

# Respiratory Virus Detections in Canada

## Respiratory Virus Report, Week 43 - ending October 26, 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 October 26, 2019 (Reporting Week 201943)**

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	81	0	0	0	0	0	81	0	81	5	0	0	0	0	81	3	81	0	81	13	N.A.	N.A.
Prince Edward Island	19	0	0	0	0	0	19	0	2	0	0	0	0	0	2	0	2	0	2	1	1	0
Nova Scotia	69	0	0	0	0	0	69	0	17	0	0	0	0	0	17	0	17	0	17	4	17	0
New Brunswick	125	0	0	0	0	0	66	0	66	6	0	0	0	0	66	3	66	0	66	13	66	0
<b>Atlantic</b>	<b>294</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>235</b>	<b>0</b>	<b>166</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>166</b>	<b>6</b>	<b>166</b>	<b>0</b>	<b>166</b>	<b>31</b>	<b>84</b>	<b>0</b>
Région Nord-Est	62	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	139	0	0	3	3	0	166	0	95	1	0	0	0	0	95	4	91	0	N.A.	N.A.	90	0
Centre-du-Québec	103	0	0	0	0	1	102	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	701	0	0	5	5	2	690	16	438	9	1	1	2	0	438	18	436	1	N.A.	N.A.	436	1
Ouest du Québec	206	0	0	14	14	0	206	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	127	0	0	2	2	0	127	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>1338</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>24</b>	<b>3</b>	<b>1345</b>	<b>20</b>	<b>533</b>	<b>10</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>533</b>	<b>22</b>	<b>527</b>	<b>1</b>	<b>N.A.</b>	<b>N.A.</b>	<b>526</b>	<b>1</b>
P.H.O.L. - Ottawa	38	0	0	0	0	0	38	0	29	0	0	0	0	0	29	0	29	0	0	0	0	0
CHEO - Ottawa	137	0	0	2	2	1	137	3	22	1	0	0	0	0	22	0	22	0	22	5	21	0
P.H.O.L. - Kingston	32	0	0	0	0	0	32	0	30	0	0	0	0	0	30	0	30	0	0	0	0	0
UHN / Mount Sinai Hospital	238	0	0	1	1	1	238	3	13	0	0	0	0	0	0	0	13	1	0	0	N.A.	N.A.
P.H.O.L. - Toronto	384	0	2	1	3	0	384	1	367	5	0	1	0	0	367	3	363	4	4	0	0	0
Sick Kids Hospital - Toronto	50	0	0	0	0	0	50	2	50	1	0	1	1	0	50	0	50	0	50	12	50	0
Sunnybrook & Women's College HSC	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	6	0	6	0
P.H.O.L. - Sault Ste. Marie	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	0	0	0	0
P.H.O.L. - Timmins	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	0	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	72	0	0	0	0	0	72	2	65	1	0	0	0	0	65	1	63	0	2	0	0	0
P.H.O.L. - Orillia	35	0	0	0	0	0	35	0	27	0	0	0	0	0	27	0	27	0	0	0	0	0
P.H.O.L. - Thunder Bay	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	7	0	1	0	0	0
P.H.O.L. - Sudbury	15	0	0	0	0	0	15	0	14	0	0	0	0	0	14	0	14	0	0	0	0	0
P.H.O.L. - Hamilton	113	0	0	0	0	0	113	1	103	1	0	0	0	0	103	0	99	0	4	0	0	0
P.H.O.L. - Peterborough	51	0	0	0	0	2	51	2	50	0	0	0	0	0	50	1	50	0	0	0	0	0
<b>Province of Ontario</b>	<b>1189</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>1189</b>	<b>14</b>	<b>794</b>	<b>9</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>781</b>	<b>5</b>	<b>783</b>	<b>5</b>	<b>89</b>	<b>17</b>	<b>77</b>	<b>0</b>
Manitoba	243	0	0	2	2	5	243	1	148	2	0	0	0	0	148	2	79	1	148	39	79	2
Regina	260	0	0	3	3	1	260	1	148	2	0	0	1	0	148	6	148	1	148	57	148	0
Saskatoon	153	0	0	2	2	0	153	1	153	6	0	1	0	0	153	5	153	0	153	37	153	0
Saskatchewan	413	0	0	5	5	1	413	2	301	8	0	1	1	0	301	11	301	1	301	94	301	0
Alberta	635	4	6	3	13	4	541	0	541	16	0	1	4	0	541	9	541	1	541	136	541	2
<b>Prairies</b>	<b>1291</b>	<b>4</b>	<b>6</b>	<b>10</b>	<b>20</b>	<b>10</b>	<b>1197</b>	<b>3</b>	<b>990</b>	<b>26</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>990</b>	<b>22</b>	<b>921</b>	<b>3</b>	<b>990</b>	<b>269</b>	<b>921</b>	<b>4</b>
<b>Province of British Columbia</b>	<b>737</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>27</b>	<b>0</b>	<b>737</b>	<b>5</b>	<b>264</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>264</b>	<b>1</b>	<b>264</b>	<b>6</b>	<b>248</b>	<b>84</b>	<b>248</b>	<b>3</b>
Yukon	90	0	1	0	1	0	90	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	17	0	0	1	1	0	15	0	15	0	0	0	0	0	15	0	15	0	15	6	15	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
<b>Territories</b>	<b>108</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>106</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>6</b>	<b>16</b>	<b>0</b>
<b>CANADA</b>	<b>4957</b>	<b>6</b>	<b>12</b>	<b>45</b>	<b>79</b>	<b>17</b>	<b>4809</b>	<b>42</b>	<b>2763</b>	<b>65</b>	<b>2</b>	<b>7</b>	<b>13</b>	<b>0</b>	<b>2750</b>	<b>56</b>	<b>2677</b>	<b>15</b>	<b>1509</b>	<b>407</b>	<b>1872</b>	<b>8</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 - October 26, 2019 (Reporting Weeks 201935-201943)**

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	506	0	1	0	1	0	506	0	506	15	0	2	0	0	506	8	506	0	506	146	N.A.	N.A.
Prince Edward Island	58	0	0	0	0	0	58	0	10	0	0	0	0	0	10	0	10	0	10	6	9	0
Nova Scotia	265	0	0	1	1	1	270	0	133	5	0	1	0	0	133	3	133	0	133	36	133	0
New Brunswick	969	1	1	3	5	1	910	1	423	13	0	0	2	0	423	17	423	0	423	127	423	0
<b>Atlantic</b>	<b>1798</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>7</b>	<b>2</b>	<b>1744</b>	<b>1</b>	<b>1072</b>	<b>33</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>1072</b>	<b>28</b>	<b>1072</b>	<b>0</b>	<b>1072</b>	<b>315</b>	<b>565</b>	<b>0</b>
Région Nord-Est	290	0	0	0	0	0	256	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	629	0	0	4	4	0	750	0	749	4	2	1	0	0	768	17	633	1	N.A.	N.A.	638	0
Centre-du-Québec	455	0	0	2	2	2	427	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	4900	0	0	33	33	7	4979	60	3648	46	2	3	4	0	3648	139	3418	10	N.A.	N.A.	3599	13
Ouest du Québec	869	0	0	58	58	0	852	11	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	626	0	0	8	8	1	624	12	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>7769</b>	<b>0</b>	<b>0</b>	<b>105</b>	<b>105</b>	<b>10</b>	<b>7888</b>	<b>84</b>	<b>4397</b>	<b>50</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>4416</b>	<b>156</b>	<b>4051</b>	<b>11</b>	<b>N.A.</b>	<b>N.A.</b>	<b>4237</b>	<b>13</b>
P.H.O.L. - Ottawa	157	0	0	0	0	0	155	0	142	1	0	0	0	0	142	0	138	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	157	0	1	0	1	0	157	1	154	1	0	0	0	0	154	0	152	0	6	1	0	0
UHN / Mount Sinai Hospital	1733	0	0	10	10	6	1733	13	143	0	0	6	2	0	0	0	143	4	0	0	N.A.	N.A.
P.H.O.L. - Toronto	2120	1	14	1	16	1	2120	3	2057	27	0	3	0	0	2057	9	1994	5	81	0	0	0
Sick Kids Hospital - Toronto	358	0	0	0	0	0	358	10	358	10	1	1	4	0	358	4	358	6	358	130	358	0
Sunnybrook & Women's College HSC	57	0	0	0	0	0	57	0	57	0	0	0	0	0	57	0	57	0	57	5	57	0
P.H.O.L. - Sault Ste. Marie	38	0	0	0	0	0	38	0	38	0	0	0	0	0	38	0	37	0	1	0	0	0
P.H.O.L. - Timmins	24	0	0	0	0	0	24	0	24	0	0	0	0	0	24	0	24	0	1	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	412	0	0	0	0	0	412	4	400	6	0	0	0	0	400	3	387	0	22	0	0	0
P.H.O.L. - Orillia	165	0	1	0	1	0	165	0	156	2	0	0	0	0	156	0	155	0	3	0	0	0
P.H.O.L. - Thunder Bay	48	0	0	0	0	0	48	0	48	0	0	1	0	0	48	0	41	0	7	0	0	0
P.H.O.L. - Sudbury	64	0	0	0	0	0	63	0	62	0	0	1	0	0	62	1	55	0	8	0	0	0
P.H.O.L. - Hamilton	541	1	2	0	3	1	535	4	516	6	1	0	0	0	516	2	506	1	13	0	0	0
P.H.O.L. - Peterborough	219	0	0	0	0	2	216	4	215	0	0	0	0	0	215	2	215	0	3	0	0	0
<b>Province of Ontario</b>	<b>7148</b>	<b>2</b>	<b>18</b>	<b>15</b>	<b>35</b>	<b>12</b>	<b>7136</b>	<b>54</b>	<b>4698</b>	<b>56</b>	<b>3</b>	<b>14</b>	<b>11</b>	<b>0</b>	<b>4555</b>	<b>28</b>	<b>4590</b>	<b>16</b>	<b>895</b>	<b>240</b>	<b>735</b>	<b>0</b>
Manitoba	2014	0	1	3	4	10	2014	7	1343	7	1	1	1	0	1343	19	618	3	1343	262	618	3
Regina	1876	0	0	18	18	2	1876	6	1045	7	0	0	3	0	1045	16	938	1	1045	348	1045	0
Saskatoon	1018	0	0	3	3	0	1018	8	1018	31	1	3	1	0	1018	31	1021	0	1018	324	1018	2
Saskatchewan	2894	0	0	21	21	2	2894	14	2063	38	1	3	4	0	2063	47	1959	1	2063	672	2063	2
Alberta	5302	8	49	22	79	17	4688	0	4688	80	13	10	16	0	4688	82	4688	17	4688	1521	4688	11
<b>Prairies</b>	<b>10210</b>	<b>8</b>	<b>50</b>	<b>46</b>	<b>104</b>	<b>29</b>	<b>9596</b>	<b>21</b>	<b>8094</b>	<b>125</b>	<b>15</b>	<b>14</b>	<b>21</b>	<b>0</b>	<b>8094</b>	<b>148</b>	<b>7265</b>	<b>21</b>	<b>8094</b>	<b>2455</b>	<b>7369</b>	<b>16</b>
<b>Province of British Columbia</b>	<b>3860</b>	<b>6</b>	<b>55</b>	<b>42</b>	<b>137</b>	<b>3</b>	<b>3805</b>	<b>23</b>	<b>1761</b>	<b>44</b>	<b>10</b>	<b>12</b>	<b>10</b>	<b>0</b>	<b>1761</b>	<b>9</b>	<b>1751</b>	<b>62</b>	<b>1575</b>	<b>471</b>	<b>1658</b>	<b>7</b>
Yukon	331	0	8	2	10	0	331	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	100	0	0	1	1	0	97	0	97	0	0	0	0	0	97	0	97	2	97	55	97	1
Nunavut	21	0	0	0	0	0	20	0	20	0	3	0	0	0	20	2	20	0	20	9	20	0
<b>Territories</b>	<b>452</b>	<b>0</b>	<b>8</b>	<b>3</b>	<b>11</b>	<b>0</b>	<b>448</b>	<b>0</b>	<b>117</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>2</b>	<b>117</b>	<b>2</b>	<b>117</b>	<b>64</b>	<b>117</b>	<b>1</b>
<b>CANADA</b>	<b>31237</b>	<b>17</b>	<b>133</b>	<b>215</b>	<b>399</b>	<b>56</b>	<b>30617</b>	<b>183</b>	<b>20139</b>	<b>308</b>	<b>35</b>	<b>47</b>	<b>48</b>	<b>0</b>	<b>20015</b>	<b>371</b>	<b>18846</b>	<b>112</b>	<b>11753</b>	<b>3545</b>	<b>14681</b>	<b>37</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

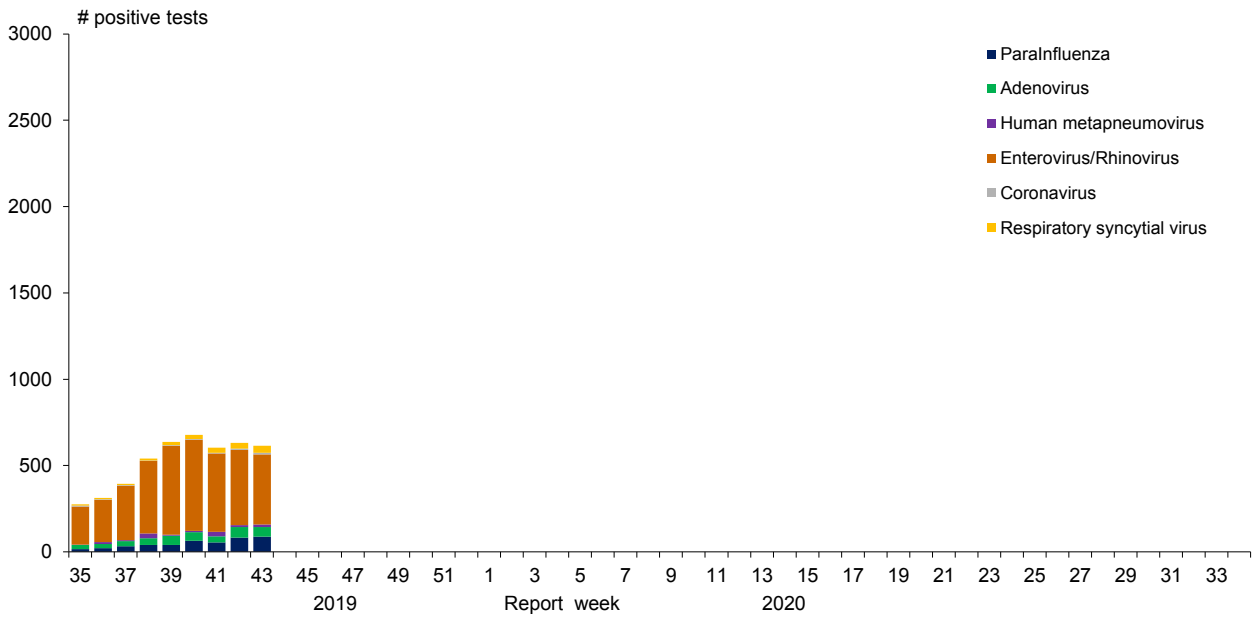


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

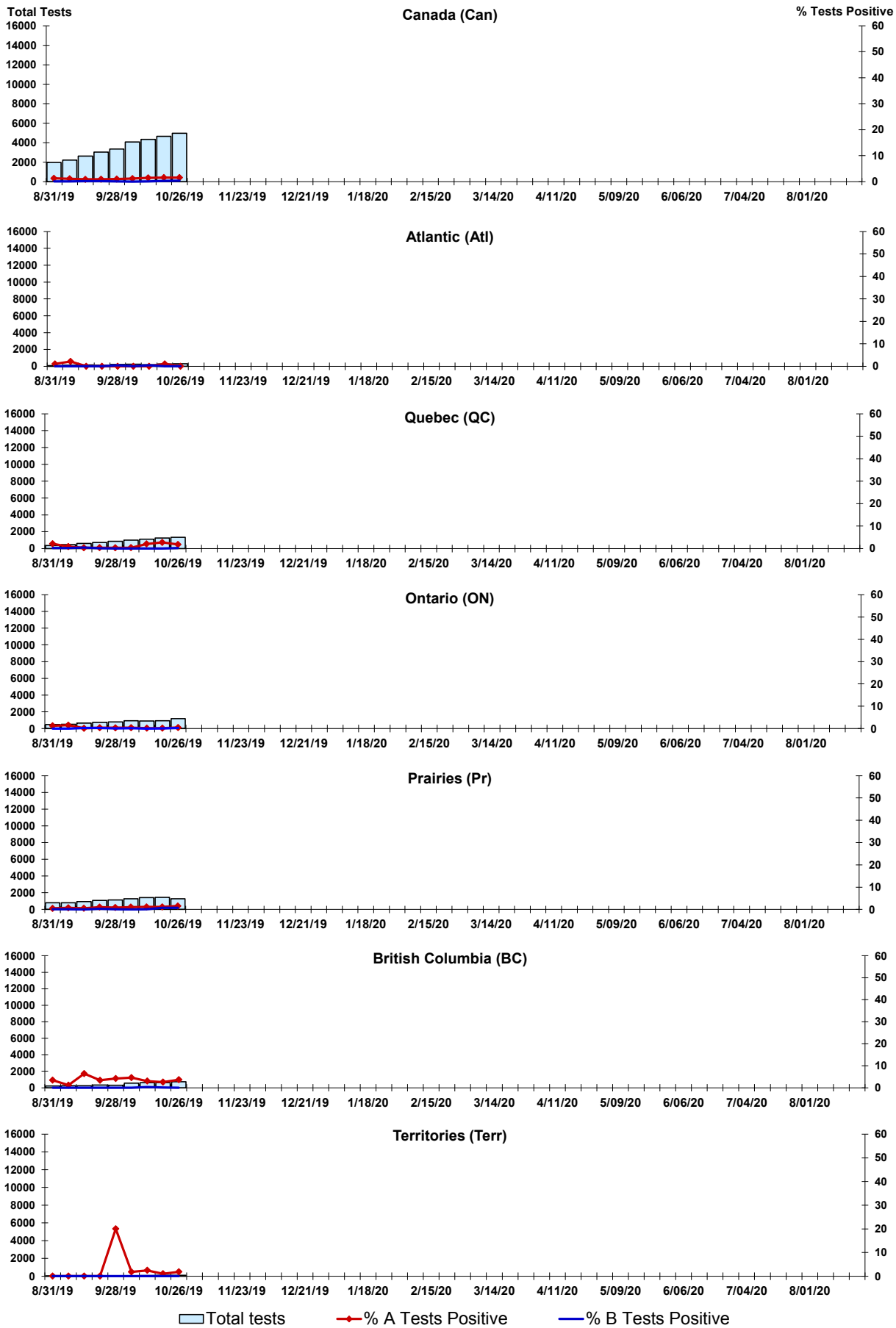


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

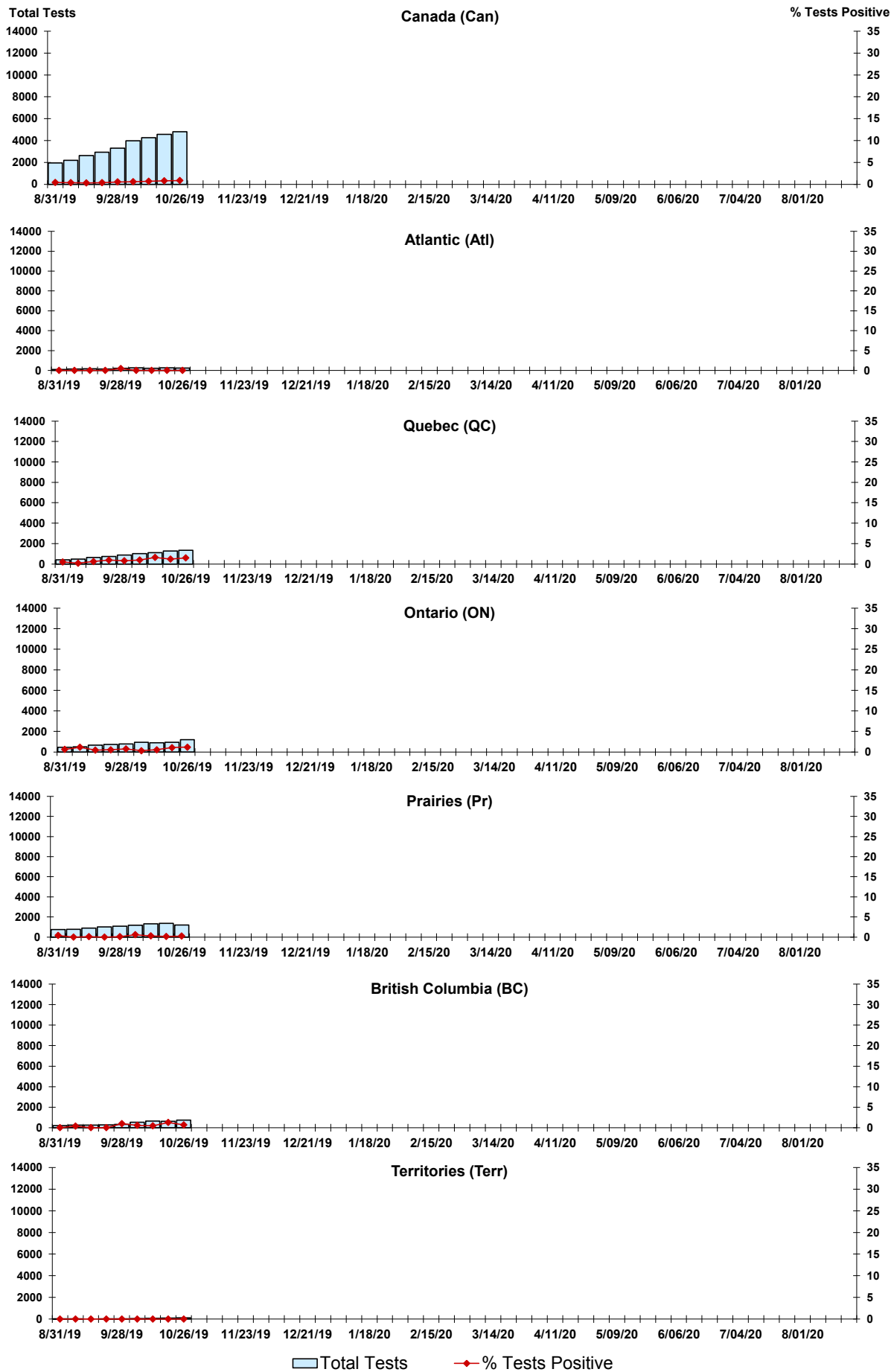


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

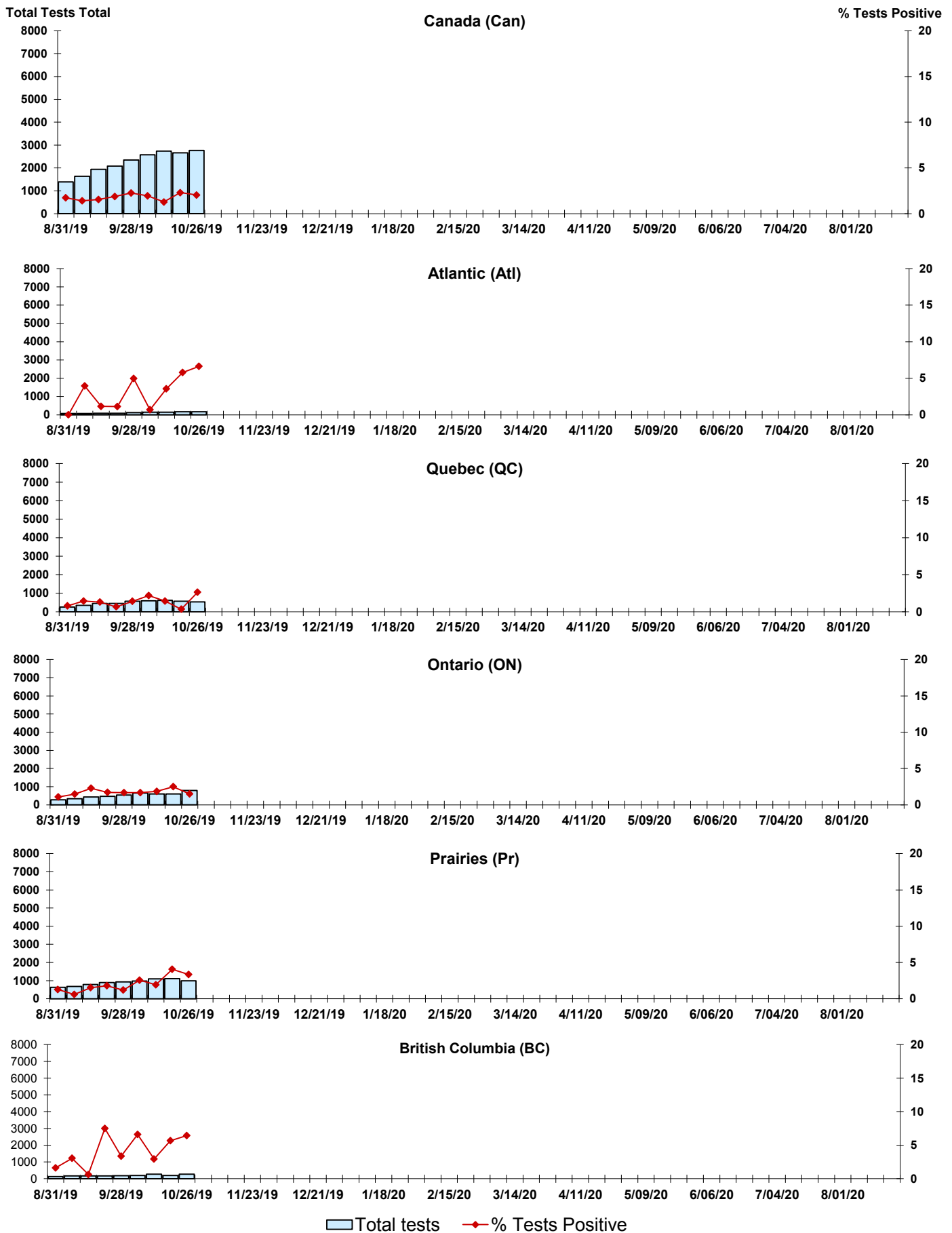


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

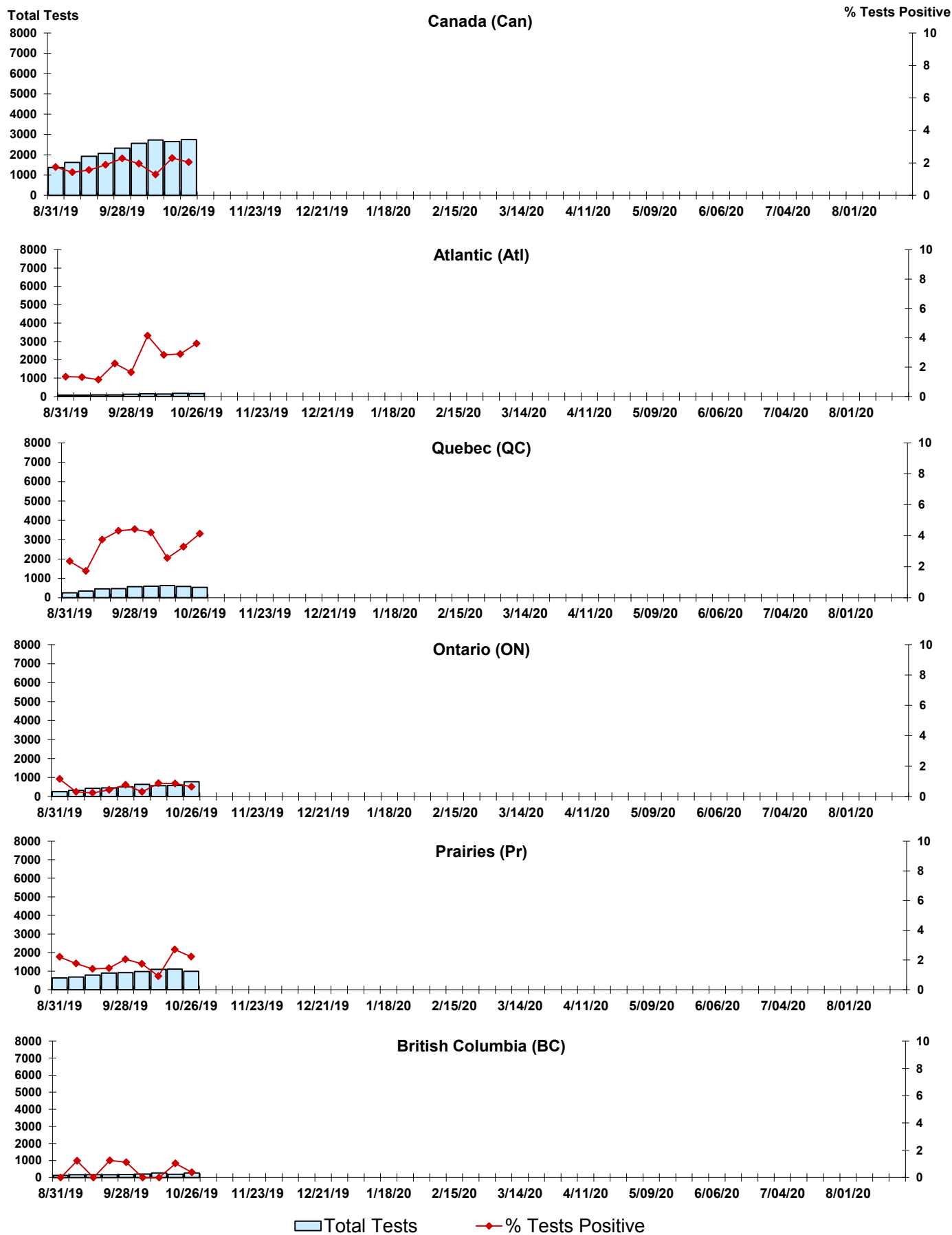


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

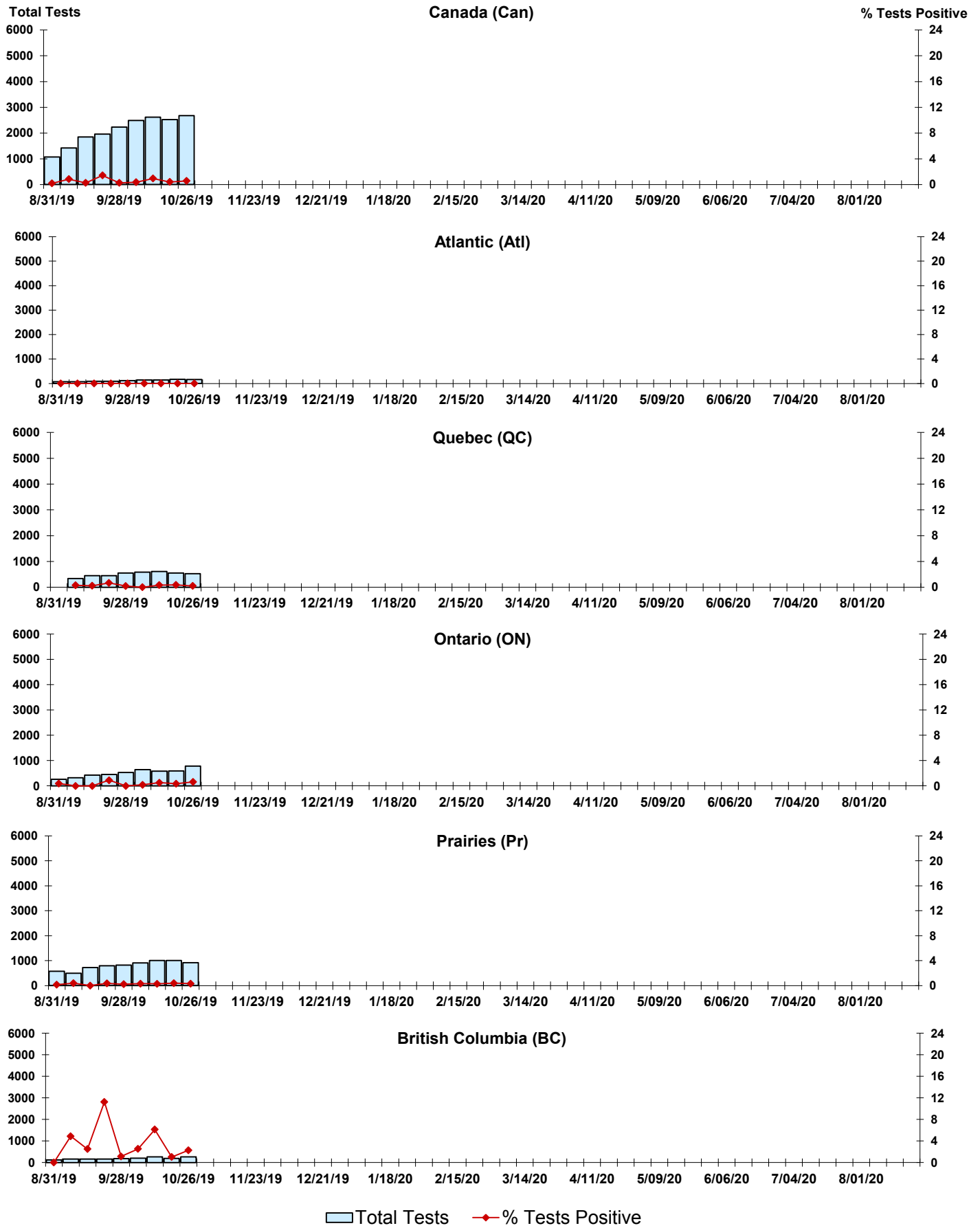




Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

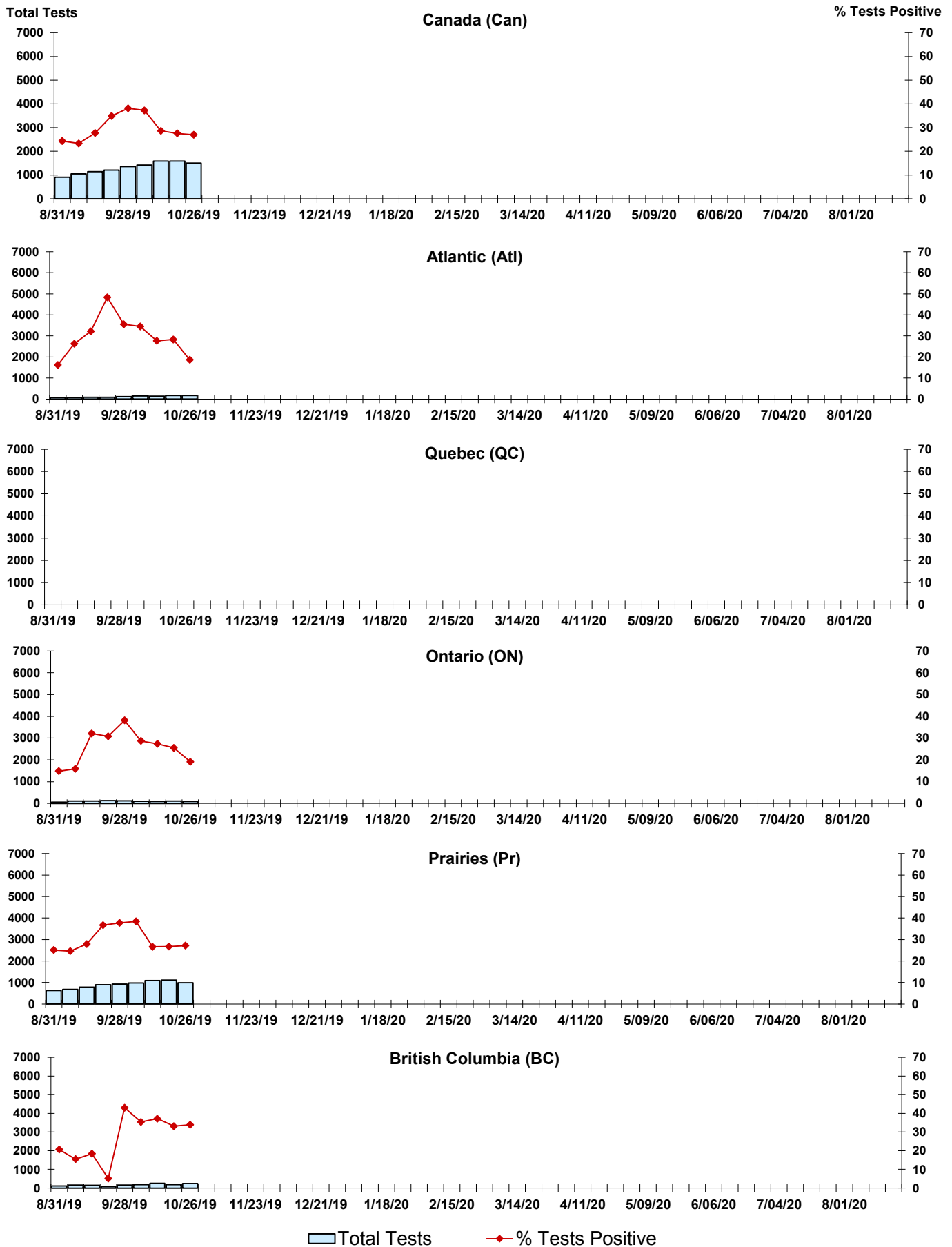
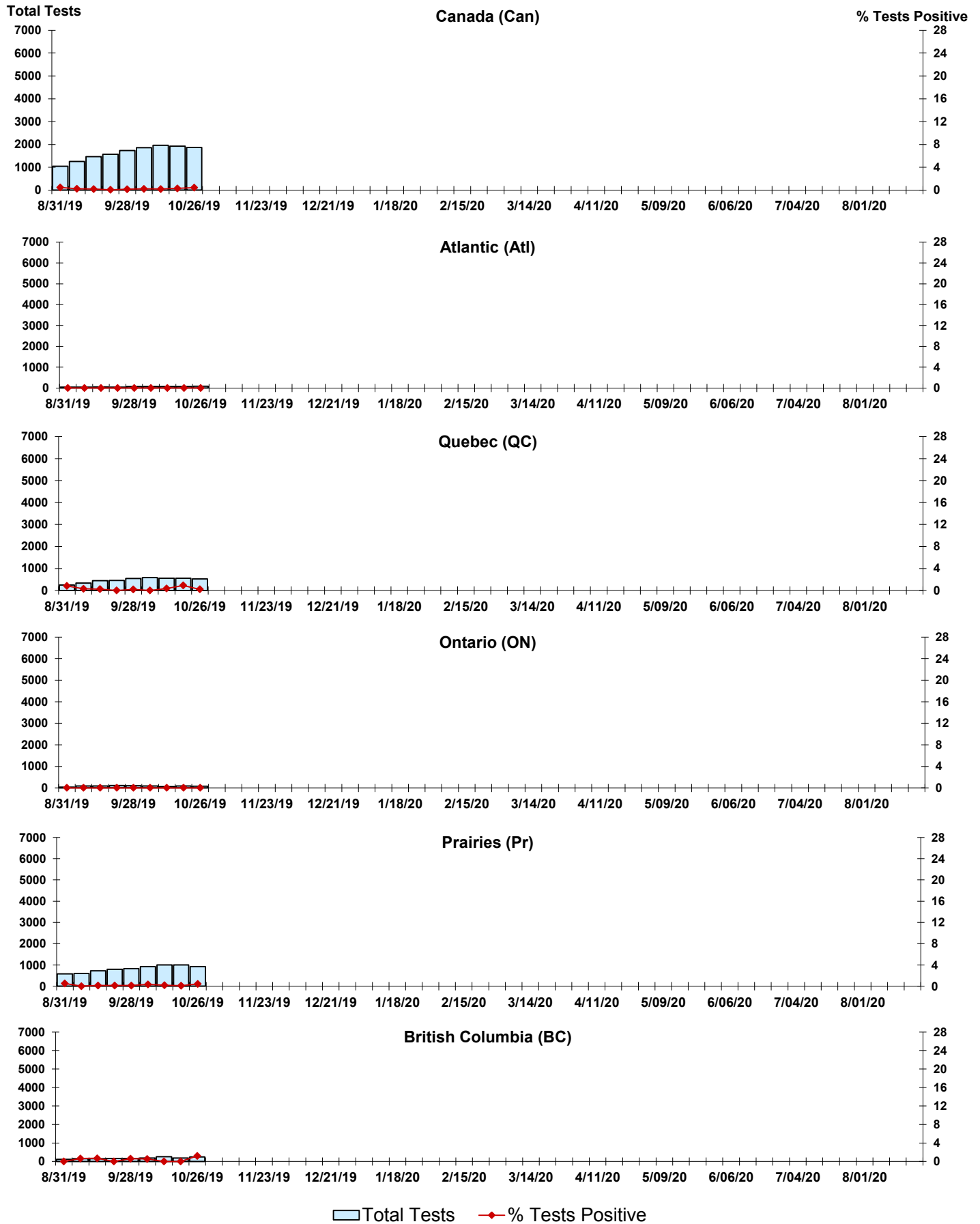


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



## 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.