

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 36 - ending September 7, 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 September 7, 2019 (Reporting Week 201936)

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	30	0	0	0	0	0	30	0	30	2	0	0	0	0	30	0	30	0	30	2	N.A.	N.A.
Prince Edward Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	8	0	0	0	0	0	9	0	3	0	0	0	0	0	3	0	3	0	3	0	3	0
New Brunswick	100	1	1	1	3	0	100	0	43	1	0	0	0	0	43	1	43	0	43	18	43	0
Atlantic	138	1	1	1	3	0	139	0	76	3	0	0	0	0	76	1	76	0	76	20	46	0
Région Nord-Est	21	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	36	0	0	0	0	0	42	0	52	1	0	0	0	0	55	1	0	0	N.A.	N.A.	48	0
Centre-du-Québec	20	0	0	1	1	0	16	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	325	0	0	2	2	1	333	1	293	3	1	0	0	0	293	5	0	0	N.A.	N.A.	290	1
Ouest du Québec	32	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	38	0	0	1	1	0	38	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	472	0	0	4	4	1	481	1	345	4	1	0	0	0	348	6	0	0	N.A.	N.A.	338	1
P.H.O.L. - Ottawa	9	0	0	0	0	0	9	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
CHEO - Ottawa	67	0	0	1	1	0	67	2	22	0	0	0	0	0	22	0	22	0	22	4	22	0
P.H.O.L. - Kingston	8	0	0	0	0	0	8	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
UHN / Mount Sinai Hospital	136	0	0	4	4	0	136	2	14	0	0	0	0	0	0	0	14	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	162	0	0	0	0	0	162	1	156	2	0	1	0	0	156	0	145	0	12	0	0	0
Sick Kids Hospital - Toronto	42	0	0	0	0	0	42	1	42	1	0	0	0	0	42	0	42	0	42	9	42	0
Sunnybrook & Women's College HSC	7	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. - Sault Ste. Marie	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
P.H.O.L. - Timmins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Joseph's - London	17	0	0	0	0	0	17	0	17	0	0	0	0	0	17	0	17	0	16	4	16	0
P.H.O.L. - London	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	12	0	1	0	0	0
P.H.O.L. - Orillia	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	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	4	0	4	0	0	0	0	0	4	0	3	0	1	0	0	0
P.H.O.L. - Hamilton	31	1	1	1	3	0	29	0	29	0	0	0	0	0	29	1	27	0	2	0	0	0
P.H.O.L. - Peterborough	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	0	0	0	0
Province of Ontario	513	1	1	6	8	0	511	6	325	3	0	1	0	0	311	1	309	0	104	17	87	0
Manitoba	184	0	0	0	0	0	184	0	136	0	0	0	0	0	136	2	58	0	136	27	58	0
Regina	159	0	0	0	0	0	159	0	107	0	0	0	0	0	107	1	0	0	107	19	107	0
Saskatoon	66	0	0	0	0	0	66	0	66	0	0	0	0	0	66	1	66	0	66	21	66	0
Province of Saskatchewan	225	0	0	0	0	0	225	0	173	0	0	0	0	0	173	2	66	0	173	40	173	0
Province of Alberta	370	0	6	0	6	1	352	0	352	1	0	0	1	0	352	7	352	1	352	96	352	0
Prairies	779	0	6	0	6	1	761	0	661	1	0	0	1	0	661	11	476	1	661	163	583	0
British Columbia	250	0	1	2	3	0	250	1	168	3	0	2	0	0	168	2	168	9	159	31	159	1
Yukon	13	0	2	0	2	0	13	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	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	8	5	8	1
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	0	1	0	1	0
Territories	22	0	2	0	2	0	22	0	9	0	0	0	0	0	9	1	9	0	9	5	9	1
CANADA	2174	2	11	13	26	2	2164	8	1584	14	1	3	1	0	1573	22	1038	10	1009	236	1222	3

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 31, 2019 - September 7, 2019 (Reporting Weeks 201935-201936)

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	66	0	0	0	0	0	66	0	66	2	0	0	0	0	66	0	66	0	66	10	N.A.	N.A.
Prince Edward Island	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	19	0	0	0	0	0	20	0	9	0	0	0	0	0	9	0	9	0	9	0	9	0
New Brunswick	147	1	1	2	4	0	147	0	74	1	0	0	0	0	74	2	74	0	74	22	74	0
Atlantic	233	1	1	2	4	0	234	0	150	3	0	0	0	0	150	2	150	0	150	32	84	0
Région Nord-Est	35	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	76	0	0	0	0	0	108	0	118	1	0	0	0	0	124	3	0	0	N.A.	N.A.	113	0
Centre-du-Québec	30	0	0	1	1	0	26	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	581	0	0	6	6	2	588	2	479	5	1	0	0	0	479	9	0	0	N.A.	N.A.	471	3
Ouest du Québec	67	0	0	2	2	0	67	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	58	0	0	3	3	0	56	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	847	0	0	12	12	2	880	3	597	6	1	0	0	0	603	12	0	0	N.A.	N.A.	584	3
P.H.O.L. - Ottawa	21	0	0	0	0	0	19	0	13	0	0	0	0	0	13	0	12	0	1	0	0	0
CHEO - Ottawa	134	0	0	1	1	0	134	3	39	0	0	0	0	0	39	0	39	0	39	10	39	0
P.H.O.L. - Kingston	10	0	0	0	0	0	10	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
UHN / Mount Sinai Hospital	285	0	0	5	5	0	285	3	29	0	0	0	0	0	0	0	29	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	309	0	5	0	5	0	309	1	298	4	0	1	0	0	298	3	281	0	21	0	0	0
Sick Kids Hospital - Toronto	42	0	0	0	0	0	42	1	42	1	0	0	0	0	42	0	42	0	42	9	42	0
Sunnybrook & Women's College HSC	11	0	0	0	0	0	11	0	11	0	0	0	0	0	11	0	11	0	11	1	11	0
P.H.O.L. - Sault Ste. Marie	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	0
P.H.O.L. - Timmins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Joseph's - London	33	0	0	0	0	0	33	1	33	0	0	0	0	0	33	0	33	0	31	6	31	0
P.H.O.L. - London	33	0	0	0	0	0	33	0	33	0	0	0	0	0	33	0	29	0	4	0	0	0
P.H.O.L. - Orillia	5	0	0	0	0	0	5	0	2	0	0	0	0	0	2	0	2	0	0	0	0	0
P.H.O.L. - Thunder Bay	7	0	0	0	0	0	7	0	7	0	0	1	0	0	7	0	6	0	1	0	0	0
P.H.O.L. - Sudbury	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	5	0	3	0	0	0
P.H.O.L. - Hamilton	63	1	1	1	3	0	57	0	56	0	0	0	0	0	56	1	54	0	2	0	0	0
P.H.O.L. - Peterborough	25	0	0	0	0	0	22	0	22	0	0	0	0	0	22	0	22	0	1	0	0	0
Province of Ontario	988	1	6	7	14	0	977	9	601	5	0	2	0	0	572	4	573	1	156	26	123	0
Manitoba	319	0	0	0	0	0	319	2	234	0	0	1	0	0	234	2	100	0	234	41	100	1
Regina	320	0	0	0	0	0	320	0	182	0	0	0	0	0	182	2	75	0	182	44	182	0
Saskatoon	144	0	0	0	0	0	144	1	144	1	0	0	1	0	144	4	144	0	144	38	144	0
Province of Saskatchewan	464	0	0	0	0	0	464	1	326	1	0	0	1	0	326	6	219	0	326	82	326	0
Province of Alberta	798	0	10	0	10	2	734	0	734	1	0	3	3	0	734	17	734	2	734	199	734	2
Prairies	1581	0	10	0	10	2	1517	3	1294	2	0	4	4	0	1294	25	1053	2	1294	322	1160	3
British Columbia	452	0	7	5	12	0	452	1	319	4	0	3	0	0	319	2	196	9	302	65	302	1
Yukon	31	0	2	0	2	0	31	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	16	0	0	0	0	0	16	0	16	0	0	0	0	0	16	0	16	0	16	11	16	1
Nunavut	5	0	0	0	0	0	5	0	5	0	1	0	0	0	5	1	5	0	5	2	5	0
Territories	52	0	2	0	2	0	52	0	21	0	1	0	0	0	21	1	21	0	21	13	21	1
CANADA	4153	2	26	26	54	4	4112	16	2982	20	2	9	4	0	2959	46	1993	12	1923	458	2274	8

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, 2019-20

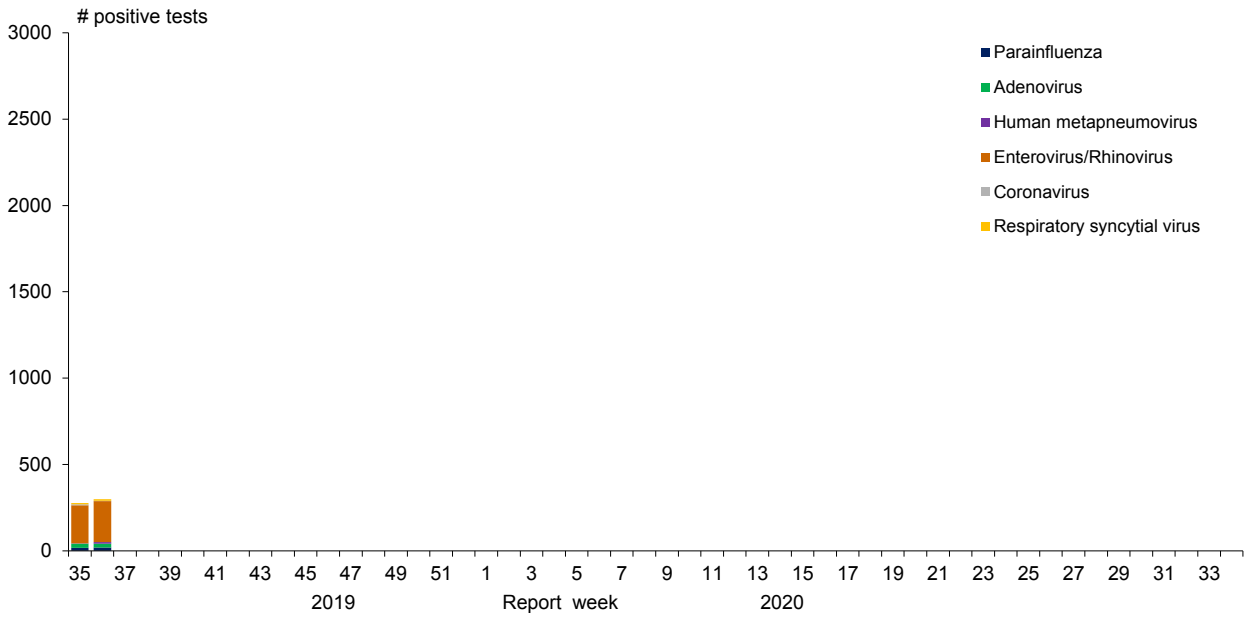


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

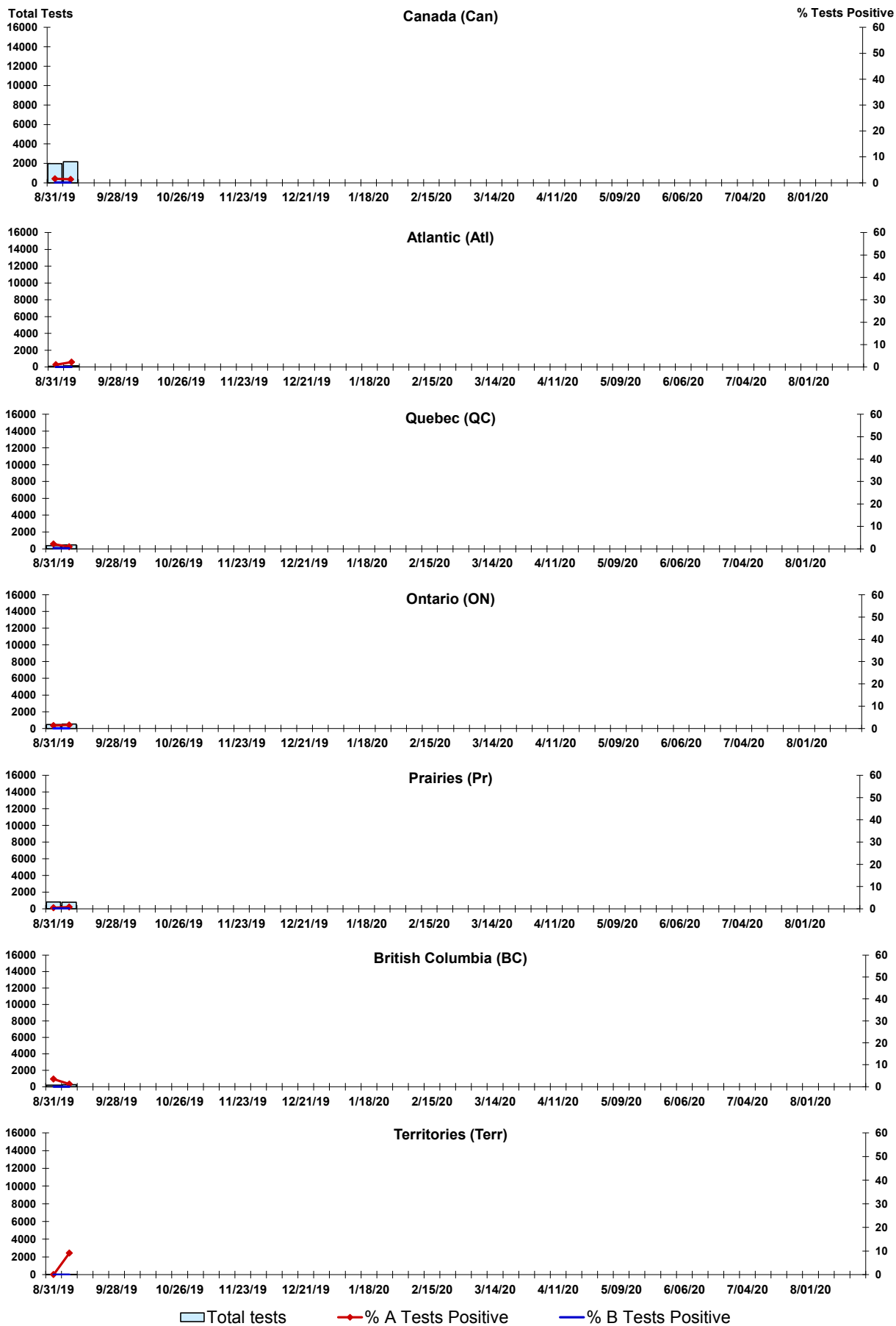


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

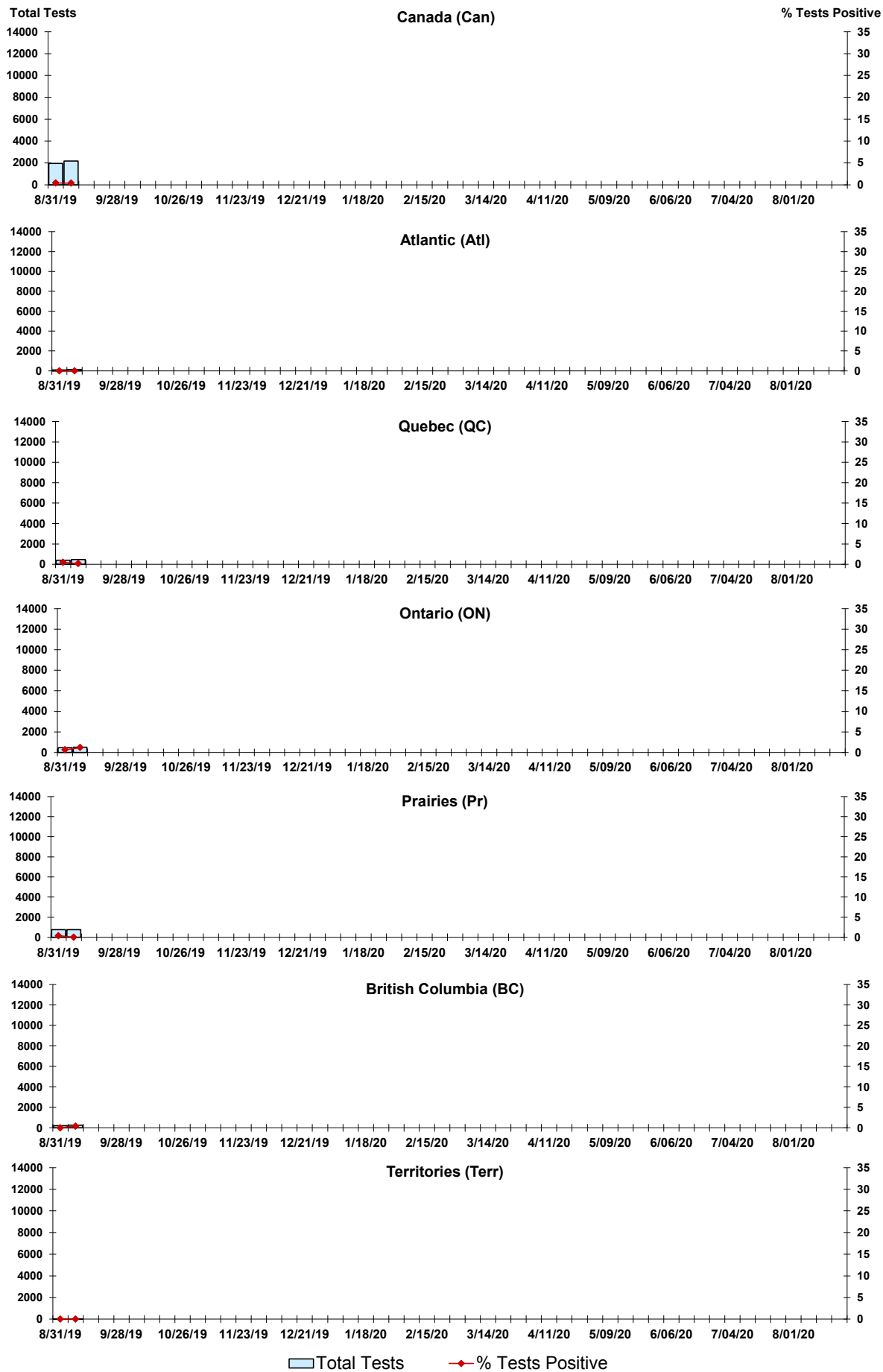


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

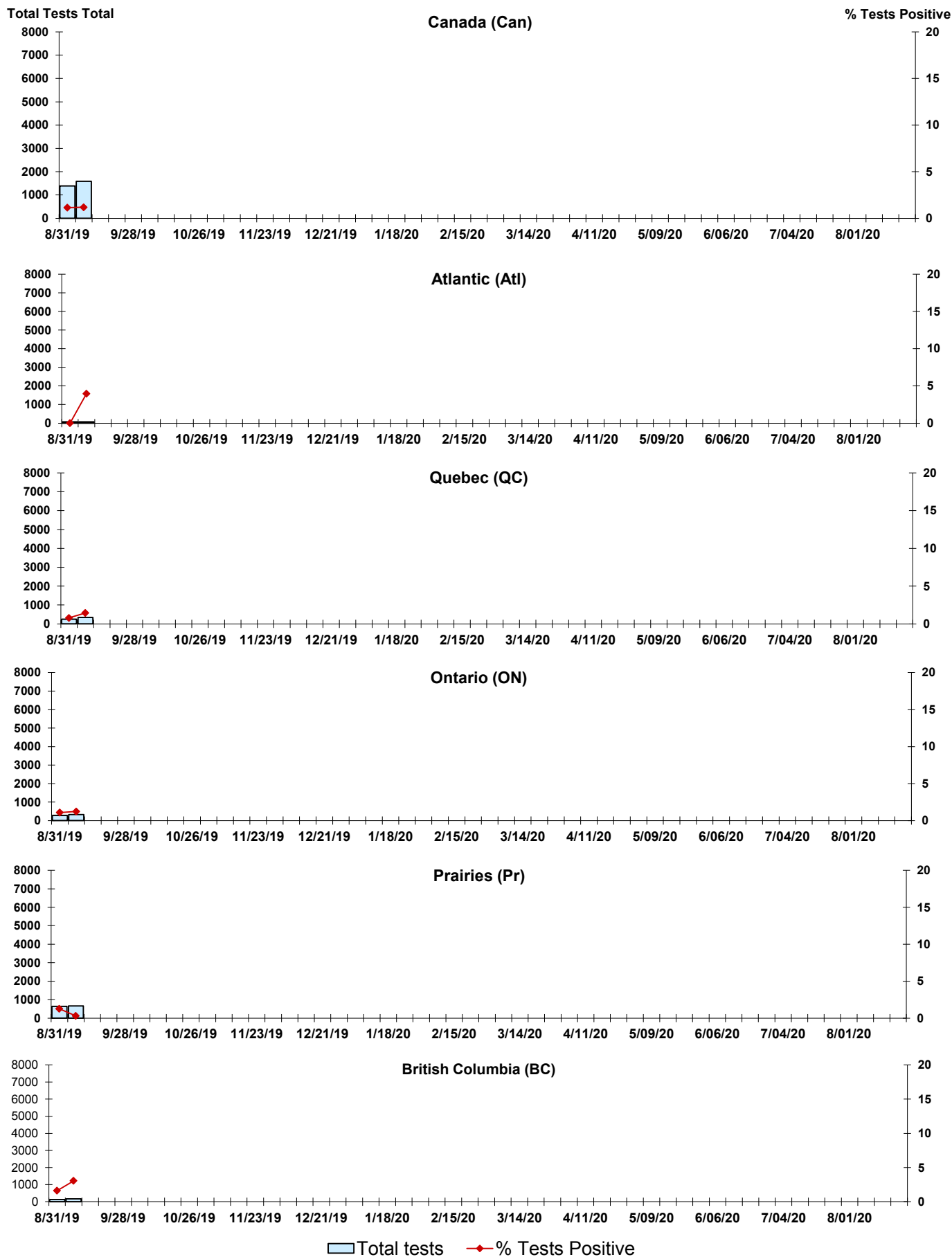


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

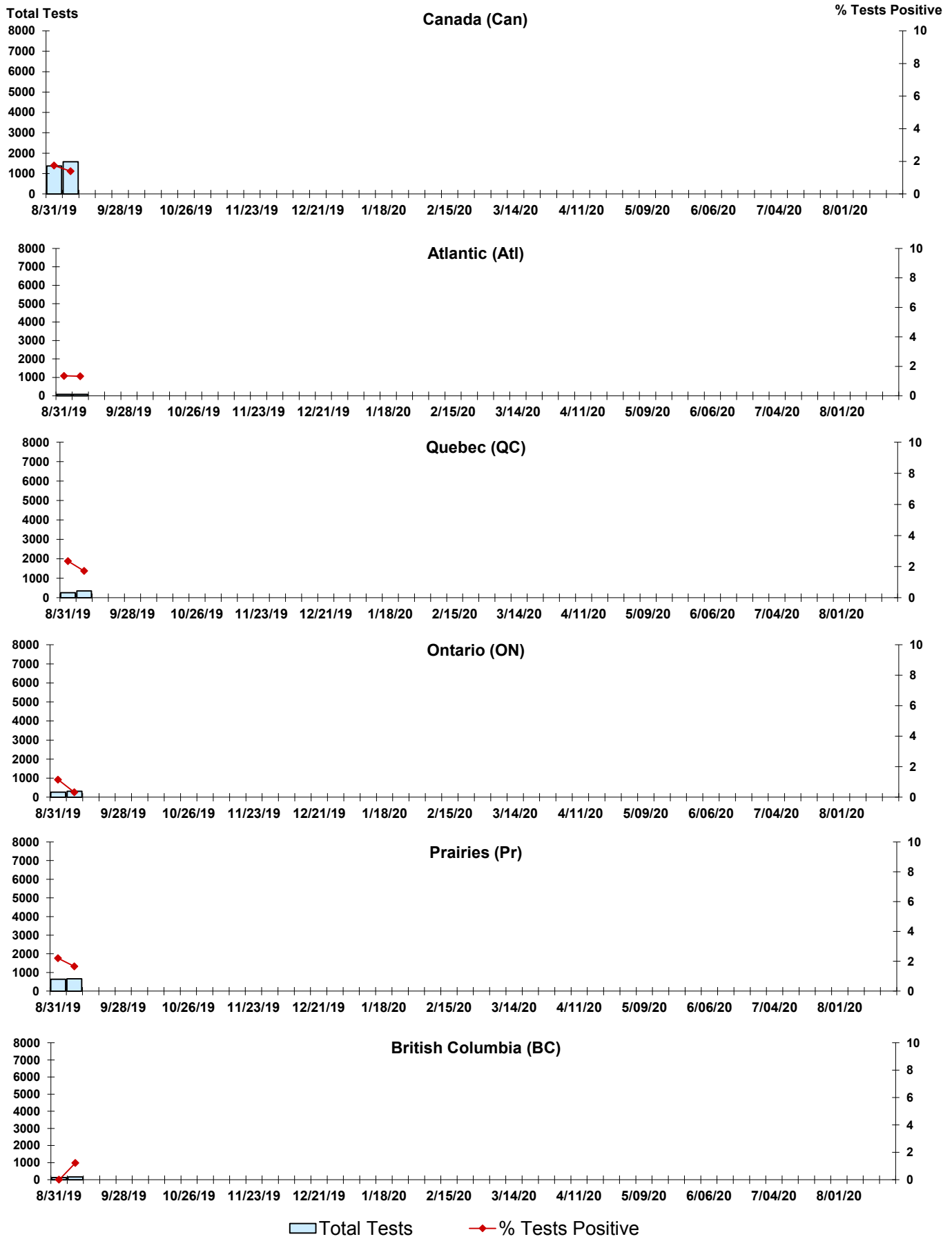


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

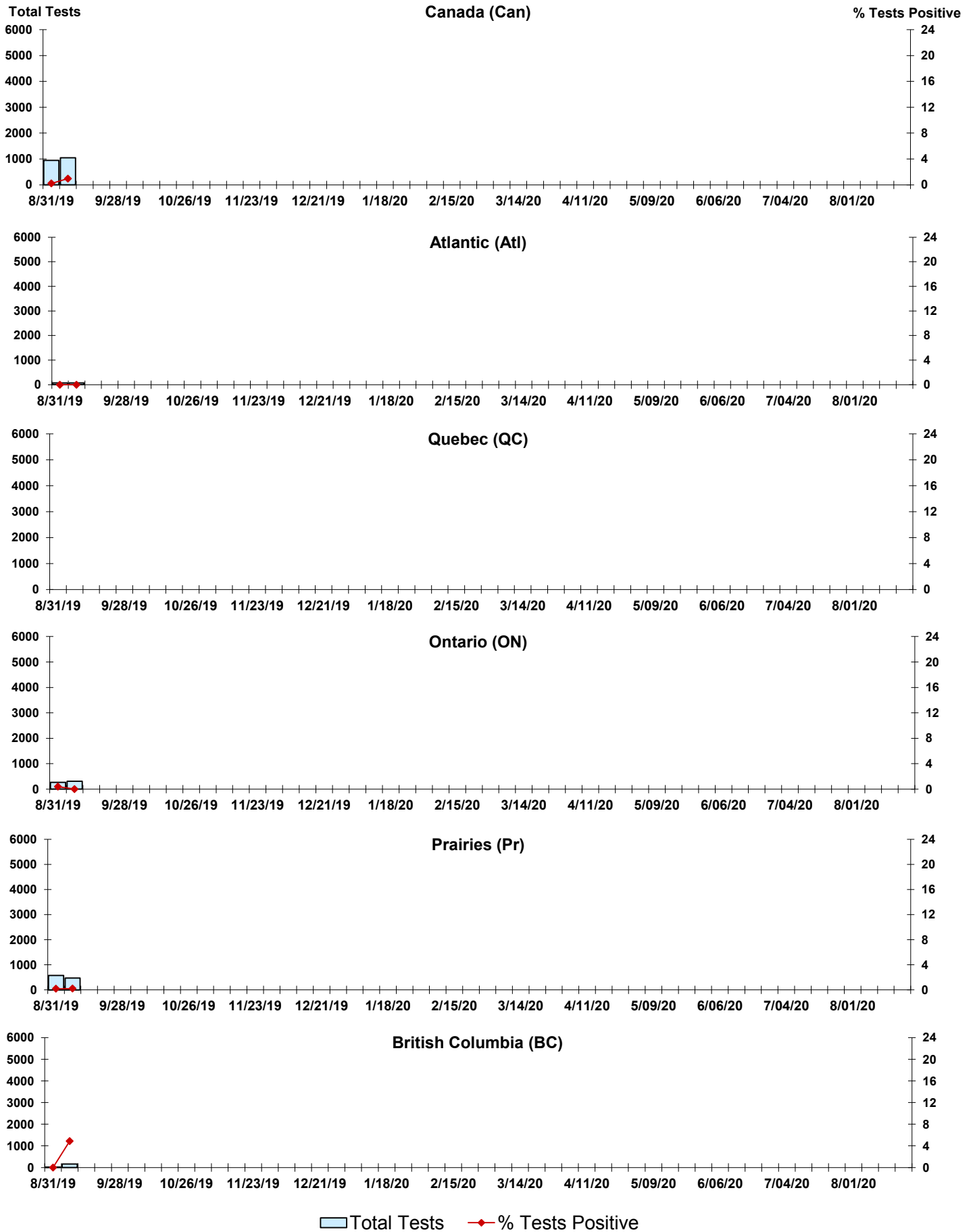


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

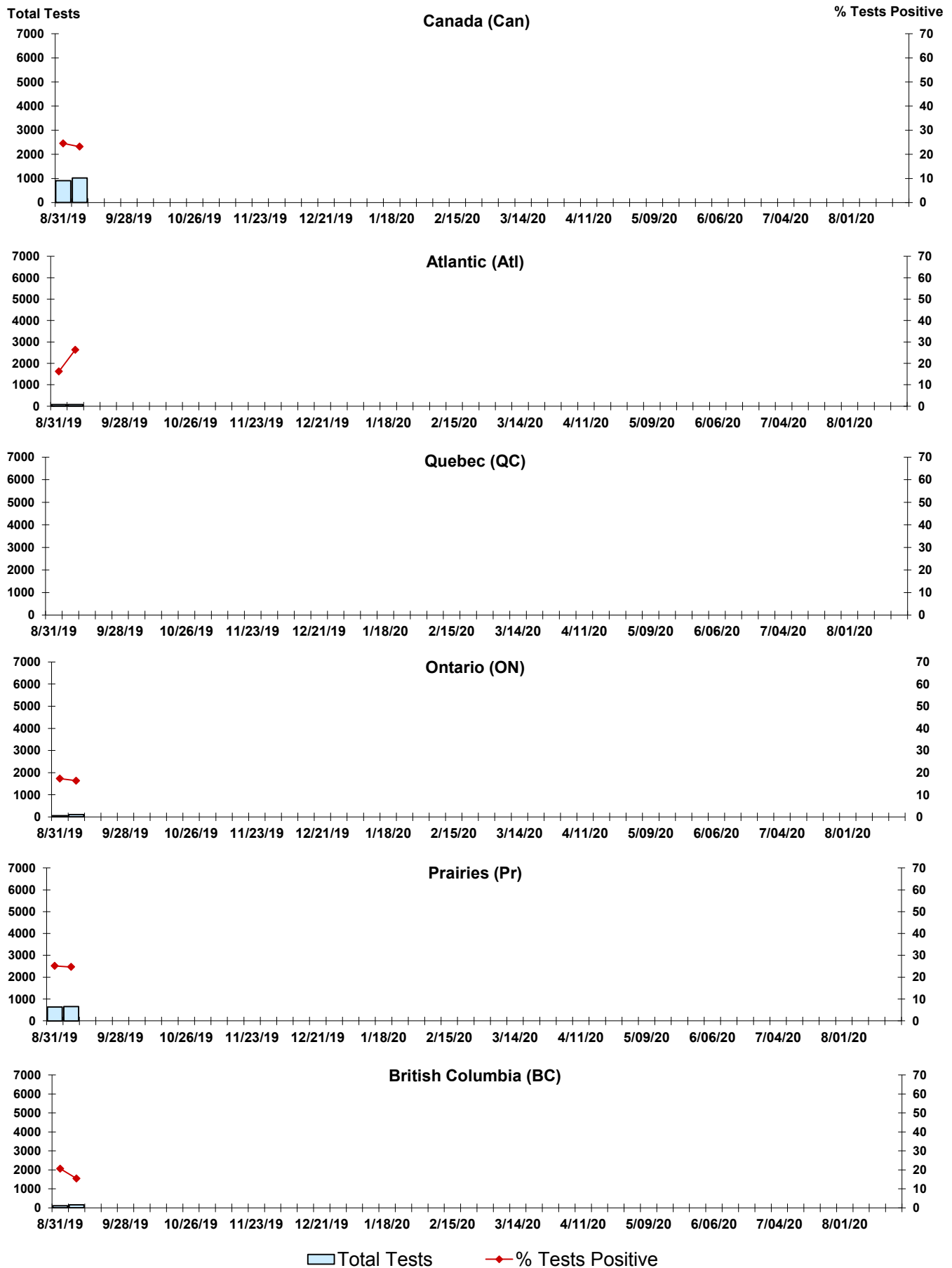
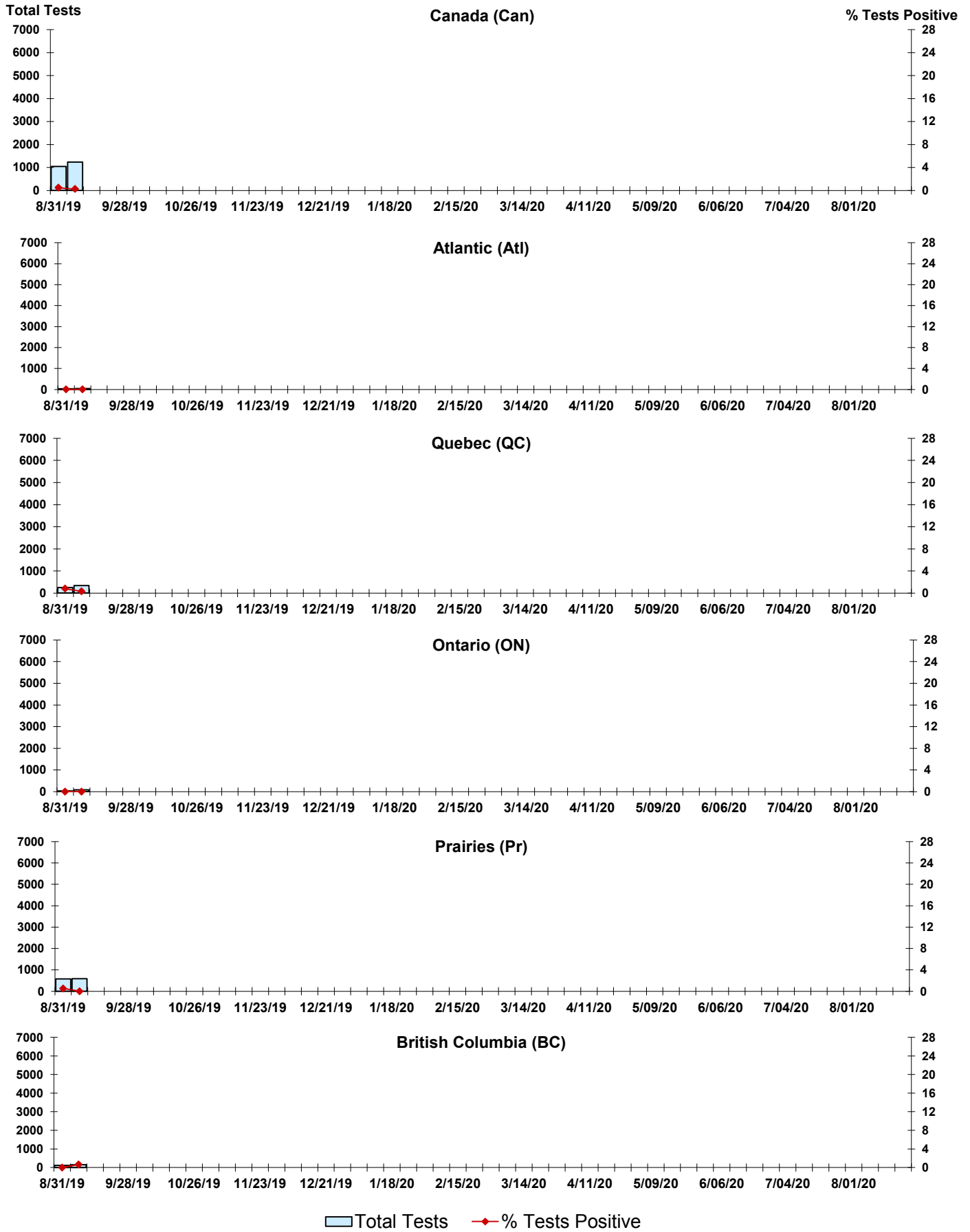


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.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.