

# Respiratory Virus Detections in Canada

## Respiratory Virus Report, Week 44 - ending November 2, 2019

The Respiratory Virus Detection Surveillance System collects data from select laboratories across Canada on the number of tests performed and the number of tests positive for influenza and other respiratory viruses. Data are reported on a weekly basis year-round to the Centre for Immunization and Respiratory Infectious Diseases (CIRID), Public Health Agency of Canada. These data are also summarized in the weekly FluWatch report.

**Table 1: Respiratory Virus Detections/Isolations for the week ending November 2, 2019 (Reporting Week 201944)**

Reporting Laboratory	Flu Tested	A(H1N1)pdm09 Positive	A(H3) Positive	A(UnS) Positive	Total Flu A Positive	Total Flu B Positive	RSV Tested	RSV Positive	PIV Tested	PIV 1 Positive	PIV 2 Positive	PIV 3 Positive	PIV 4 Positive	Other PIV Positive	Adeno Tested	Adeno Positive	hMPV Tested	hMPV Positive	Entero/Rhino Tested	Entero/Rhino Positive	Coron Tested	Coron Positive
Newfoundland	86	0	2	1	3	0	86	1	86	2	0	0	0	0	86	4	86	1	86	15	N.A.	N.A.
Prince Edward Island	18	0	0	0	0	0	18	0	2	0	0	0	0	0	2	0	2	0	2	1	2	0
Nova Scotia	64	0	0	0	0	0	64	0	16	2	0	0	0	0	21	0	21	0	21	7	21	0
New Brunswick	113	0	0	0	0	0	113	2	43	2	0	0	0	0	43	1	43	0	43	14	43	0
<b>Atlantic</b>	<b>281</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>281</b>	<b>3</b>	<b>147</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>152</b>	<b>5</b>	<b>152</b>	<b>1</b>	<b>152</b>	<b>37</b>	<b>66</b>	<b>0</b>
Région Nord-Est	69	0	0	0	0	0	58	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	190	0	0	2	2	0	200	1	85	1	1	0	2	0	89	4	72	1	N.A.	N.A.	72	0
Centre-du-Québec	130	0	0	1	1	0	122	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	666	0	0	8	8	4	657	16	398	5	0	0	0	0	398	19	394	0	N.A.	N.A.	394	2
Ouest du Québec	210	0	0	3	3	1	211	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	140	0	0	0	0	0	140	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>1405</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>5</b>	<b>1388</b>	<b>28</b>	<b>483</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>487</b>	<b>23</b>	<b>466</b>	<b>1</b>	<b>N.A.</b>	<b>N.A.</b>	<b>466</b>	<b>2</b>
P.H.O.L. - Ottawa	27	0	3	0	3	0	27	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
CHEO - Ottawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - Kingston	15	0	0	0	0	0	15	0	10	0	0	0	0	0	10	0	10	0	0	0	0	0
UHN / Mount Sinai Hospital	251	0	0	0	0	0	251	5	19	2	0	0	0	0	0	0	19	0	0	0	N.A.	N.A.
P.H.O.L. - Toronto	407	0	1	0	1	3	407	5	393	5	0	0	0	0	393	3	382	0	11	0	0	0
Sick Kids Hospital - Toronto	41	0	0	0	0	1	41	1	41	1	0	0	0	0	41	2	41	0	41	14	41	0
Sunnybrook & Women's College HSC	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	2	13	0	13	0	13	0
P.H.O.L. - Sault Ste. Marie	9	0	0	0	0	0	9	0	9	1	0	0	0	0	9	0	9	0	0	0	0	0
P.H.O.L. - Timmins	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	1	0	0	0
St. Joseph's - London	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - London	62	1	0	0	1	0	61	2	58	1	0	0	0	0	58	1	57	0	3	0	0	0
P.H.O.L. - Orillia	19	0	0	0	0	0	19	0	16	2	0	0	0	0	16	0	16	0	0	0	0	0
P.H.O.L. - Thunder Bay	8	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
P.H.O.L. - Sudbury	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	0	0	0	0
P.H.O.L. - Hamilton	72	0	0	0	0	0	72	2	68	3	0	0	0	0	68	0	68	0	0	0	0	0
P.H.O.L. - Peterborough	28	0	0	0	0	0	28	0	22	1	0	0	0	0	22	0	22	0	0	0	0	0
<b>Province of Ontario</b>	<b>971</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>5</b>	<b>4</b>	<b>968</b>	<b>15</b>	<b>681</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>662</b>	<b>8</b>	<b>669</b>	<b>0</b>	<b>69</b>	<b>14</b>	<b>54</b>	<b>0</b>
Manitoba	249	2	2	9	13	1	249	5	114	5	0	1	0	0	114	7	89	0	114	22	89	1
Regina	172	0	0	4	4	0	172	0	94	5	0	0	1	0	94	4	94	0	94	41	94	0
Saskatoon	185	0	0	1	1	0	185	0	185	6	1	0	0	0	185	5	185	1	185	27	185	0
Saskatchewan	357	0	0	5	5	0	357	0	279	11	1	0	1	0	279	9	279	1	279	68	279	0
Alberta	696	10	14	4	28	7	586	0	586	19	0	0	4	0	586	13	586	5	586	109	586	4
<b>Prairies</b>	<b>1302</b>	<b>12</b>	<b>16</b>	<b>18</b>	<b>46</b>	<b>8</b>	<b>1192</b>	<b>5</b>	<b>979</b>	<b>35</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>979</b>	<b>29</b>	<b>954</b>	<b>6</b>	<b>979</b>	<b>199</b>	<b>954</b>	<b>5</b>
<b>Province of British Columbia</b>	<b>681</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>18</b>	<b>0</b>	<b>677</b>	<b>10</b>	<b>216</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>216</b>	<b>3</b>	<b>216</b>	<b>0</b>	<b>177</b>	<b>39</b>	<b>177</b>	<b>3</b>
Yukon	70	0	0	1	1	0	70	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0	0
Northwest Territories	8	3	0	0	3	0	8	0	8	0	0	0	0	0	8	0	8	1	8	3	8	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1	0
<b>Territories</b>	<b>79</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>79</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>1</b>	<b>9</b>	<b>4</b>	<b>9</b>	<b>0</b>
<b>CANADA</b>	<b>4719</b>	<b>16</b>	<b>23</b>	<b>42</b>	<b>90</b>	<b>17</b>	<b>4585</b>	<b>61</b>	<b>2515</b>	<b>67</b>	<b>2</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>2505</b>	<b>68</b>	<b>2466</b>	<b>9</b>	<b>1386</b>	<b>293</b>	<b>1726</b>	<b>10</b>

Specimens from Yukon (YT), Northwest Territories (NT) and Nunavut (NU) are sent to reference laboratories in other provinces and reported results reflect specimens identified as originating from YT, NT or NU.

Results from British Columbia comprise of specimens from the following sites: BC Children's and Women's Hospital, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Victoria Coastal Health, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

Delays in the reporting of data may cause data to change retrospectively.

For British Columbia, only data from subtyped influenza A specimens are included in the weekly number of influenza detections. The sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

**Table 2: Respiratory Virus Detections/Isolations for the period August 25, 2019 - November 2, 2019 (Reporting Weeks 201935-201944)**

Reporting Laboratory	Flu Tested	A(H1N1)pdm09 Positive	A(H3) Positive	A(UnS) Positive	Total Flu A Positive	Total Flu B Positive	RSV Tested	RSV Positive	PIV Tested	PIV 1 Positive	PIV 2 Positive	PIV 3 Positive	PIV 4 Positive	Other PIV Positive	Adeno Tested	Adeno Positive	hMPV Tested	hMPV Positive	Entero/Rhino Tested	Entero/Rhino Positive	Coron Tested	Coron Positive
Newfoundland	592	0	3	1	4	0	592	1	592	18	0	3	0	0	592	15	592	1	592	164	N.A.	N.A.
Prince Edward Island	76	0	0	0	0	0	76	0	12	0	0	0	0	0	12	0	12	0	12	7	12	0
Nova Scotia	319	0	0	1	1	1	324	0	149	7	0	1	0	0	154	3	154	0	154	43	154	0
New Brunswick	1082	1	1	3	5	1	1023	3	466	15	0	0	2	0	466	18	466	0	466	141	466	0
<b>Atlantic</b>	<b>2069</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>10</b>	<b>2</b>	<b>2015</b>	<b>4</b>	<b>1219</b>	<b>40</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>1224</b>	<b>36</b>	<b>1224</b>	<b>1</b>	<b>1224</b>	<b>355</b>	<b>632</b>	<b>0</b>
Région Nord-Est	359	0	0	0	0	0	314	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	819	0	0	6	6	0	950	1	834	5	3	1	2	0	857	21	705	2	N.A.	N.A.	710	0
Centre-du-Québec	585	0	0	3	3	2	549	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	5566	0	0	41	41	11	5636	76	4046	51	2	3	4	0	4046	158	3812	10	N.A.	N.A.	3993	15
Ouest du Québec	1079	0	0	61	61	1	1063	15	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	766	0	0	8	8	1	764	15	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>9174</b>	<b>0</b>	<b>0</b>	<b>119</b>	<b>119</b>	<b>15</b>	<b>9276</b>	<b>112</b>	<b>4880</b>	<b>56</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>0</b>	<b>4903</b>	<b>179</b>	<b>4517</b>	<b>12</b>	<b>N.A.</b>	<b>N.A.</b>	<b>4703</b>	<b>15</b>
P.H.O.L. - Ottawa	184	0	3	0	3	0	182	0	151	2	0	0	0	0	151	0	147	0	5	0	0	0
CHEO - Ottawa	938	0	0	4	4	2	938	14	211	1	0	2	5	0	211	4	211	0	214	67	205	0
P.H.O.L. - Kingston	172	0	1	0	1	0	172	1	165	1	0	0	0	0	165	0	163	0	6	1	0	0
UHN / Mount Sinai Hospital	1984	0	0	10	10	6	1984	18	162	2	0	6	2	0	0	0	162	4	0	0	N.A.	N.A.
P.H.O.L. - Toronto	2527	2	15	0	17	4	2527	8	2450	32	0	3	0	0	2450	12	2376	5	93	0	0	0
Sick Kids Hospital - Toronto	399	0	0	0	0	1	399	11	399	11	1	1	4	0	399	6	399	6	399	144	399	0
Sunnybrook & Women's College HSC	70	0	0	0	0	0	70	0	70	0	0	0	0	0	70	2	70	0	70	5	70	0
P.H.O.L. - Sault Ste. Marie	47	0	0	0	0	0	47	0	47	1	0	0	0	0	47	0	46	0	1	0	0	0
P.H.O.L. - Timmins	30	0	0	0	0	0	30	0	30	0	0	0	0	0	30	0	30	0	2	0	0	0
St. Joseph's - London	117	0	0	0	0	0	117	1	117	2	1	0	0	0	117	3	117	0	116	37	115	0
P.H.O.L. - London	473	1	0	0	1	0	472	6	457	7	0	0	0	0	457	4	444	0	25	0	0	0
P.H.O.L. - Orillia	184	0	1	0	1	0	184	0	179	4	0	0	0	0	179	0	178	0	3	0	0	0
P.H.O.L. - Thunder Bay	56	0	0	0	0	0	54	0	54	0	0	1	0	0	54	0	47	0	8	0	0	0
P.H.O.L. - Sudbury	77	0	0	0	0	0	76	0	76	0	0	1	0	0	76	1	69	0	8	0	0	0
P.H.O.L. - Hamilton	613	1	2	0	3	1	607	6	584	9	1	0	0	0	584	2	574	1	14	0	0	0
P.H.O.L. - Peterborough	247	0	0	0	0	2	244	4	237	1	0	0	0	0	237	2	237	0	3	0	0	0
<b>Province of Ontario</b>	<b>8118</b>	<b>4</b>	<b>22</b>	<b>14</b>	<b>40</b>	<b>16</b>	<b>8103</b>	<b>69</b>	<b>5389</b>	<b>73</b>	<b>3</b>	<b>14</b>	<b>11</b>	<b>0</b>	<b>5227</b>	<b>36</b>	<b>5270</b>	<b>16</b>	<b>967</b>	<b>254</b>	<b>789</b>	<b>0</b>
Manitoba	2263	2	3	12	17	11	2263	12	1457	12	1	2	1	0	1457	26	707	3	1457	284	707	4
Regina	2048	0	0	22	22	2	2048	6	1139	12	0	0	4	0	1139	20	1032	1	1139	389	1139	0
Saskatoon	1203	0	0	4	4	0	1203	8	1203	37	2	3	1	0	1203	36	1206	1	1203	351	1203	2
Saskatchewan	3251	0	0	26	26	2	3251	14	2342	49	2	3	5	0	2342	56	2338	2	2342	740	2342	2
Alberta	6046	18	64	26	108	24	5309	0	5309	101	13	10	20	0	5309	95	5309	22	5309	1639	5309	15
<b>Prairies</b>	<b>11560</b>	<b>20</b>	<b>67</b>	<b>64</b>	<b>151</b>	<b>37</b>	<b>10823</b>	<b>26</b>	<b>9108</b>	<b>162</b>	<b>16</b>	<b>15</b>	<b>26</b>	<b>0</b>	<b>9108</b>	<b>177</b>	<b>8254</b>	<b>27</b>	<b>9108</b>	<b>2663</b>	<b>8358</b>	<b>21</b>
<b>Province of British Columbia</b>	<b>4541</b>	<b>6</b>	<b>56</b>	<b>50</b>	<b>155</b>	<b>3</b>	<b>4482</b>	<b>33</b>	<b>1977</b>	<b>48</b>	<b>10</b>	<b>14</b>	<b>10</b>	<b>0</b>	<b>1977</b>	<b>12</b>	<b>1967</b>	<b>62</b>	<b>1752</b>	<b>510</b>	<b>1835</b>	<b>10</b>
Yukon	401	0	8	3	11	0	401	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Northwest Territories	108	3	0	1	4	0	105	0	105	0	0	0	0	0	105	0	105	3	105	58	105	1
Nunavut	23	0	0	0	0	0	21	0	21	0	3	0	0	0	21	2	21	0	21	10	21	0
<b>Territories</b>	<b>532</b>	<b>3</b>	<b>8</b>	<b>4</b>	<b>15</b>	<b>0</b>	<b>527</b>	<b>0</b>	<b>126</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>2</b>	<b>126</b>	<b>3</b>	<b>126</b>	<b>68</b>	<b>126</b>	<b>1</b>
<b>CANADA</b>	<b>35994</b>	<b>34</b>	<b>157</b>	<b>256</b>	<b>490</b>	<b>73</b>	<b>35226</b>	<b>244</b>	<b>22699</b>	<b>379</b>	<b>37</b>	<b>51</b>	<b>55</b>	<b>0</b>	<b>22565</b>	<b>442</b>	<b>21358</b>	<b>121</b>	<b>13177</b>	<b>3850</b>	<b>16443</b>	<b>47</b>

Specimens from YT, NT and NU are sent to reference laboratories in other provinces and reported results reflect specimens identified as originating from YT, NT or NU.

Results from British Columbia comprise of specimens from the following sites: BC Children's and Women's Hospital, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Victoria Coastal Health, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

Delays in the reporting of data may cause data to change retrospectively.

Due to reporting delays, the sum of weekly report totals do not add up to cumulative totals.

For BC, only data from subtyped influenza A specimens are included in the weekly number of influenza detections. The sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2019-2020

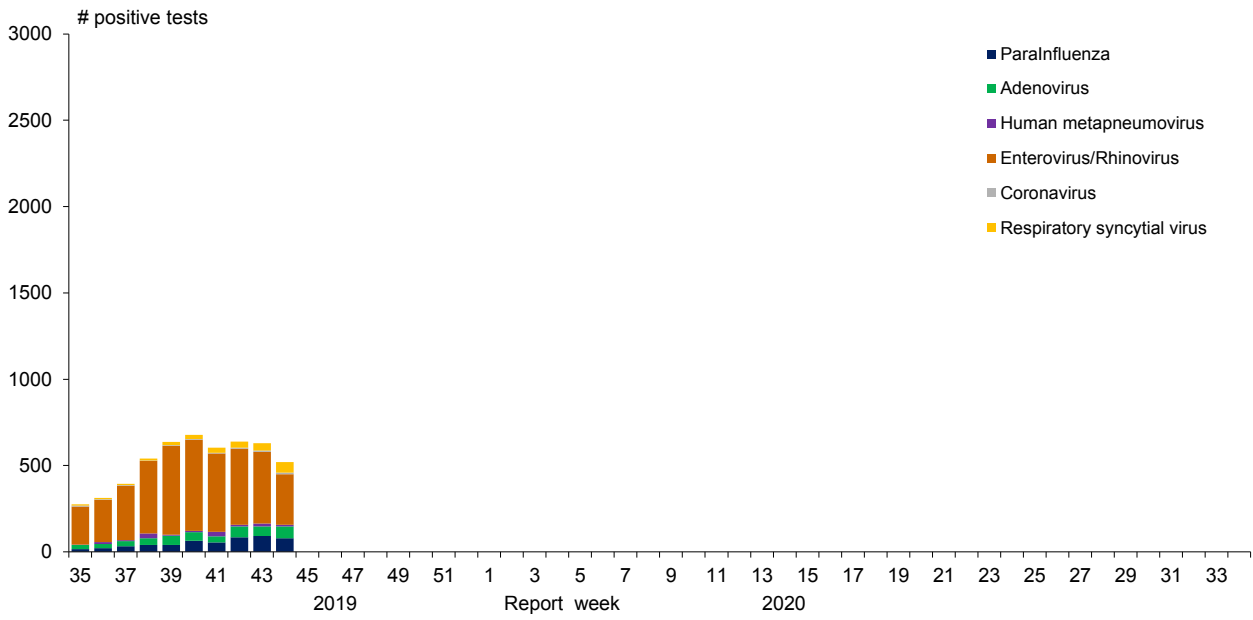


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

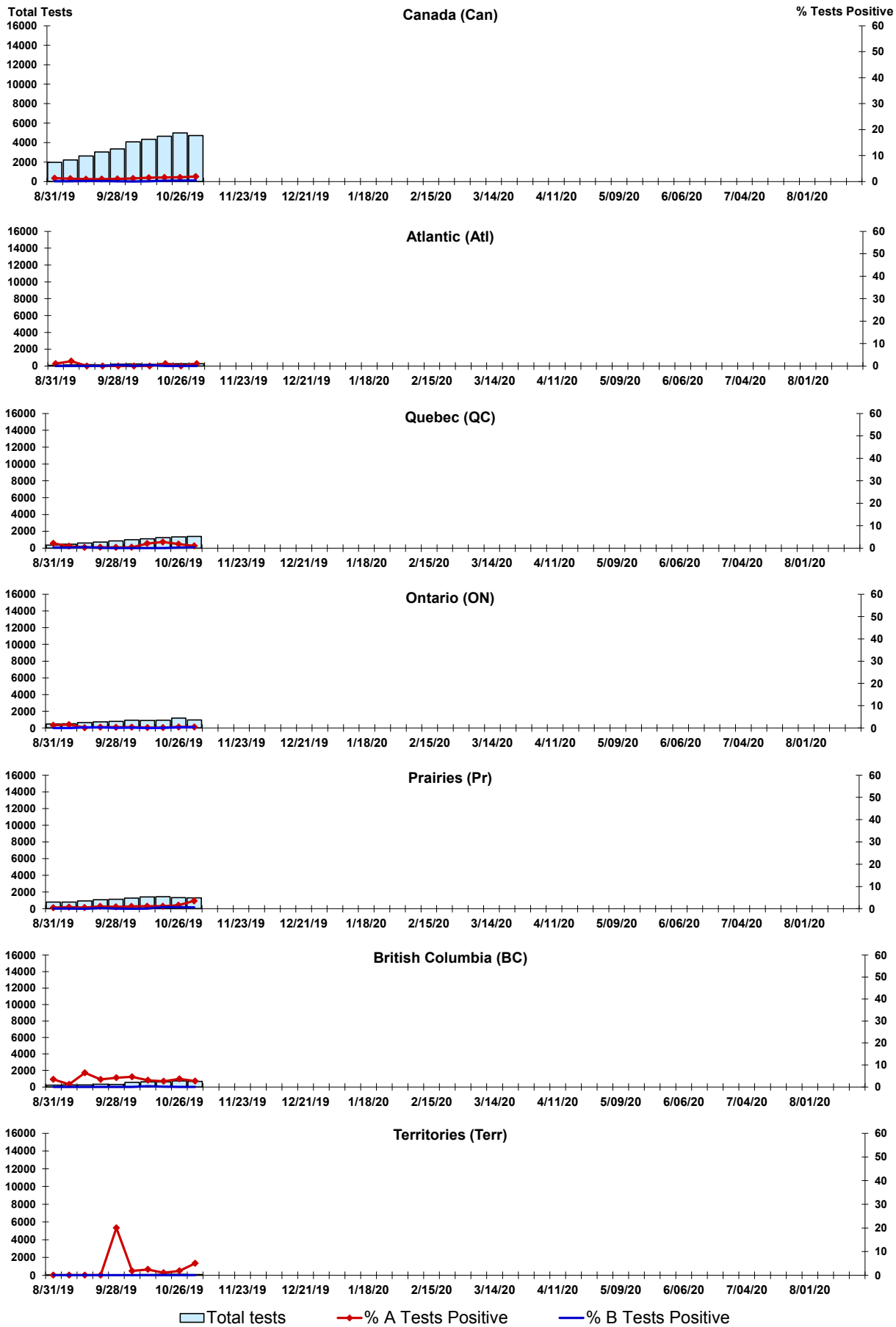


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

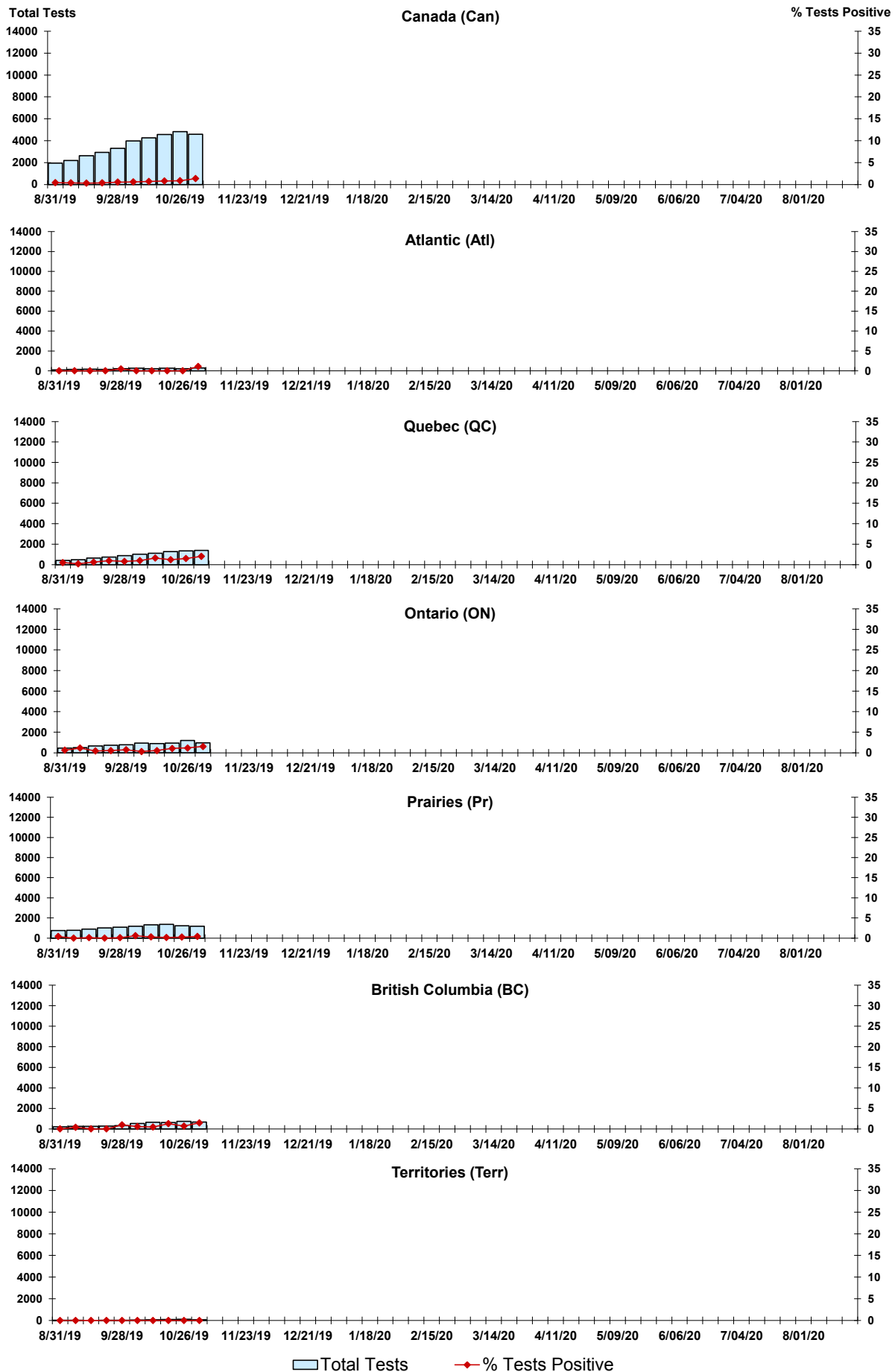


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

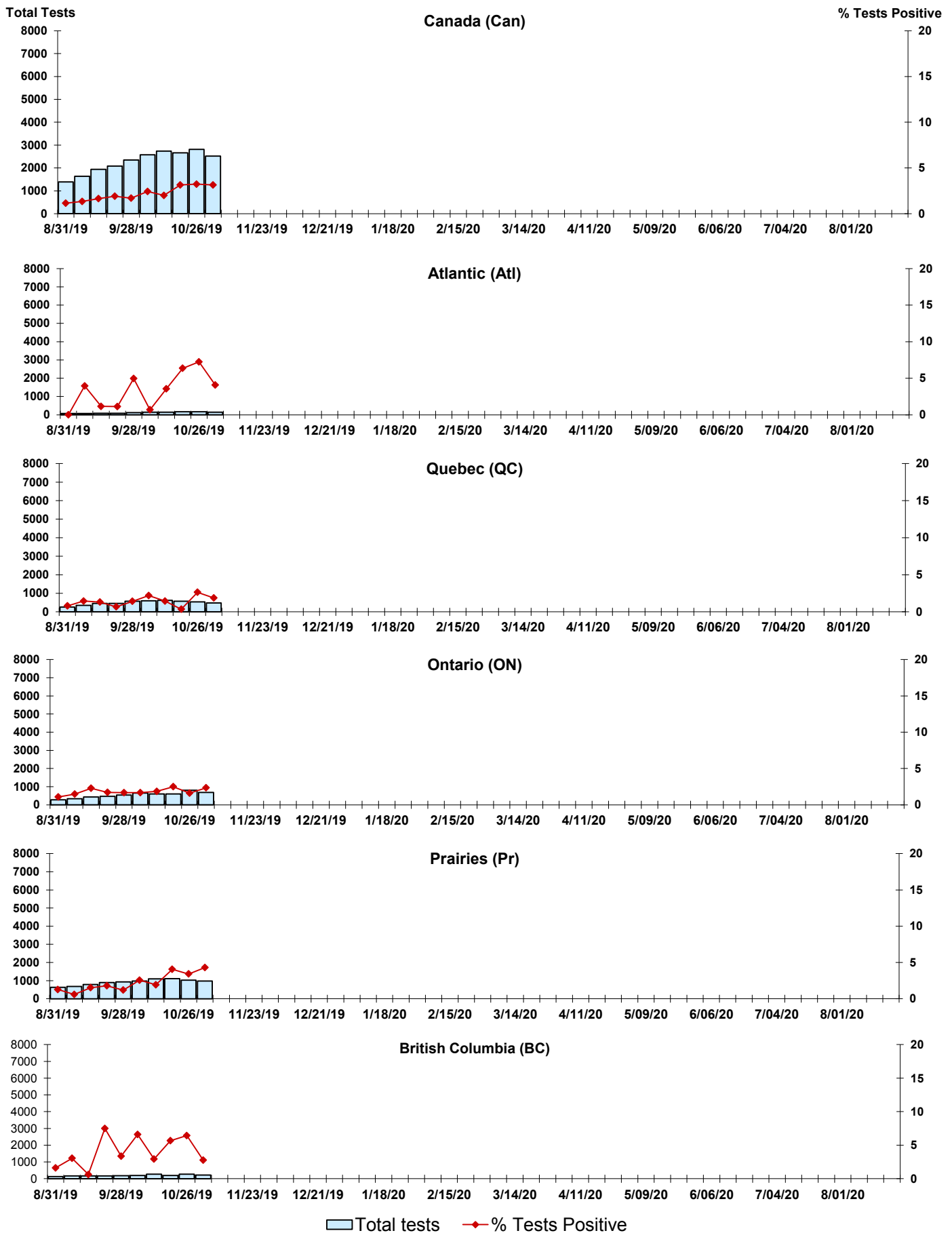


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

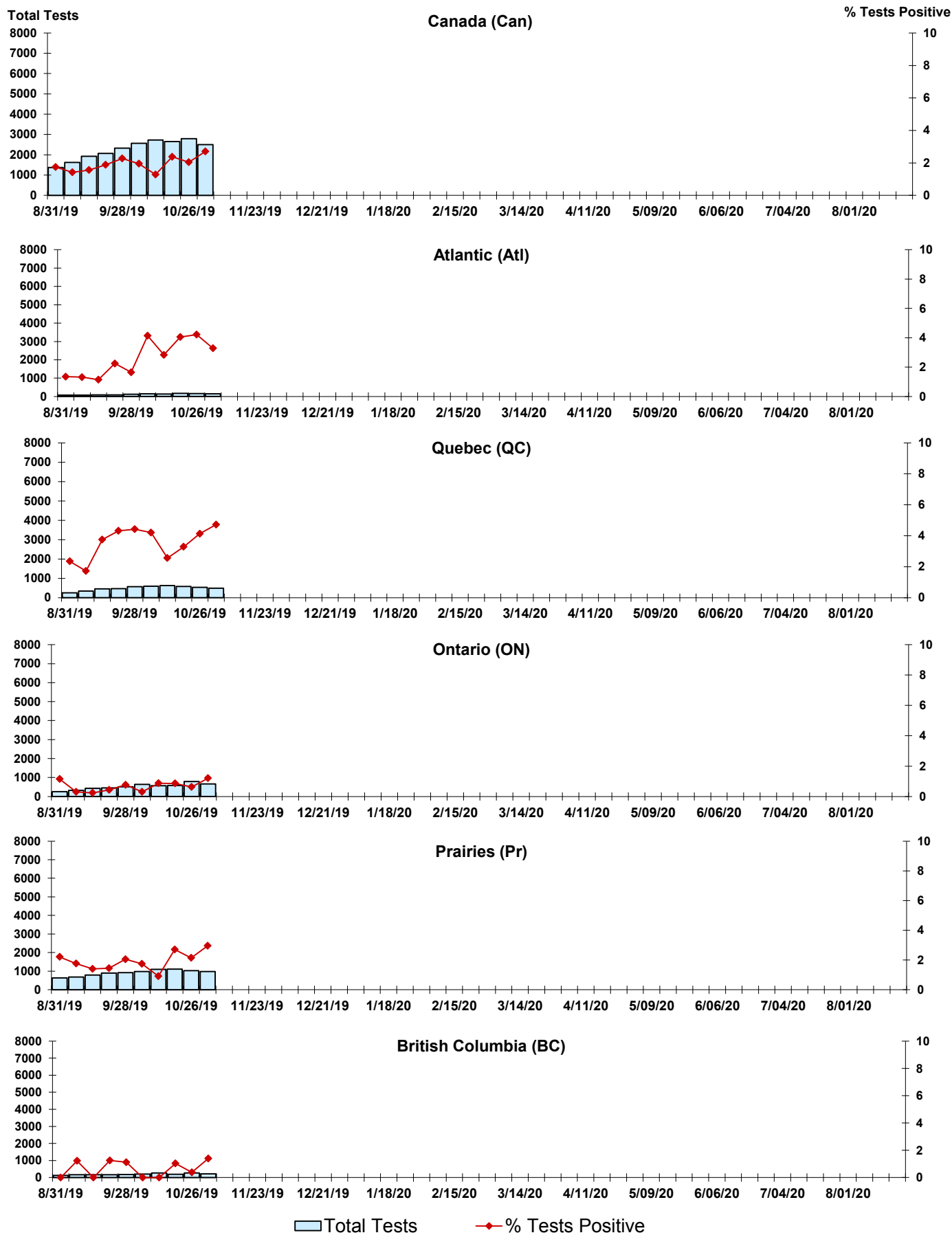


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

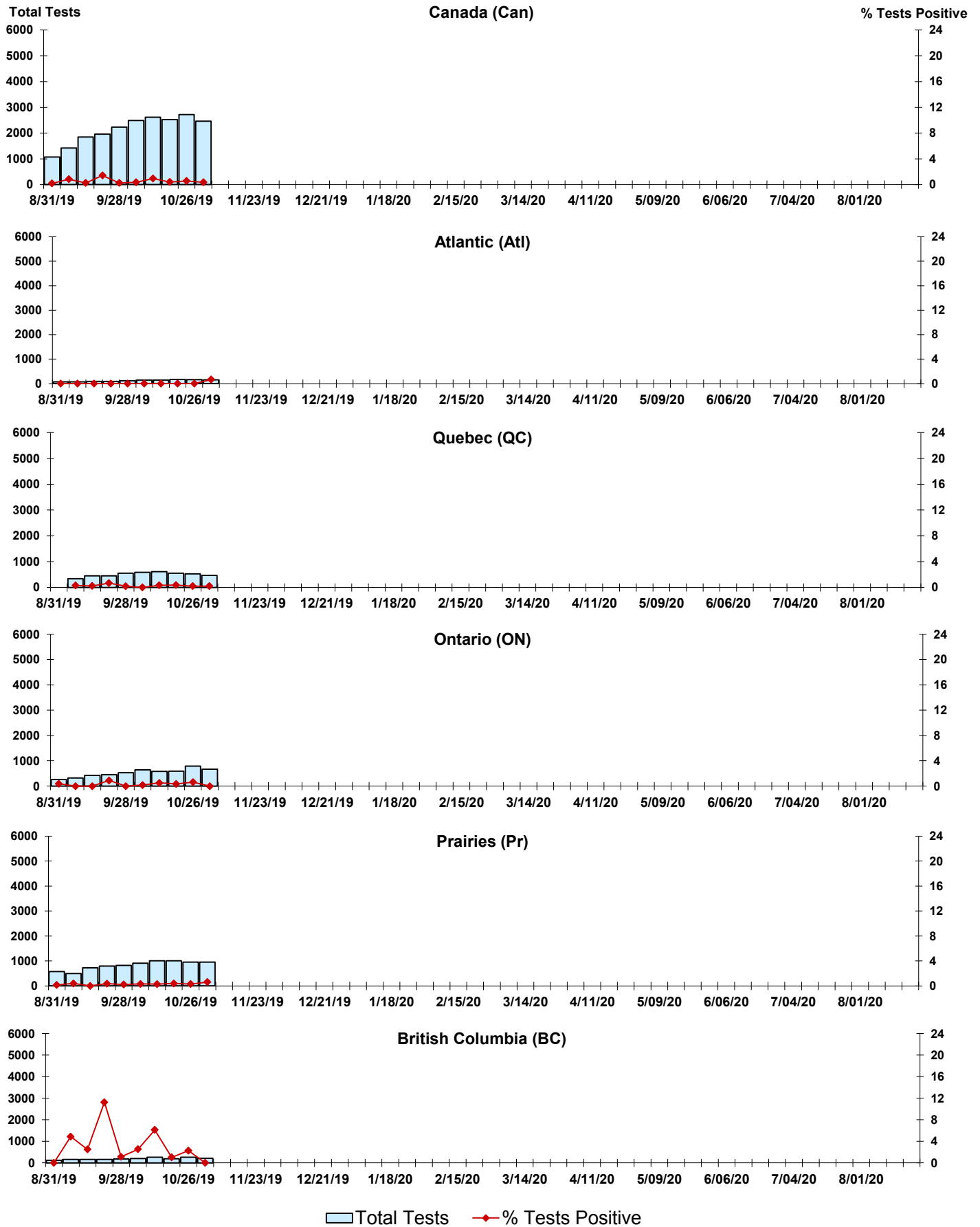




Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

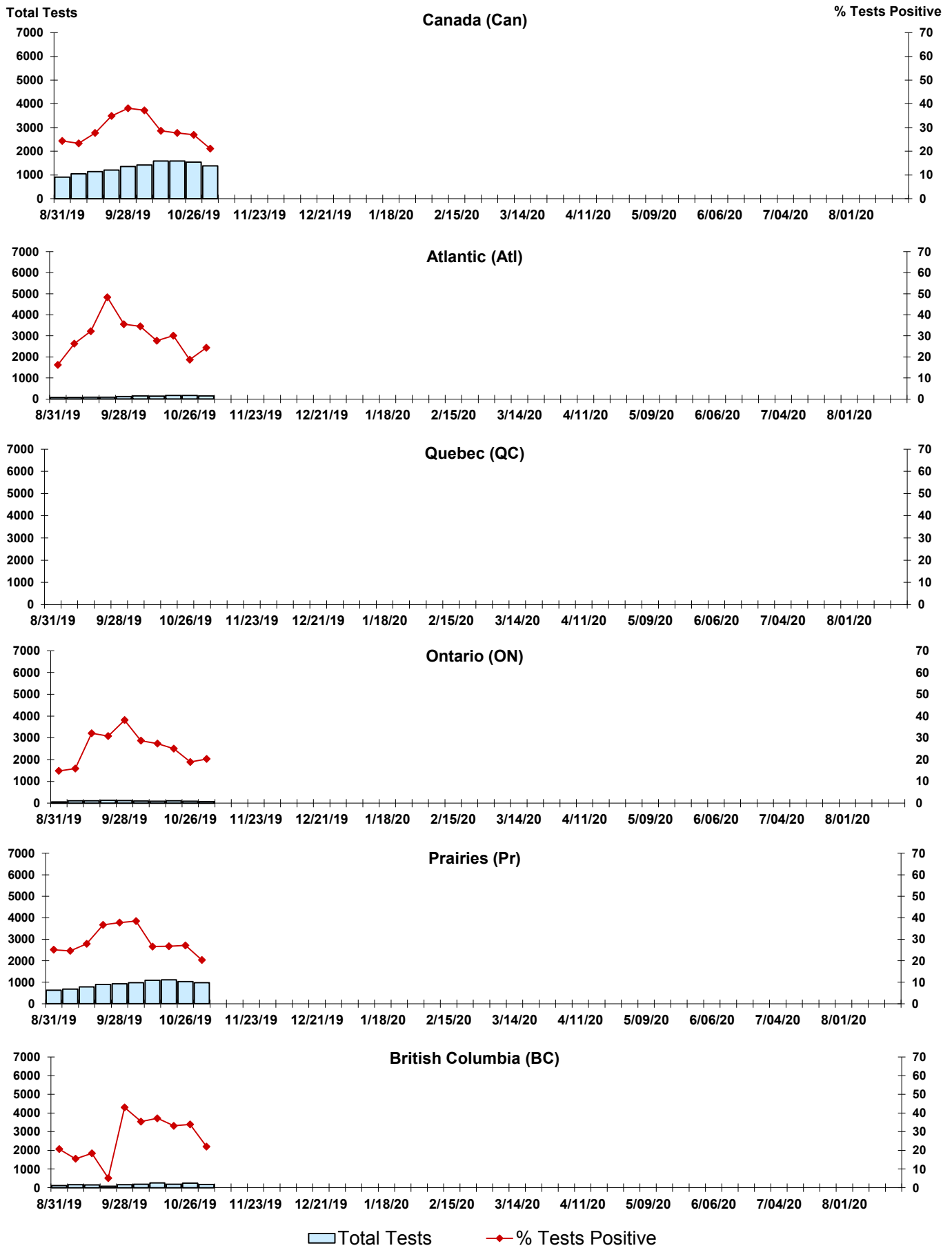
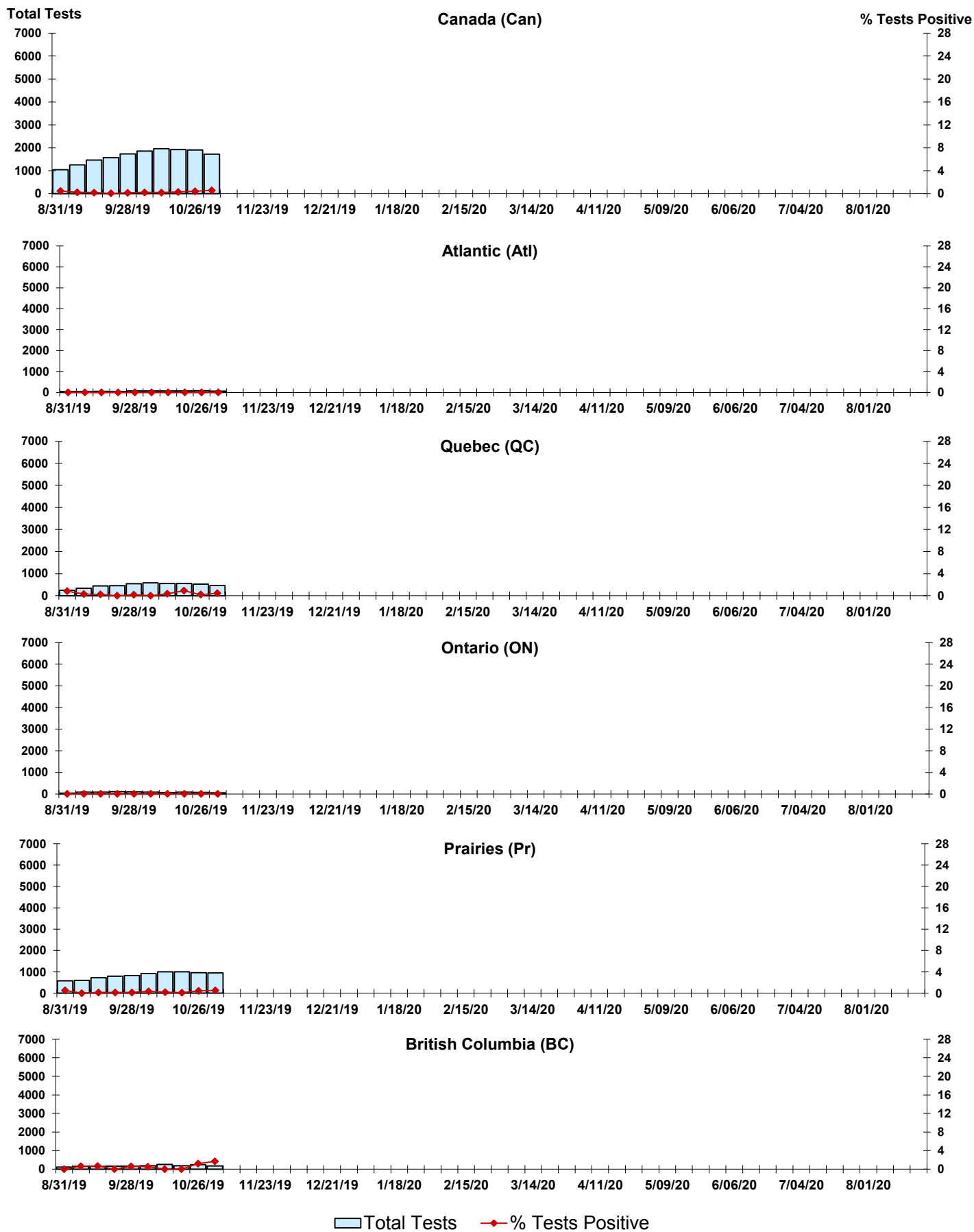


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



## Abbreviations:

A(H1N1)pdm09: Influenza A(H1N1)pdm09

A(H3): Influenza A(H3N2)

A (UnS): Influenza A (Unsubtyped)

Adeno: Adenovirus

CHEO: Children's Hospital of Eastern Ontario

Coron: Coronavirus

Entero: Enterovirus

hMPV: human metapneumovirus

HSC: Health Sciences Centre

N.A.: Not Applicable

P.H.O.L.: Public Health Ontario Laboratory

PIV: Parainfluenza

Rhino: Rhinovirus

RSV: Respiratory syncytial virus

UHN: University Health Network

## Notes:

Specimens from Yukon (YT), Northwest Territories (NT) and Nunavut (NU) are sent to reference laboratories in other provinces. Results reported for the Territories reflect the number of specimens that are identified as originating from YT, NT or NU.

Delays in the reporting of data may cause data to change retrospectively.

Due to reporting delays, the sum of weekly report totals do not add up to cumulative totals.