

# Respiratory Virus Report, Week 41 - ending October 10, 2020

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.

In this Respiratory Virus Report, the number of detections of coronavirus reflects only seasonal human coronaviruses, not the novel pandemic coronavirus (SARS-CoV2) that causes COVID-19. For information on COVID-19, see the [Coronavirus disease \(COVID-19\): Outbreak](#)

**Table 1: Respiratory Virus Detections/Isolations for the week ending October 10, 2020 (Reporting Week 202041)**

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	210	0	0	0	0	0	210	0	210	0	0	0	0	0	210	1	210	0	210	51	N.A.	N.A.
Prince Edward Island	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	4	1	4	0
Nova Scotia	22	0	0	0	0	0	22	0	21	0	0	0	0	0	21	0	21	0	21	3	21	0
New Brunswick	10	0	0	0	0	0	10	0	15	0	0	0	0	0	15	0	15	0	15	2	15	0
<b>Atlantic</b>	<b>246</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>246</b>	<b>0</b>	<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>1</b>	<b>250</b>	<b>0</b>	<b>250</b>	<b>57</b>	<b>40</b>	<b>0</b>
Région Nord-Est	35	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	21	0	0	0	0	0	25	0	19	0	0	0	0	0	19	0	19	0	N.A.	N.A.	19	0
Centre-du-Québec	16	0	0	0	0	0	18	0	8	0	0	0	0	0	8	1	8	0	N.A.	N.A.	8	0
Montréal-Laval	132	0	0	0	0	0	133	0	103	0	0	0	0	0	103	5	103	0	N.A.	N.A.	103	0
Ouest du Québec	22	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>226</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>227</b>	<b>0</b>	<b>130</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130</b>	<b>6</b>	<b>130</b>	<b>0</b>	<b>N.A.</b>	<b>N.A.</b>	<b>130</b>	<b>0</b>
P.H.O.L. - Ottawa	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	13	2	13	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	19	0	0	0	0	0	19	0	19	0	0	0	0	0	19	0	19	0	19	7	19	0
UHN / Mount Sinai Hospital	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	9	0	9	0
P.H.O.L. - Toronto	163	0	0	0	0	0	163	0	163	0	0	0	0	0	163	0	163	0	163	16	163	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	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. - Sault Ste. Marie	9	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	7	0	7	0
P.H.O.L. - Timmins	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	3	0	3	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	44	0	0	0	0	0	44	0	44	0	0	0	0	0	44	0	44	0	44	3	44	0
P.H.O.L. - Orillia	16	0	0	0	0	0	15	0	15	0	0	0	0	0	15	0	15	0	15	0	15	0
P.H.O.L. - Thunder Bay	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	5	2	5	0
P.H.O.L. - Sudbury	19	0	0	0	0	0	19	0	19	0	0	0	0	0	19	0	19	0	19	2	19	0
P.H.O.L. - Hamilton	48	0	0	0	0	0	44	0	44	0	0	0	0	0	44	0	44	0	44	5	44	0
P.H.O.L. - Peterborough	20	0	0	0	0	0	20	0	20	0	0	0	0	0	20	0	20	0	20	2	20	0
St. Joseph's - Hamilton	81	0	0	0	0	0	81	0	81	0	0	0	0	0	81	0	81	0	81	35	81	0
<b>Province of Ontario</b>	<b>449</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>442</b>	<b>0</b>	<b>442</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>433</b>	<b>0</b>	<b>442</b>	<b>0</b>	<b>433</b>	<b>74</b>	<b>352</b>	<b>0</b>
Province of Manitoba	731	0	0	0	0	0	731	4	75	0	0	0	0	0	75	0	67	0	75	9	67	0
Province of Saskatchewan	53	0	0	0	0	0	53	0	70	0	0	0	0	0	70	0	70	0	70	10	70	0
Province of Alberta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Prairies</b>	<b>784</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>784</b>	<b>4</b>	<b>145</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>145</b>	<b>0</b>	<b>137</b>	<b>0</b>	<b>145</b>	<b>19</b>	<b>137</b>	<b>0</b>
<b>British Columbia</b>	<b>1124</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1121</b>	<b>3</b>	<b>253</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>253</b>	<b>4</b>	<b>253</b>	<b>6</b>	<b>231</b>	<b>74</b>	<b>231</b>	<b>0</b>
Yukon	161	0	0	0	0	0	161	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nunavut	116	0	0	0	0	0	116	0	116	3	0	0	0	0	116	3	116	0	116	33	0	0
<b>Territories</b>	<b>277</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>277</b>	<b>0</b>	<b>116</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>3</b>	<b>116</b>	<b>0</b>	<b>116</b>	<b>33</b>	<b>0</b>	<b>0</b>
<b>CANADA</b>	<b>3106</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3097</b>	<b>7</b>	<b>1336</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1327</b>	<b>14</b>	<b>1328</b>	<b>6</b>	<b>1175</b>	<b>257</b>	<b>890</b>	<b>0</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 BC, only data from subtyped influenza A specimens are included in the weekly number of influenza detections and so 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 23, 2020 - October 10, 2020 (Reporting Weeks 202035-202041)**

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	2453	0	0	0	0	0	2453	5	2453	0	0	0	0	0	2453	10	2453	0	2453	983	N.A.	N.A.
Prince Edward Island	15	0	0	0	0	0	15	0	17	0	0	0	0	0	17	0	17	0	17	5	17	0
Nova Scotia	88	0	0	0	0	0	88	0	81	0	0	0	0	0	81	0	81	0	81	15	81	0
New Brunswick	139	0	0	0	0	0	139	0	98	0	0	0	0	0	89	3	89	0	89	13	62	0
<b>Atlantic</b>	<b>2695</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2695</b>	<b>5</b>	<b>2649</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2640</b>	<b>13</b>	<b>2640</b>	<b>0</b>	<b>2640</b>	<b>1016</b>	<b>160</b>	<b>0</b>
Région Nord-Est	121	0	0	0	0	0	103	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	121	0	0	0	0	0	142	0	104	0	0	0	0	0	106	4	101	0	N.A.	N.A.	101	0
Centre-du-Québec	55	0	0	0	0	0	58	0	40	0	0	0	0	0	38	1	40	0	N.A.	N.A.	40	0
Montréal-Laval	899	0	0	0	0	0	898	1	629	0	0	0	0	0	683	16	622	0	N.A.	N.A.	622	2
Ouest du Québec	98	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
<b>Province of Québec</b>	<b>1294</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1294</b>	<b>1</b>	<b>773</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>827</b>	<b>21</b>	<b>763</b>	<b>0</b>	<b>N.A.</b>	<b>N.A.</b>	<b>763</b>	<b>2</b>
P.H.O.L. - Ottawa	68	0	0	0	0	0	68	0	68	0	0	0	0	0	68	0	68	0	68	2	68	0
CHEO - Ottawa	629	0	0	1	1	10	226	2	124	0	0	0	0	0	124	0	124	0	124	14	124	0
P.H.O.L. - Kingston	150	0	0	0	0	0	150	0	150	0	0	0	0	0	150	2	148	0	150	62	148	0
UHN / Mount Sinai Hospital	23	0	0	0	0	0	23	0	96	0	1	1	1	0	0	0	56	2	0	0	40	0
P.H.O.L. - Toronto	918	0	0	0	0	0	918	1	918	0	0	0	0	1	919	3	918	0	918	39	918	2
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	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. - Sault Ste. Marie	14	0	0	0	0	0	12	0	12	0	0	0	0	0	12	0	12	0	12	0	12	0
P.H.O.L. - Timmins	36	0	0	0	0	0	36	0	36	0	0	0	0	0	36	0	36	0	36	8	36	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	194	0	0	0	0	0	194	0	194	0	0	0	0	0	194	0	190	0	194	15	190	0
P.H.O.L. - Orillia	39	0	0	0	0	0	37	0	37	0	0	0	0	0	37	0	37	0	37	0	37	0
P.H.O.L. - Thunder Bay	199	0	0	0	0	0	199	0	199	0	0	0	0	0	199	1	199	0	199	105	199	0
P.H.O.L. - Sudbury	56	0	0	0	0	0	56	0	56	0	0	0	0	0	56	0	56	0	56	3	56	0
P.H.O.L. - Hamilton	213	0	0	0	0	0	205	0	205	0	0	0	0	0	205	0	205	0	205	26	205	0
P.H.O.L. - Peterborough	89	0	0	0	0	0	86	0	86	0	0	0	0	0	86	0	86	0	86	5	86	0
St. Joseph's - Hamilton	331	0	0	0	0	0	331	0	331	0	0	0	0	0	331	0	331	0	331	46	0	0
<b>Province of Ontario</b>	<b>2959</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>10</b>	<b>2541</b>	<b>3</b>	<b>2512</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2417</b>	<b>6</b>	<b>2466</b>	<b>2</b>	<b>2416</b>	<b>325</b>	<b>2119</b>	<b>2</b>
Manitoba	3958	0	0	0	0	0	3958	10	559	0	1	0	0	0	559	7	510	0	559	53	510	1
Province of Saskatchewan	439	0	0	0	0	0	439	1	394	0	0	0	0	0	394	3	394	0	394	63	394	0
Province of Alberta	16147	0	0	0	0	0	16142	0	16142	1	10	0	2	0	16142	27	16142	4	16142	1669	16142	5
<b>Prairies</b>	<b>20544</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20539</b>	<b>11</b>	<b>17095</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>17095</b>	<b>37</b>	<b>17046</b>	<b>4</b>	<b>17095</b>	<b>1785</b>	<b>17046</b>	<b>6</b>
<b>British Columbia</b>	<b>6790</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6787</b>	<b>3</b>	<b>1298</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1292</b>	<b>13</b>	<b>1298</b>	<b>9</b>	<b>1203</b>	<b>216</b>	<b>1202</b>	<b>0</b>
Yukon	1418	0	0	0	0	0	1247	2	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	232	0	0	0	0	0	232	0	232	0	0	0	1	0	232	2	232	0	232	84	232	0
Nunavut	695	0	0	0	0	0	695	0	695	3	1	0	0	0	695	8	695	4	695	171	91	0
<b>Territories</b>	<b>2345</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2174</b>	<b>2</b>	<b>927</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>927</b>	<b>10</b>	<b>927</b>	<b>4</b>	<b>927</b>	<b>255</b>	<b>323</b>	<b>0</b>
<b>CANADA</b>	<b>36627</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>10</b>	<b>36030</b>	<b>25</b>	<b>25254</b>	<b>4</b>	<b>13</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>25198</b>	<b>100</b>	<b>25140</b>	<b>19</b>	<b>24281</b>	<b>3597</b>	<b>21613</b>	<b>10</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 P

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 and so 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, 2020-21

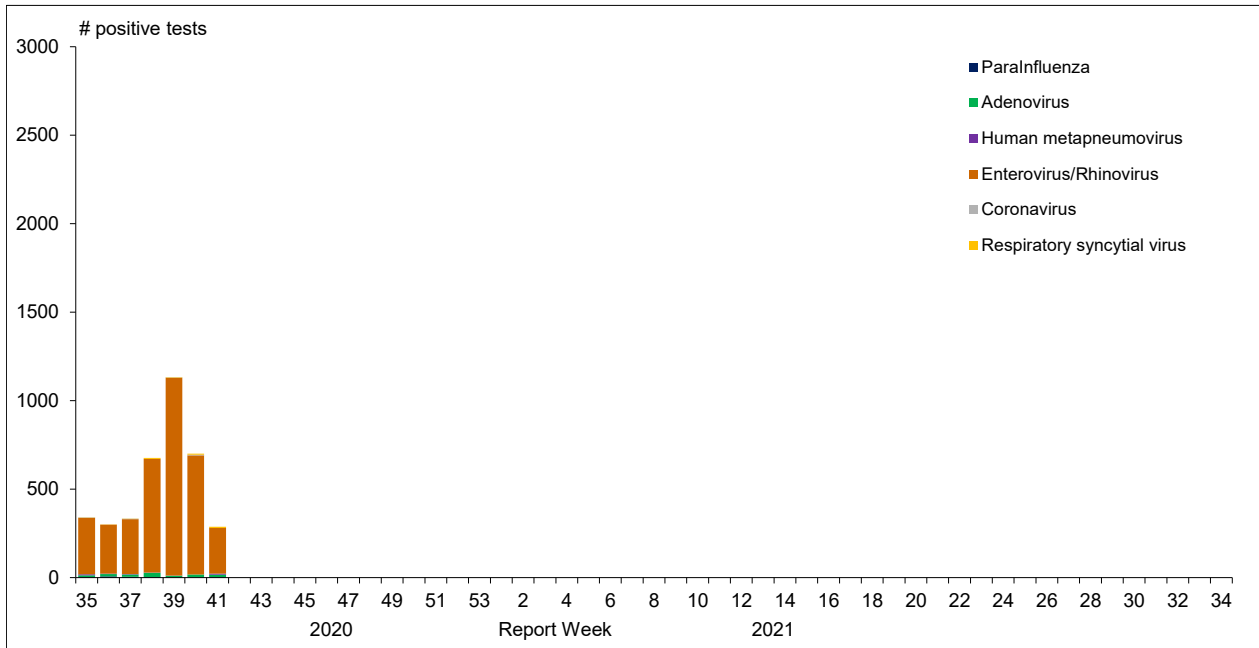


Figure 2 : Positive Influenza Tests (%) in Canada by Region by Week of Report

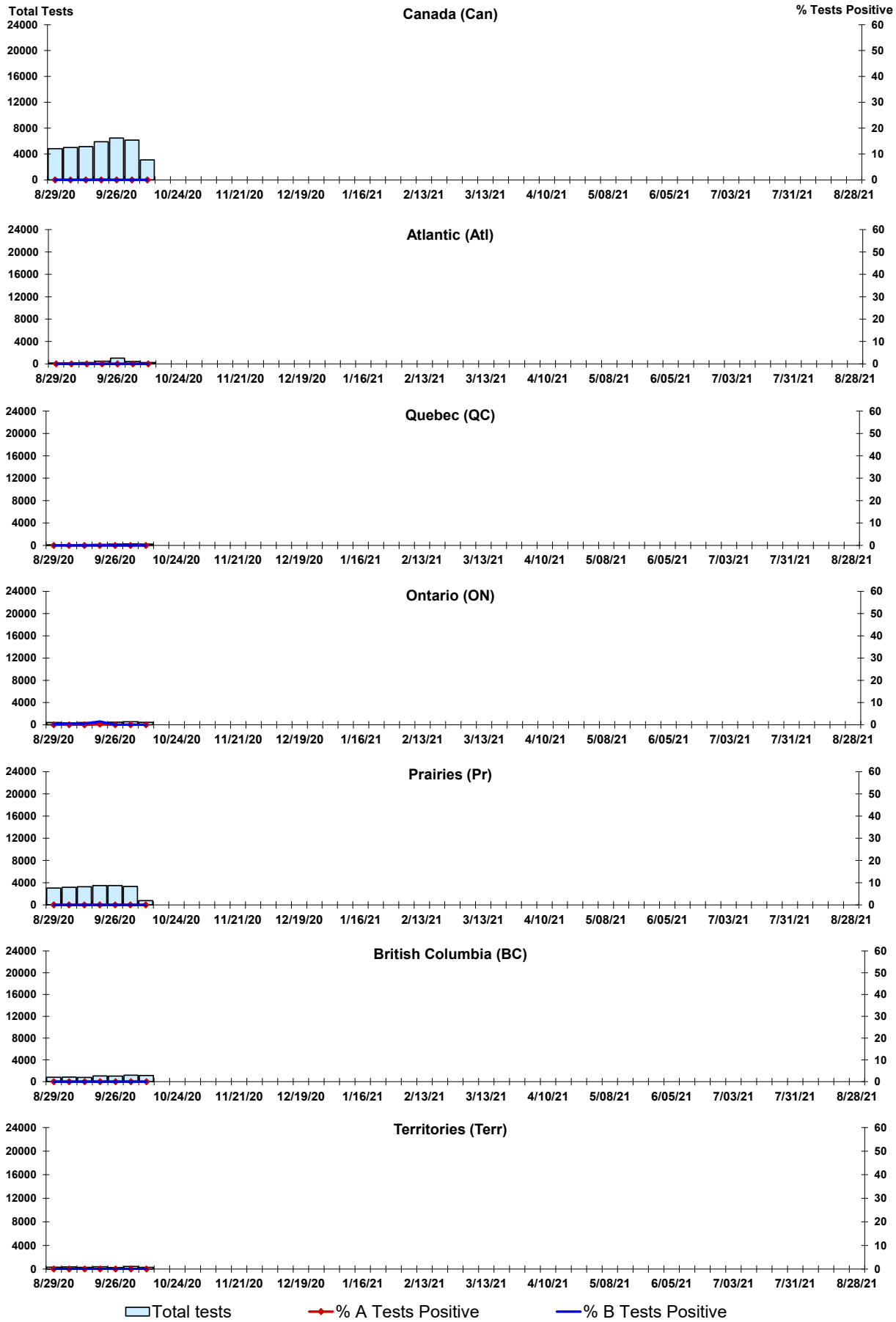


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

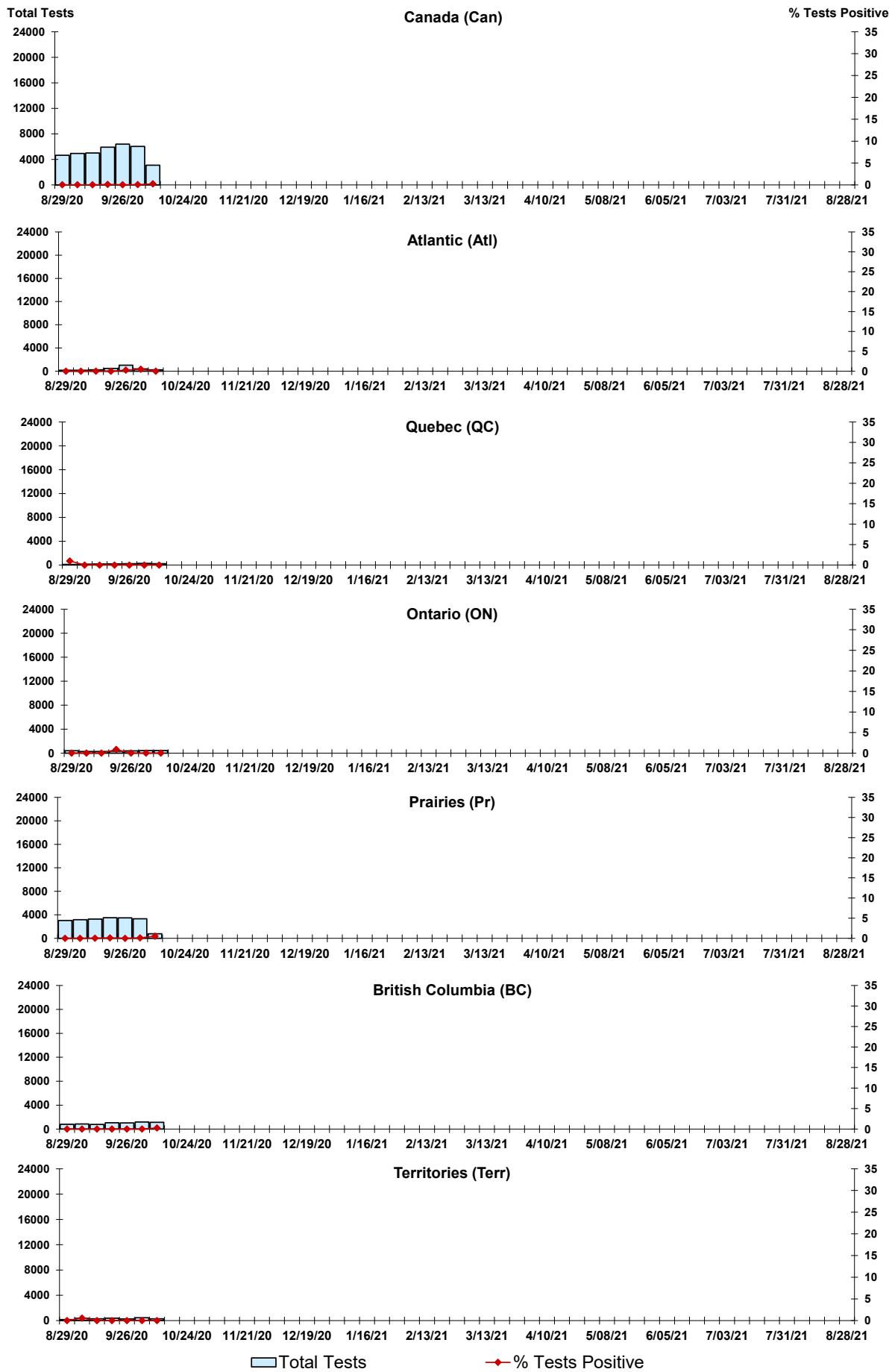
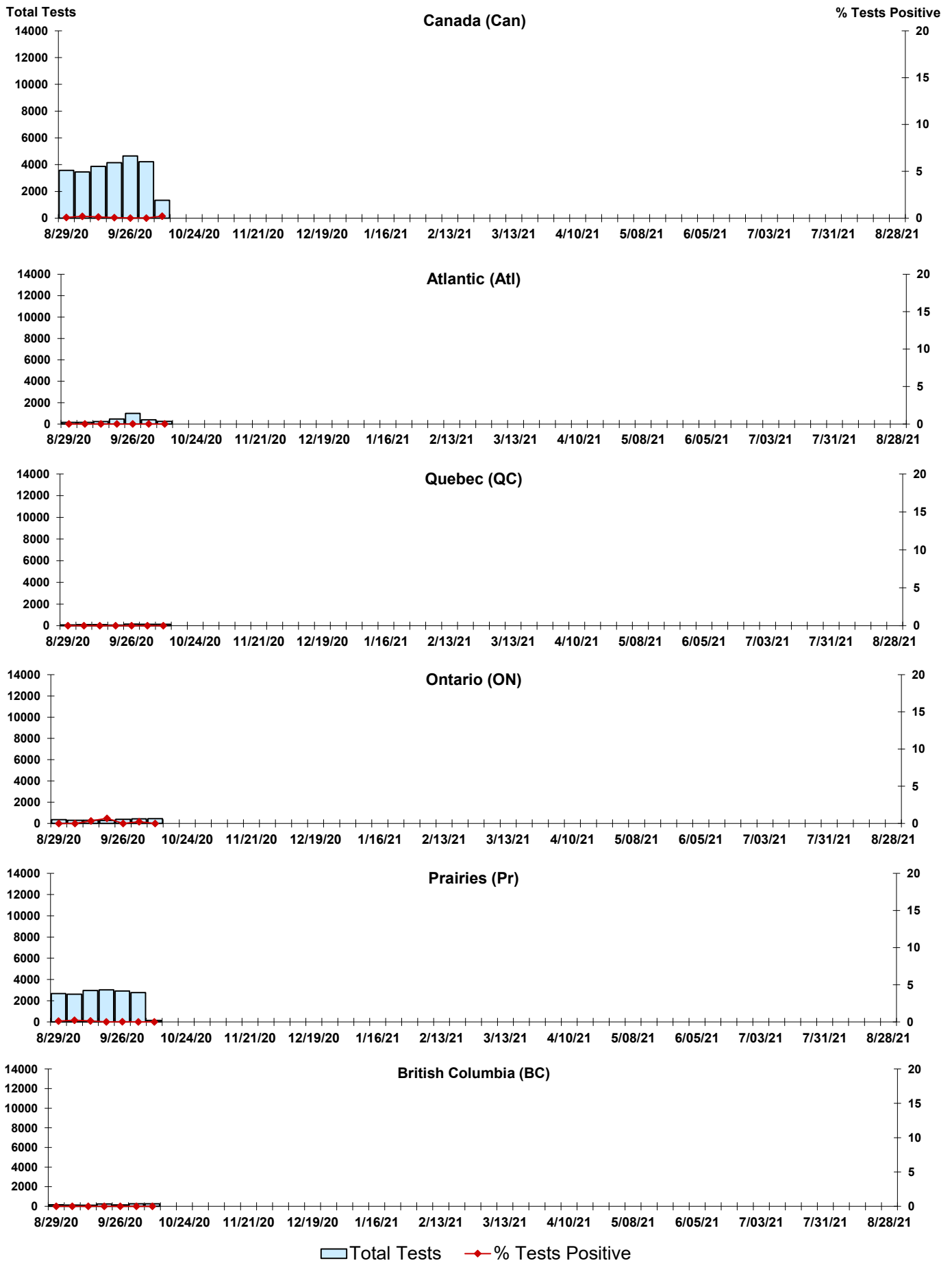


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report



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

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

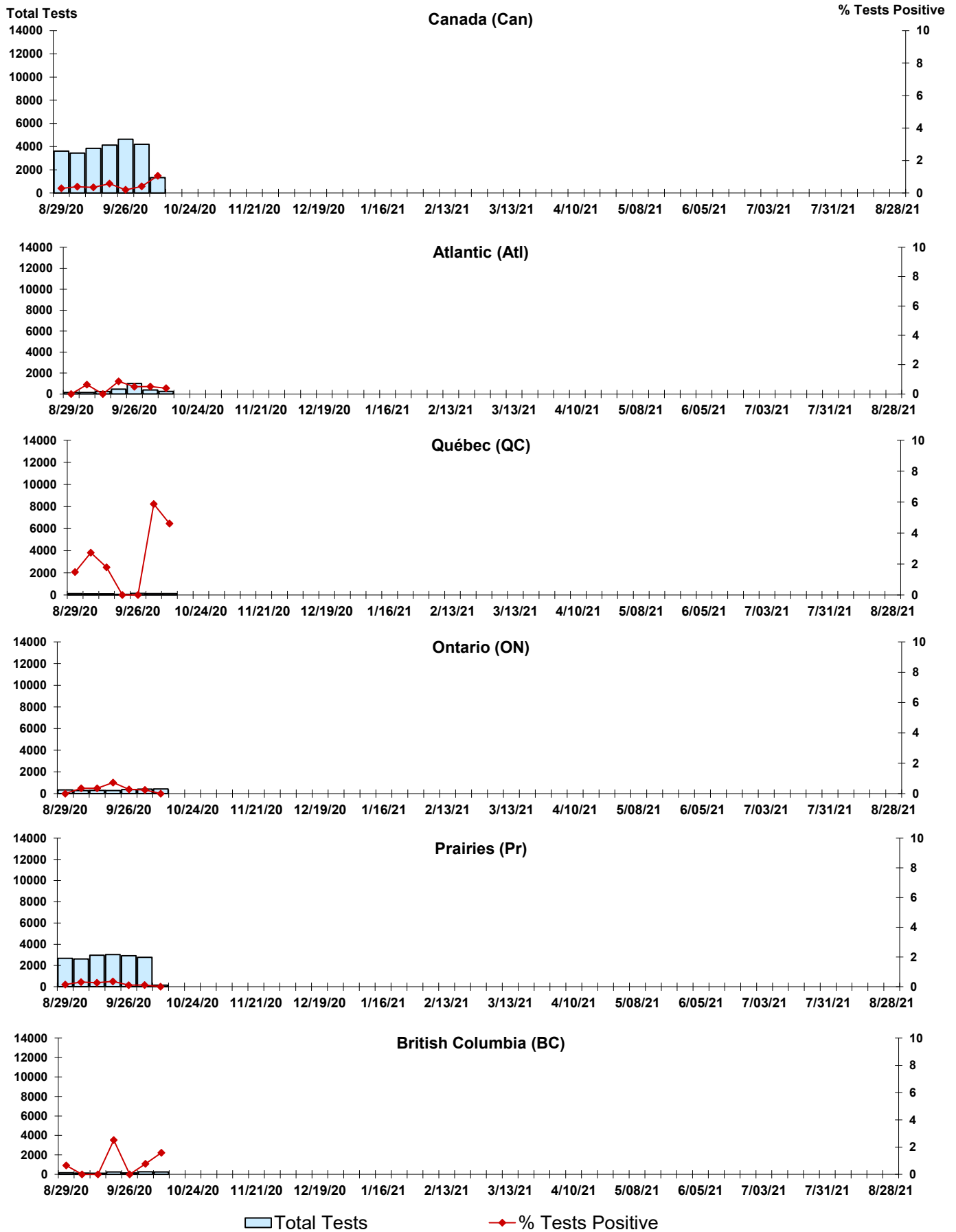
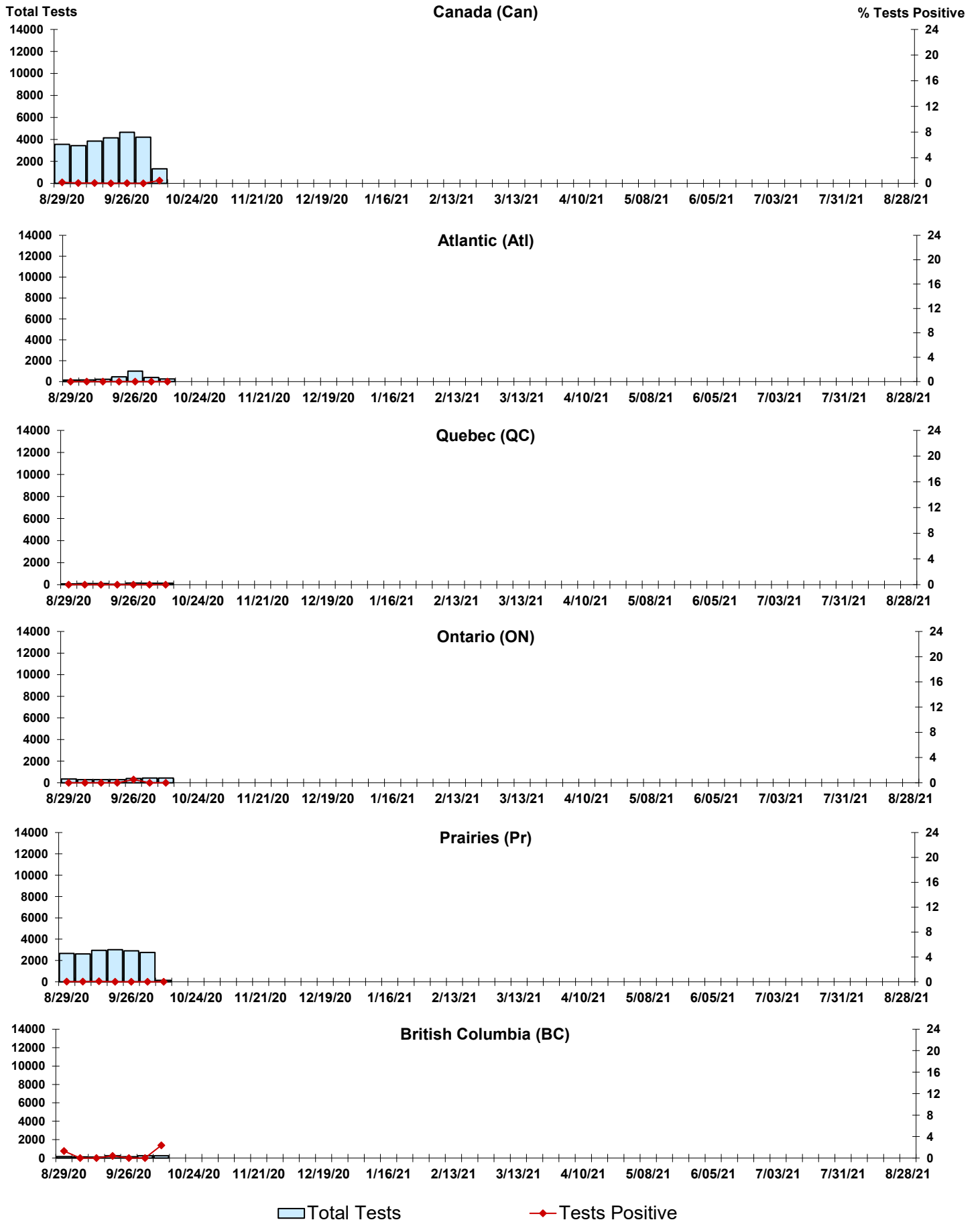


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



Legend: █ Total Tests      ◆ Tests Positive



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

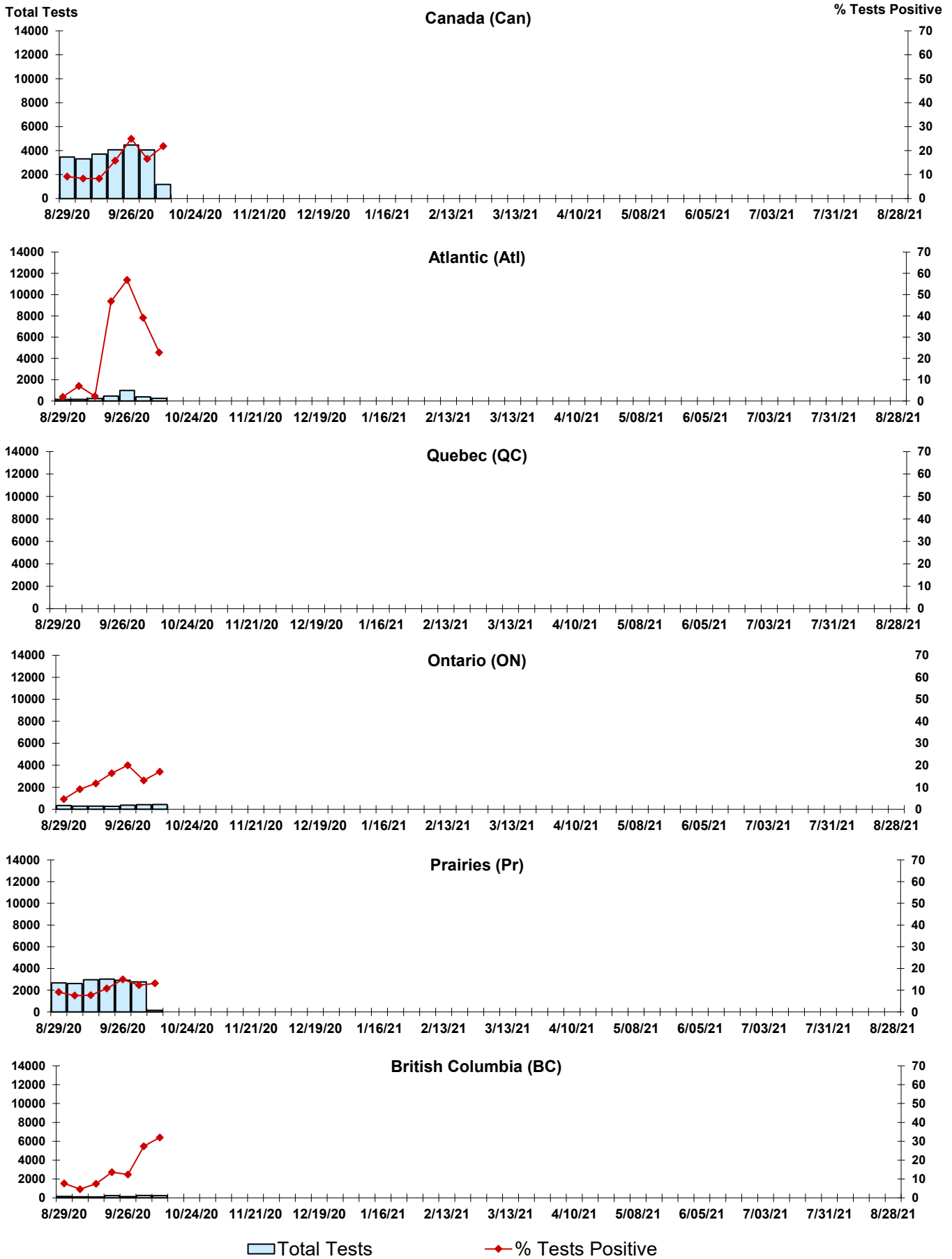
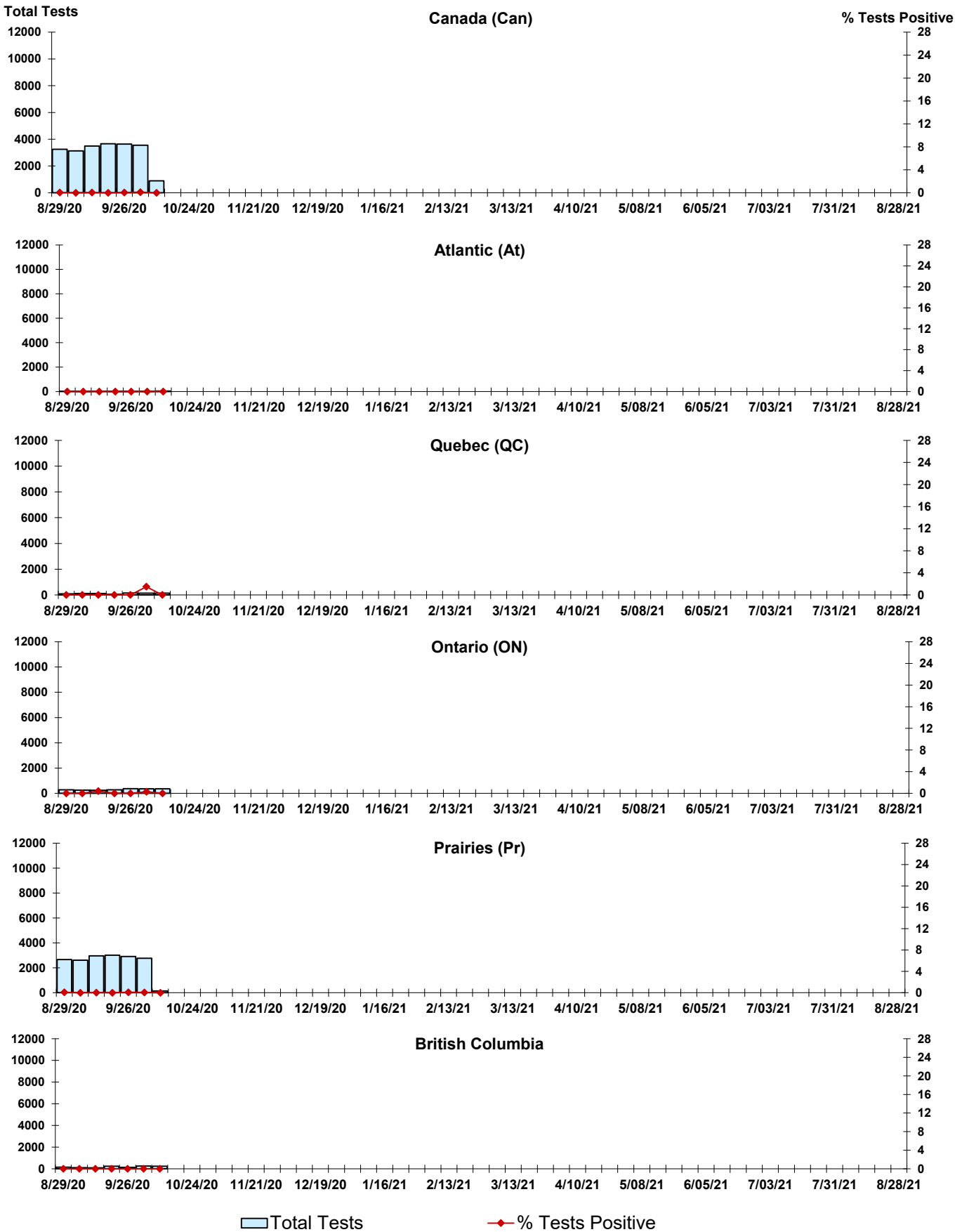


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



## 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.