

# Respiratory Virus Detections in Canada

## Respiratory Virus Report, Week 41 - ending October 12, 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 12, 2019 (Reporting Week 201941)**

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.
Prince Edward Island	7	0	0	0	0	0	7	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	31	0	0	0	0	1	32	0	26	1	0	0	0	0	26	0	26	0	26	12	26	0
New Brunswick	101	0	0	0	0	0	101	0	44	0	0	0	0	0	44	1	44	0	44	6	44	0
<b>Atlantic</b>	<b>139</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>140</b>	<b>0</b>	<b>71</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>71</b>	<b>1</b>	<b>71</b>	<b>0</b>	<b>71</b>	<b>18</b>	<b>71</b>	<b>0</b>
Région Nord-Est	45	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	59	0	0	0	0	0	70	0	101	0	2	0	0	0	105	4	94	0	N.A.	N.A.	36	0
Centre-du-Québec	64	0	0	1	1	0	64	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	715	0	0	4	4	0	728	11	520	5	0	1	1	0	520	12	514	2	N.A.	N.A.	514	2
Ouest du Québec	144	0	0	17	17	0	124	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	85	0	0	1	1	0	85	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>1112</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>23</b>	<b>0</b>	<b>1113</b>	<b>18</b>	<b>621</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>625</b>	<b>16</b>	<b>608</b>	<b>2</b>	<b>N.A.</b>	<b>N.A.</b>	<b>550</b>	<b>2</b>
P.H.O.L. - Ottawa	18	0	0	0	0	0	18	0	9	0	0	0	0	0	9	0	9	0	0	0	0	0
CHEO - Ottawa	117	0	0	0	0	0	117	5	28	0	0	2	0	0	28	1	28	0	28	7	27	0
P.H.O.L. - Kingston	28	0	0	0	0	0	28	0	23	0	0	0	0	0	23	0	23	0	0	0	0	0
UHN / Mount Sinai Hospital	216	0	0	0	0	0	216	0	20	0	0	3	0	0	0	0	20	0	0	0	N.A.	N.A.
P.H.O.L. - Toronto	293	0	2	0	2	0	293	0	276	3	0	0	0	0	276	1	270	1	6	0	0	0
Sick Kids Hospital - Toronto	38	0	0	0	0	0	38	0	38	1	0	0	0	0	38	1	38	1	38	15	38	0
Sunnybrook & Women's College HSC	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	3	0	3	0
P.H.O.L. - Sault Ste. Marie	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
P.H.O.L. - Timmins	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	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	56	0	0	0	0	0	54	0	51	2	0	0	0	0	51	1	50	0	1	0	0	0
P.H.O.L. - Orillia	28	0	0	0	0	0	28	0	25	0	0	0	0	0	25	0	25	0	0	0	0	0
P.H.O.L. - Thunder Bay	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	4	0	1	0	0	0
P.H.O.L. - Sudbury	4	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
P.H.O.L. - Hamilton	65	0	0	0	0	0	64	0	62	0	0	0	0	0	62	0	60	1	2	0	0	0
P.H.O.L. - Peterborough	26	0	0	0	0	0	26	0	26	0	0	0	0	0	26	0	26	0	0	0	0	0
<b>Province of Ontario</b>	<b>902</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>898</b>	<b>5</b>	<b>574</b>	<b>6</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>554</b>	<b>4</b>	<b>564</b>	<b>3</b>	<b>79</b>	<b>22</b>	<b>68</b>	<b>0</b>
Manitoba	300	0	0	1	1	1	300	1	188	3	0	0	0	0	188	3	99	0	188	41	99	0
Regina	292	0	0	4	4	0	292	2	193	0	0	0	0	0	193	0	193	0	193	33	193	0
Saskatoon	116	0	0	0	0	0	116	1	116	2	0	1	0	0	116	2	116	0	116	38	116	0
Saskatchewan	408	0	0	4	4	0	408	3	309	2	0	1	0	0	309	2	309	0	309	71	309	0
Alberta	668	0	8	3	11	1	584	0	584	13	0	0	1	0	584	5	584	3	584	176	584	2
<b>Prairies</b>	<b>1376</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>16</b>	<b>2</b>	<b>1292</b>	<b>4</b>	<b>1081</b>	<b>18</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1081</b>	<b>10</b>	<b>992</b>	<b>3</b>	<b>1081</b>	<b>288</b>	<b>992</b>	<b>2</b>
<b>Province of British Columbia</b>	<b>549</b>	<b>0</b>	<b>1</b>	<b>6</b>	<b>25</b>	<b>0</b>	<b>505</b>	<b>3</b>	<b>140</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>130</b>	<b>12</b>	<b>122</b>	<b>44</b>	<b>122</b>	<b>0</b>
Yukon	137	0	2	2	2	0	137	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	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	1	9	4	9	0
Nunavut	1	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0
<b>Territories</b>	<b>147</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>147</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>1</b>	<b>10</b>	<b>4</b>	<b>10</b>	<b>0</b>
<b>CANADA</b>	<b>4225</b>	<b>0</b>	<b>13</b>	<b>39</b>	<b>68</b>	<b>3</b>	<b>4095</b>	<b>30</b>	<b>2497</b>	<b>31</b>	<b>4</b>	<b>7</b>	<b>3</b>	<b>0</b>	<b>2481</b>	<b>31</b>	<b>2375</b>	<b>21</b>	<b>1363</b>	<b>376</b>	<b>1813</b>	<b>4</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 12, 2019 (Reporting Weeks 201935-201941)**

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	259	0	0	0	0	0	259	0	259	3	0	0	0	0	259	0	259	0	259	85	N.A.	N.A.
	24	0	0	0	0	0	24	0	8	0	0	0	0	0	8	0	8	0	8	5	8	0
Nova Scotia	148	0	0	0	0	1	153	0	97	4	0	1	0	0	97	1	97	0	97	30	97	0
New Brunswick	725	1	1	2	4	1	725	1	299	5	0	0	0	0	299	13	299	0	299	94	299	0
<b>Atlantic</b>	<b>1156</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>1161</b>	<b>1</b>	<b>663</b>	<b>12</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>663</b>	<b>14</b>	<b>663</b>	<b>0</b>	<b>663</b>	<b>214</b>	<b>404</b>	<b>0</b>
Région Nord-Est	184	0	0	0	0	0	163	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	412	0	0	1	1	0	494	0	548	3	2	1	0	0	564	13	453	0	N.A.	N.A.	459	0
Centre-du-Québec	249	0	0	2	2	0	234	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	3496	0	0	20	20	5	3569	34	2741	35	1	2	2	0	2741	102	2520	8	N.A.	N.A.	2701	7
Ouest du Québec	457	0	0	20	20	0	440	7	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	382	0	0	4	4	1	380	7	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>5180</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>47</b>	<b>6</b>	<b>5280</b>	<b>49</b>	<b>3289</b>	<b>38</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>3305</b>	<b>115</b>	<b>2973</b>	<b>8</b>	<b>N.A.</b>	<b>N.A.</b>	<b>3160</b>	<b>7</b>
P.H.O.L. - Ottawa	100	0	0	0	0	0	98	0	89	1	0	0	0	0	89	0	86	0	4	0	0	0
CHEO - Ottawa	658	0	0	1	1	1	658	10	159	0	0	2	2	0	159	2	159	0	162	50	156	0
P.H.O.L. - Kingston	107	0	0	0	0	0	107	1	102	0	0	0	0	0	102	0	100	0	4	0	0	0
UHN / Mount Sinai Hospital	1272	0	0	9	9	4	1272	6	115	0	0	6	2	0	0	0	115	2	0	0	N.A.	N.A.
P.H.O.L. - Toronto	1471	0	12	1	13	1	1471	2	1438	17	0	2	0	0	1438	5	1388	1	65	0	0	0
Sick Kids Hospital - Toronto	254	0	0	0	0	0	254	6	254	8	0	0	3	0	254	2	254	5	254	103	254	0
Sunnybrook & Women's College HSC	42	0	0	0	0	0	42	0	42	0	0	0	0	0	42	0	42	0	42	5	42	0
P.H.O.L. - Sault Ste. Marie	29	0	0	0	0	0	29	0	29	0	0	0	0	0	29	0	28	0	1	0	0	0
P.H.O.L. - Timmins	17	0	0	0	0	0	17	0	17	0	0	0	0	0	17	0	17	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	285	0	0	0	0	0	283	1	278	4	0	0	0	0	278	2	267	0	20	0	0	0
P.H.O.L. - Orillia	117	0	1	0	1	0	117	0	113	2	0	0	0	0	113	0	112	0	1	0	0	0
P.H.O.L. - Thunder Bay	34	0	0	0	0	0	34	0	34	0	0	1	0	0	34	0	28	0	6	0	0	0
P.H.O.L. - Sudbury	41	0	0	0	0	0	40	0	40	0	0	1	0	0	40	1	34	0	7	0	0	0
P.H.O.L. - Hamilton	337	1	2	0	3	1	330	3	327	2	1	0	0	0	327	2	321	1	8	0	0	0
P.H.O.L. - Peterborough	132	0	0	0	0	0	129	0	129	0	0	0	0	0	129	0	129	0	3	0	0	0
<b>Province of Ontario</b>	<b>5013</b>	<b>1</b>	<b>15</b>	<b>11</b>	<b>27</b>	<b>7</b>	<b>4998</b>	<b>30</b>	<b>3283</b>	<b>36</b>	<b>2</b>	<b>12</b>	<b>7</b>	<b>0</b>	<b>3168</b>	<b>17</b>	<b>3197</b>	<b>9</b>	<b>694</b>	<b>195</b>	<b>567</b>	<b>0</b>
Manitoba	1446	0	0	2	2	2	1446	5	1003	4	1	1	0	0	1003	14	450	2	1003	190	450	1
Regina	1357	0	0	13	13	0	1357	5	779	4	0	0	0	0	779	8	672	0	779	231	779	0
Saskatoon	697	0	0	1	1	0	697	6	697	13	1	1	1	0	697	17	700	0	697	238	697	1
Saskatchewan	2054	0	0	14	14	0	2054	11	1476	17	1	1	1	0	1476	25	1372	0	1476	469	1476	1
Alberta	3923	3	34	14	51	6	3502	0	3502	44	10	8	8	0	3502	57	3502	12	3502	1228	3502	9
<b>Prairies</b>	<b>7423</b>	<b>3</b>	<b>34</b>	<b>30</b>	<b>67</b>	<b>8</b>	<b>7002</b>	<b>16</b>	<b>5981</b>	<b>65</b>	<b>12</b>	<b>10</b>	<b>9</b>	<b>0</b>	<b>5981</b>	<b>96</b>	<b>5324</b>	<b>14</b>	<b>5981</b>	<b>1887</b>	<b>5428</b>	<b>11</b>
<b>Province of British Columbia</b>	<b>2428</b>	<b>4</b>	<b>45</b>	<b>29</b>	<b>100</b>	<b>0</b>	<b>2316</b>	<b>10</b>	<b>1171</b>	<b>24</b>	<b>7</b>	<b>8</b>	<b>4</b>	<b>0</b>	<b>1171</b>	<b>6</b>	<b>1161</b>	<b>50</b>	<b>1012</b>	<b>276</b>	<b>1094</b>	<b>4</b>
Yukon	233	0	9	3	8	0	233	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	66	0	0	0	0	0	65	0	65	0	0	0	0	0	65	0	65	2	65	43	65	1
Nunavut	16	0	0	0	0	0	16	0	16	0	3	0	0	0	16	2	16	0	16	7	16	0
<b>Territories</b>	<b>315</b>	<b>0</b>	<b>9</b>	<b>3</b>	<b>8</b>	<b>0</b>	<b>314</b>	<b>0</b>	<b>81</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>81</b>	<b>2</b>	<b>81</b>	<b>2</b>	<b>81</b>	<b>50</b>	<b>81</b>	<b>1</b>
<b>CANADA</b>	<b>21515</b>	<b>9</b>	<b>104</b>	<b>122</b>	<b>253</b>	<b>23</b>	<b>21071</b>	<b>106</b>	<b>14468</b>	<b>175</b>	<b>27</b>	<b>34</b>	<b>22</b>	<b>0</b>	<b>14369</b>	<b>250</b>	<b>13399</b>	<b>83</b>	<b>8431</b>	<b>2622</b>	<b>10734</b>	<b>23</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

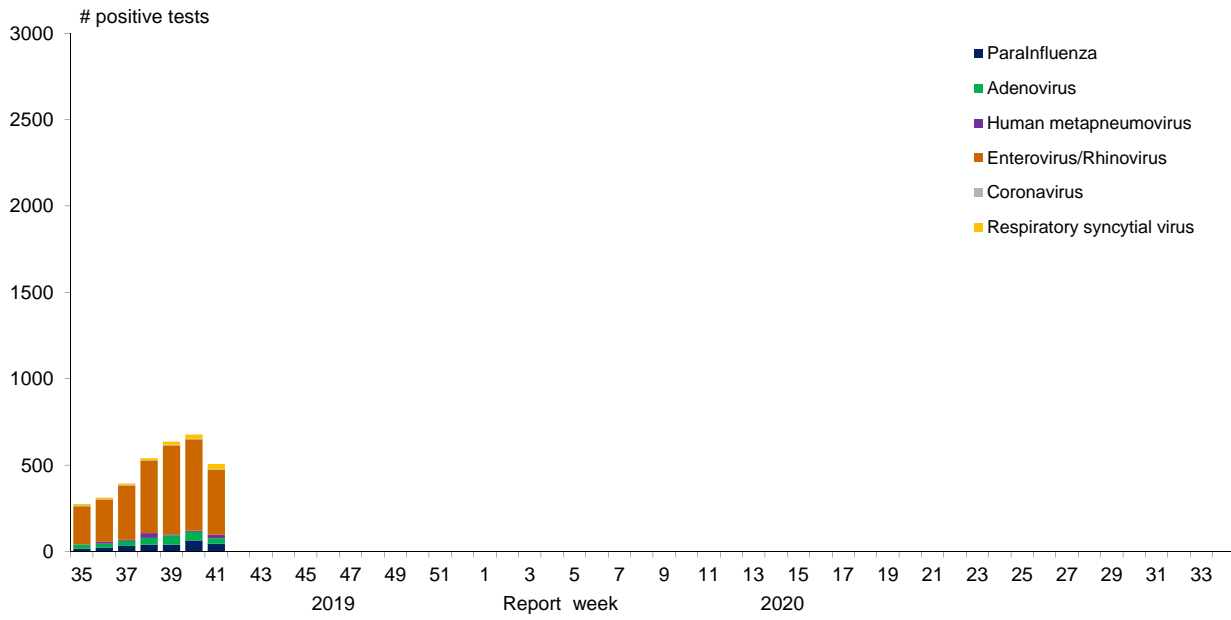


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

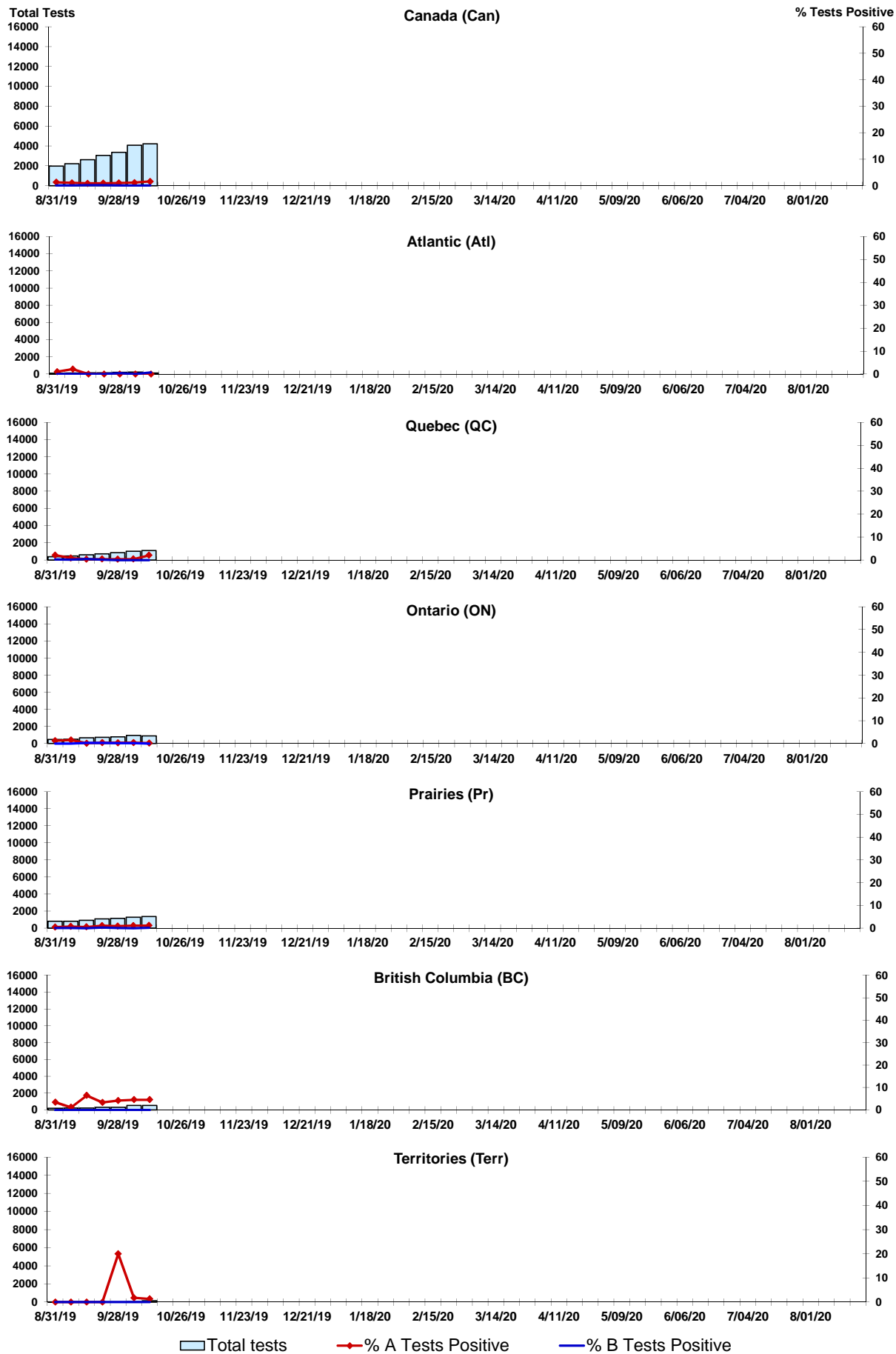


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

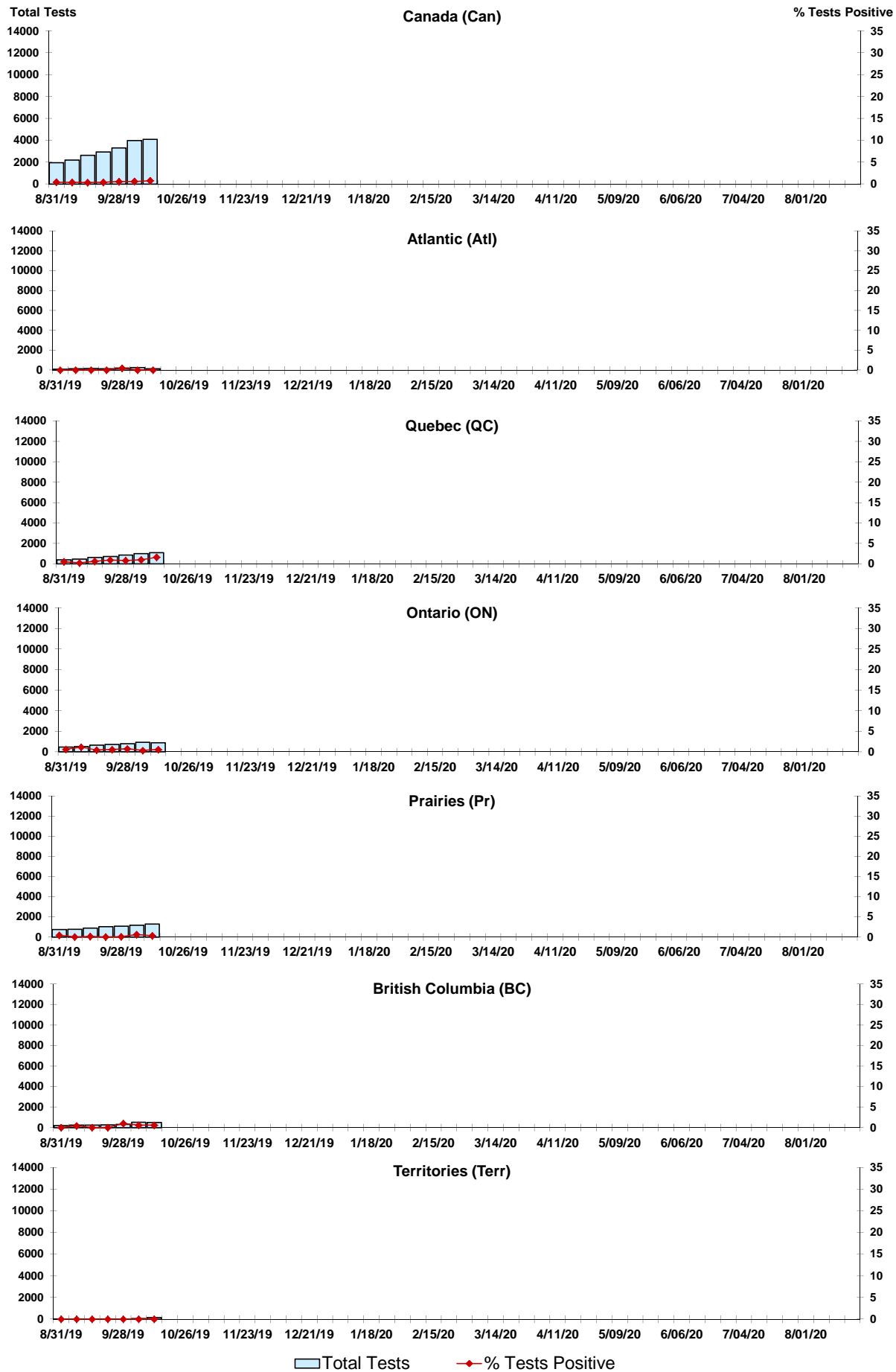


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

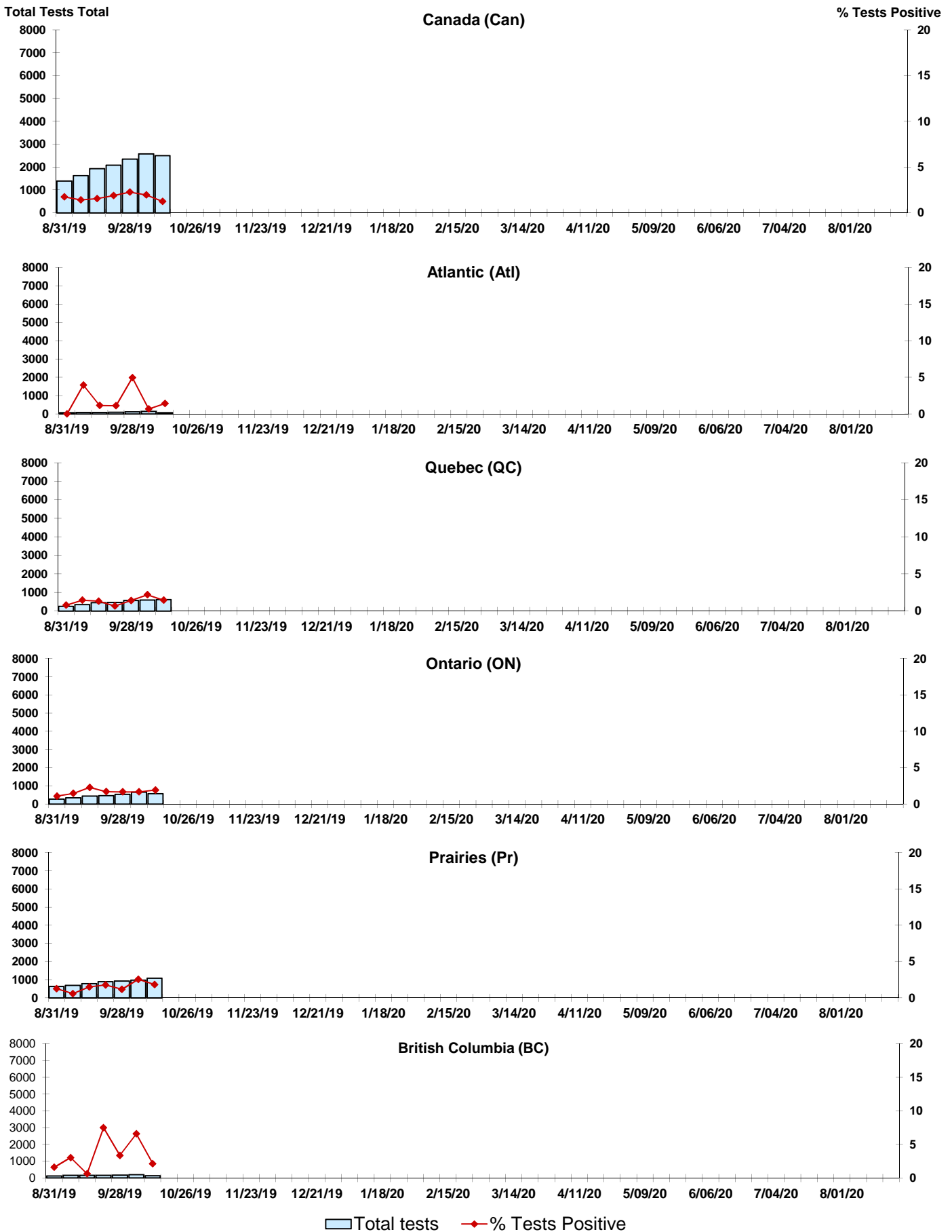


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

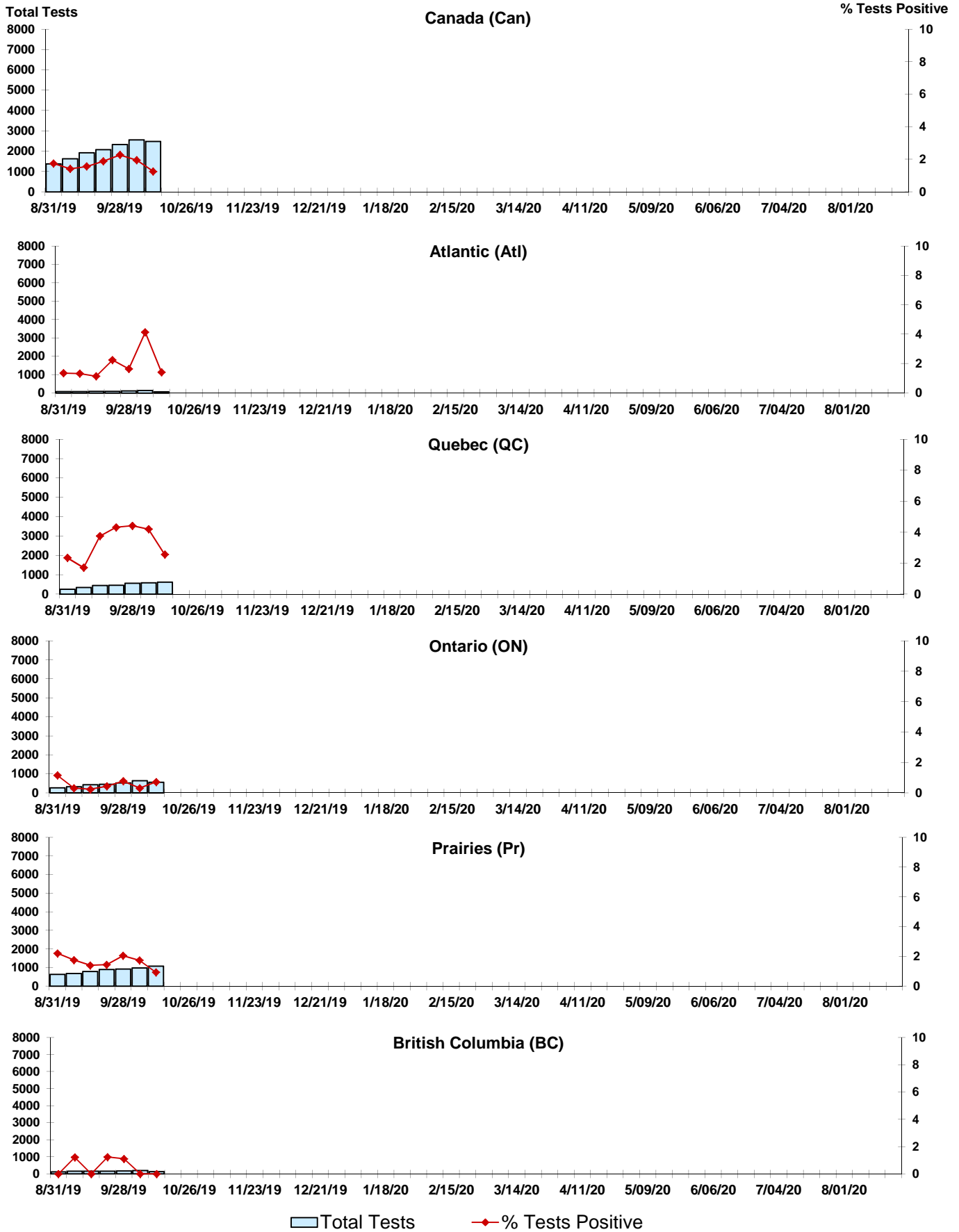


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

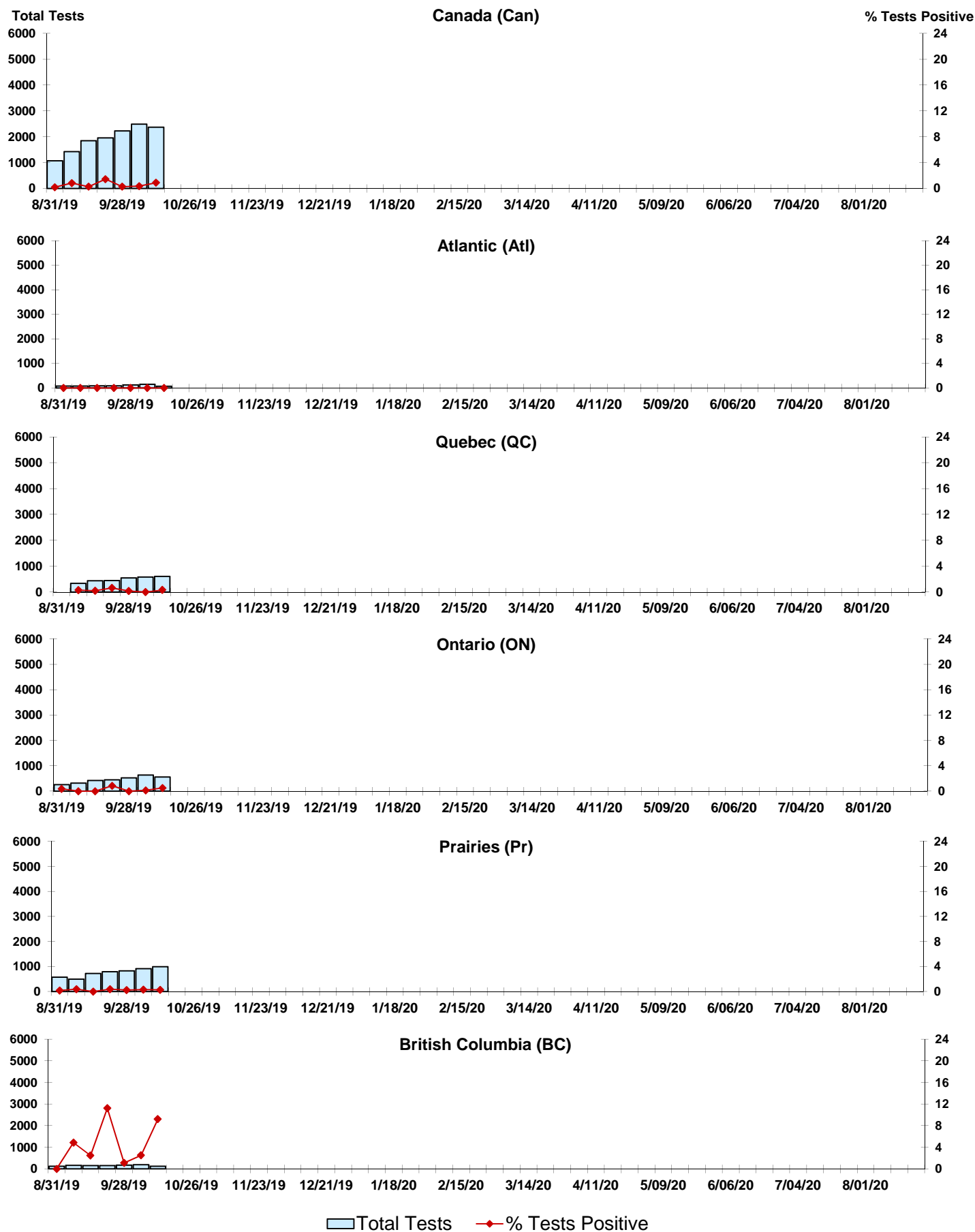




Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

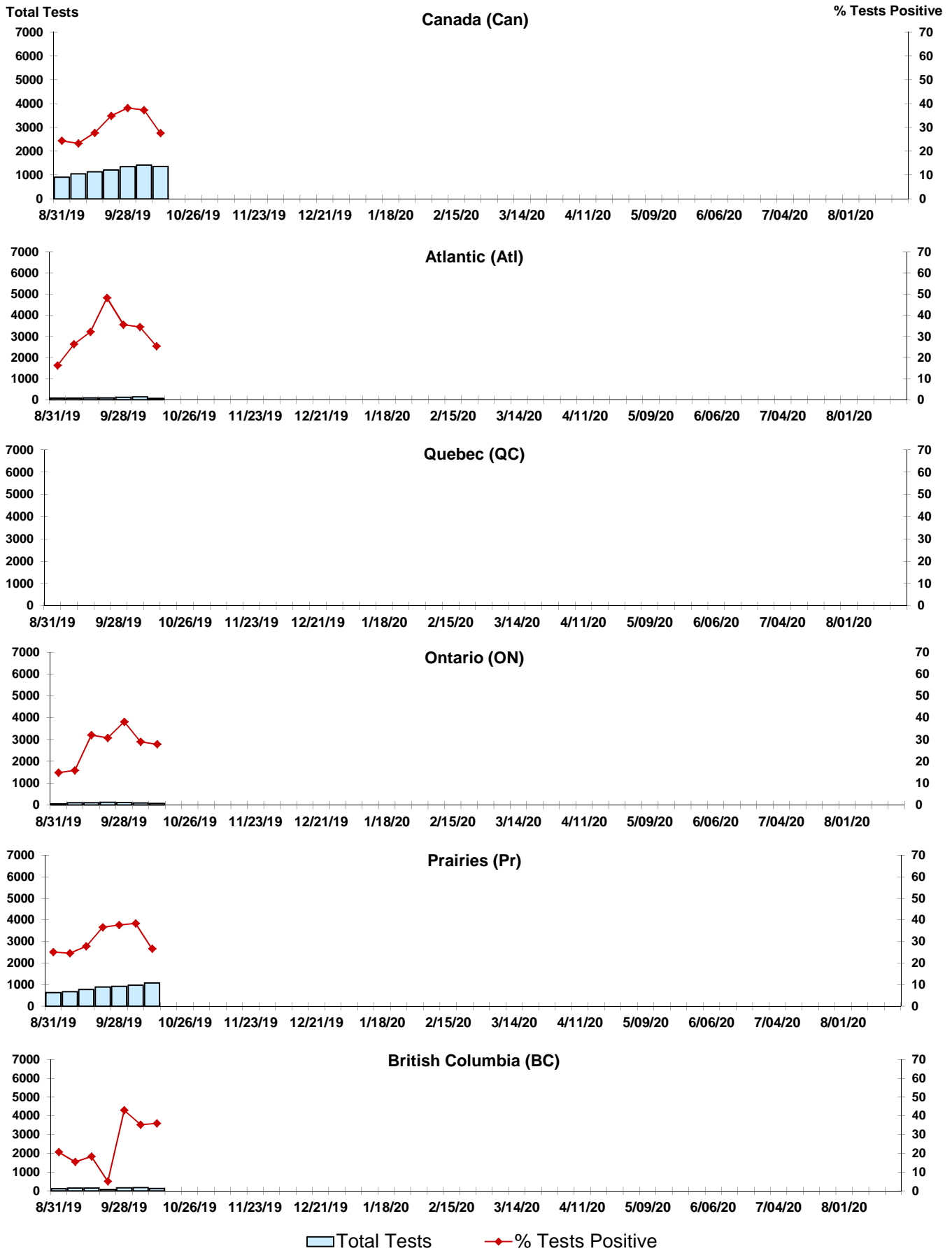
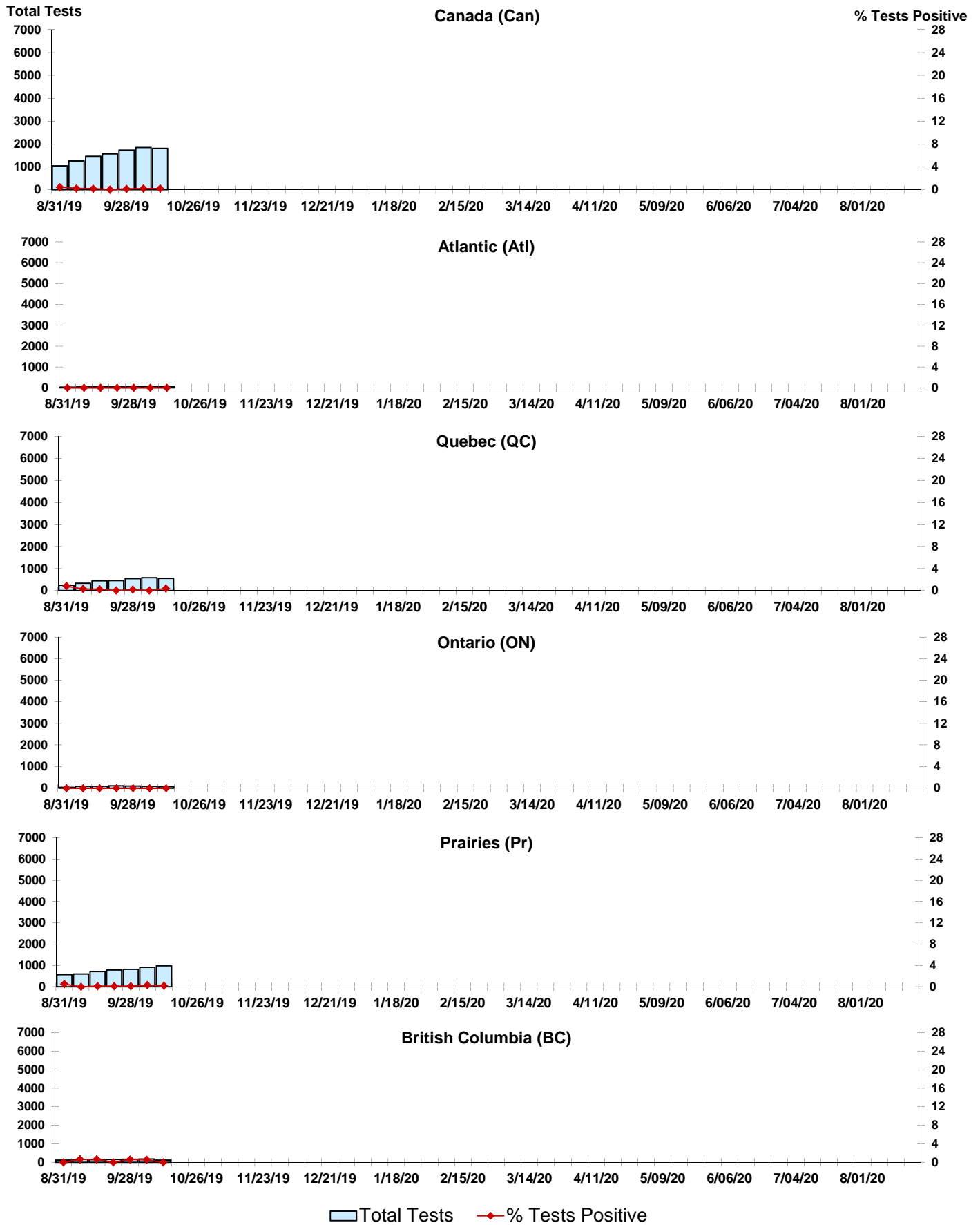


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



## 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

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.