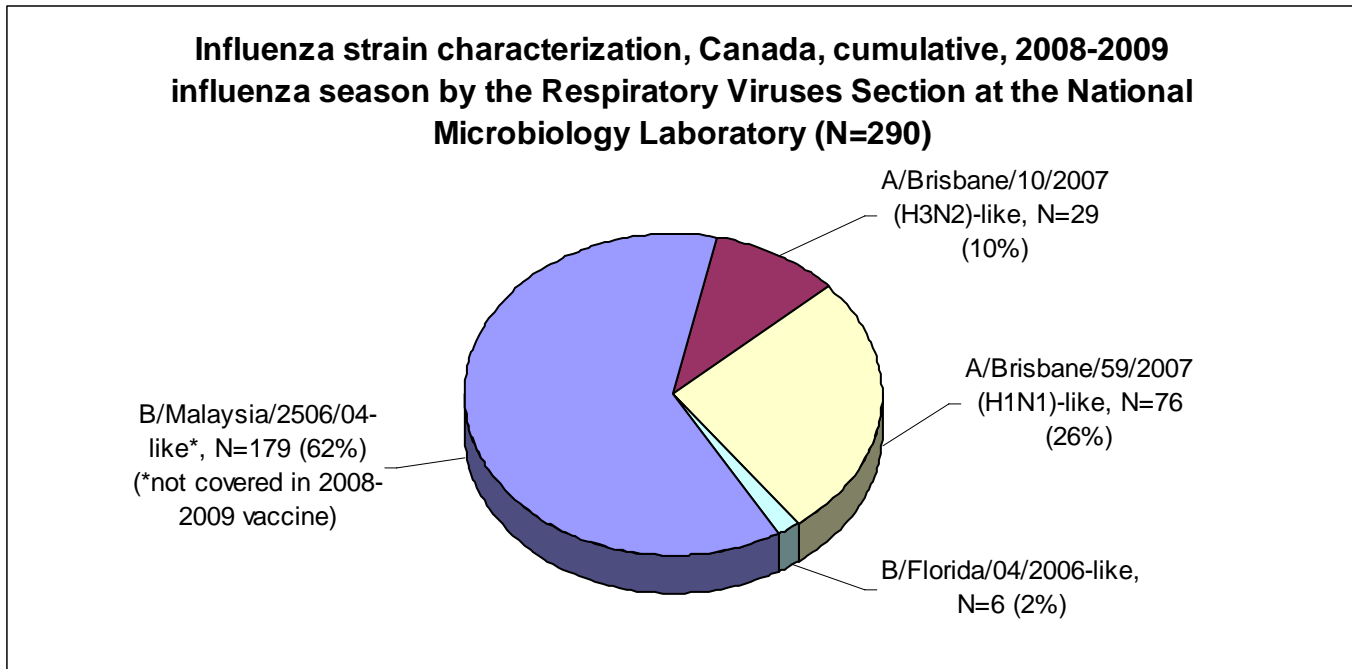
\*Episode Date refers to the best approximation of date of onset. If onset of symptoms is unknown, episode date refers to date reported to Health unit.

Source: All Peel Data from iPHIS, Region of Peel Health Department, as of February 17, 2009.

Disclaimer: Some case counts may be underreported due to delays in case classification or data entry. This report only includes confirmed cases as defined by the MOHLTC Cognos Training (for iPHIS): Report Studio Training Manual Appendix A.

**National Influenza data from FluWatch for the week of February 1 – 7, 2009**

**Figure 2:** Influenza strain characterization, Canada, cumulative, 2008-2009 influenza season by the Respiratory Viruses Section at the National Microbiology Laboratory



The trivalent vaccine for the 2008-2009 season in Canada contains:

- an A/Brisbane/59/2007 (H1N1)-like virus;
- an A/Brisbane/10/2007 (H3N2)-like virus or A/Uruguay/716/2007 NYMCCX-175C; and
- a B/Florida/4/2006-like virus.

**Summary of Antiviral Resistance:**

Since the start of the season, the National Microbiology Laboratory (NML) has tested 101 influenza A isolates (54 H1N1 and 47 H3N2) for amantadine resistance.

- All H1N1 isolates were sensitive
- All H3N2 isolates were resistant to amantadine (resistance = 100% or 47/47)
- Resistant isolates from BC, AB, SK, ON, QC, NL & NT

The NML also tested 180 influenza isolates (52 A/H1N1, 17 A/H3N2 & 111 B) for oseltamivir (Tamiflu) resistance.

- All A/H3N2 and B isolates were sensitive
- All A/H1N1 isolates were resistant to oseltamivir due to H274Y mutation (resistance = 100% or 52/52)
- Resistant isolates from BC, AB, ON, NS & PEI

Finally, 175 influenza isolates (45 A/H1N1, 18 A/H3N2 & 112 B) were tested for zanamivir resistance.

- All were sensitive

Source: FluWatch: February 1, 2009 – February 7, 2009 (Week 5). Public Health Agency of Canada (PHAC). [website: <http://www.phac-aspc.gc.ca/fluwatch/>]

**Provincial Influenza Update from the Ministry of Health and Long Term Care (MOHLTC)**

As presented in the February 13, 2009 Memorandum RE: Oseltamivir resistance:

- The majority of circulating influenza in the province continues to be influenza B

- As of February 5, 2009, 23 Ontario isolates of influenza A (16 A/H1N1, and 7 A/H3N2) have been tested for oseltamivir resistance
  - All H1N1 isolates were resistant to oseltamivir; all, however, were sensitive to both zanamivir and amantadine
  - All H3N2 isolates were sensitive to oseltamivir

Source: Ministry of Health and Long-Term Care (MOHLTC). Memorandum RE: Oseltamivir resistance identified in influenza A/H1N1 isolates: Second update of the 2008/09 season. February 13, 2009.

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**Please Note:** This is a pilot report that is currently being distributed to Infectious Disease Specialists practicing in Peel, and will be evaluated at the end of the 2008-2009 influenza season. If you have questions or comments regarding this report, please contact Nancy Lotecki, Supervisor, Communicable Diseases Surveillance, Peel Public Health at 905-791-7800 ext. 2773.