

## IN SUMMARY...

<b>Activity levels**</b>
<ul style="list-style-type: none"> <li>Western (Zone 1) is reporting sporadic activity. Northern (Zone 2) reporting localized activity. Eastern (Zone 3) and Central (Zone 4) are reporting no activity.</li> </ul>
<b>Laboratory-confirmed cases***</b>
<ul style="list-style-type: none"> <li>There were 4 influenza cases reported this week. There have been 296 lab confirmed cases of Influenza A this season and 7 Influenza B.</li> <li>Positive test results were received for Metapneumovirus, Mycoplasma pneumonia and RSV.</li> </ul>
<b>Severity</b>
<ul style="list-style-type: none"> <li>There have been 25 ICU admissions of laboratory confirmed influenza and 15 influenza deaths**** for the 2015-2016 influenza season.</li> </ul>
<b>Syndromic surveillance</b>
<ul style="list-style-type: none"> <li>The ILI rate for Nova Scotia this reporting period was 0.7</li> <li>97% of emergency departments reported ILI data for this period.</li> </ul>

**Notes:** \*Reporting weeks run from Sunday to Saturday. The 2015-2016 influenza season is defined using PHAC's influenza surveillance weeks. This year runs from August 30, 2015 (Week 35) to August 27, 2016 (Week 34);

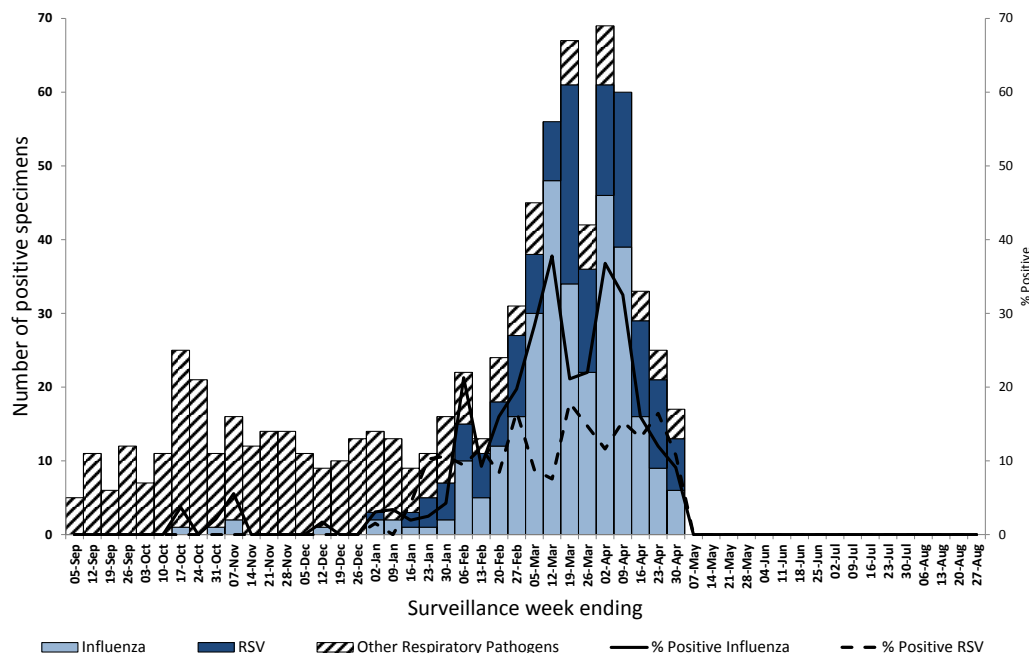
\*\*Activity level data is obtained from CNPHI, see appendix for definitions;

\*\*\* Only a limited number of specimens are subtyped and/or receive multiplex testing. For information on influenza testing for the 2015-2016 season, see the [outbreak response plan](#)

\*\*\*\*Deaths include individuals with a positive influenza test result, influenza may not have been the major contributing cause of death or hospitalization.

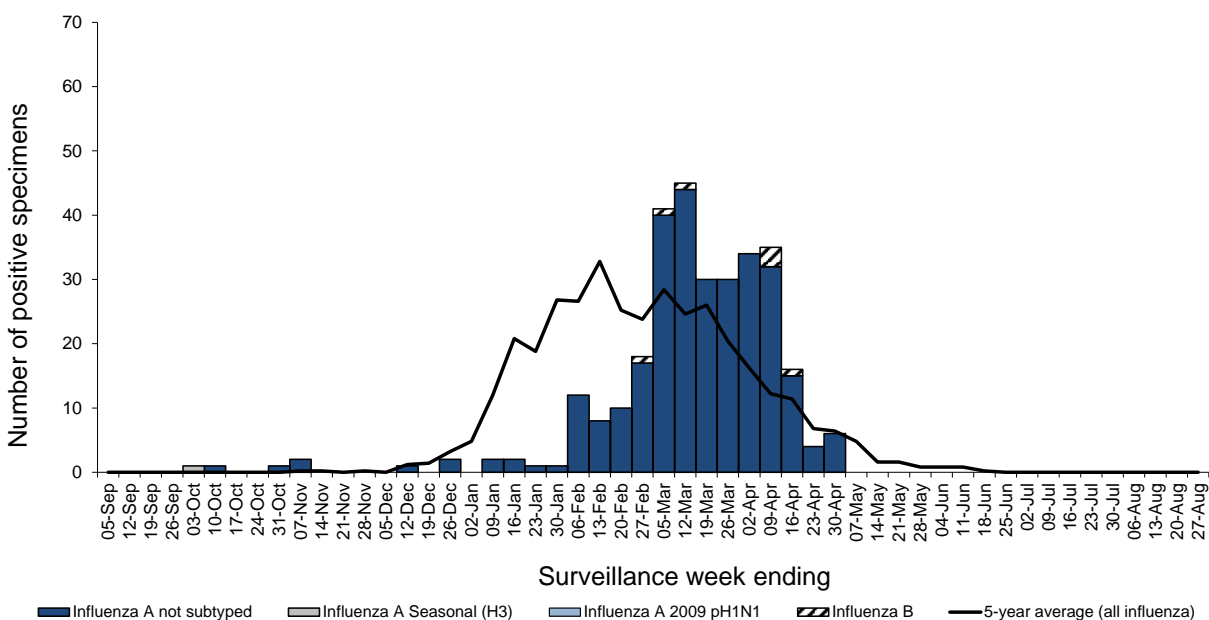
## LABORATORY-CONFIRMED CASES

**Figure 1: Number of respiratory specimens tested positive, and select percent positives, by report week, 2015-2016 season, Nova Scotia.**



\*Data for this figure is obtained from provincial laboratories. All other data, unless otherwise stated, has been obtained from ANDS. Reporting lags may cause the data in this figure to not reconcile with others.

**Figure 2: Number of reported lab-confirmed influenza cases by type and report week, 2015-2016 season, with trend-line comparison to 5-year average of all influenza cases, Nova Scotia.**



**Table 1: Number of total laboratory-confirmed influenza cases, current week and cumulative 2015-2016 season, by zones in Nova Scotia.**

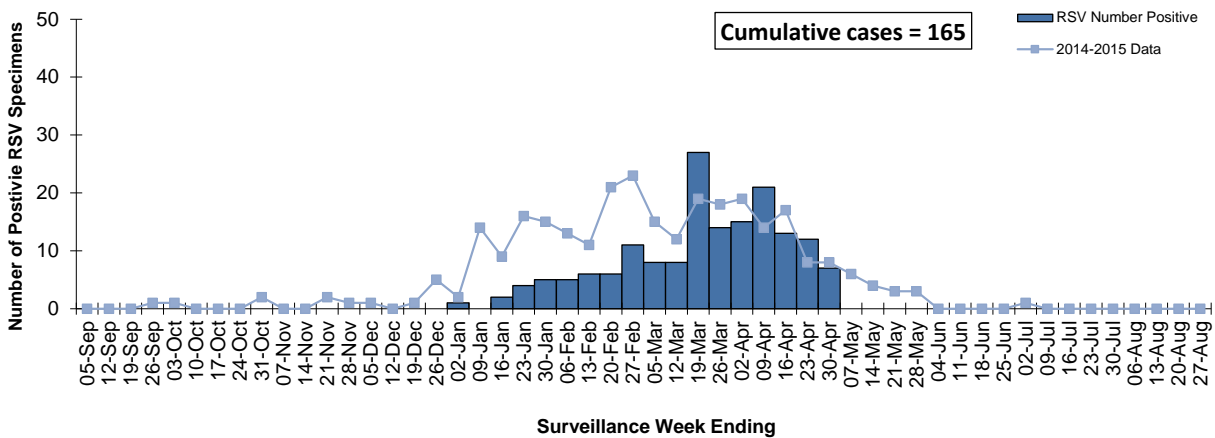
Zone*	Current Week					Cummulative 2015-2016				
	Total	Influenza A			Influenza B	Total	Influenza A			Influenza B
		A(H1) pdm09	A (H3)	A not subtyped			A(H1) pdm09	A (H3)	A not subtyped	
1 - Western	2	0	0	2	0	78	0	1	77	0
2 - Northern	0	0	0	0	0	32	0	0	31	1
3 - Eastern	0	0	0	0	0	79	0	0	76	3
4 - Central	2	0	0	2	0	108	0	0	105	3
<b>Nova Scotia Total</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>297</b>	<b>0</b>	<b>1</b>	<b>289</b>	<b>7</b>

\*Zones are defined in the appendix.

**Table 2: Number of total laboratory-confirmed influenza cases, current week and cumulative 2015-2016 season, by age group in Nova Scotia.**

Age	Current Week					Cummulative 2015-2016				
	Total	Influenza A			Influenza B	Total	Influenza A			Influenza B
		A(H1) pdm09	A (H3)	A not subtyped			A(H1) pdm09	A (H3)	A not subtyped	
0-4	0	0	0	0	0	30	0	0	30	0
5-19	0	0	0	0	0	24	0	0	24	0
20-44	1	0	0	1	0	32	0	0	31	1
45-64	1	0	0	1	0	88	0	0	86	2
65+	4	0	0	4	0	130	0	1	125	4
<b>Nova Scotia Total</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>304</b>	<b>0</b>	<b>1</b>	<b>296</b>	<b>7</b>

**Figure 3: Number of positive RSV specimens by report week, 2015-2016 season, with trend-line comparison to 2014-2015, Nova Scotia.**



**Table 3: Number of positive RSV specimens by age group, 2015-2016 season, Nova Scotia.**

Age Group	RSV
0-5 months	49
6-11 months	20
12-23 months	33
2-5 years	22
6-15 years	2
16-65 years	7
65+ years	32
<b>Nova Scotia Total</b>	<b>165</b>

## SEVERITY

**Table 4: Hospitalizations, ICU admissions and deaths for influenza positive patients, current week and cumulative, 2015-2016 season, Nova Scotia.**

Pathogen	Current surveillance week			Cumulative 2015-2016		
	Hospitalized*	ICU	Death**	Hospitalized	ICU	Death
Influenza A (H1) pdm09	0	0	0	0	0	0
Influenza A unsubtype	0	1	0	167	25	15
Influenza A (H3)	0	0	0	1	0	0
Influenza B	0	0	0	6	0	0
<b>Nova Scotia Total</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>174</b>	<b>25</b>	<b>15</b>

\*Hospitalizations do not include ICU admissions; \*\*Deaths include individuals with a positive influenza test result, influenza may not have been the major contributing cause of death or hospitalization.

## SYNDROMIC SURVEILLANCE

Figure 4: Percentage of emergency room visits due to ILI by week, 2015-2016 season, with trend-line comparison to 2014-2015, Nova Scotia.

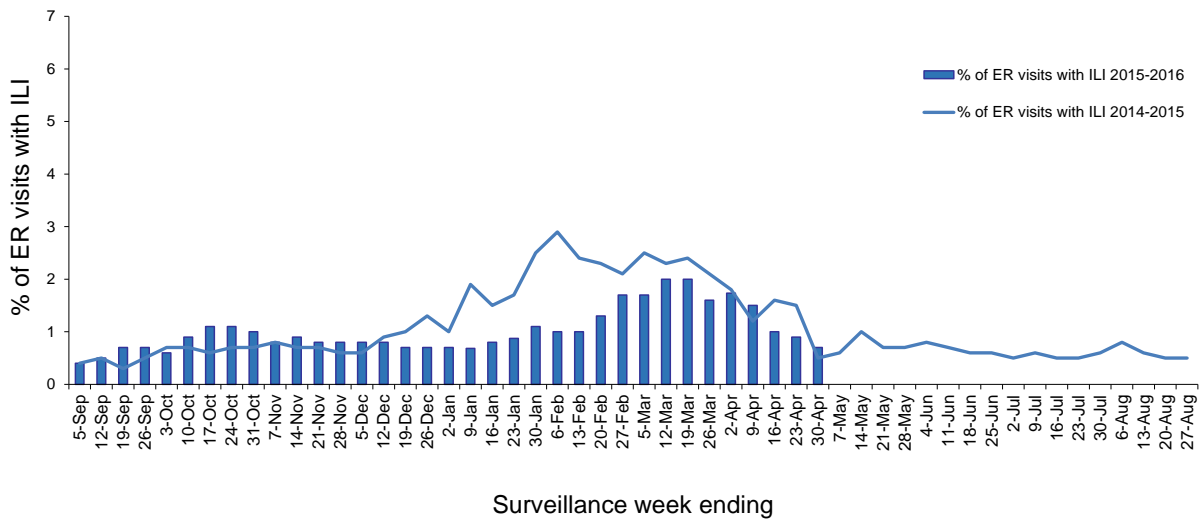


Table 5: Current week ILI reporting from emergency departments by zones, 2015-2016 season, Nova Scotia.

Zone	ILI (%)	Number of reporting ERs	Number of ERs	ERs reporting (%)
1 - Western	0.2	9	9	100.0
2 - Northern	0.4	8	8	100.0
3 - Eastern	0.6	13	14	92.9
4 - Central	1.3	7	7	100.0
IWK	5.1	2	2	100.0
Nova Scotia Total (excl IWK)	0.4	37	38	97.4
Nova Scotia Total (incl IWK)	0.7	39	40	97.5

## OTHER RESPIRATORY PATHOGENS

**Table 6: Total number of specimens tested and number (%) positive for other respiratory pathogens, by report week and cumulative season, Nova Scotia, 2015–2016.**

Pathogen	Surveillance Week			Cumulative Season-to-Date Totals		
	n tested	n positive	% positive	n tested	n positive	% positive
Adenovirus	5	0	0.0	402	16	4.0
Bocavirus	5	0	0.0	407	3	0.7
Chlamydophila pneumoniae	7	0	0.0	662	2	0.3
Coronavirus	5	0	0.0	402	14	3.5
Enterovirus	5	0	0.0	402	5	1.2
Metapneumovirus	5	3	60.0	402	16	4.0
Mycoplasma pneumoniae	7	1	14.3	662	134	20.2
Parainfluenza	5	0	0.0	402	15	3.7
Pertussis	17	0	0.0	649	54	8.3
Respiratory Syncytial Virus	65	7	10.8	1988	165	8.3
Rhinovirus	5	0	0.0	390	51	13.1

## APPENDIX: DEFINITIONS USED IN INFLUENZA SURVEILLANCE, AND USEFUL LINKS, 2015-2016

### ACRONYM LIST

<b>CNPHI</b>	Canadian Network for Public Health Intelligence
<b>DHA</b>	District Health Authority
<b>ICU</b>	Intensive care unit
<b>ILI</b>	Influenza-like illness
<b>LTCF</b>	Long-term care facility
<b>RSV</b>	Respiratory syncytial virus

### ILI CASE DEFINITION

Acute onset of respiratory illness with fever and cough and with one or more of the following – sore throat, arthralgia, myalgia or prostration which is likely due to influenza. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not be prominent.

### OUTBREAK DEFINITIONS

<b>Schools and daycares</b>	Greater than 10% absenteeism (or absenteeism that is higher (e.g. >5-10%) than expected level as determined by the school or public health authority) which is likely due to ILI.
<b>Hospitals and residential institutions</b>	Two or more cases of ILI within a seven-day period, including at least one laboratory confirmed case. Institutional outbreaks should be reported within 24 hours of identification. Residential institutions include, but are not limited to, long-term care facilities (LTCF) and prisons.
<b>Other settings</b>	Two or more cases of ILI within a seven-day period, including at least one laboratory confirmed case (i.e. closed communities).

### NATIONAL FLUWATCH DEFINITIONS FOR INFLUENZA ACTIVITY LEVELS

<b>No activity</b>	No laboratory-confirmed influenza detections in the reporting week, however, sporadically occurring ILI* may be reported
<b>Sporadic</b>	Sporadically occurring ILI* and lab confirmed influenza detection(s) with <b>no outbreaks</b> detected within the influenza surveillance region
<b>Localized</b>	<ol style="list-style-type: none"> <li>(1) Evidence of increased ILI* and</li> <li>(2) lab confirmed influenza detection(s) together with</li> <li>(3) outbreaks occurring in schools, hospitals, residential institutions and/or other types of facilities occurring in less than 50% of the influenza surveillance region</li> </ol>
<b>Widespread</b>	<ol style="list-style-type: none"> <li>(1) Evidence of increased ILI* and</li> <li>(2) lab confirmed influenza detection(s) together with</li> <li>(3) outbreaks occurring in schools, hospitals, residential institutions and/or other types of facilities occurring in greater than or equal to 50% of the influenza surveillance region</li> </ol>

### LINKS TO OTHER WEEKLY INFLUENZA REPORTING BODIES

Canada: <http://www.phac-aspc.gc.ca/fluwatch/>  
 World: [https://www.who.int/influenza/surveillance\\_monitoring/updates/latest\\_update\\_GIP\\_surveillance/en/index.html](https://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/index.html)  
 US: [www.cdc.gov/flu/weekly](http://www.cdc.gov/flu/weekly)