

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 38 - ending September 22, 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 22, 2018 (Reporting Week 201838)

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	1	0	0	28	3	28	0	28	8	N.A.	N.A.
Prince Edward Island	5	0	0	0	0	0	0	0	6	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	16	0	0	0	0	0	16	0	9	0	0	0	0	0	9	0	9	0	9	2	9	0
New Brunswick	49	0	0	0	0	0	49	2	27	0	0	0	0	0	27	2	27	0	27	6	27	0
Atlantic	98	0	0	0	0	0	93	2	70	0	0	1	0	0	65	5	65	0	65	16	37	0
Région Nord-Est	26	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	39	0	0	0	0	0	74	0	72	0	2	0	0	0	74	0	68	1	N.A.	N.A.	68	0
Centre-du-Québec	29	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	474	0	0	1	1	0	496	4	415	0	8	2	1	0	415	5	402	0	N.A.	N.A.	402	0
Ouest du Québec	40	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	61	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	669	0	0	1	1	0	720	4	487	0	10	2	1	0	489	5	470	1	N.A.	N.A.	470	0
Ottawa P.H.L.	11	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	0	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.	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	0	0	0	0
UHN / Mount Sinai Hospital	207	0	0	1	1	0	207	3	11	0	0	0	0	0	0	0	0	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	174	0	0	0	0	3	170	0	170	2	1	0	0	0	170	0	161	0	11	0	0	0
Sick Kids Hospital - Toronto	52	0	0	0	0	0	52	1	52	0	0	0	0	0	52	2	52	0	52	27	52	0
Sunnybrook & Women's College HSC	29	0	0	0	0	0	29	0	29	0	0	0	0	0	29	0	29	0	29	4	29	1
Sault Ste. Marie P.H.L.	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
Timmins P.H.L.	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
St. Joseph's - London	32	0	0	0	0	0	32	0	32	0	0	1	0	0	32	0	32	0	32	18	32	0
London P.H.L.	35	0	0	0	0	0	35	0	35	0	0	0	0	0	35	1	31	0	4	0	0	0
Orillia P.H.L.	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	5	0	1	0	0	0
Thunder Bay P.H.L.	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	0
Sudbury P.H.L.	20	0	0	0	0	0	20	0	20	0	0	0	0	0	20	0	15	0	5	0	0	0
Hamilton P.H.L.	28	0	0	0	0	0	28	2	28	0	0	0	0	0	28	1	28	0	0	0	0	0
Peterborough P.H.L.	28	0	0	0	0	0	27	1	27	0	0	0	0	0	27	0	27	0	1	0	0	0
Province of Ontario	634	0	0	1	1	3	626	7	430	2	1	1	0	0	419	4	400	0	135	49	113	1
Manitoba	106	0	0	0	0	0	107	0	79	0	0	0	0	0	79	0	33	0	79	11	33	0
Regina	159	0	1	0	1	0	159	0	159	0	2	2	2	0	159	2	159	0	159	71	159	0
Saskatoon	38	0	0	0	0	0	38	0	38	1	0	0	0	0	38	3	38	0	38	33	38	1
Province of Saskatchewan	197	0	1	0	1	0	197	0	197	1	2	2	2	0	197	5	197	0	197	104	197	1
Province of Alberta	436	0	0	2	2	0	384	0	384	0	1	2	3	0	384	5	384	0	384	168	384	1
Prairies	739	0	1	2	3	0	688	0	660	1	3	4	5	0	660	10	614	0	660	283	614	2
British Columbia	262	2	1	0	3	0	262	1	175	1	1	4	1	0	175	4	175	0	147	63	147	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	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	5	3	5	0
Nunavut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Territories	11	0	0	0	0	0	11	0	5	0	0	0	0	0	5	0	5	0	5	3	5	0
CANADA	2413	2	2	4	8	3	2400	14	1827	4	15	12	7	0	1813	28	1729	1	1012	414	1386	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. 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 22, 2018 (Reporting Weeks 201835-201838)

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	97	0	0	0	0	0	97	0	97	0	0	1	0	0	97	3	97	0	97	25	N.A.	N.A.
Prince Edward Island	12	0	0	0	0	0	0	0	13	0	0	1	0	0	8	1	8	0	8	2	8	0
Nova Scotia	45	0	0	0	0	0	45	0	19	0	0	1	0	0	19	0	19	0	19	4	19	0
New Brunswick	232	0	0	0	0	0	232	2	111	0	0	0	0	0	111	8	111	0	111	19	111	1
Atlantic	386	0	0	0	0	0	374	2	240	0	0	3	0	0	235	12	235	0	235	50	138	1
Région Nord-Est	80	0	0	0	0	0	76	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	161	0	0	0	0	0	222	1	214	1	4	0	0	0	220	1	204	1	N.A.	N.A.	204	0
Centre-du-Québec	76	0	0	0	0	0	77	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1659	0	0	3	3	0	1735	18	1491	4	25	11	8	0	1491	28	1443	5	N.A.	N.A.	1443	2
Ouest du Québec	105	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	139	0	0	0	0	0	136	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2220	0	0	3	3	0	2339	19	1705	5	29	11	8	0	1711	29	1647	6	N.A.	N.A.	1647	2
Ottawa P.H.L.	41	0	0	0	0	0	37	0	37	0	0	0	0	0	37	0	34	0	3	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.	39	0	0	0	0	0	39	0	39	0	0	0	0	0	39	0	39	0	4	0	0	0
UHN / Mount Sinai Hospital	656	0	0	2	2	0	656	6	42	0	0	0	0	0	0	0	31	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	640	9	5	0	14	3	620	3	620	2	6	3	0	0	620	2	600	1	40	0	0	0
Sick Kids Hospital - Toronto	153	0	0	0	0	0	153	2	153	0	2	2	2	0	153	5	153	1	153	60	153	0
Sunnybrook & Women's College HSC	101	0	0	0	0	0	101	0	101	0	0	1	0	0	101	0	101	0	101	17	101	1
Sault Ste. Marie 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
Timmins P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	2	0	1	0	0	0
St. Joseph's - London	55	0	0	0	0	0	55	0	55	0	0	3	0	0	55	0	55	0	55	22	55	0
London P.H.L.	110	0	0	0	0	0	110	1	110	0	1	0	0	0	110	1	102	0	11	0	0	0
Orillia P.H.L.	26	0	0	0	0	0	26	0	26	0	0	0	0	0	26	0	24	0	2	0	0	0
Thunder Bay P.H.L.	11	0	0	0	0	0	11	0	11	0	0	0	0	0	11	0	9	0	2	0	0	0
Sudbury P.H.L.	40	0	0	0	0	0	40	1	40	0	0	0	0	0	40	0	33	0	7	0	0	0
Hamilton P.H.L.	102	0	0	0	0	0	99	5	99	0	0	0	0	0	99	1	99	0	2	0	0	0
Peterborough P.H.L.	51	0	0	0	0	0	50	2	50	0	0	0	0	0	50	0	50	0	1	0	0	0
Province of Ontario	2134	9	5	2	16	3	2106	20	1425	2	9	10	2	0	1383	11	1371	2	416	107	343	1
Manitoba	422	0	0	0	0	0	419	0	324	0	0	1	1	0	324	3	103	0	324	54	137	0
Regina	453	0	2	0	2	0	453	0	453	0	4	7	3	0	453	9	453	0	453	175	453	0
Saskatoon	182	0	0	2	2	0	182	0	182	1	0	1	0	0	182	8	182	0	182	73	182	1
Province of Saskatchewan	635	0	2	2	4	0	635	0	635	1	4	8	3	0	635	17	635	0	635	248	635	1
Province of Alberta	1545	3	5	5	13	1	1401	0	1401	1	9	14	12	0	1401	18	1401	6	1401	487	1401	5
Prairies	2602	3	7	7	17	1	2455	0	2360	2	13	23	16	0	2360	38	2139	6	2360	789	2173	6
British Columbia	814	4	2	4	10	0	814	2	609	2	2	16	8	0	609	12	609	2	525	153	525	0
Yukon	12	0	0	0	0	0	12	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	28	0	0	0	0	0	28	0	28	0	0	0	0	0	28	4	28	0	28	12	28	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	46	0	0	0	0	0	46	0	34	0	0	0	0	0	34	5	33	0	34	15	33	1
CANADA	8202	16	14	16	46	4	8134	43	6373	11	53	63	34	0	6332	107	6034	16	3570	1114	4859	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.

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

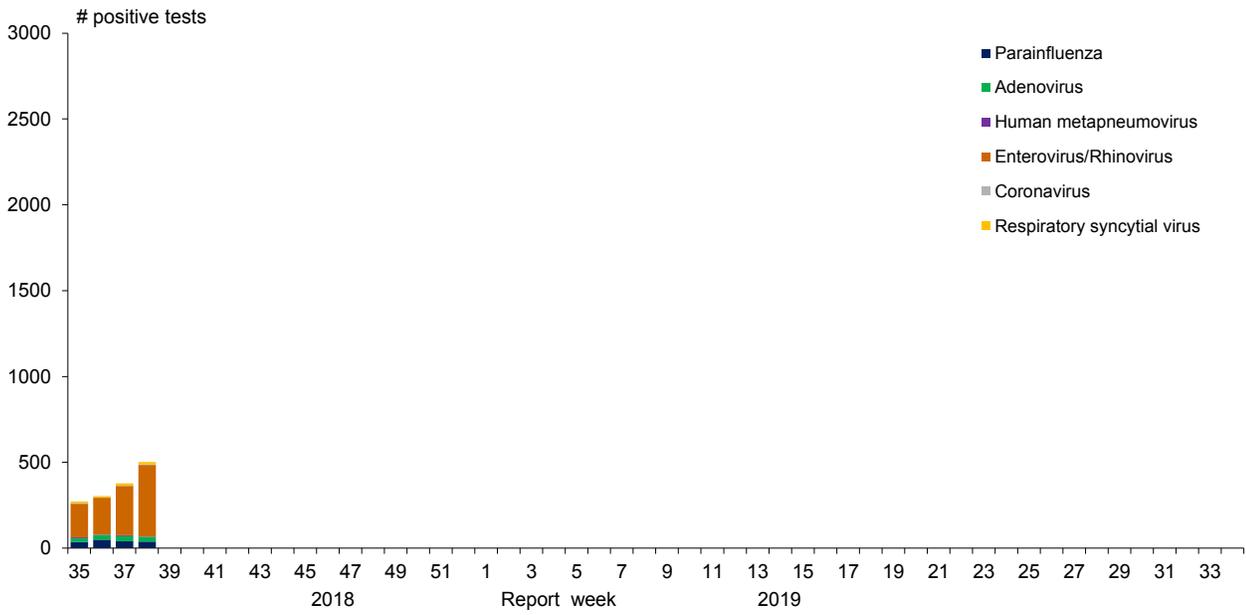


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

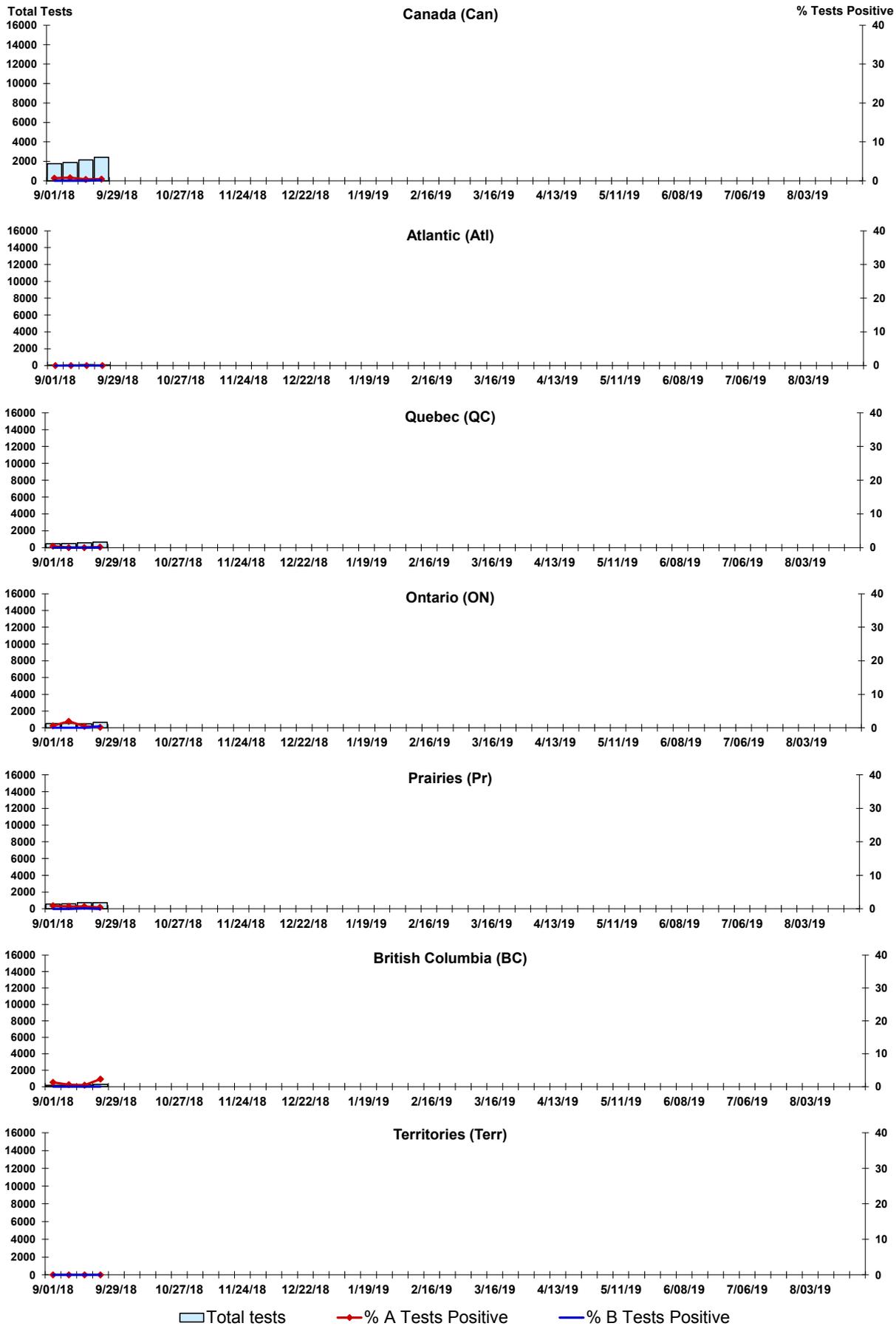


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

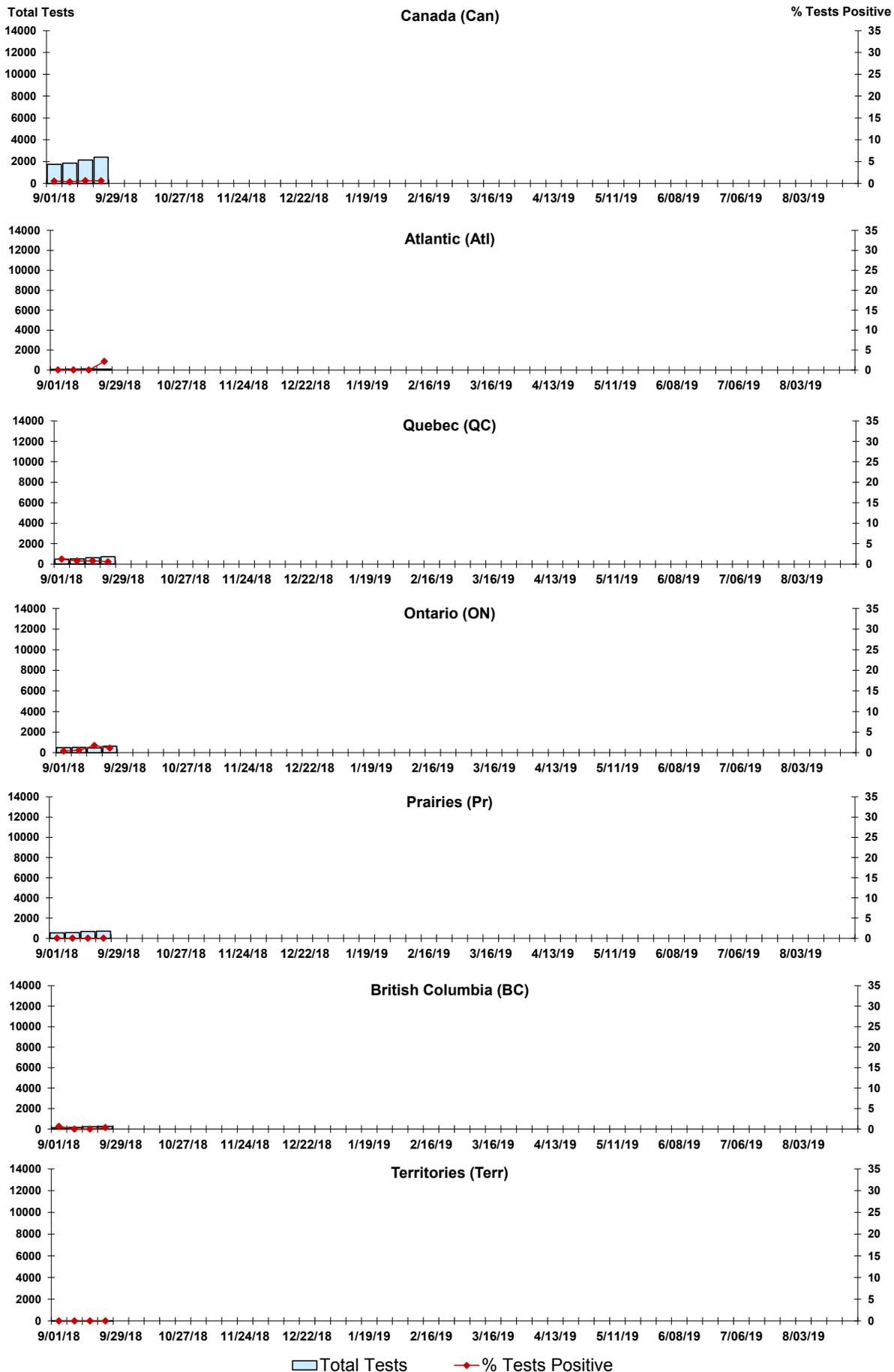


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

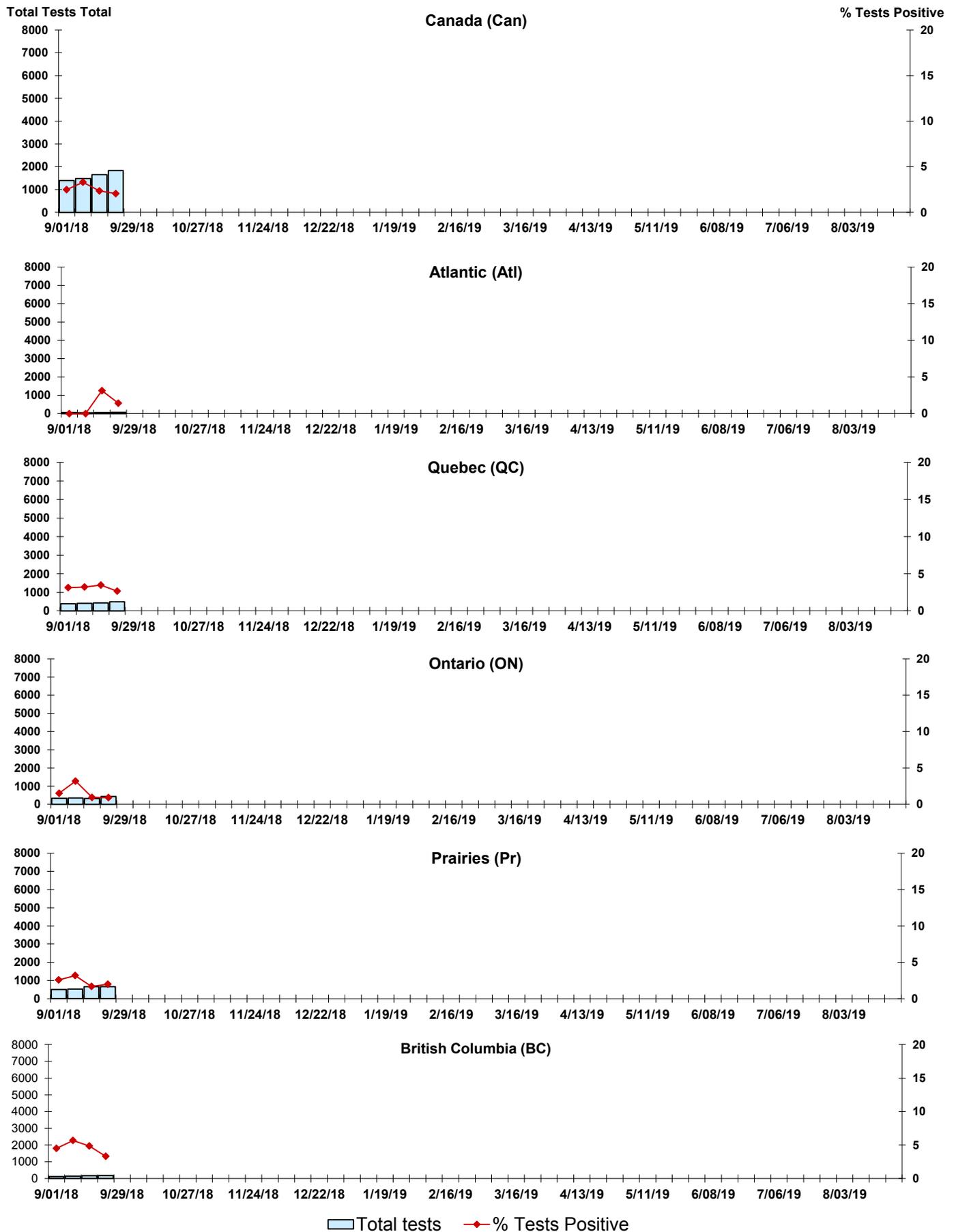


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

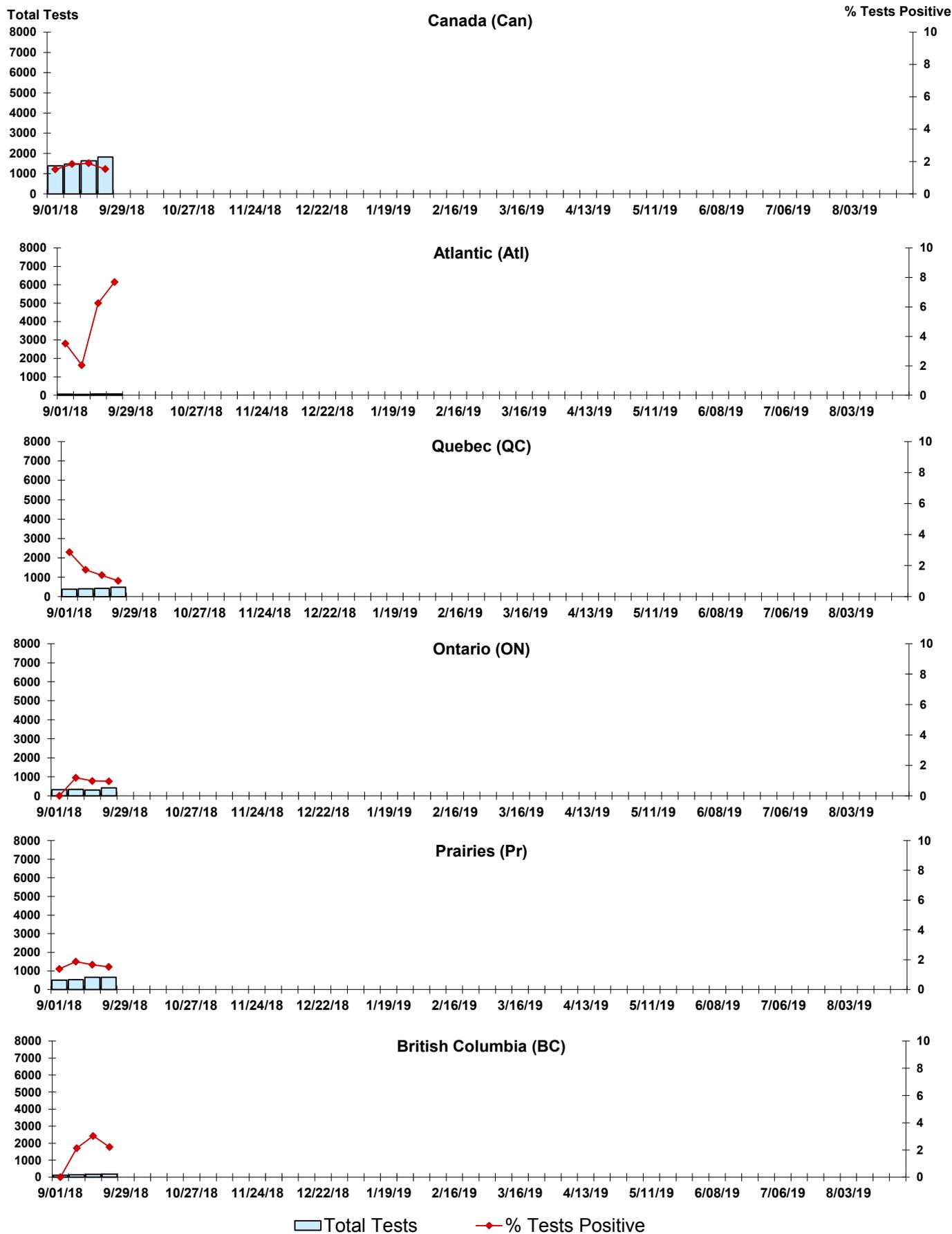


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

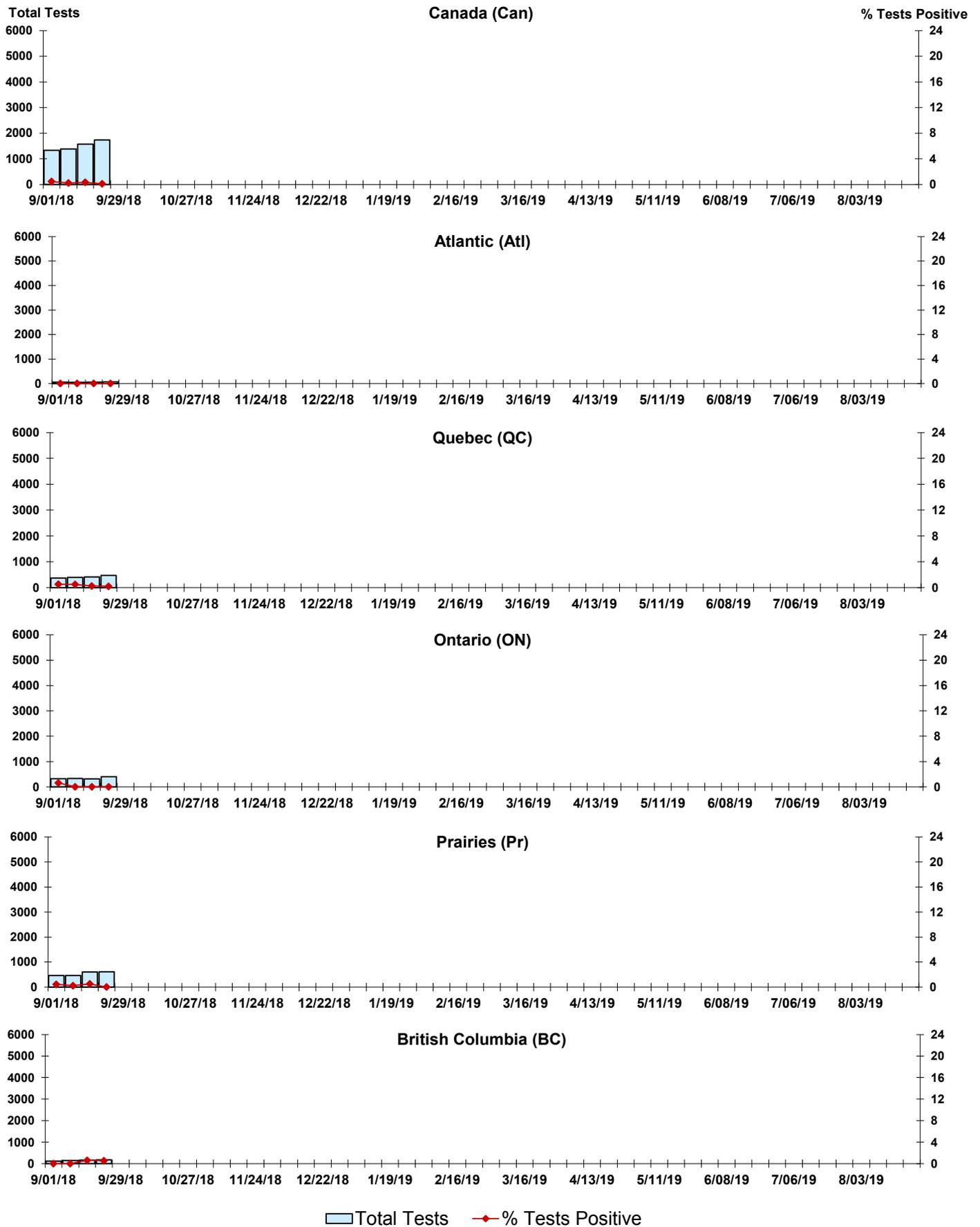


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

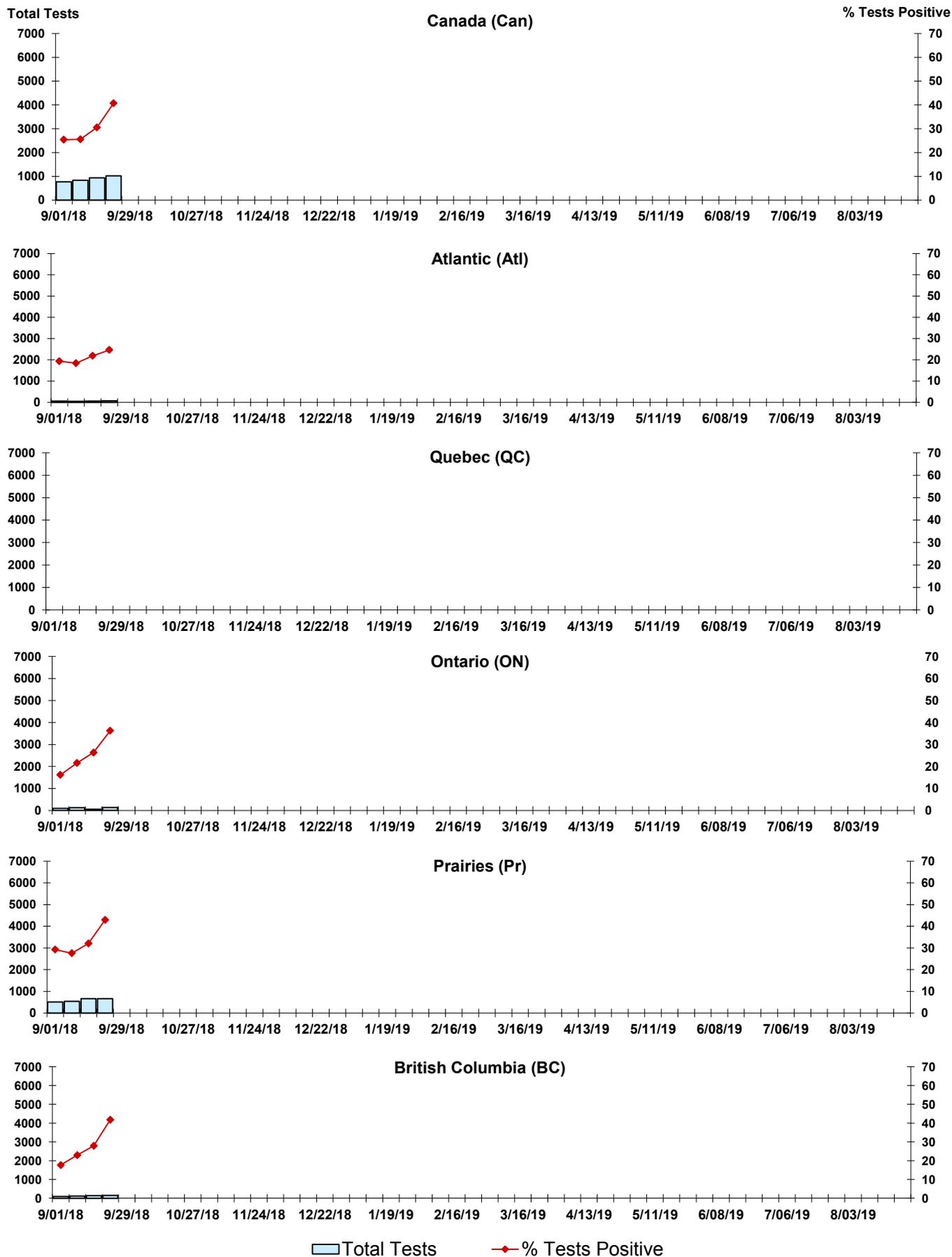
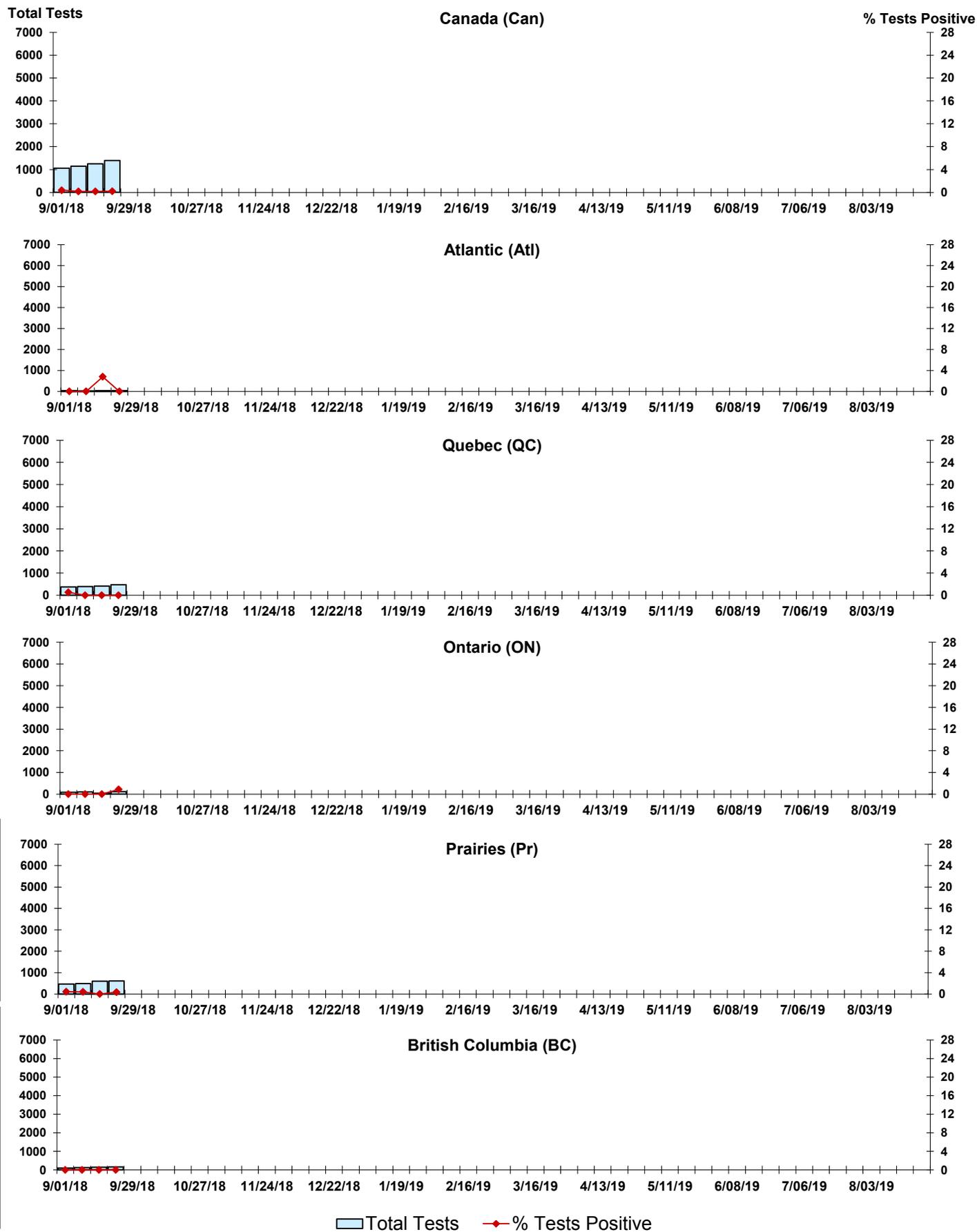


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.