

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 37 - ending September 15, 2018

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 15, 2018 (Reporting Week 201837)

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	28	0	0	0	0	0	28	0	28	0	0	0	0	0	28	0	28	0	28	5	N.A.	N.A.
Prince Edward Island	3	0	0	0	0	0	0	0	3	0	0	1	0	0	3	1	3	0	3	1	3	0
Nova Scotia	11	0	0	0	0	0	11	0	6	0	0	1	0	0	6	0	6	0	6	2	6	0
New Brunswick	82	0	0	0	0	0	82	0	27	0	0	0	0	0	27	3	27	0	27	6	27	1
Atlantic	124	0	0	0	0	0	121	0	64	0	0	2	0	0	64	4	64	0	64	14	36	1
Région Nord-Est	20	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	28	0	0	0	0	0	46	0	43	0	0	0	0	0	45	1	42	0	N.A.	N.A.	42	0
Centre-du-Québec	21	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	456	0	0	0	0	0	476	5	389	3	4	4	4	0	389	5	374	1	N.A.	N.A.	374	0
Ouest du Québec	25	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	32	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	582	0	0	0	0	0	617	5	432	3	4	4	4	0	434	6	416	1	N.A.	N.A.	416	0
Ottawa P.H.L.	4	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	1	0	1	0	0	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
Kingston P.H.L.	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	0	0	0	0
UHN / Mount Sinai Hospital	157	0	0	0	0	0	157	3	13	0	0	0	0	0	0	0	13	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	133	0	0	2	2	0	115	1	115	0	1	0	0	0	115	2	114	0	1	0	0	0
Sick Kids Hospital - Toronto	29	0	0	0	0	0	29	1	29	0	1	0	0	0	29	1	29	0	29	11	29	0
Sunnybrook & Women's College HSC	14	0	0	0	0	0	14	0	14	0	0	0	0	0	14	0	14	0	14	4	14	0
Sault Ste. Marie P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
Timmins P.H.L.	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
London P.H.L.	16	0	0	0	0	0	10	0	10	0	0	0	0	0	10	0	9	0	1	0	0	0
Orillia P.H.L.	6	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	0
Thunder Bay P.H.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudbury P.H.L.	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	0	0	0	0
Hamilton P.H.L.	21	0	0	0	0	0	11	0	11	0	0	0	0	0	11	0	11	0	0	0	0	0
Peterborough P.H.L.	9	0	0	0	0	0	6	1	6	0	0	0	0	0	6	0	6	0	0	0	0	0
Province of Ontario	405	0	0	2	2	0	362	6	218	0	2	0	0	0	205	3	215	0	46	15	43	0
Manitoba	124	0	0	0	0	0	124	0	96	0	0	1	0	0	96	1	38	0	96	17	38	0
Regina	115	0	1	0	1	0	115	0	115	0	0	0	1	0	115	5	115	0	115	38	115	0
Saskatoon	53	0	0	2	2	0	53	0	53	0	0	1	0	0	53	0	53	0	53	19	53	0
Province of Saskatchewan	168	0	1	2	3	0	168	0	168	0	0	1	1	0	168	5	168	0	168	57	168	0
Province of Alberta	407	0	1	1	2	1	373	0	373	0	4	1	2	0	373	3	373	3	373	126	373	0
Prairies	699	0	2	3	5	1	665	0	637	0	4	3	3	0	637	9	579	3	637	200	579	0
British Columbia	230	1	0	0	1	0	230	0	154	0	1	3	3	0	154	5	154	1	132	41	132	0
Yukon	3	0	0	0	0	0	3	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	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	2	9	0	9	2	9	1
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1	0
Territories	13	0	0	0	0	0	13	0	10	0	0	0	0	0	10	2	10	0	10	3	10	1
CANADA	2053	1	2	5	8	1	2008	11	1515	3	11	12	10	0	1504	29	1438	5	889	273	1216	2

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.

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

Table 2: Respiratory Virus Detections/Isolations for the period August 26, 2018 - September 15, 2018 (Reporting Weeks 201835-201837)

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	69	0	0	0	0	0	69	0	69	0	0	0	0	0	69	0	69	0	69	17	N.A.	N.A.
Prince Edward Island	7	0	0	0	0	0	0	0	7	0	0	1	0	0	7	1	7	0	7	2	7	0
Nova Scotia	26	0	0	0	0	0	26	0	10	0	0	1	0	0	10	0	10	0	10	2	10	0
New Brunswick	183	0	0	0	0	0	183	0	84	0	0	0	0	0	84	6	84	0	84	13	84	1
Atlantic	285	0	0	0	0	0	278	0	170	0	0	2	0	0	170	7	170	0	170	34	101	1
Région Nord-Est	49	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	122	0	0	0	0	0	148	1	142	1	2	0	0	0	146	1	136	0	N.A.	N.A.	136	0
Centre-du-Québec	47	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1185	0	0	2	2	0	1239	14	1076	4	17	9	7	0	1076	23	1041	5	N.A.	N.A.	1041	2
Ouest du Québec	65	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	78	0	0	0	0	0	76	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1546	0	0	2	2	0	1614	15	1218	5	19	9	7	0	1222	24	1177	5	N.A.	N.A.	1177	2
Ottawa P.H.L.	29	0	0	0	0	0	26	0	26	0	0	0	0	0	26	0	24	0	2	0	0	0
CHEO - Ottawa	101	0	0	0	0	0	101	0	34	0	0	1	0	0	34	2	34	0	34	8	34	0
Kingston P.H.L.	24	0	0	0	0	0	24	0	24	0	0	0	0	0	24	0	24	0	3	0	0	0
UHN / Mount Sinai Hospital	449	0	0	1	1	0	449	3	31	0	0	0	0	0	0	0	31	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	430	7	5	2	14	0	394	3	394	0	5	2	0	0	394	2	383	1	16	0	0	0
Sick Kids Hospital - Toronto	101	0	0	0	0	0	101	1	101	0	2	2	2	0	101	3	101	1	101	33	101	0
Sunnybrook & Women's College HSC	72	0	0	0	0	0	72	0	72	0	1	0	0	0	72	0	72	0	72	13	72	0
Sault Ste. Marie P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
Timmins P.H.L.	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	1	0	1	0	0	0
St. Joseph's - London	23	0	0	0	0	0	23	0	23	0	0	2	0	0	23	0	23	0	23	4	23	0
London P.H.L.	70	0	0	0	0	0	64	1	64	0	1	0	0	0	64	0	60	0	4	0	0	0
Orillia P.H.L.	18	0	0	0	0	0	14	0	14	0	0	0	0	0	14	0	13	0	1	0	0	0
Thunder Bay P.H.L.	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	5	0	2	0	0	0
Sudbury P.H.L.	17	0	0	0	0	0	17	0	17	0	0	0	0	0	17	0	15	0	2	0	0	0
Hamilton P.H.L.	70	0	0	0	0	0	56	2	56	0	0	0	0	0	56	0	55	0	1	0	0	0
Peterborough P.H.L.	23	0	0	0	0	0	20	1	20	0	0	0	0	0	20	0	20	0	0	0	0	0
Province of Ontario	1440	7	5	3	15	0	1374	11	889	0	8	8	2	0	858	7	865	2	262	58	230	0
Manitoba	316	0	0	0	0	0	312	0	245	0	0	1	1	0	245	3	70	0	245	43	104	0
Regina	294	0	1	0	1	0	294	0	294	0	2	5	1	0	294	7	294	0	294	104	294	0
Saskatoon	144	0	0	2	2	0	144	0	144	0	0	1	0	0	144	5	144	0	144	40	144	0
Province of Saskatchewan	438	0	1	2	3	0	438	0	438	0	2	6	1	0	438	12	438	0	438	144	438	0
Province of Alberta	1087	3	5	3	11	1	995	0	995	1	8	12	8	0	995	11	995	6	995	308	995	4
Prairies	1841	3	6	5	14	1	1745	0	1678	1	10	19	10	0	1678	26	1503	6	1678	495	1537	4
British Columbia	552	2	0	2	4	0	552	1	422	1	1	12	7	0	422	8	422	1	366	87	366	0
Yukon	6	0	0	0	0	0	6	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	21	0	0	0	0	0	21	0	21	0	0	0	0	0	21	4	21	0	21	7	21	1
Nunavut	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	1	5	0	6	3	5	0
Territories	33	0	0	0	0	0	33	0	27	0	0	0	0	0	27	5	26	0	27	10	26	1
CANADA	5697	12	11	12	35	1	5596	27	4404	7	38	50	26	0	4377	77	4163	14	2503	684	3437	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.

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

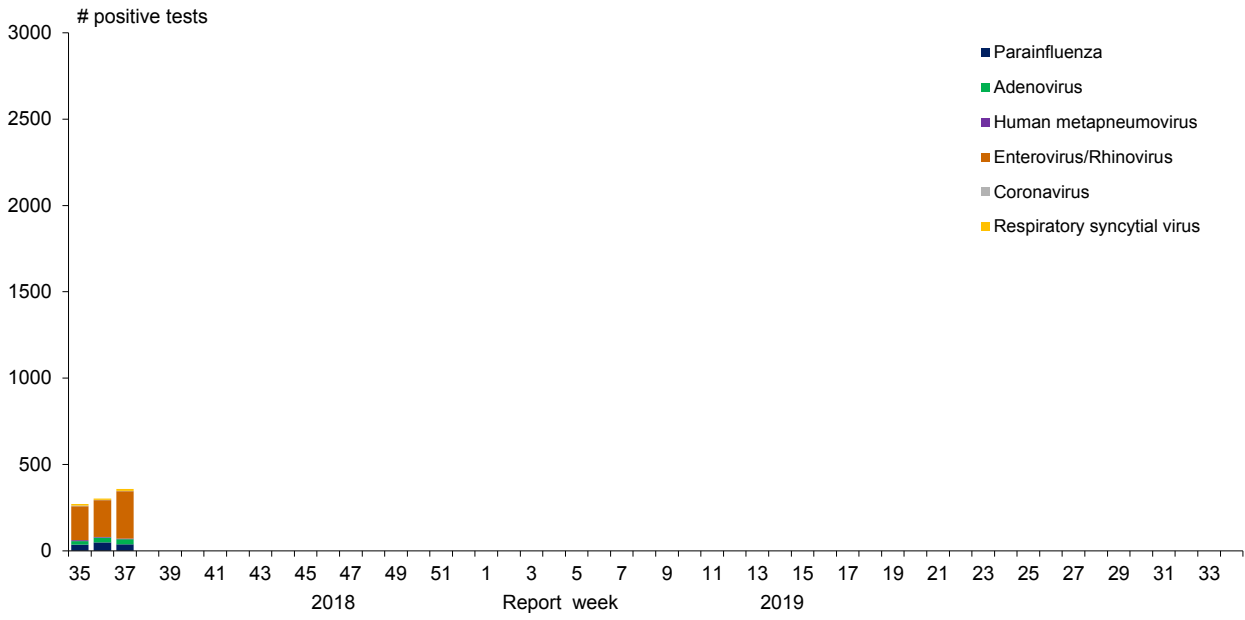


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

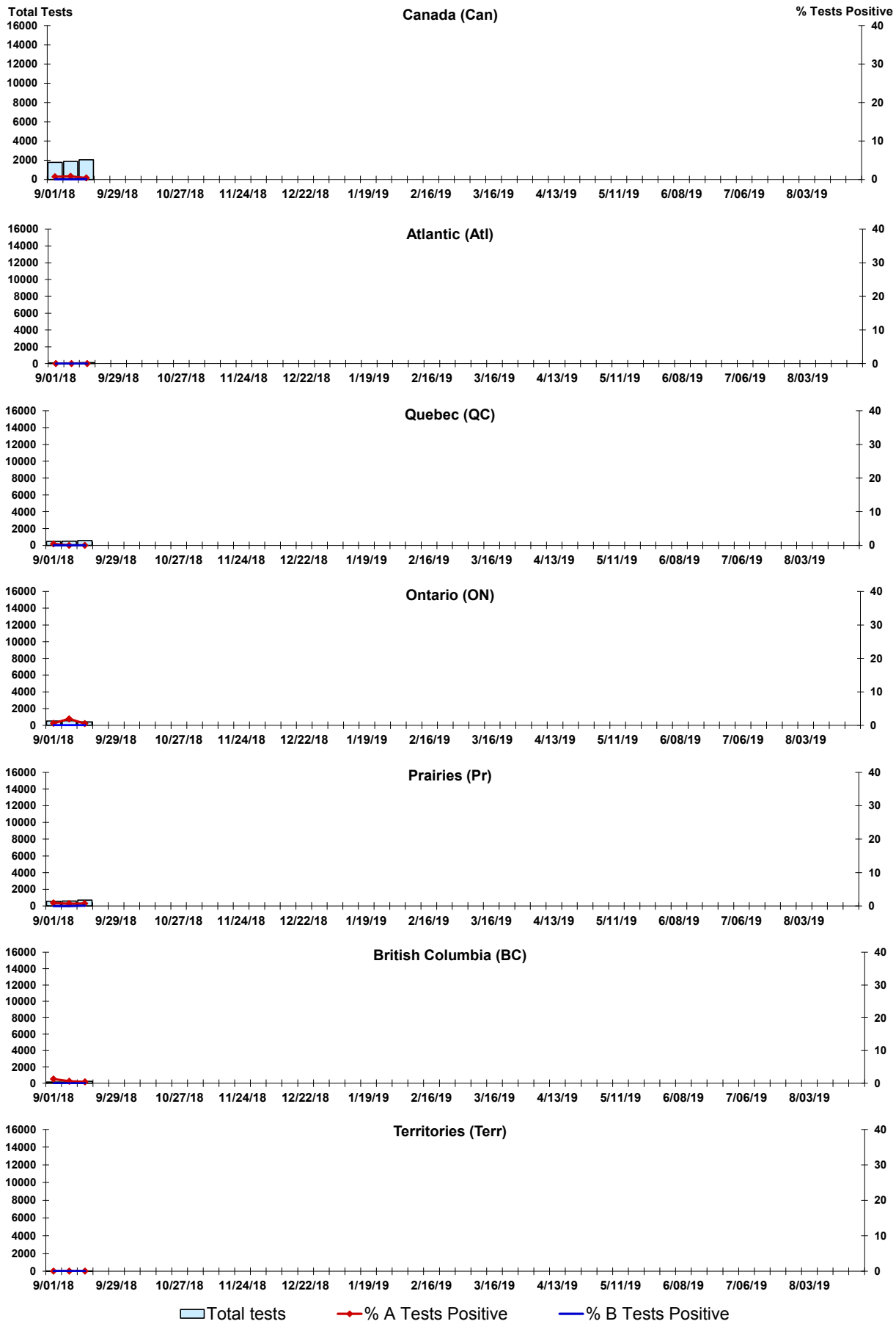


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

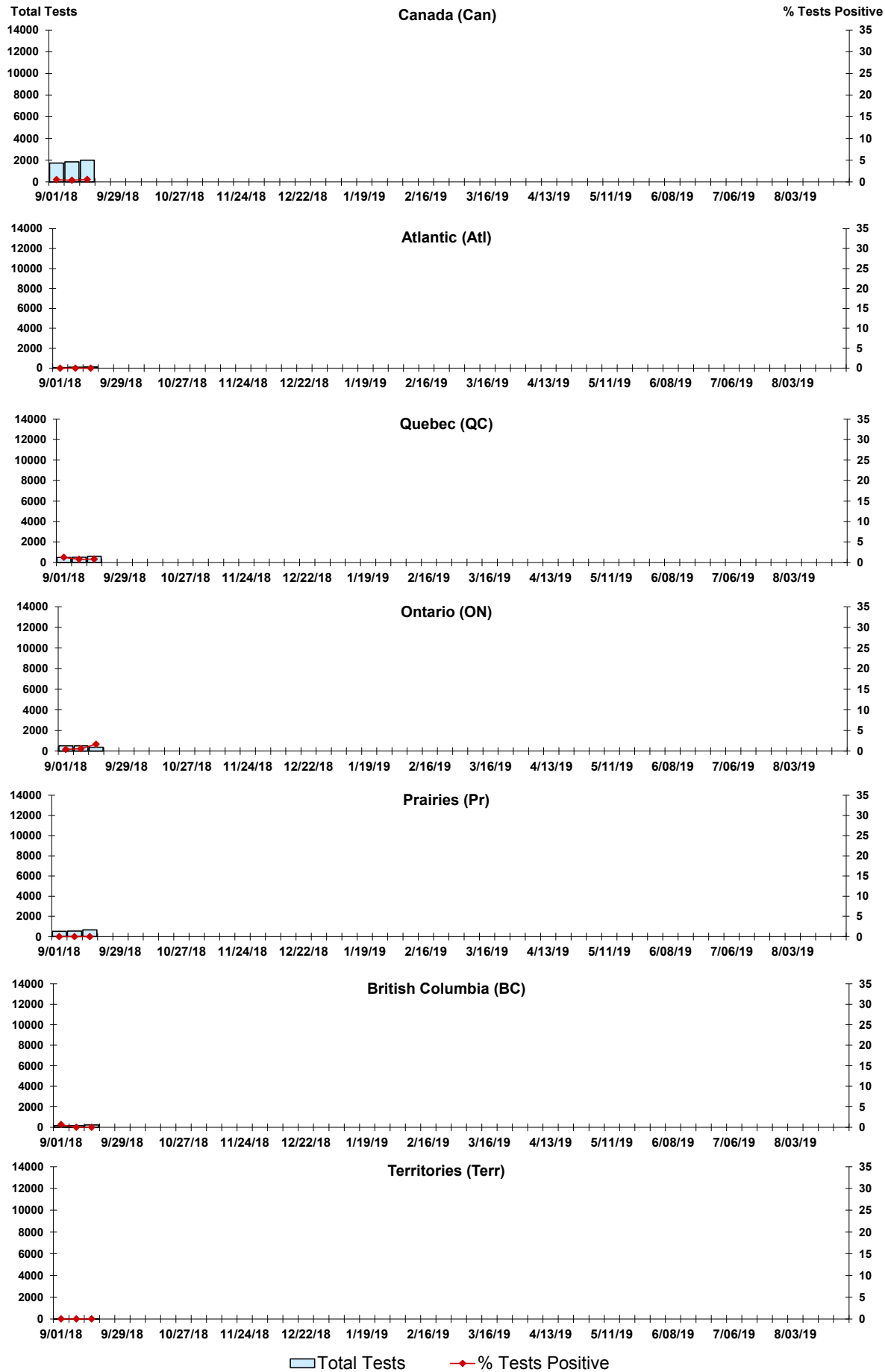


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

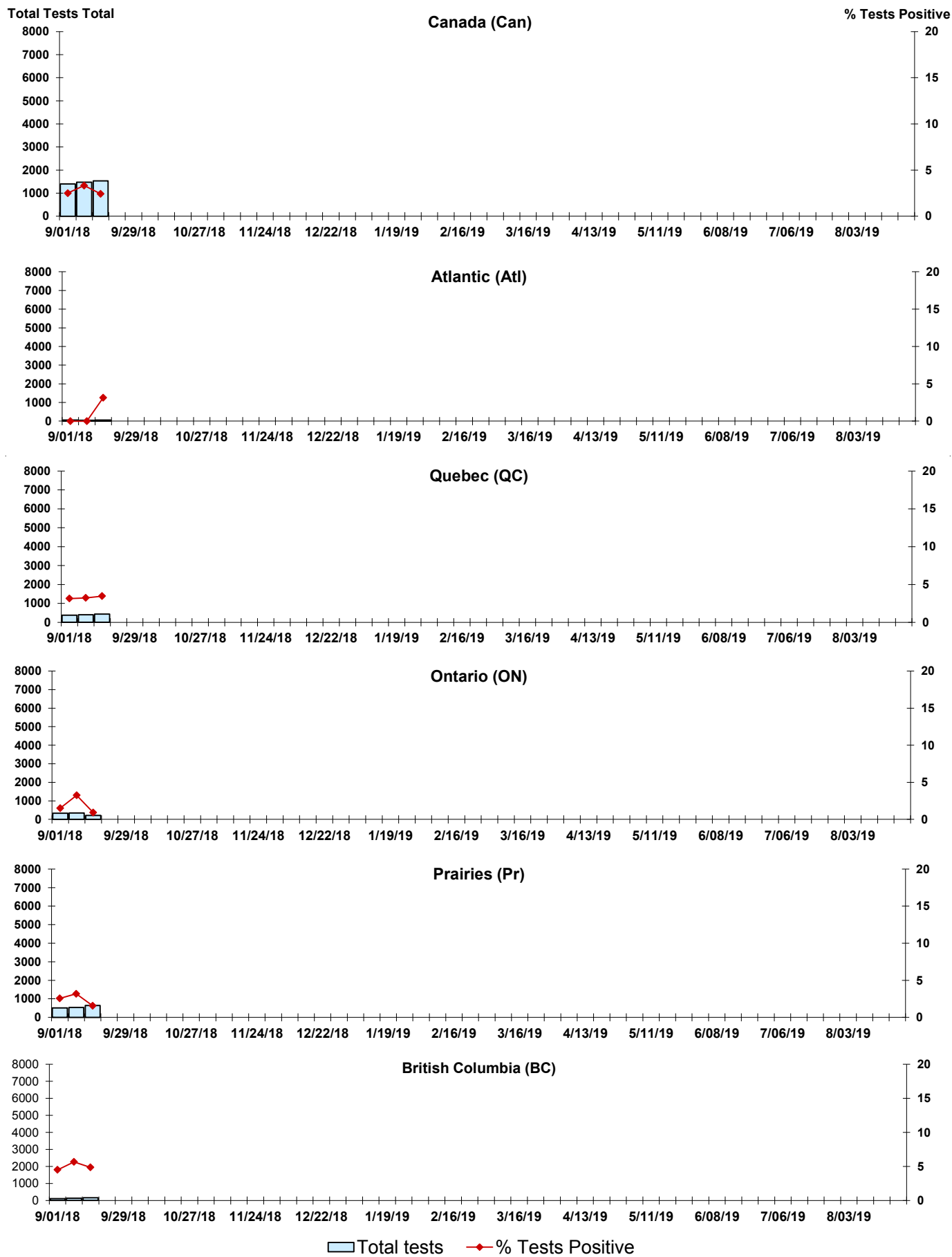


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

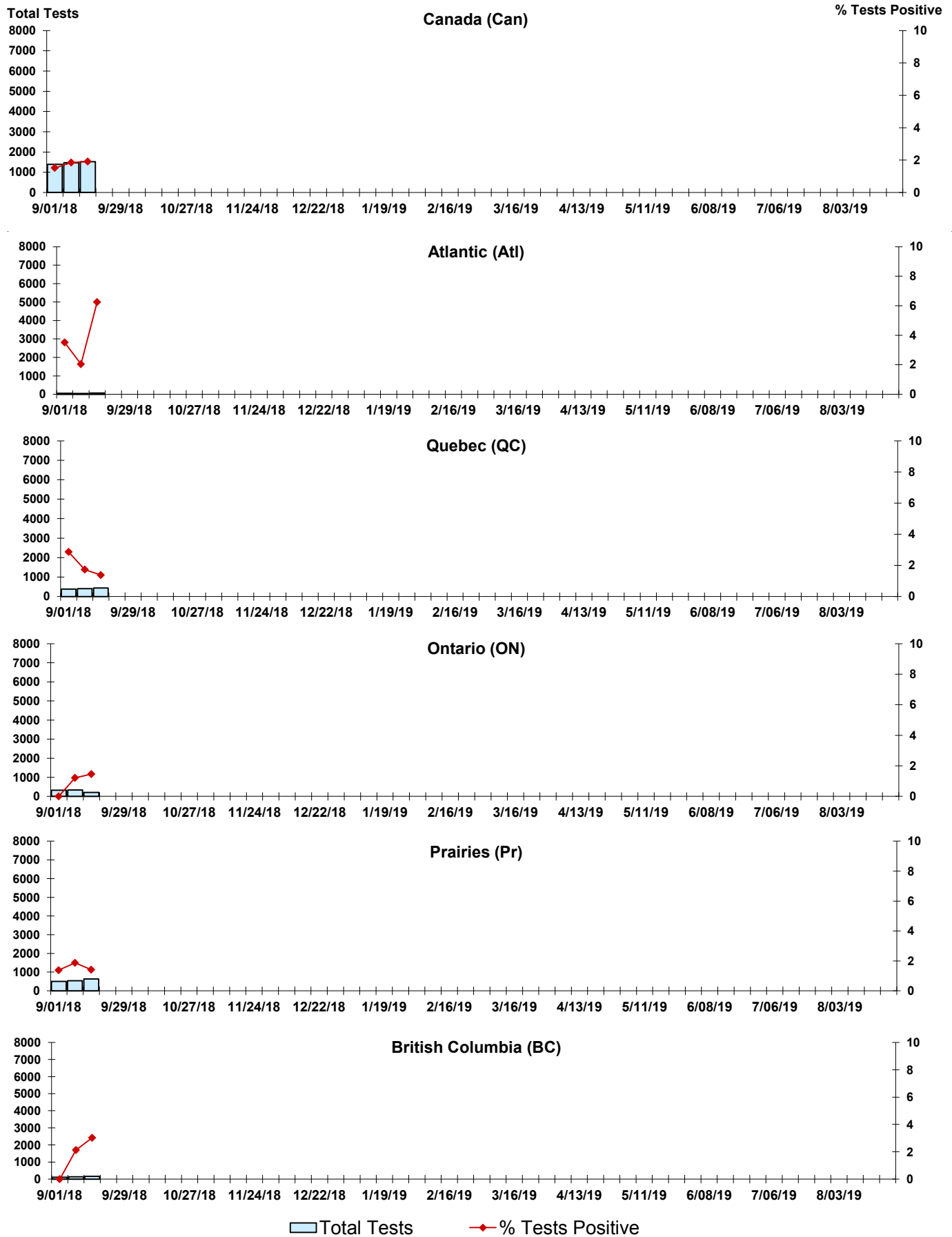
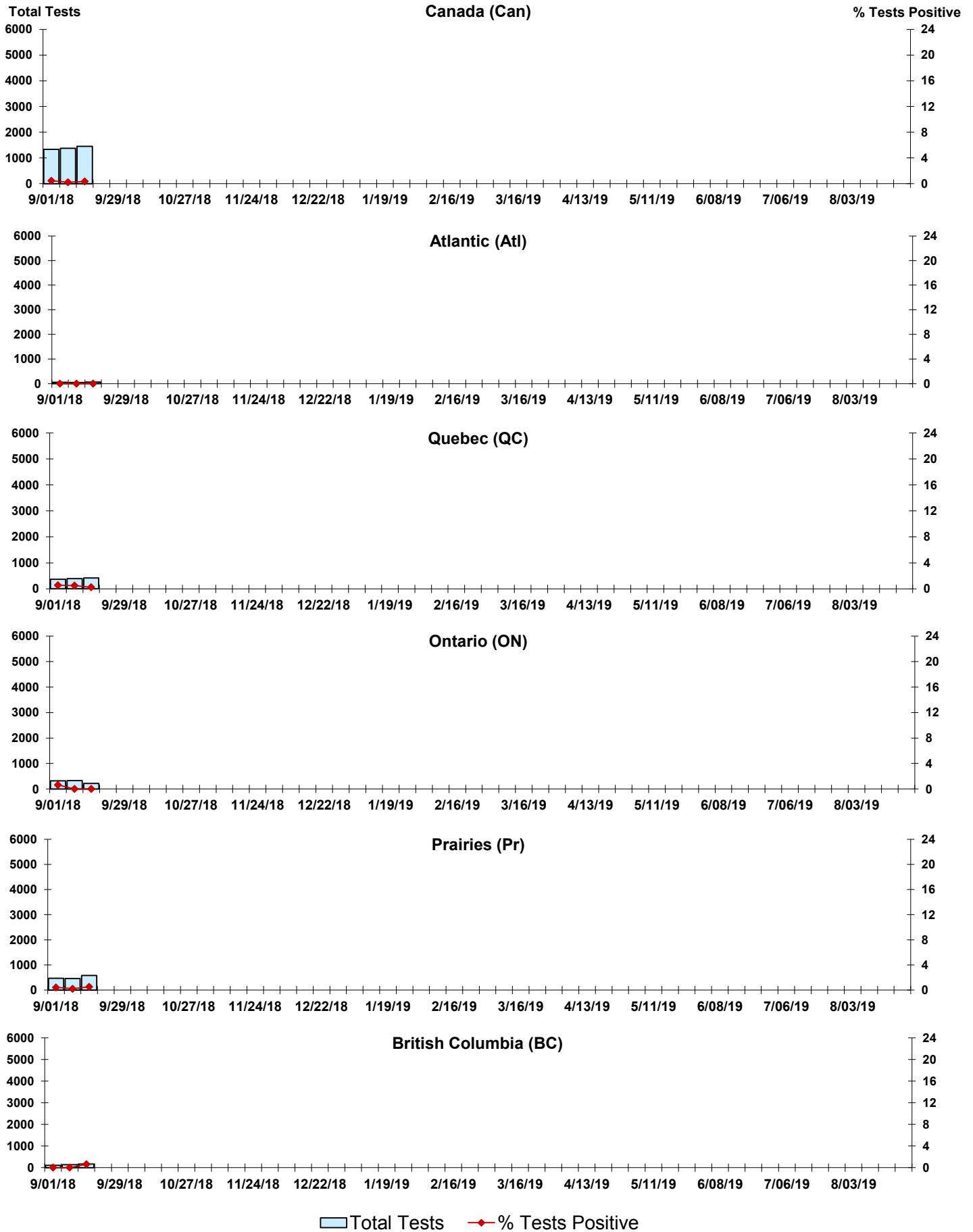


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



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

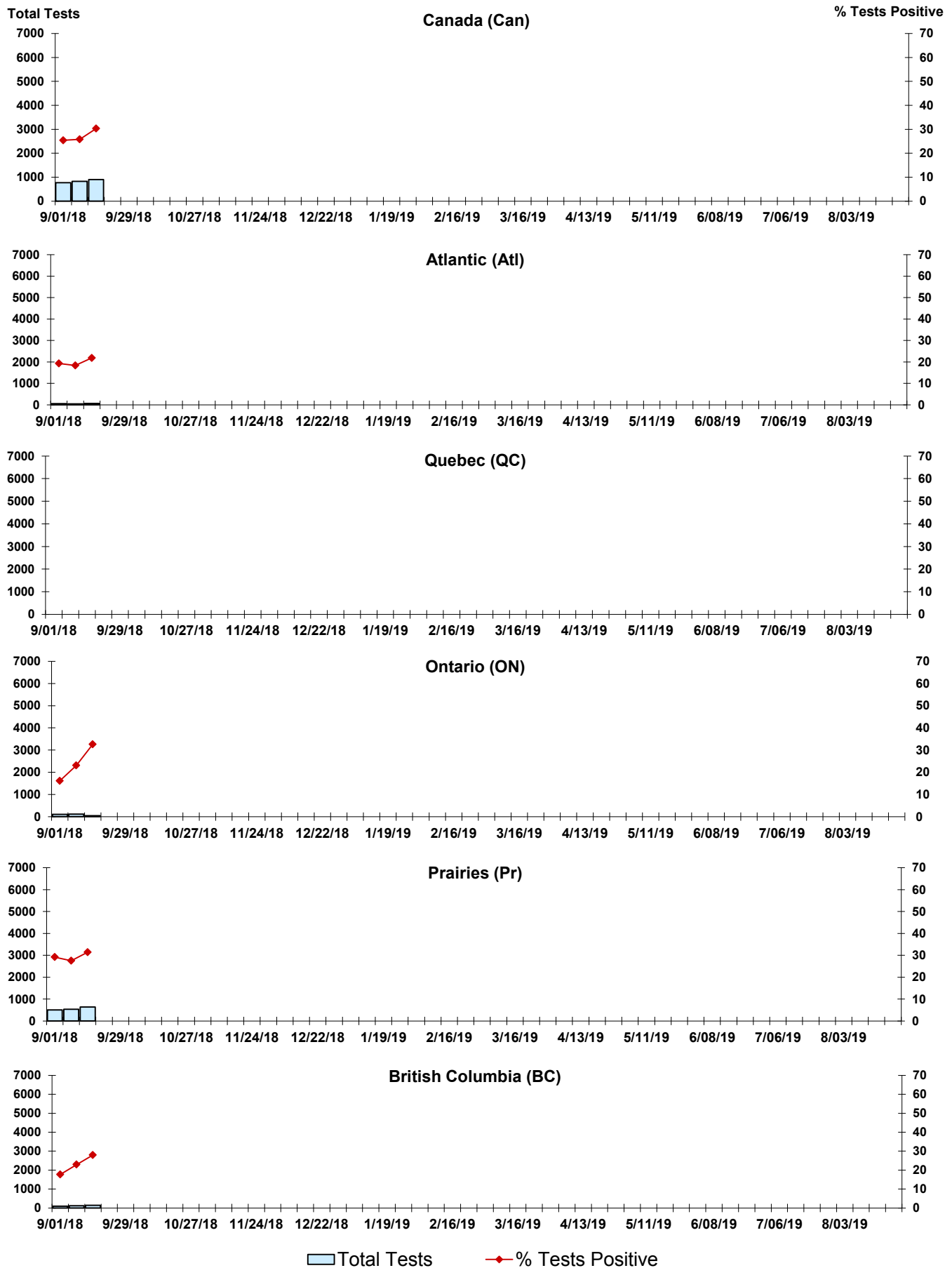
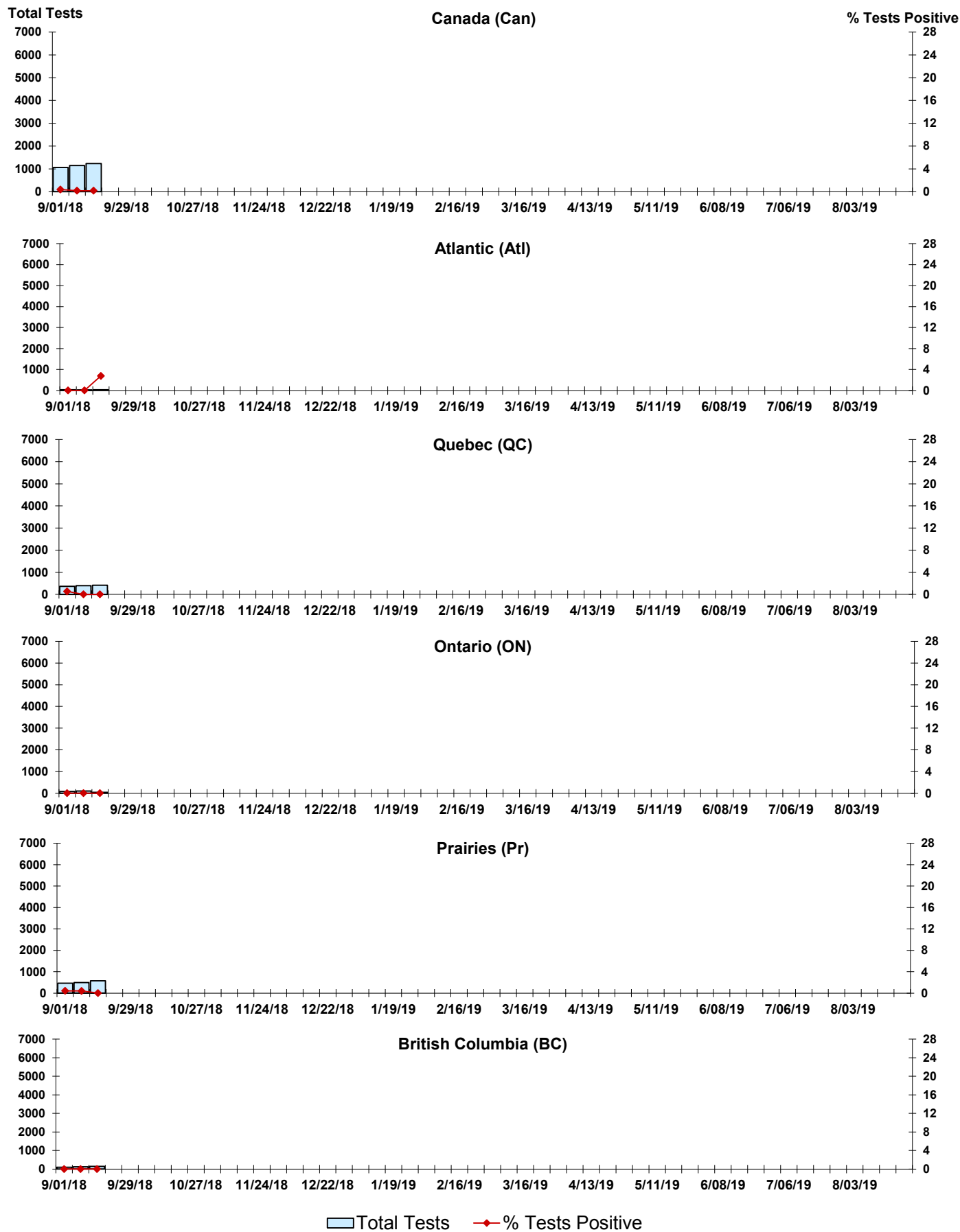


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.