

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 37 - ending September 14, 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 14, 2019 (Reporting Week 201937)

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	33	0	0	0	0	0	33	0	33	0	0	0	0	0	33	0	33	0	33	12	N.A.	N.A.
Prince Edward Island	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	12	0	0	0	0	0	12	0	5	0	0	0	0	0	5	0	5	0	5	1	5	0
New Brunswick	116	0	0	0	0	0	116	0	49	1	0	0	0	0	49	1	49	0	49	15	49	0
Atlantic	162	0	0	0	0	0	162	0	87	1	0	0	0	0	87	1	87	0	87	28	54	0
Région Nord-Est	33	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Centre-du-Québec	27	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	421	0	0	2	2	2	440	4	379	5	0	0	1	0	379	17	0	0	N.A.	N.A.	373	1
Ouest du Québec	25	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	51	0	0	0	0	1	51	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	558	0	0	2	2	3	565	4	379	5	0	0	1	0	379	17	0	0	N.A.	N.A.	373	1
P.H.O.L. - Ottawa	6	0	0	0	0	0	6	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
CHEO - Ottawa	87	0	0	0	0	1	87	1	15	0	0	0	0	0	15	0	15	0	16	3	14	0
P.H.O.L. - Kingston	7	0	0	0	0	0	7	0	5	0	0	0	0	0	5	0	5	0	0	0	0	0
UHN / Mount Sinai Hospital	169	0	0	0	0	1	169	1	12	0	0	2	0	0	0	0	12	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	185	0	1	0	1	0	185	0	180	2	0	1	0	0	180	0	174	0	6	0	0	0
Sick Kids Hospital - Toronto	40	0	0	0	0	0	40	1	40	2	0	0	0	0	40	0	40	0	40	18	40	0
Sunnybrook & Women's College HSC	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	4	1	4	0
P.H.O.L. - Sault Ste. Marie	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	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	27	0	0	0	0	0	27	0	27	1	0	0	0	0	27	1	27	0	27	11	26	0
P.H.O.L. - London	66	0	0	0	0	0	62	0	59	0	0	0	0	0	59	0	57	0	2	0	0	0
P.H.O.L. - Orillia	10	0	0	0	0	0	8	0	6	0	0	0	0	0	6	0	5	0	1	0	0	0
P.H.O.L. - Thunder Bay	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	1	0	3	0	0	0
P.H.O.L. - Sudbury	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	0	0	0	0
P.H.O.L. - Hamilton	27	0	0	0	0	0	27	0	27	1	0	0	0	0	27	0	26	0	1	0	0	0
P.H.O.L. - Peterborough	14	0	0	0	0	0	14	0	14	0	0	0	0	0	14	0	14	0	0	0	0	0
Province of Ontario	668	0	1	0	1	2	662	3	416	6	0	3	0	0	404	1	403	0	100	33	84	0
Manitoba	148	0	0	1	1	0	148	1	110	0	0	0	0	0	110	3	46	0	110	14	46	0
Regina	202	0	0	1	1	0	202	0	141	1	0	0	0	0	141	0	141	0	141	24	141	0
Saskatoon	85	0	0	0	0	0	85	0	85	1	0	0	0	0	85	3	85	0	85	28	85	0
Province of Saskatchewan	287	0	0	1	1	0	287	0	226	2	0	0	0	0	226	3	226	0	226	52	226	0
Province of Alberta	474	0	3	0	3	0	433	0	433	6	1	2	0	0	433	4	433	0	433	145	433	1
Prairies	909	0	3	2	5	0	868	1	769	8	1	2	0	0	769	10	705	0	769	211	705	1
British Columbia	248	2	12	2	16	0	248	0	156	1	0	1	0	0	156	0	156	4	143	28	143	1
Yukon	2	0	0	0	0	0	2	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	5	0	0	0	0	0	5	0	0	0	0	0	0	0	5	0	5	0	5	4	5	0
Nunavut	4	0	0	0	0	0	4	0	4	0	1	0	0	0	4	0	4	0	4	2	4	0
Territories	11	0	0	0	0	0	11	0	9	0	1	0	0	0	9	0	9	0	9	6	9	0
CANADA	2556	2	16	6	24	5	2516	8	1816	21	2	6	1	0	1804	29	1360	4	1108	306	1368	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 14, 2019 (Reporting Weeks 201935-201937)

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	99	0	0	0	0	0	99	0	99	2	0	0	0	0	99	0	99	0	99	22	N.A.	N.A.
Prince Edward Island	2	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	31	0	0	0	0	0	32	0	14	0	0	0	0	0	14	0	14	0	14	1	14	0
New Brunswick	263	1	1	2	4	0	263	0	123	2	0	0	0	0	123	3	123	0	123	37	123	0
Atlantic	395	1	1	2	4	0	396	0	237	4	0	0	0	0	237	3	237	0	237	60	138	0
Région Nord-Est	68	0	0	0	0	0	61	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	77	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	57	0	0	1	1	0	47	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1002	0	0	8	8	4	1028	6	858	10	1	0	1	0	858	26	0	0	N.A.	N.A.	844	4
Ouest du Québec	92	0	0	2	2	0	94	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	109	0	0	3	3	1	107	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1405	0	0	14	14	5	1445	7	976	11	1	0	1	0	982	29	0	0	N.A.	N.A.	957	4
P.H.O.L. - Ottawa	27	0	0	0	0	0	25	0	20	0	0	0	0	0	20	0	19	0	1	0	0	0
CHEO - Ottawa	221	0	0	1	1	1	221	4	54	0	0	0	0	0	54	0	54	0	55	13	53	0
P.H.O.L. - Kingston	17	0	0	0	0	0	17	0	15	0	0	0	0	0	15	0	15	0	0	0	0	0
UHN / Mount Sinai Hospital	454	0	0	5	5	1	454	4	41	0	0	2	0	0	0	0	41	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	494	0	6	0	6	0	494	1	478	7	0	2	0	0	478	3	455	0	29	0	0	0
Sick Kids Hospital - Toronto	82	0	0	0	0	0	82	2	82	3	0	0	0	0	82	0	82	0	82	27	82	0
Sunnybrook & Women's College HSC	15	0	0	0	0	0	15	0	15	0	0	0	0	0	15	0	15	0	15	1	15	0
P.H.O.L. - Sault Ste. Marie	10	0	0	0	0	0	10	0	10	0	0	0	0	0	10	0	10	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	60	0	0	0	0	0	60	1	60	1	0	0	0	0	60	1	60	0	58	17	57	0
P.H.O.L. - London	99	0	0	0	0	0	95	0	92	0	0	0	0	0	92	0	86	0	6	0	0	0
P.H.O.L. - Orillia	15	0	0	0	0	0	13	0	11	0	0	0	0	0	11	0	10	0	1	0	0	0
P.H.O.L. - Thunder Bay	11	0	0	0	0	0	11	0	11	0	0	1	0	0	11	0	7	0	4	0	0	0
P.H.O.L. - Sudbury	18	0	0	0	0	0	18	0	18	0	0	0	0	0	18	0	14	0	4	0	0	0
P.H.O.L. - Hamilton	90	1	2	0	3	0	84	0	83	1	0	0	0	0	83	1	80	0	3	0	0	0
P.H.O.L. - Peterborough	39	0	0	0	0	0	36	0	36	0	0	0	0	0	36	0	36	0	3	0	0	0
Province of Ontario	1657	1	8	6	15	2	1640	12	1031	12	0	5	0	0	990	5	989	1	261	58	207	0
Manitoba	467	0	0	1	1	0	467	3	344	0	0	1	0	0	344	5	146	0	344	55	146	1
Regina	522	0	0	1	1	0	522	0	323	1	0	0	0	0	323	2	216	0	323	68	323	0
Saskatoon	229	0	0	0	0	0	229	1	229	2	0	0	1	0	229	7	229	0	229	66	229	0
Province of Saskatchewan	751	0	0	1	1	0	751	1	552	3	0	0	1	0	552	9	445	0	552	134	552	0
Province of Alberta	1301	0	13	0	13	2	1189	0	1189	7	1	5	5	0	1189	22	1189	3	1189	349	1189	3
Prairies	2519	0	13	2	15	2	2407	4	2085	10	1	6	6	0	2085	36	1780	3	2085	538	1887	4
British Columbia	700	2	21	5	26	0	700	1	481	5	0	4	0	0	481	2	481	13	451	93	451	2
Yukon	33	0	2	0	2	0	33	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	25	0	0	0	0	0	25	0	25	0	0	0	0	0	25	0	25	0	25	18	25	1
Nunavut	9	0	0	0	0	0	9	0	9	0	2	0	0	0	9	1	9	0	9	4	9	0
Territories	67	0	2	0	2	0	67	0	34	0	2	0	0	0	34	1	34	0	34	22	34	1
CANADA	6743	4	45	29	76	9	6655	24	4844	42	4	15	7	0	4809	76	3521	17	3068	771	3674	11

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

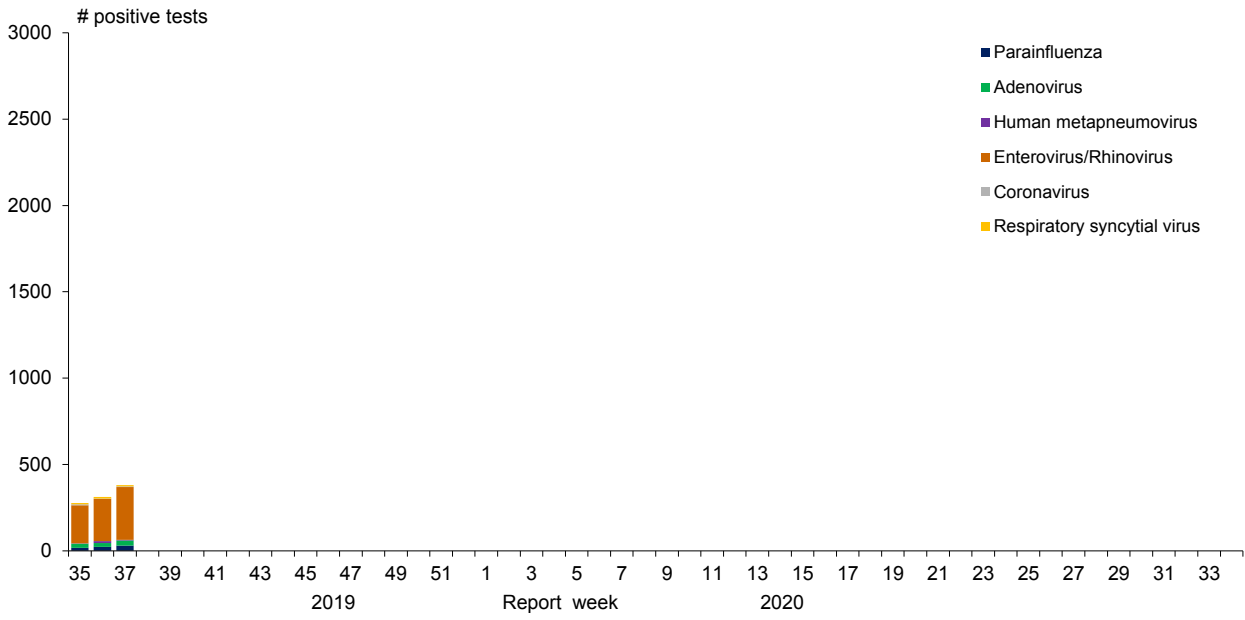


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

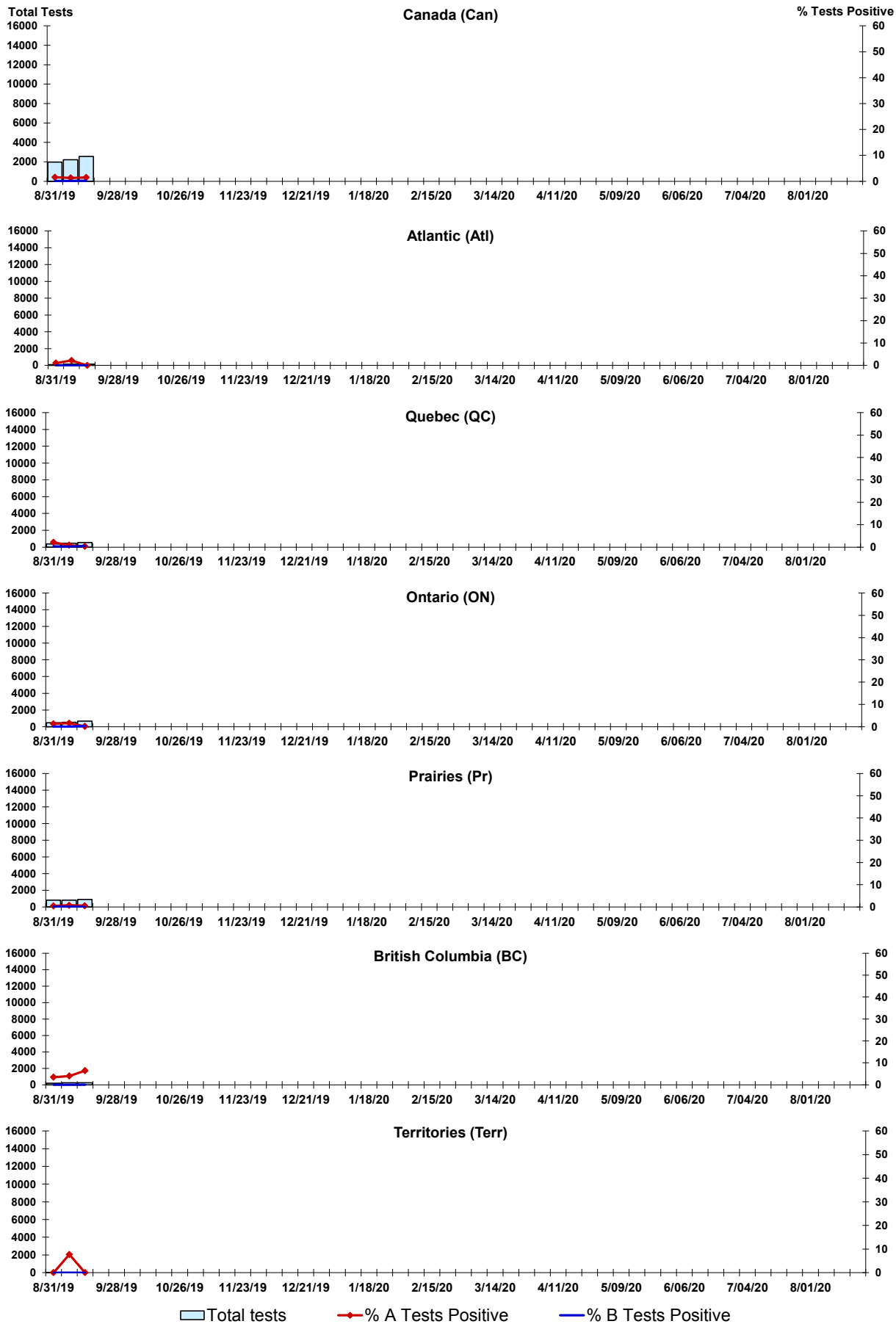


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

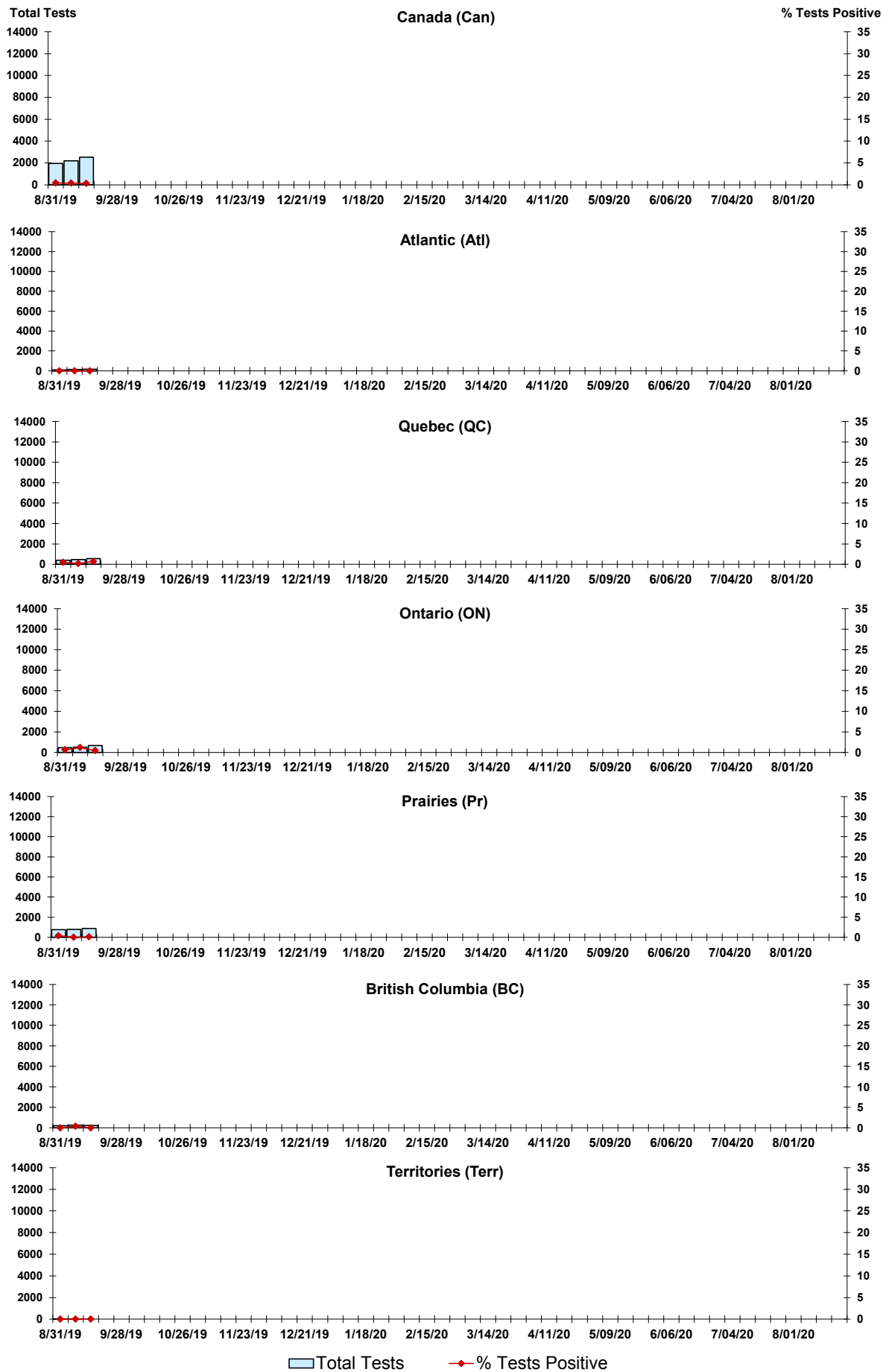


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

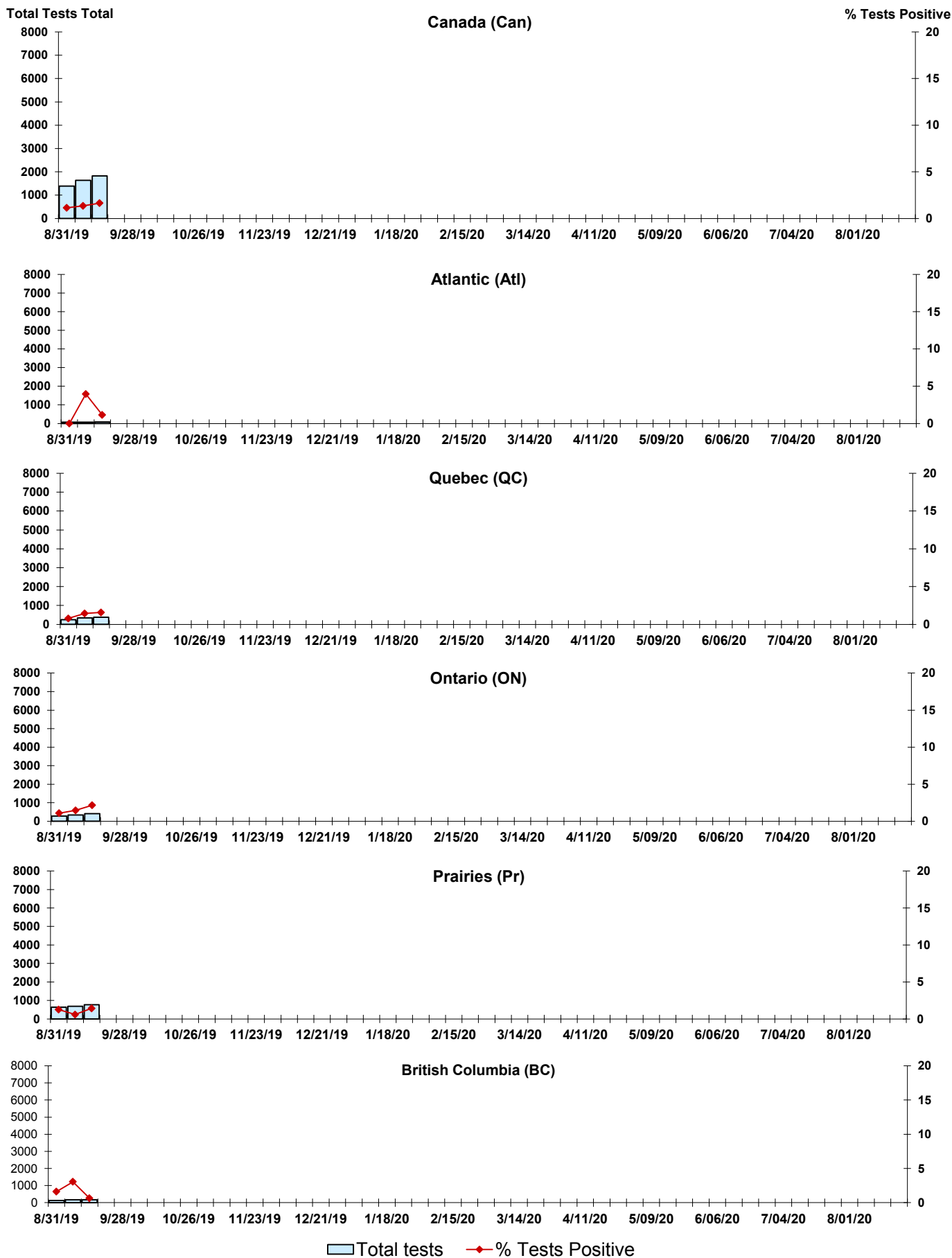


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

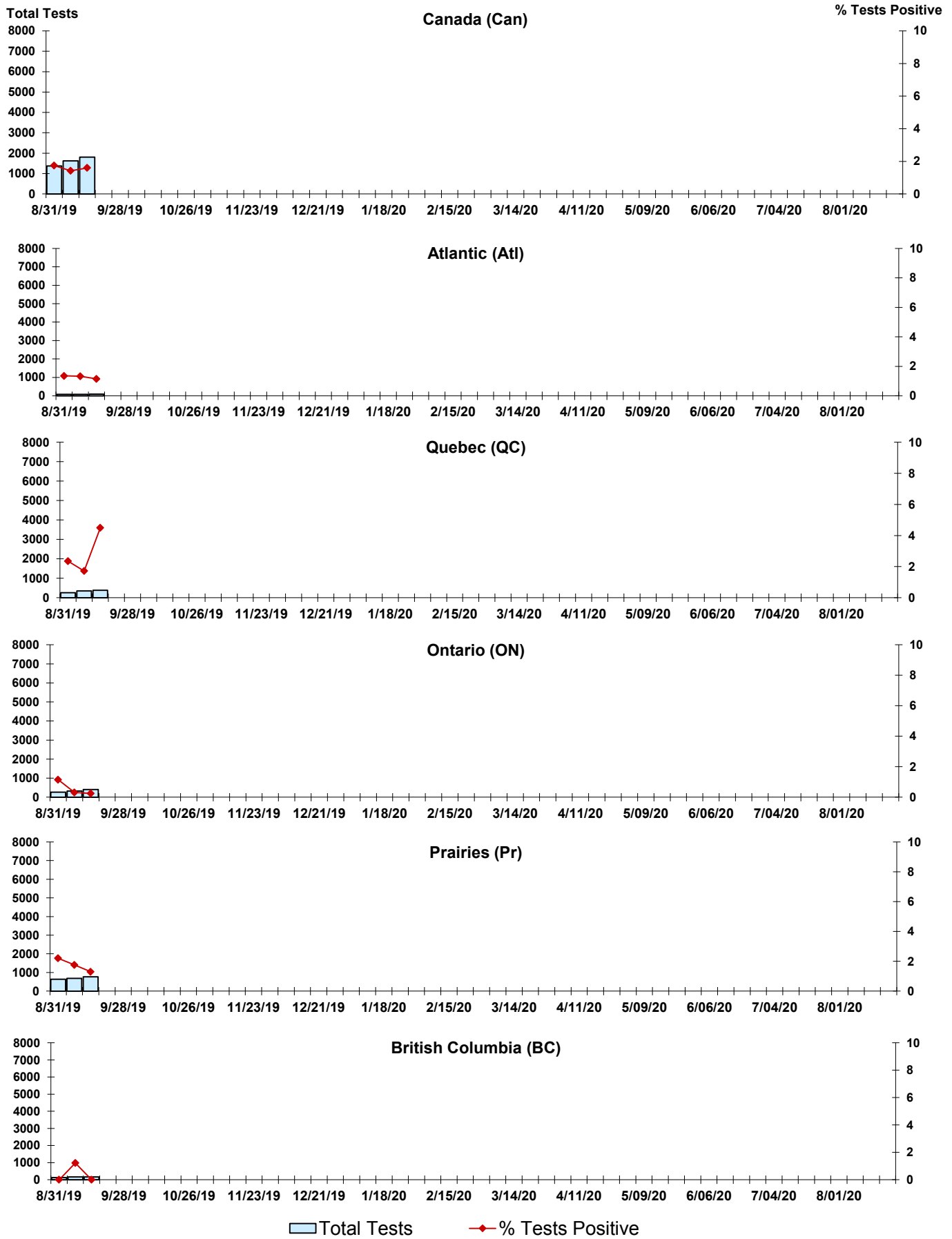


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

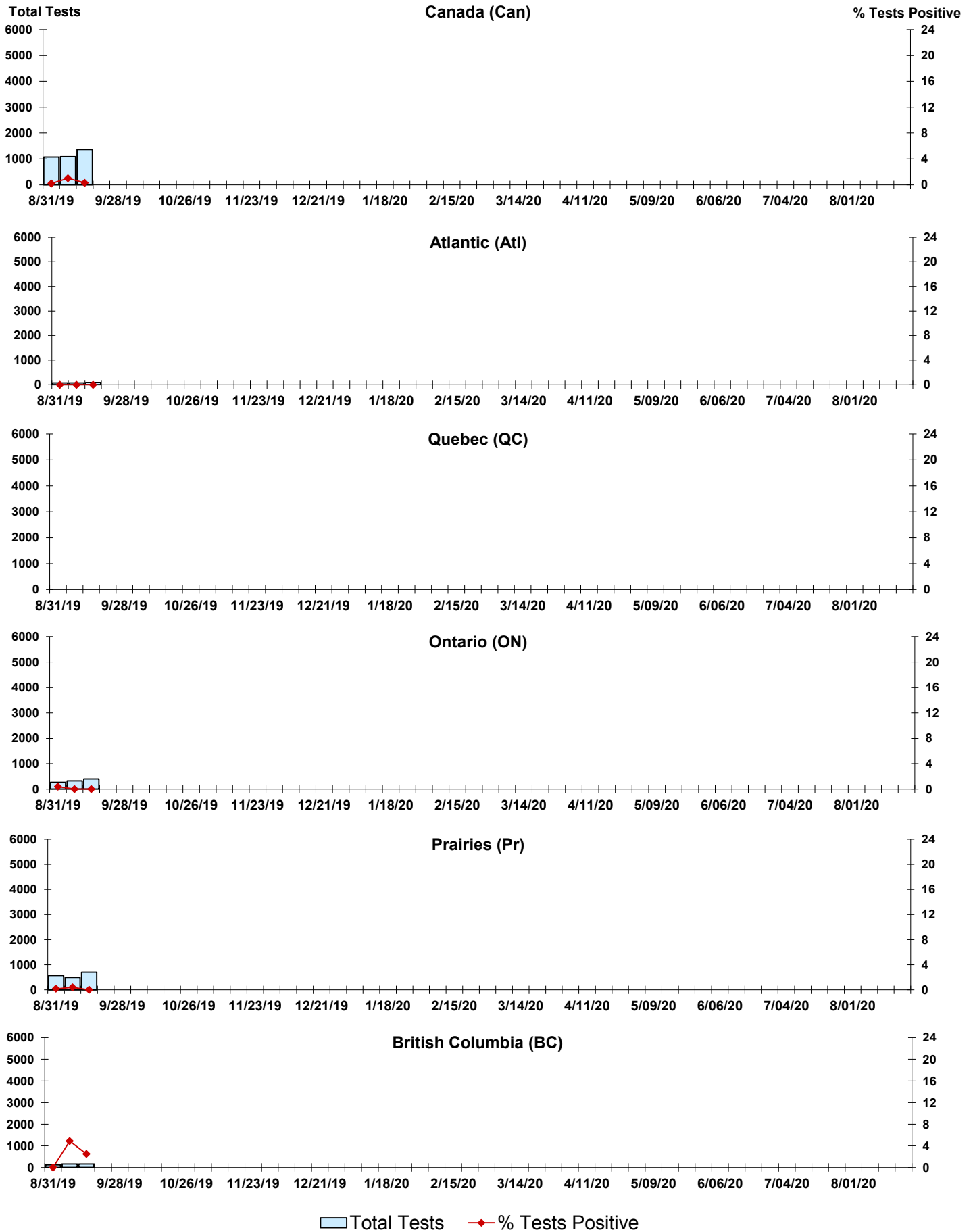


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

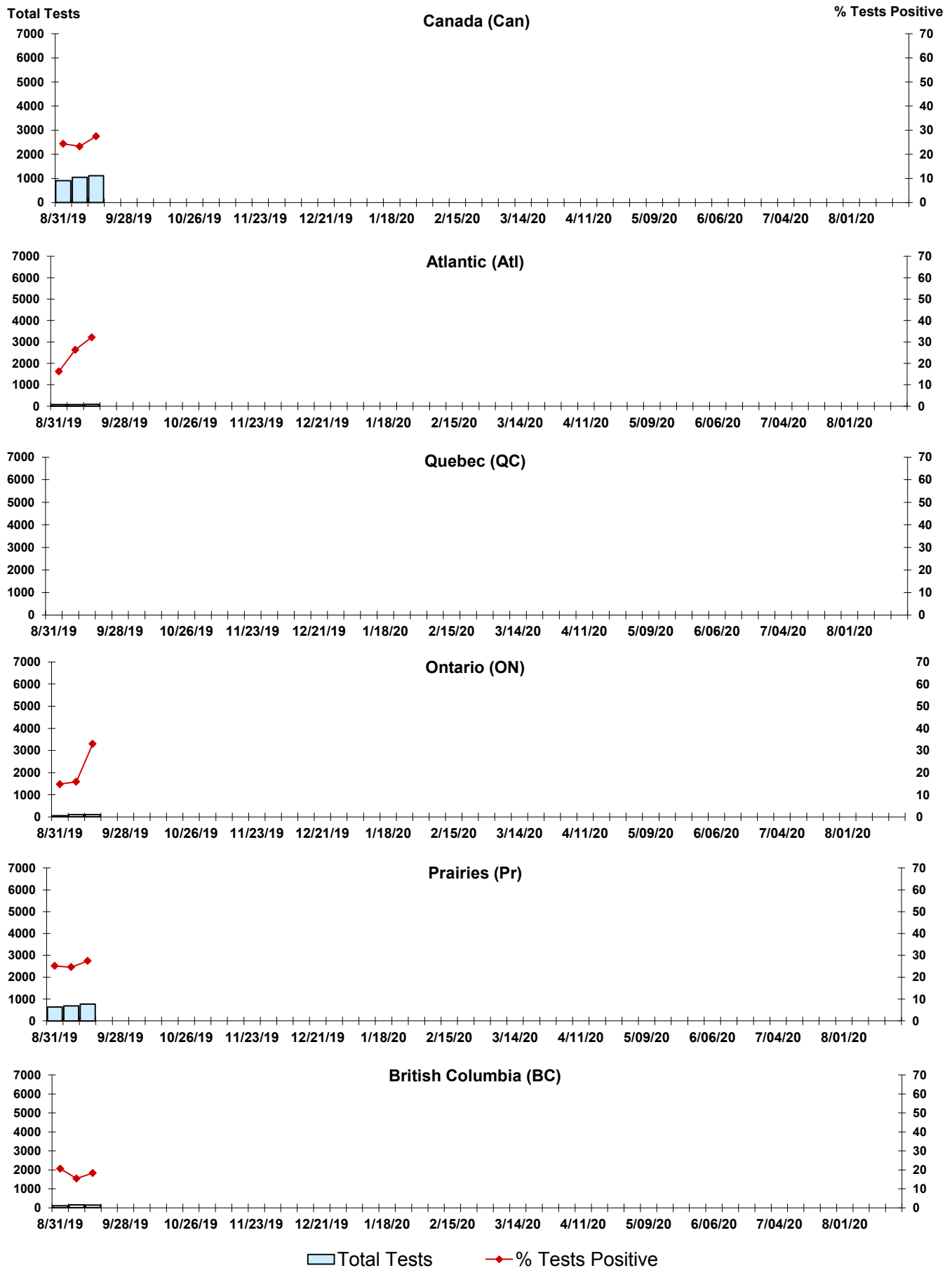
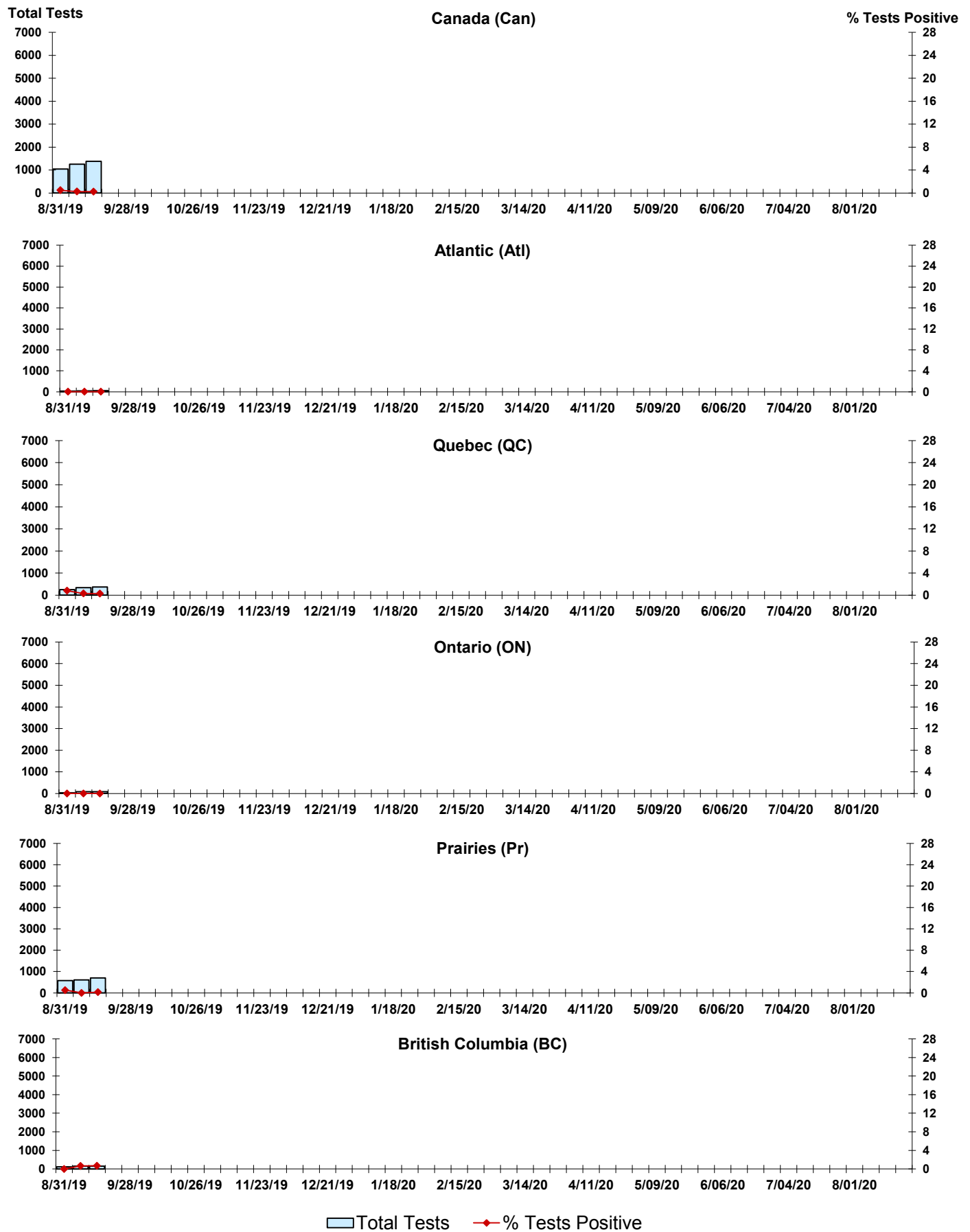


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.