

# Respiratory Virus Detections in Canada

## Respiratory Virus Report, Week 08 - ending February 23, 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 February 23, 2019 (Reporting Week 201908)**

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	182	0	0	32	32	0	182	32	182	0	5	2	0	0	182	3	182	4	182	8	N.A.	N.A.
Prince Edward Island	45	2	0	0	2	0	45	7	2	0	0	0	0	0	2	0	2	0	2	0	2	1
Nova Scotia	244	0	0	76	76	2	246	24	9	0	0	0	0	0	9	0	9	0	9	0	9	0
New Brunswick	544	14	2	120	136	0	544	120	134	0	0	0	0	0	134	0	134	12	134	10	134	14
<b>Atlantic</b>	<b>1015</b>	<b>16</b>	<b>2</b>	<b>228</b>	<b>246</b>	<b>2</b>	<b>1017</b>	<b>183</b>	<b>327</b>	<b>0</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>327</b>	<b>3</b>	<b>327</b>	<b>16</b>	<b>327</b>	<b>18</b>	<b>145</b>	<b>15</b>
Région Nord-Est	299	0	0	43	43	1	255	50	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	436	0	0	91	91	0	470	58	107	0	0	2	0	0	112	5	86	0	N.A.	N.A.	86	3
Centre-du-Québec	760	0	0	134	134	3	603	112	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1281	0	0	196	196	7	1266	94	524	3	0	5	0	0	524	11	514	19	N.A.	N.A.	514	28
Ouest du Québec	418	0	0	90	90	2	398	59	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	234	0	0	40	40	2	234	42	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>3428</b>	<b>0</b>	<b>0</b>	<b>594</b>	<b>594</b>	<b>15</b>	<b>3226</b>	<b>415</b>	<b>631</b>	<b>3</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>636</b>	<b>16</b>	<b>600</b>	<b>19</b>	<b>N.A.</b>	<b>N.A.</b>	<b>600</b>	<b>31</b>
Ottawa P.H.L.	42	3	1	2	6	0	42	7	12	0	0	0	0	0	12	0	11	0	1	0	0	0
CHEO - Ottawa	304	0	0	44	44	0	304	53	20	1	0	0	0	0	20	1	20	2	20	6	20	0
Kingston P.H.L.	23	3	6	0	9	0	23	3	10	0	0	0	0	0	10	0	9	0	1	0	0	0
UHN / Mount Sinai Hospital	351	0	0	23	23	1	351	15	11	0	0	0	0	0	0	0	11	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	350	26	32	2	60	2	339	28	240	0	0	1	0	0	240	1	232	6	8	0	0	0
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunnybrook & Women's College HSC	69	2	4	1	7	1	69	3	69	0	0	1	0	0	69	0	69	5	69	6	69	2
Sault Ste. Marie P.H.L.	20	1	0	0	1	0	19	1	19	0	0	0	0	0	19	0	18	0	1	0	0	0
Timmins P.H.L.	19	7	1	0	8	0	10	1	10	0	0	0	0	0	10	0	10	0	0	0	0	0
St. Joseph's - London	194	0	0	41	41	0	194	17	46	0	0	0	0	0	46	0	46	1	46	1	28	0
London P.H.L.	132	12	8	9	29	0	131	19	78	0	1	1	0	0	78	0	73	4	5	0	0	0
Orillia P.H.L.	49	6	2	4	12	0	49	9	5	0	0	0	0	0	5	0	5	0	0	0	0	0
Thunder Bay P.H.L.	19	0	4	0	4	0	13	2	13	0	0	0	0	0	13	0	13	1	0	0	0	0
Sudbury P.H.L.	34	2	0	0	2	0	24	2	24	0	0	0	0	0	24	0	24	0	0	0	0	0
Hamilton P.H.L.	124	5	6	8	19	0	120	2	93	0	0	1	0	0	93	1	93	1	0	0	0	0
Peterborough P.H.L.	21	0	2	1	3	0	21	1	13	0	0	0	0	0	13	0	13	0	0	0	0	0
<b>Province of Ontario</b>	<b>1751</b>	<b>67</b>	<b>66</b>	<b>135</b>	<b>268</b>	<b>4</b>	<b>1709</b>	<b>163</b>	<b>663</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>652</b>	<b>3</b>	<b>647</b>	<b>20</b>	<b>151</b>	<b>13</b>	<b>117</b>	<b>2</b>
Manitoba	331	0	2	10	12	0	320	39	146	0	1	4	1	0	146	0	118	2	146	6	118	14
Regina	150	1	1	0	2	2	150	36	150	1	0	7	0	0	150	4	150	6	150	18	150	13
Saskatoon	174	0	0	3	3	1	174	24	174	0	2	2	0	0	174	0	174	5	174	6	174	7
Province of Saskatchewan	324	1	1	3	5	3	324	60	324	1	2	9	0	0	324	4	324	11	324	24	324	20
Province of Alberta	770	28	27	17	72	10	667	0	667	0	6	17	2	0	667	10	667	30	667	51	667	46
<b>Prairies</b>	<b>1425</b>	<b>29</b>	<b>30</b>	<b>30</b>	<b>89</b>	<b>13</b>	<b>1311</b>	<b>99</b>	<b>1137</b>	<b>1</b>	<b>9</b>	<b>30</b>	<b>3</b>	<b>0</b>	<b>1137</b>	<b>14</b>	<b>1109</b>	<b>43</b>	<b>1137</b>	<b>81</b>	<b>1109</b>	<b>80</b>
<b>British Columbia</b>	<b>762</b>	<b>83</b>	<b>101</b>	<b>116</b>	<b>300</b>	<b>5</b>	<b>762</b>	<b>101</b>	<b>307</b>	<b>0</b>	<b>3</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>307</b>	<b>6</b>	<b>307</b>	<b>1</b>	<b>210</b>	<b>21</b>	<b>210</b>	<b>32</b>
Yukon	14	3	0	2	5	0	14	3	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	19	1	0	0	1	0	19	0	19	0	0	1	0	0	19	1	19	0	19	2	19	5
Nunavut	1	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
<b>Territories</b>	<b>34</b>	<b>5</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>34</b>	<b>3</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>1</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>2</b>	<b>20</b>	<b>5</b>
<b>CANADA</b>	<b>8415</b>	<b>200</b>	<b>199</b>	<b>1105</b>	<b>1504</b>	<b>39</b>	<b>8059</b>	<b>964</b>	<b>3085</b>	<b>5</b>	<b>18</b>	<b>52</b>	<b>5</b>	<b>0</b>	<b>3079</b>	<b>43</b>	<b>3010</b>	<b>99</b>	<b>1845</b>	<b>135</b>	<b>2201</b>	<b>165</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, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Interior Health Authority sites and Northern Health Authority sites.

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

**Table 2: Respiratory Virus Detections/Isolations for the period August 26, 2018 - February 23, 2019 (Reporting Weeks 201835-201908)**

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	2562	1	0	356	357	2	2562	259	2562	0	40	58	0	0	2562	24	2562	35	2562	261	N.A.	N.A.
Prince Edward Island	775	185	0	0	185	0	773	56	62	1	0	1	3	0	57	5	57	0	57	21	57	1
Nova Scotia	2055	0	0	336	336	6	2074	192	393	0	3	10	2	0	393	0	393	4	393	58	393	5
New Brunswick	8721	197	15	1755	1967	2	8724	718	2226	0	16	10	38	0	2226	107	2226	44	2226	261	2226	85
<b>Atlantic</b>	<b>14113</b>	<b>383</b>	<b>15</b>	<b>2447</b>	<b>2845</b>	<b>10</b>	<b>14133</b>	<b>1225</b>	<b>5243</b>	<b>1</b>	<b>59</b>	<b>79</b>	<b>43</b>	<b>0</b>	<b>5238</b>	<b>136</b>	<b>5238</b>	<b>83</b>	<b>5238</b>	<b>601</b>	<b>2676</b>	<b>91</b>
Région Nord-Est	5954	0	0	1189	1189	6	4590	306	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	9887	0	0	2217	2217	13	10204	1142	2013	4	29	16	8	0	2074	74	1683	12	N.A.	N.A.	1523	13
Centre-du-Québec	12017	0	0	2670	2670	128	9636	1130	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	27618	0	0	3327	3327	59	26732	2395	14873	50	146	69	35	0	14873	431	14576	168	N.A.	N.A.	14525	586
Ouest du Québec	9395	0	0	2115	2115	24	8493	1190	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	5963	0	0	1026	1027	10	5857	502	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>70834</b>	<b>0</b>	<b>0</b>	<b>12544</b>	<b>12545</b>	<b>240</b>	<b>65512</b>	<b>6665</b>	<b>16886</b>	<b>54</b>	<b>175</b>	<b>85</b>	<b>43</b>	<b>0</b>	<b>16983</b>	<b>505</b>	<b>16259</b>	<b>180</b>	<b>N.A.</b>	<b>N.A.</b>	<b>16048</b>	<b>599</b>
Ottawa P.H.L.	698	81	30	19	130	0	693	68	378	0	3	3	0	0	378	0	360	3	21	0	0	0
CHEO - Ottawa	5400	0	0	538	538	11	5400	740	605	1	7	5	5	0	606	19	605	12	598	158	592	25
Kingston P.H.L.	654	54	23	8	85	2	654	51	482	0	3	5	0	0	482	0	464	3	58	0	0	0
UHN / Mount Sinai Hospital	8036	5	8	537	550	18	8036	391	412	0	9	0	2	0	0	0	388	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	9868	773	360	66	1199	32	9557	427	7724	12	56	28	0	0	7725	33	7519	56	353	0	0	0
Sick Kids Hospital - Toronto	1646	98	9	71	178	3	1458	194	1458	9	34	20	21	0	1458	54	1458	40	1458	371	1458	94
Sunnybrook & Women's College HSC	1739	66	41	9	116	3	1739	54	1739	4	5	6	1	0	1739	1	1739	28	1739	154	1739	66
Sault Ste. Marie P.H.L.	252	27	2	1	30	0	227	7	219	0	3	0	0	0	219	0	214	3	7	0	0	0
Timmins P.H.L.	257	52	1	0	53	0	202	2	202	0	7	3	0	0	202	0	196	1	14	0	0	0
St. Joseph's - London	2894	3	0	315	318	0	2887	311	1017	2	5	6	12	0	1017	24	1017	31	731	135	583	10
London P.H.L.	2857	287	53	53	393	5	2820	274	1963	2	19	9	0	0	1963	13	1902	15	103	0	0	0
Orillia P.H.L.	772	52	19	13	84	1	772	106	525	1	2	4	0	0	525	1	513	5	24	0	0	0
Thunder Bay P.H.L.	264	28	8	5	41	0	221	6	214	1	1	8	0	0	213	0	202	6	19	0	0	0
Sudbury P.H.L.	584	36	2	0	38	0	529	27	527	1	4	0	0	0	527	2	503	8	42	0	0	0
Hamilton P.H.L.	2565	197	66	30	293	4	2516	119	1983	2	14	16	0	0	1983	11	1951	10	66	0	0	0
Peterborough P.H.L.	767	41	15	17	73	2	764	39	617	2	3	0	0	0	617	0	610	4	9	0	0	0
<b>Province of Ontario</b>	<b>39253</b>	<b>1800</b>	<b>637</b>	<b>1682</b>	<b>4119</b>	<b>81</b>	<b>38485</b>	<b>2816</b>	<b>20065</b>	<b>37</b>	<b>175</b>	<b>113</b>	<b>41</b>	<b>0</b>	<b>19654</b>	<b>158</b>	<b>19641</b>	<b>227</b>	<b>5317</b>	<b>821</b>	<b>4454</b>	<b>200</b>
Manitoba	7143	270	8	716	994	6	7013	343	2800	0	11	20	12	0	2800	29	1651	38	2800	339	1685	49
Regina	6692	1393	67	147	1607	8	6692	310	8625	4	59	105	35	0	6692	95	6692	80	6692	1262	6692	114
Saskatoon	4412	0	0	680	680	9	4412	269	4412	2	7	11	10	0	4412	26	4412	33	4412	258	4412	36
Province of Saskatchewan	11104	1393	67	827	2287	17	11104	579	13037	6	66	116	45	0	11104	121	11104	113	11104	1520	11104	150
Province of Alberta	25865	3485	178	1719	5382	74	20786	0	20786	23	190	255	208	0	20786	267	20786	398	20786	3283	20786	877
<b>Prairies</b>	<b>44112</b>	<b>5148</b>	<b>253</b>	<b>3262</b>	<b>8663</b>	<b>97</b>	<b>38903</b>	<b>922</b>	<b>36623</b>	<b>29</b>	<b>267</b>	<b>391</b>	<b>265</b>	<b>0</b>	<b>34690</b>	<b>417</b>	<b>33541</b>	<b>549</b>	<b>34690</b>	<b>5142</b>	<b>33575</b>	<b>1076</b>
British Columbia	15580	2473	329	876	3678	33	15580	861	6578	10	58	153	88	0	6578	89	6578	21	5078	1220	5078	225
Yukon	255	50	1	17	68	0	255	15	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	567	151	2	0	153	0	563	0	563	0	0	20	3	0	563	19	563	3	563	105	563	23
Nunavut	62	19	0	0	19	0	62	0	62	0	0	0	0	0	62	9	61	0	62	19	61	6
<b>Territories</b>	<b>884</b>	<b>220</b>	<b>3</b>	<b>17</b>	<b>240</b>	<b>0</b>	<b>880</b>	<b>15</b>	<b>625</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>3</b>	<b>0</b>	<b>625</b>	<b>28</b>	<b>624</b>	<b>3</b>	<b>625</b>	<b>124</b>	<b>624</b>	<b>29</b>
<b>CANADA</b>	<b>184776</b>	<b>10024</b>	<b>1237</b>	<b>20828</b>	<b>32090</b>	<b>461</b>	<b>173493</b>	<b>12504</b>	<b>86020</b>	<b>131</b>	<b>734</b>	<b>841</b>	<b>483</b>	<b>0</b>	<b>83768</b>	<b>1333</b>	<b>81881</b>	<b>1063</b>	<b>50948</b>	<b>7908</b>	<b>62455</b>	<b>2220</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, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, 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.

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2018-19

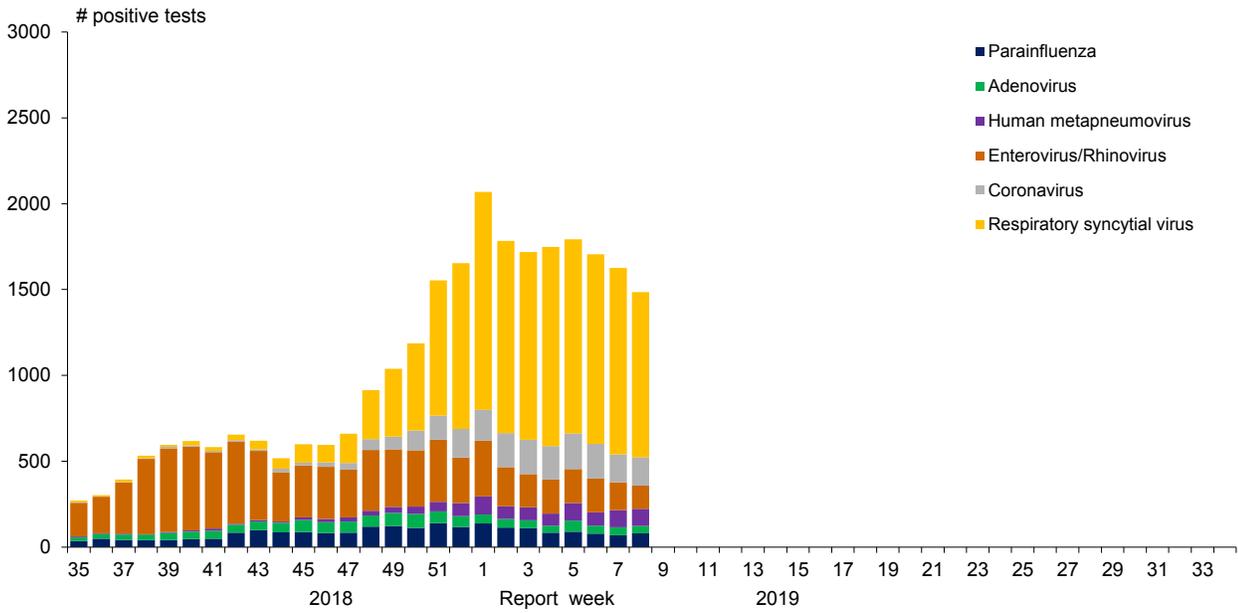


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

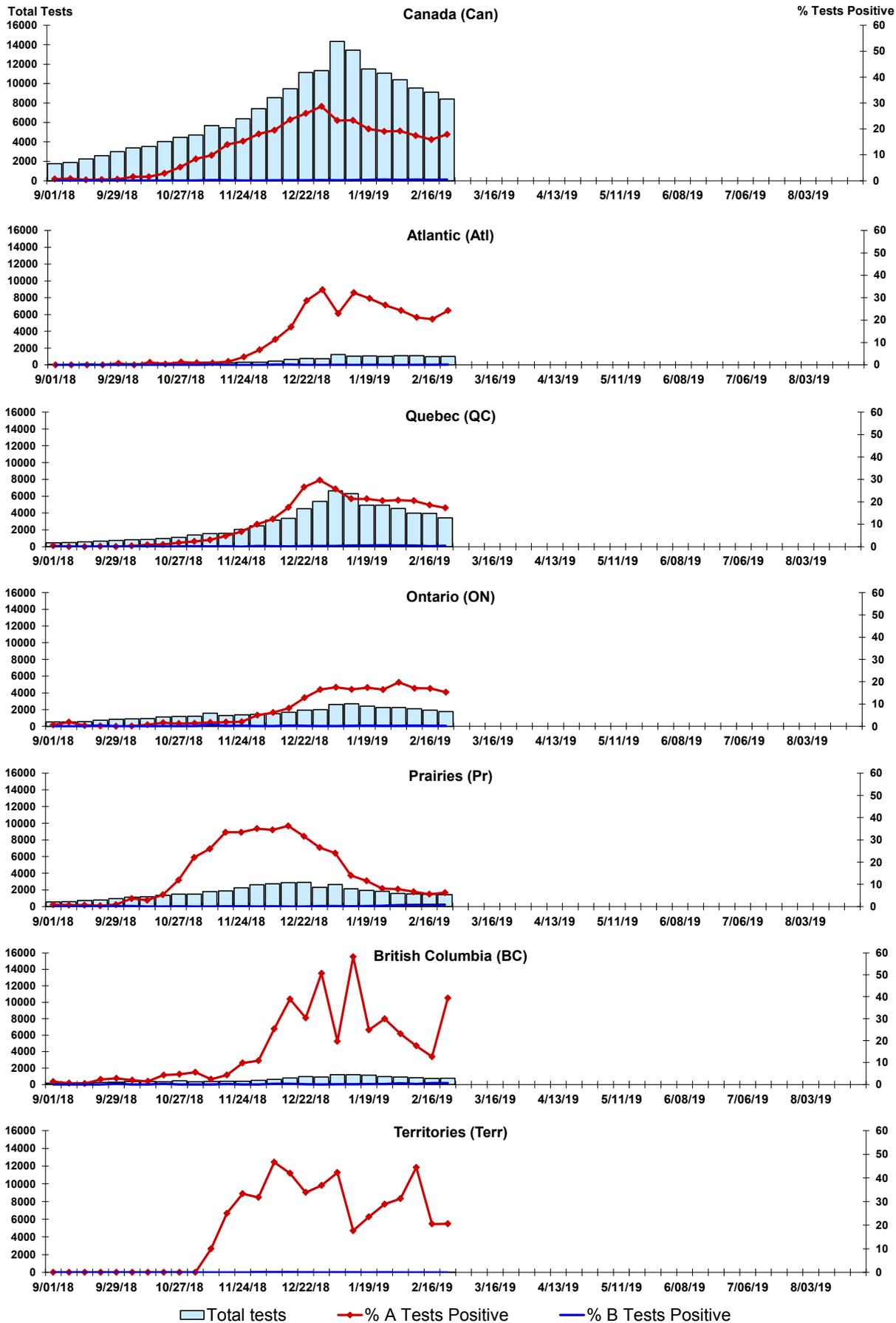


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

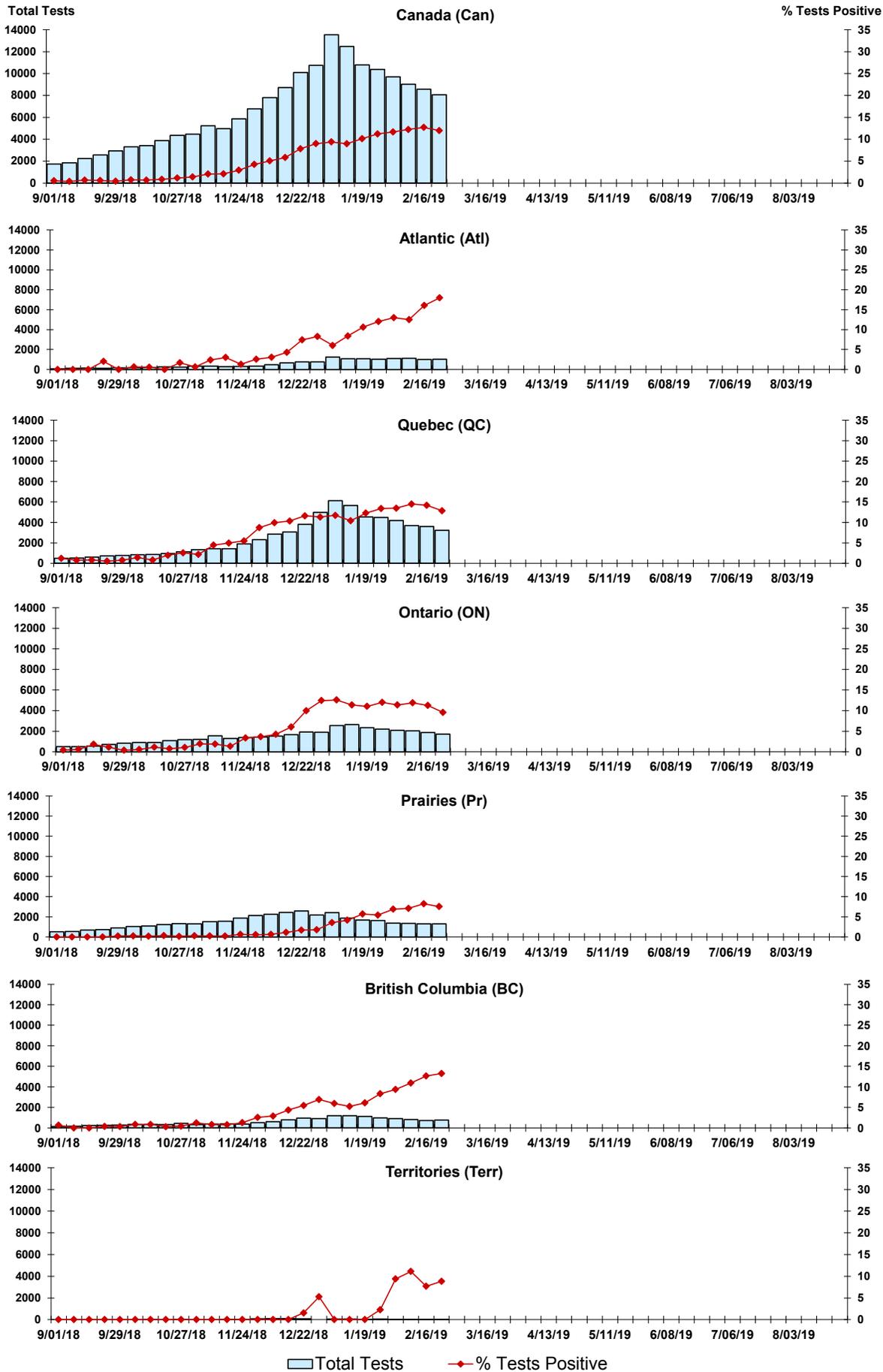


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

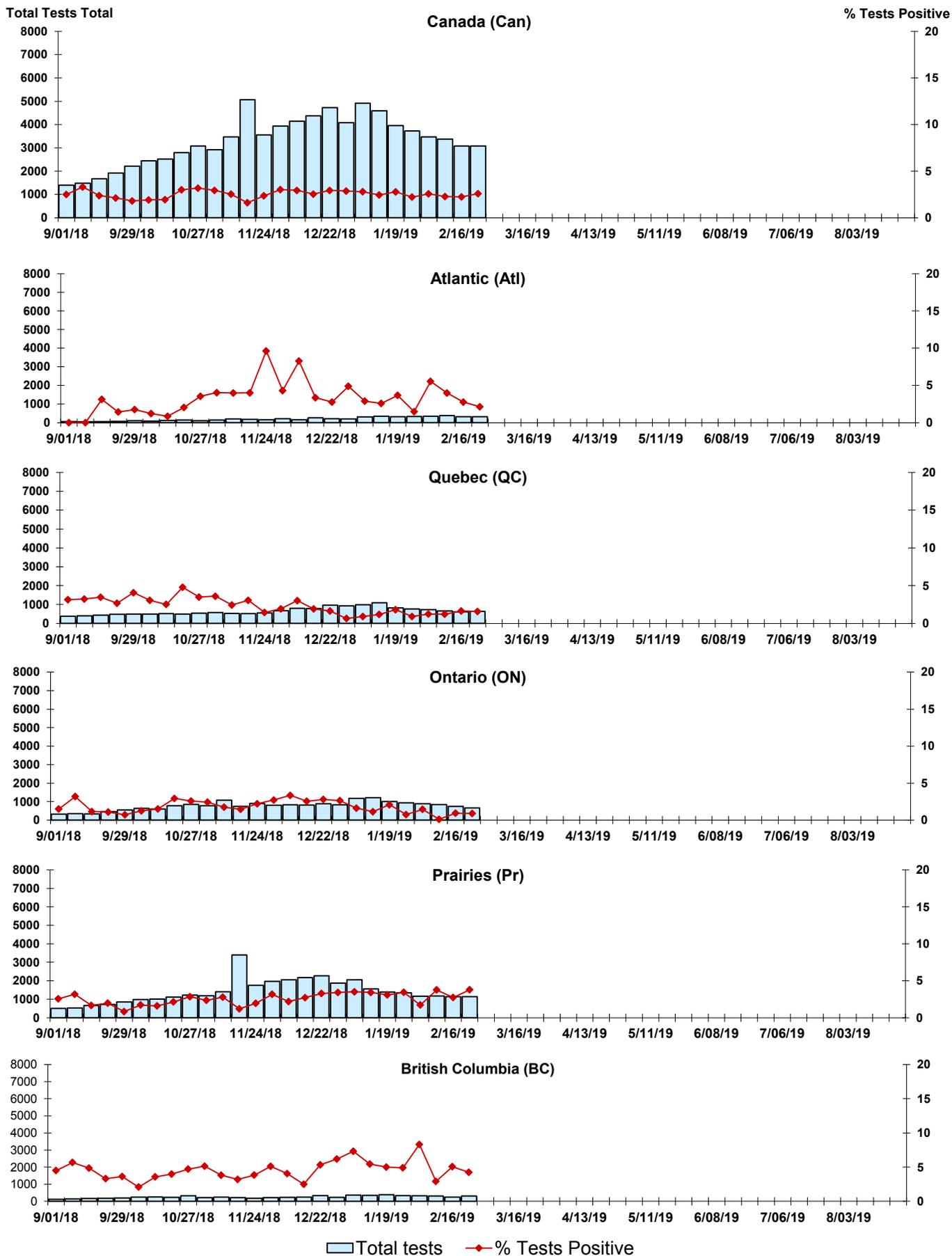


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

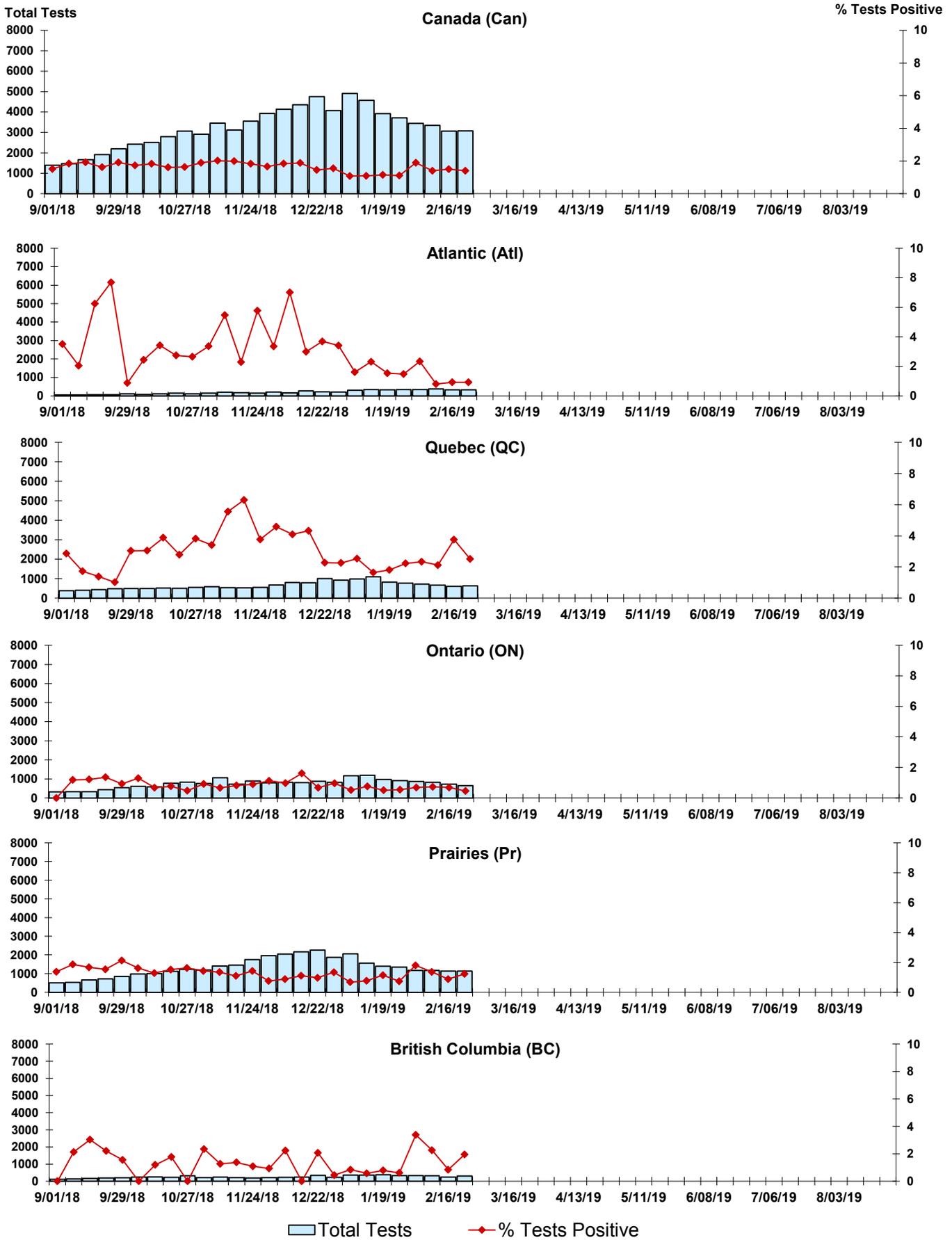
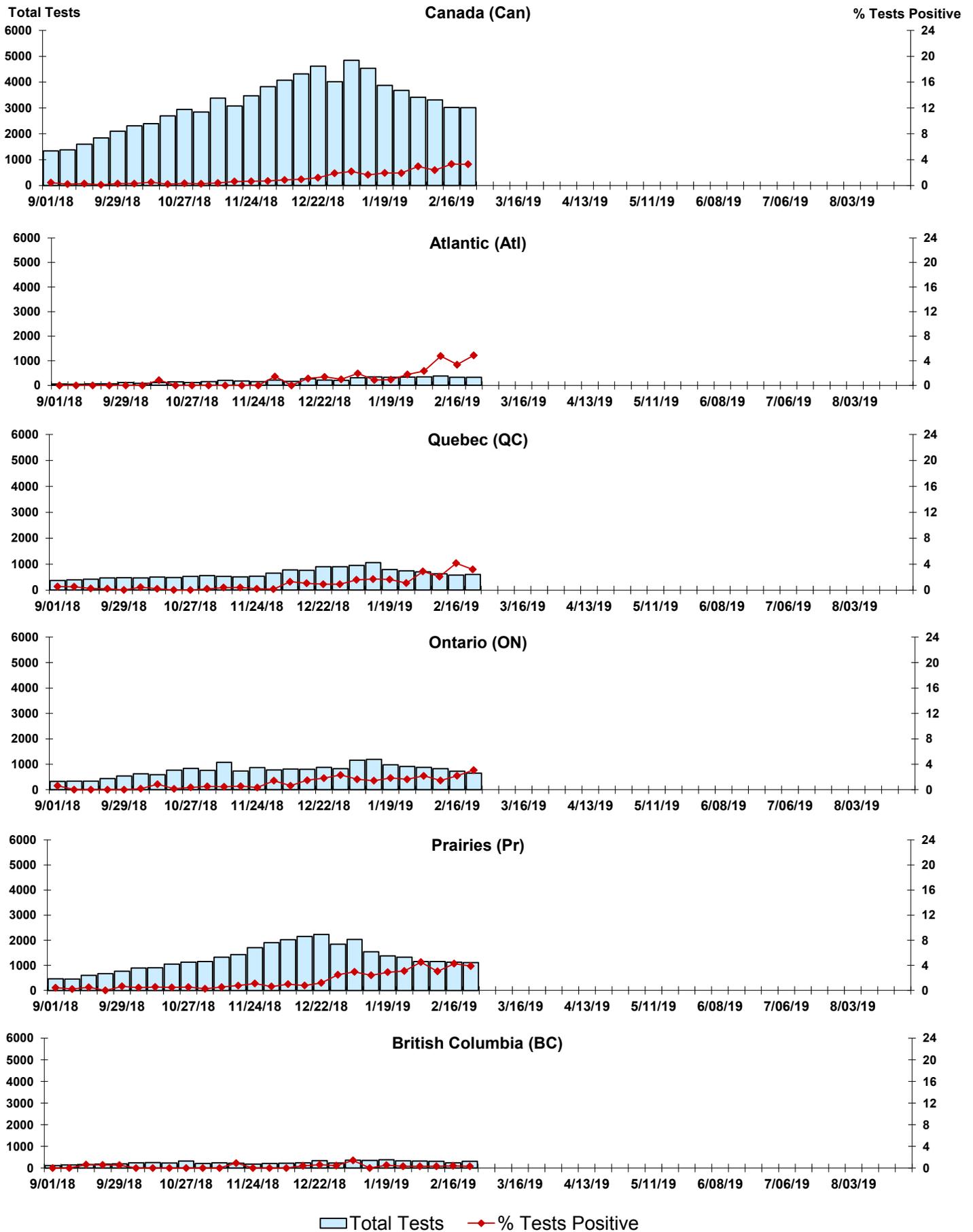


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



Legend: Total Tests (light blue bar), % Tests Positive (red line with diamond)

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

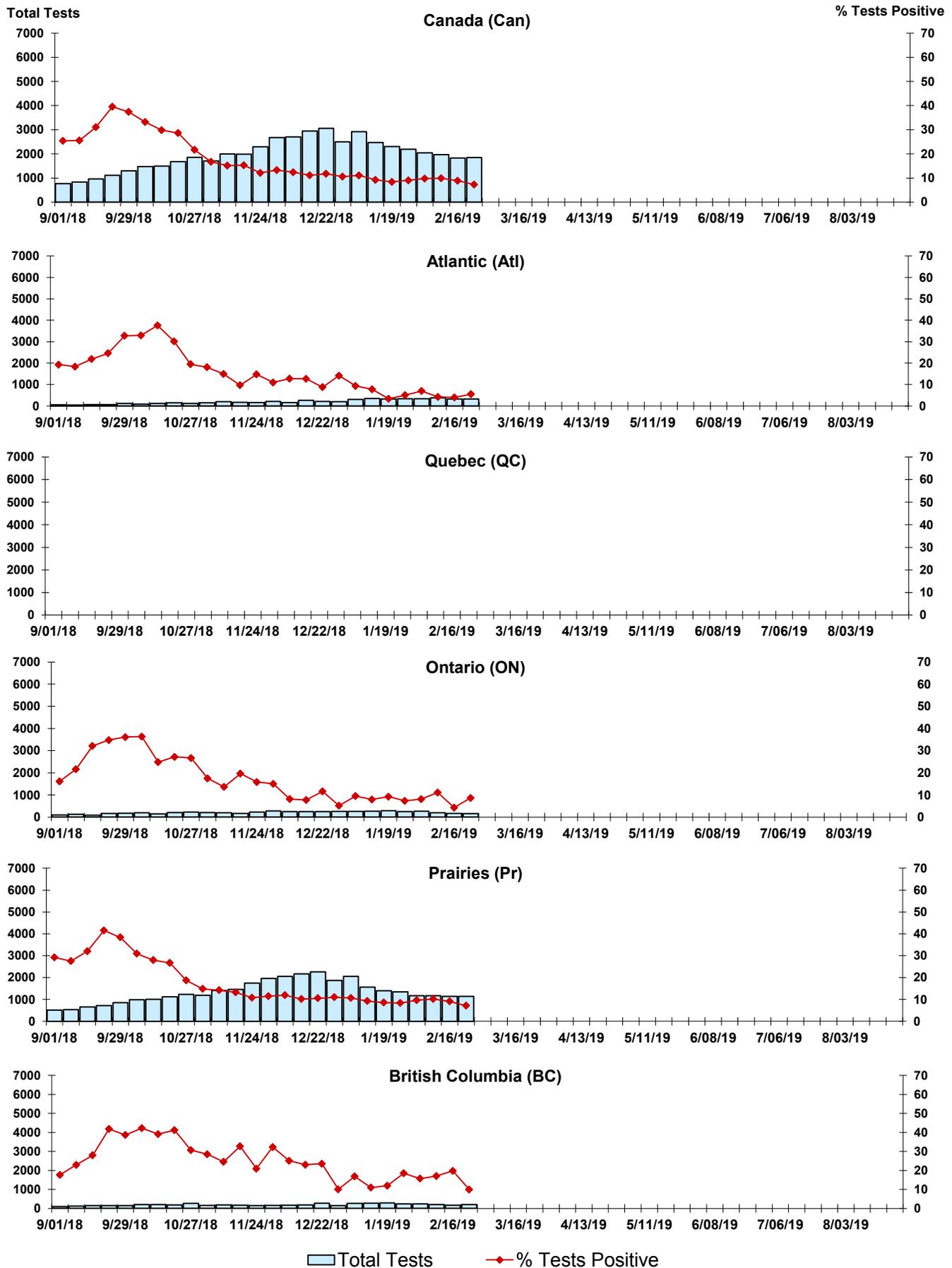
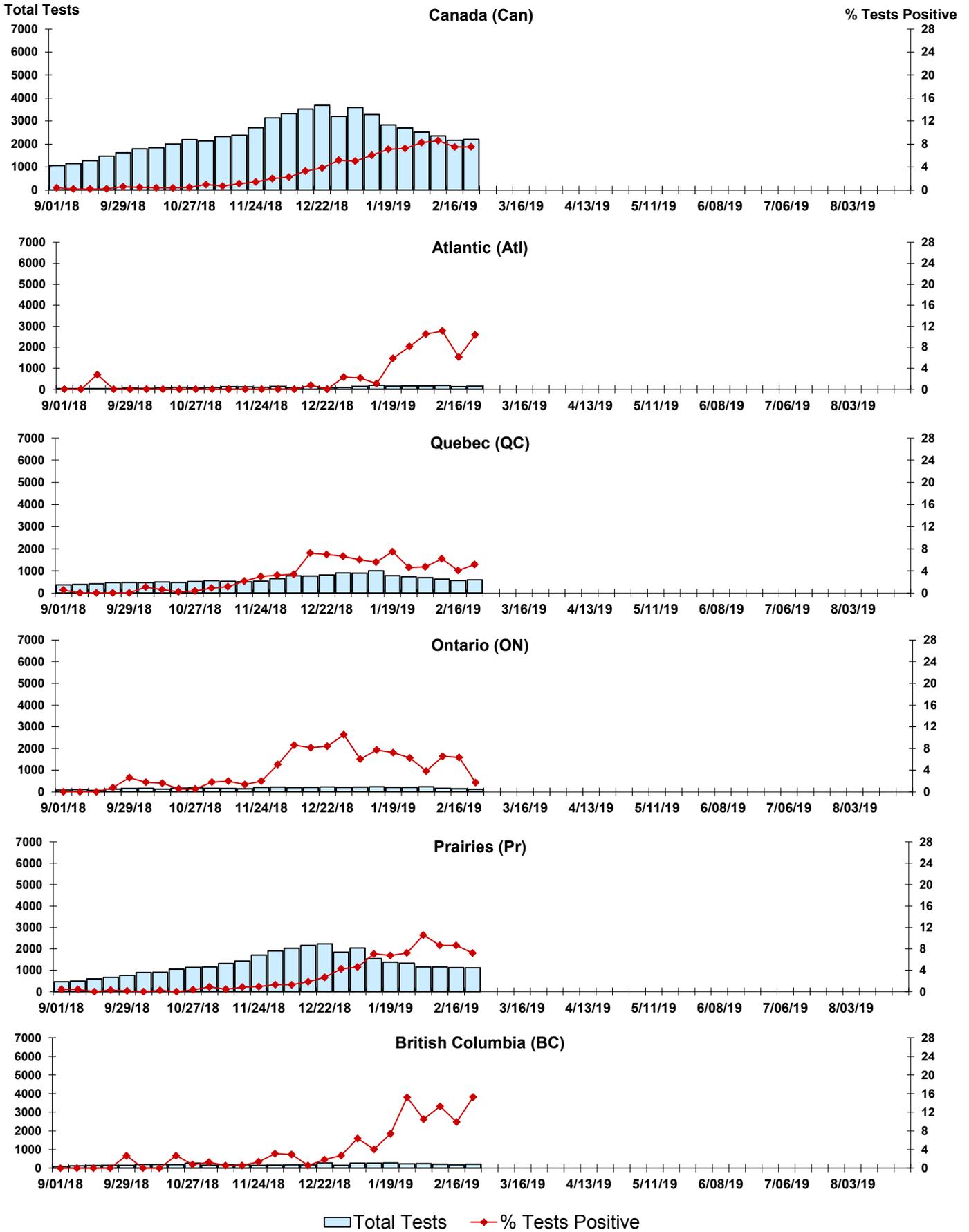


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



## 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.L.: Public Health Laboratory

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.