

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 40 - ending October 6, 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 October 6, 2018 (Reporting Week 201840)

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	36	0	0	0	0	0	36	0	36	0	0	1	0	0	36	0	36	0	36	14	N.A.	N.A.
Prince Edward Island	7	0	0	0	0	0	7	0	2	0	0	0	0	0	2	1	2	0	2	1	2	0
Nova Scotia	17	0	0	0	0	0	17	0	11	0	0	0	0	0	11	0	11	0	11	0	11	0
New Brunswick	93	0	0	0	0	0	93	1	33	0	0	0	0	0	33	1	33	0	33	12	33	0
Atlantic	153	0	0	0	0	0	153	1	82	0	0	1	0	0	82	2	82	0	82	27	46	0
Région Nord-Est	49	0	0	3	3	0	43	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	58	0	0	0	0	0	75	1	72	0	3	1	0	0	72	1	64	0	N.A.	N.A.	64	0
Centre-du-Québec	45	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	567	0	0	0	0	0	586	9	420	1	7	2	1	0	420	14	403	2	N.A.	N.A.	403	5
Ouest du Québec	71	0	0	0	0	0	56	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	43	0	0	0	0	0	39	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	833	0	0	3	3	0	844	12	492	1	10	3	1	0	492	15	467	2	N.A.	N.A.	467	5
Ottawa P.H.L.	13	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
CHEO - Ottawa	128	0	0	1	1	0	128	1	27	0	0	0	0	0	27	1	27	0	27	14	27	0
Kingston P.H.L.	23	0	0	0	0	0	18	0	18	0	0	0	0	0	18	0	17	0	2	0	0	0
UHN / Mount Sinai Hospital	179	0	0	0	0	0	179	1	18	0	0	0	0	0	0	0	18	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	202	0	0	0	0	0	200	2	200	0	1	1	0	0	200	2	192	0	8	0	0	0
Sick Kids Hospital - Toronto	58	0	0	0	0	0	58	0	58	1	2	1	1	0	58	1	58	0	58	29	58	1
Sunnybrook & Women's College HSC	50	0	0	0	0	0	50	0	50	0	0	0	0	0	50	0	50	0	50	9	50	2
Sault Ste. Marie P.H.L.	10	0	0	0	0	0	10	0	10	0	0	0	0	0	10	0	9	0	1	0	0	0
Timmins P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	2	0	2	0	0	0
St. Joseph's - London	35	0	0	0	0	0	35	0	35	0	0	0	0	0	35	2	35	1	35	20	35	0
London P.H.L.	55	0	0	0	0	0	52	0	52	0	0	0	0	0	52	0	51	0	1	0	0	0
Orillia P.H.L.	24	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	0	0	0	0
Thunder Bay 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
Sudbury P.H.L.	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	4	0	2	0	0	0
Hamilton P.H.L.	73	0	0	0	0	0	70	0	70	0	1	0	0	0	70	1	70	0	0	0	0	0
Peterborough P.H.L.	32	0	0	0	0	0	29	0	29	0	0	0	0	0	29	0	29	0	0	0	0	0
Province of Ontario	897	0	0	1	1	0	860	4	598	1	4	2	1	0	580	7	583	1	186	72	170	3
Manitoba	219	1	0	1	2	0	210	1	150	0	0	1	0	0	150	0	58	0	150	34	58	0
Regina	150	11	0	1	12	0	150	1	150	0	2	0	1	0	150	1	150	0	150	51	150	0
Saskatoon	137	0	0	5	5	0	137	1	137	0	0	0	0	0	137	5	137	0	137	25	137	0
Province of Saskatchewan	287	11	0	6	17	0	287	2	287	0	2	0	1	0	287	6	287	0	287	76	287	0
Province of Alberta	598	12	4	4	20	3	531	0	531	1	7	3	2	0	531	9	531	4	531	183	531	0
Prairies	1104	24	4	11	39	3	1028	3	968	1	9	4	3	0	968	15	876	4	968	293	876	0
British Columbia	359	2	3	1	6	0	359	3	231	0	0	5	0	0	231	0	231	0	191	84	191	1
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	2	0	0	0	0	0	2	0	2	0	0	1	0	0	2	0	2	0	2	0	2	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	0	1	0	1	0
Territories	6	0	0	0	0	0	6	0	3	0	0	1	0	0	3	1	3	0	3	0	3	0
CANADA	3352	26	7	16	49	3	3250	23	2374	3	23	16	5	0	2356	40	2242	7	1430	476	1753	9

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 - October 6, 2018 (Reporting Weeks 201835-201840)

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	186	0	0	0	0	0	186	0	186	0	0	3	0	0	186	4	186	0	186	55	N.A.	N.A.
Prince Edward Island	26	0	0	0	0	0	23	0	20	0	0	1	0	0	15	2	15	0	15	7	15	0
Nova Scotia	84	0	0	0	0	0	84	0	47	0	0	1	0	0	47	0	47	0	47	11	47	0
New Brunswick	388	0	0	1	1	0	388	3	182	0	0	1	0	0	182	9	182	0	182	41	182	1
Atlantic	684	0	0	1	1	0	681	3	435	0	0	6	0	0	430	15	430	0	430	114	244	1
Région Nord-Est	162	0	0	3	3	0	150	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	253	0	0	0	0	0	341	2	346	1	9	1	1	0	353	2	322	1	N.A.	N.A.	322	0
Centre-du-Québec	167	0	0	0	0	0	170	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	2755	0	0	3	3	0	2867	31	2343	7	41	16	12	0	2343	57	2266	7	N.A.	N.A.	2266	7
Ouest du Québec	238	0	0	0	0	0	201	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	231	0	0	0	0	0	224	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	3806	0	0	6	6	0	3953	37	2689	8	50	17	13	0	2696	59	2588	8	N.A.	N.A.	2588	7
Ottawa P.H.L.	60	0	0	0	0	0	49	0	49	0	0	0	0	0	49	0	46	0	4	0	0	0
CHEO - Ottawa	527	0	0	1	1	0	527	5	126	0	1	2	0	0	126	10	126	0	126	53	126	0
Kingston P.H.L.	67	0	0	0	0	0	62	0	62	0	0	0	0	0	62	0	61	0	7	0	0	0
UHN / Mount Sinai Hospital	1038	0	0	2	2	0	1038	9	75	0	0	0	0	0	0	0	75	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	1056	9	5	0	14	3	1036	5	1036	3	8	4	0	0	1036	4	995	1	70	0	0	0
Sick Kids Hospital - Toronto	262	0	0	0	0	0	262	2	262	1	4	4	3	0	262	7	262	1	262	117	262	2
Sunnybrook & Women's College HSC	187	0	0	0	0	0	187	0	187	0	0	1	0	0	187	0	187	0	187	33	187	6
Sault Ste. Marie P.H.L.	23	0	0	0	0	0	23	0	23	0	0	0	0	0	23	0	22	0	1	0	0	0
Timmins P.H.L.	15	0	0	0	0	0	15	0	15	0	0	0	0	0	15	0	12	0	6	0	0	0
St. Joseph's - London	131	0	0	0	0	0	131	0	131	0	1	3	0	0	131	2	131	1	131	59	131	0
London P.H.L.	209	0	0	0	0	0	204	1	204	0	1	0	0	0	204	1	195	0	14	0	0	0
Orillia P.H.L.	57	0	0	0	0	0	46	0	46	0	0	0	0	0	46	0	44	0	2	0	0	0
Thunder Bay P.H.L.	20	0	0	0	0	0	20	0	20	0	0	0	0	0	20	0	18	0	2	0	0	0
Sudbury P.H.L.	60	0	0	0	0	0	60	1	60	0	0	0	0	0	60	0	49	0	11	0	0	0
Hamilton P.H.L.	231	0	0	0	0	0	224	5	224	0	1	0	0	0	224	2	221	0	7	0	0	0
Peterborough P.H.L.	107	0	0	0	0	0	104	2	104	0	0	0	0	0	104	0	104	0	2	0	0	0
Province of Ontario	4050	9	5	3	17	3	3988	30	2624	4	16	14	3	0	2549	26	2548	3	832	262	706	8
Manitoba	835	1	0	1	2	0	822	1	624	0	0	3	1	0	624	6	229	0	624	114	263	0
Regina	750	11	2	1	14	0	750	1	750	0	6	7	4	0	750	12	750	0	750	298	750	0
Saskatoon	436	0	0	10	10	0	436	3	436	1	0	1	0	0	436	15	436	0	436	130	436	1
Province of Saskatchewan	1186	11	2	11	24	0	1186	4	1186	1	6	8	4	0	1186	27	1186	0	1186	428	1186	1
Province of Alberta	2699	16	11	11	38	6	2421	0	2421	2	19	20	15	0	2421	39	2421	15	2421	879	2421	6
Prairies	4720	28	13	23	64	6	4429	5	4231	3	25	31	20	0	4231	72	3836	15	4231	1421	3870	7
British Columbia	1462	6	8	11	25	1	1462	6	1053	2	3	23	12	0	1053	15	1053	3	885	297	885	5
Yukon	21	0	0	0	0	0	21	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	42	0	0	0	0	0	42	0	42	0	0	2	0	0	42	4	42	0	42	15	42	1
Nunavut	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	2	8	0	9	5	8	0
Territories	72	0	0	0	0	0	72	0	51	0	0	2	0	0	51	6	50	0	51	20	50	1
CANADA	14794	43	26	44	113	10	14585	81	11083	17	94	93	48	0	11010	193	10505	29	6429	2114	8343	29

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

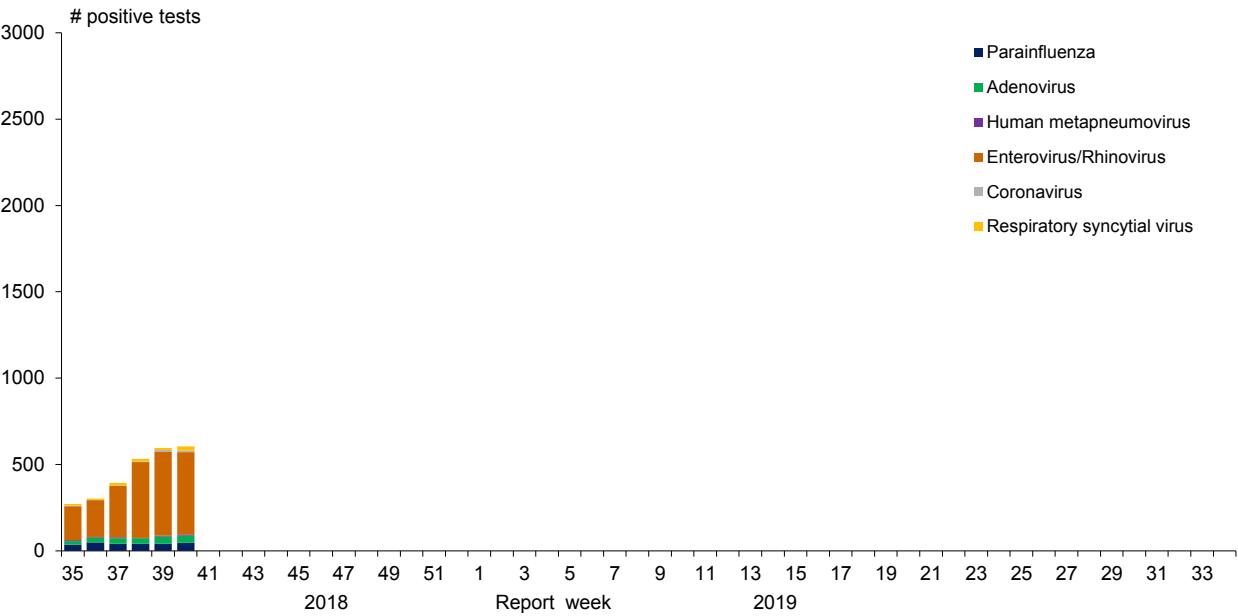


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

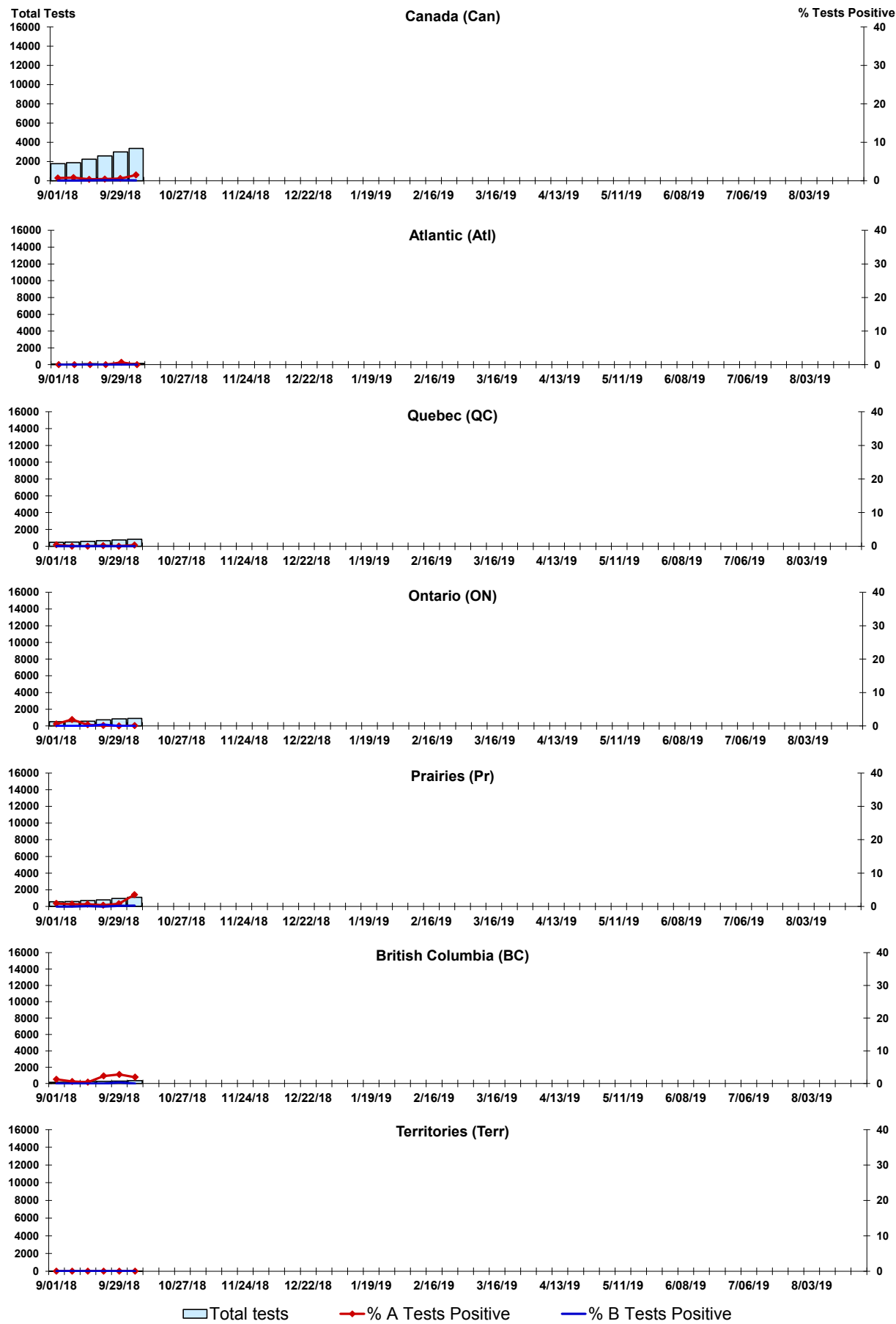


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

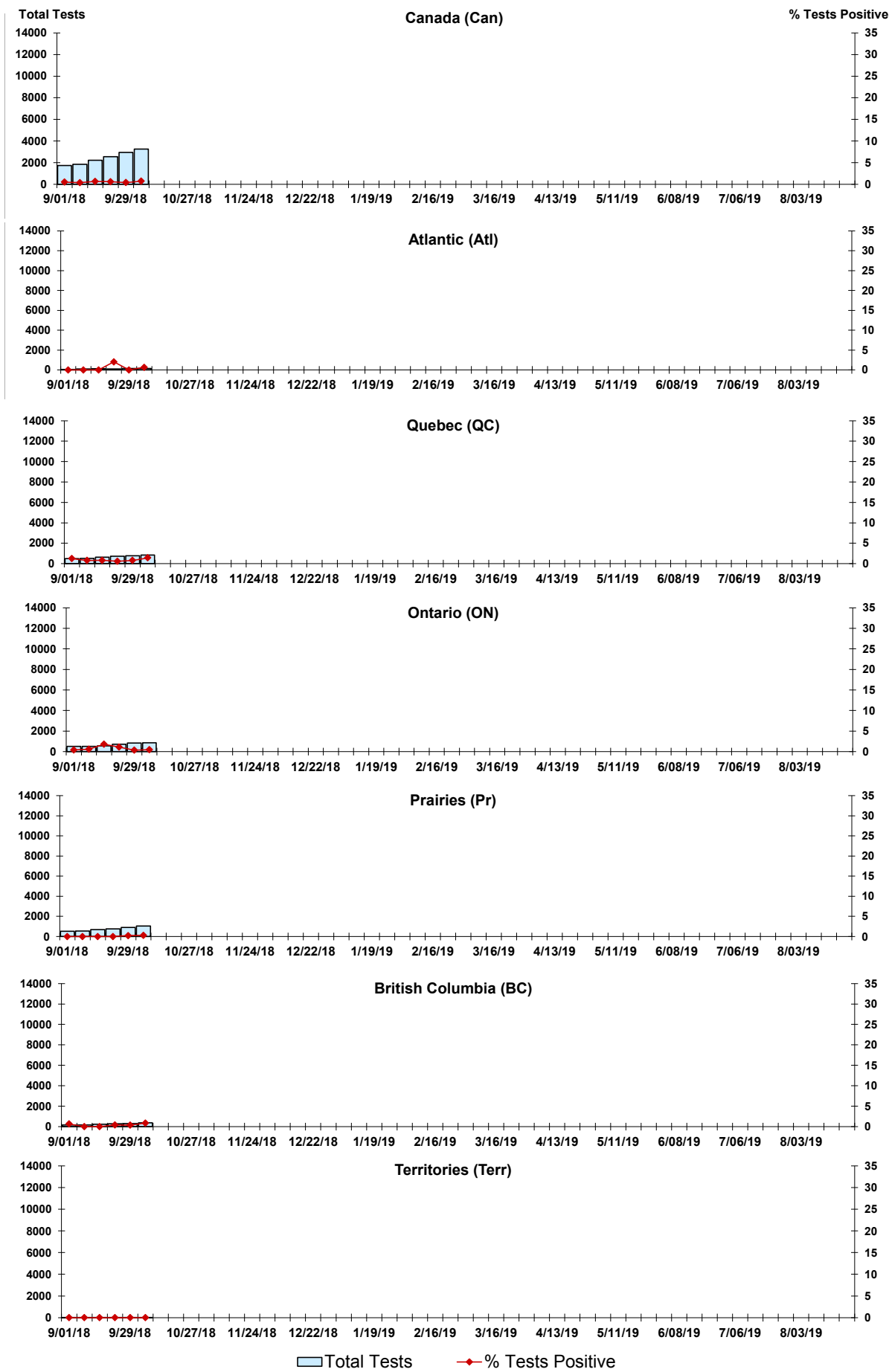


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

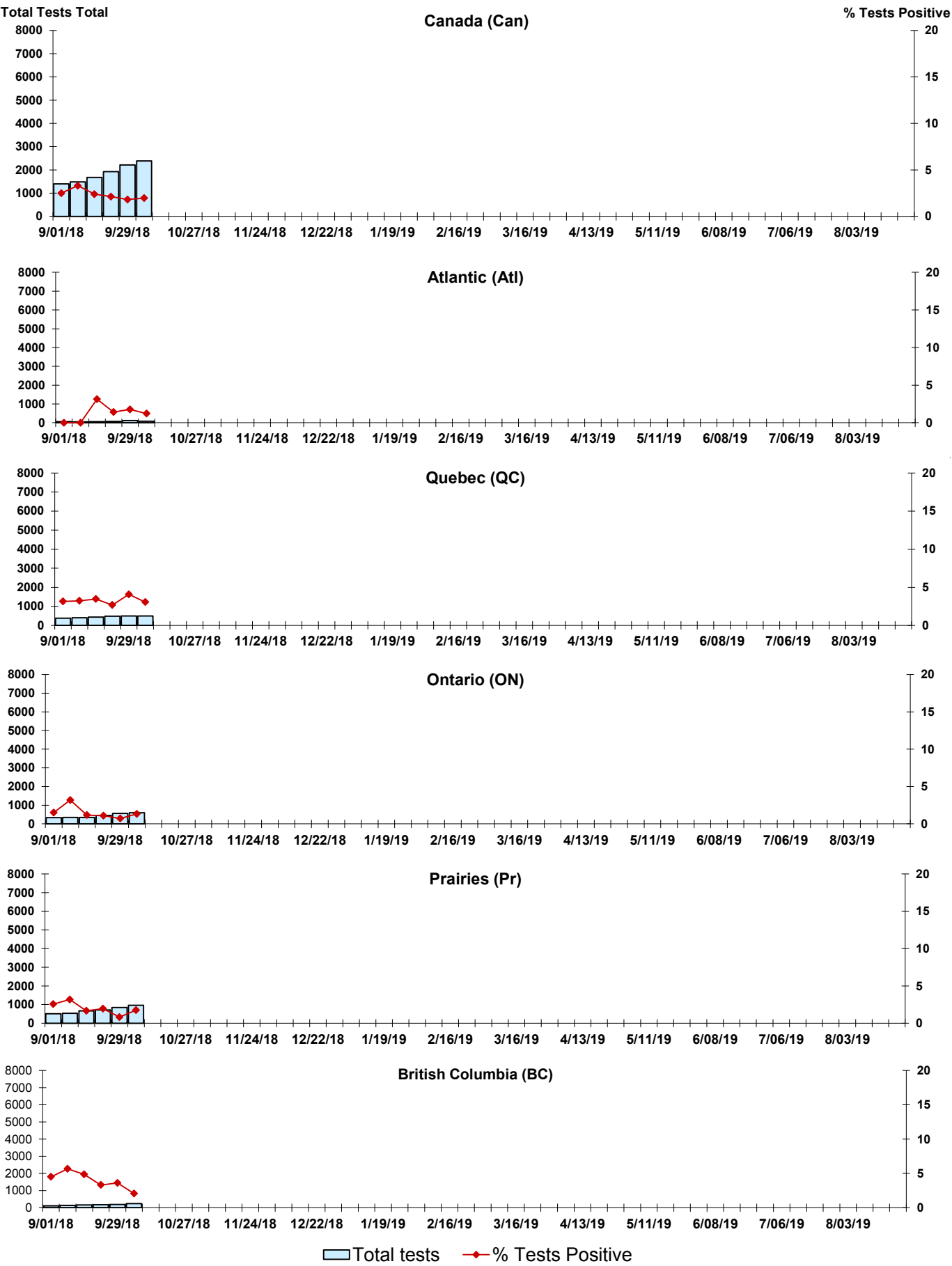


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

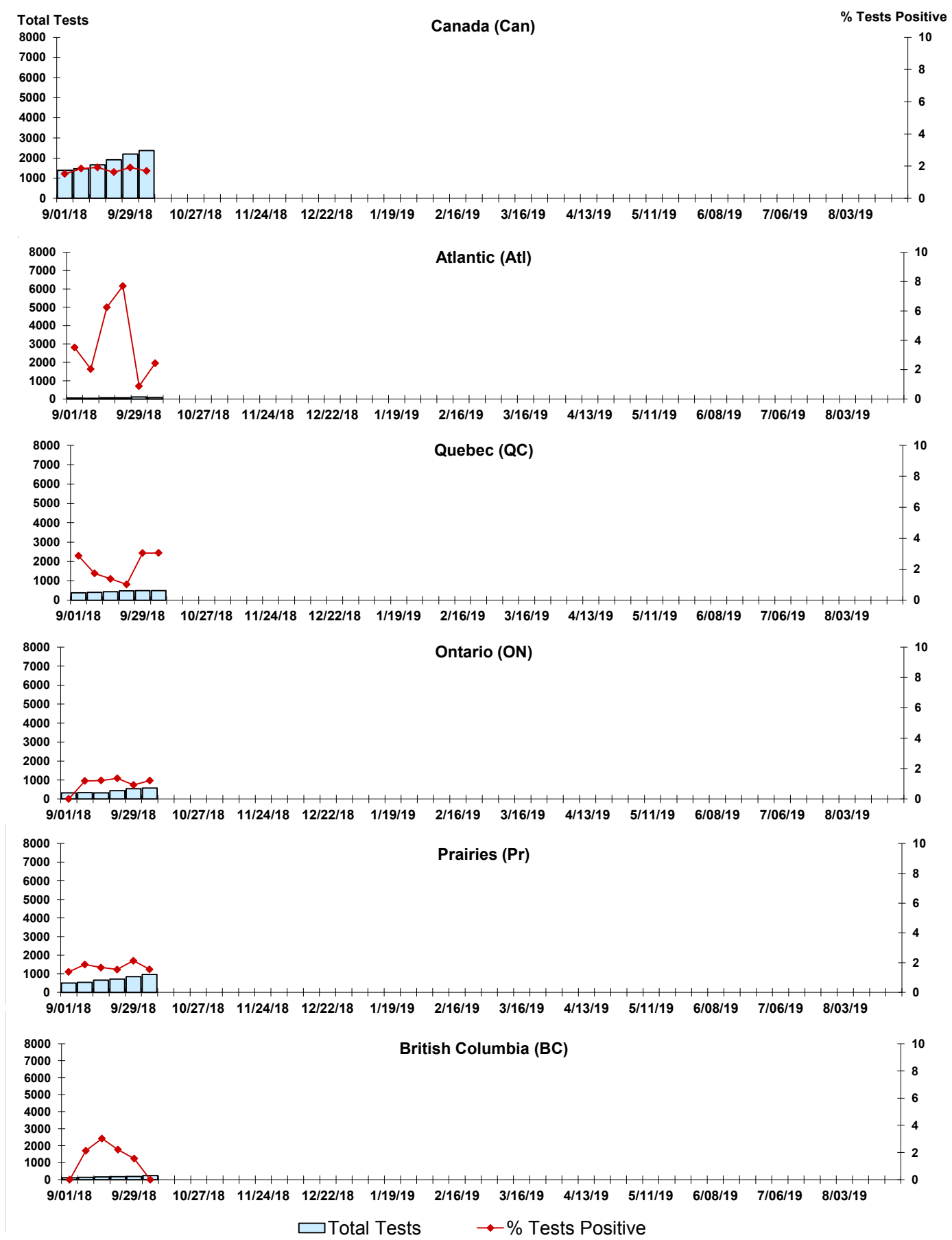


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

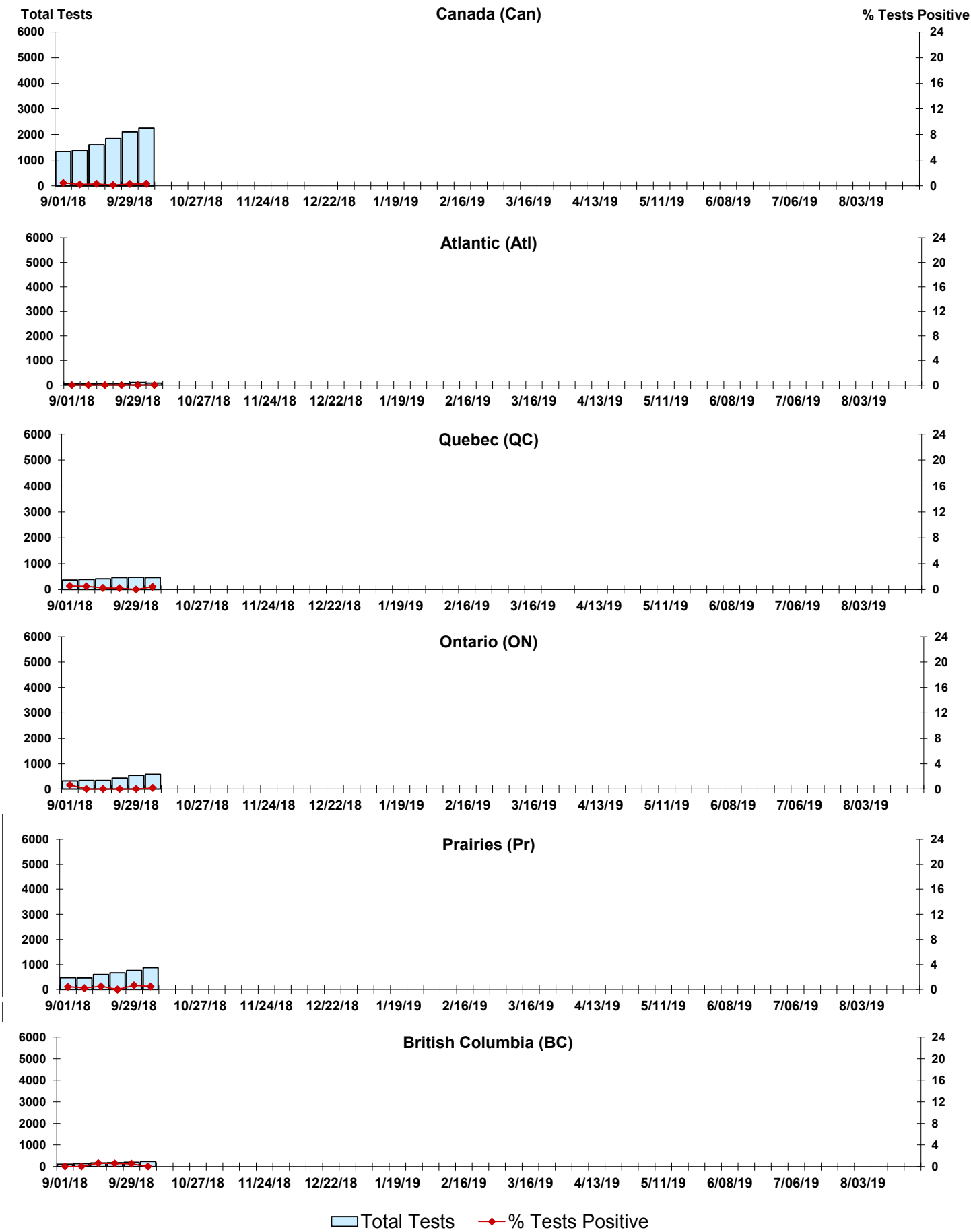


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

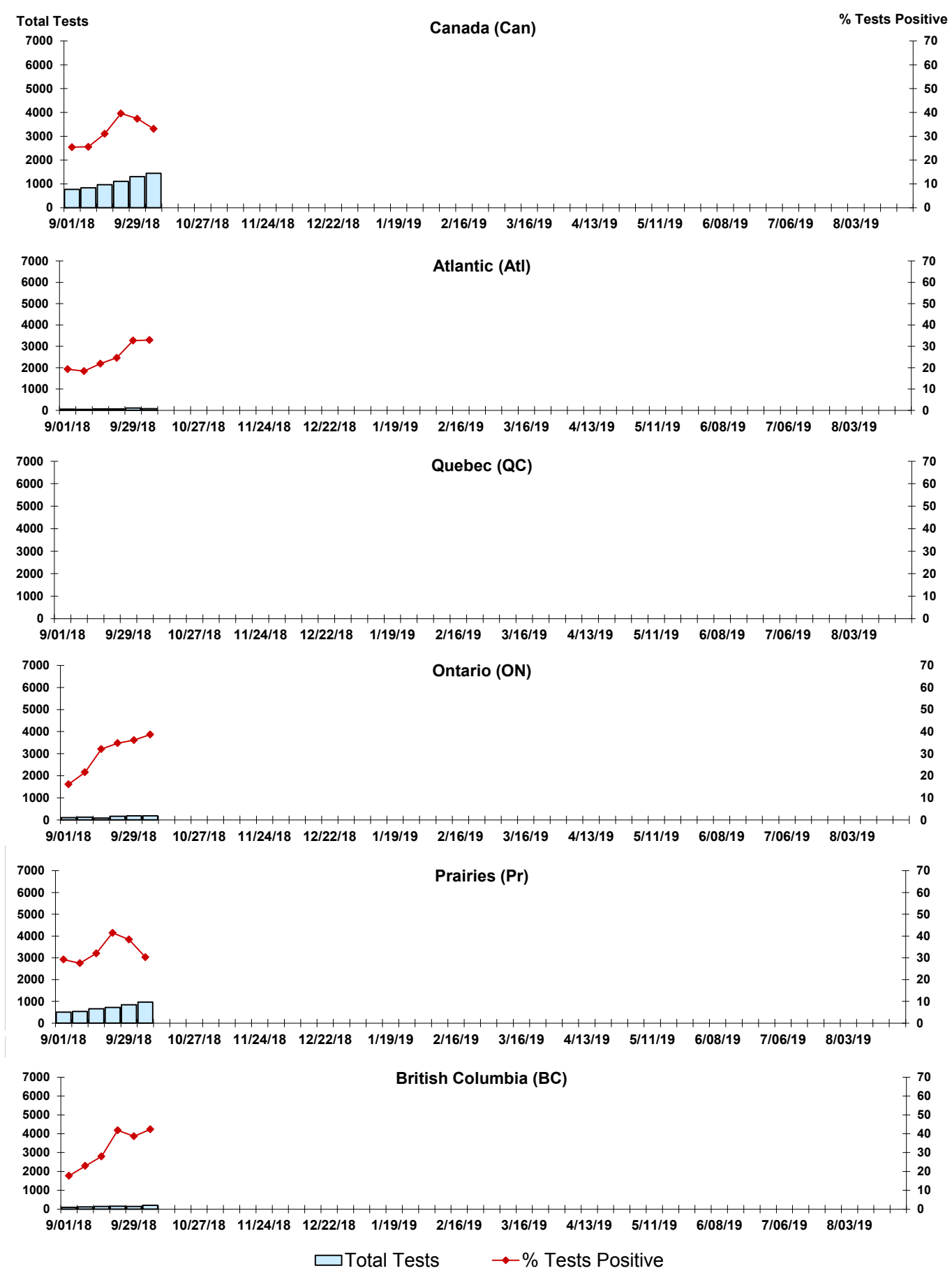
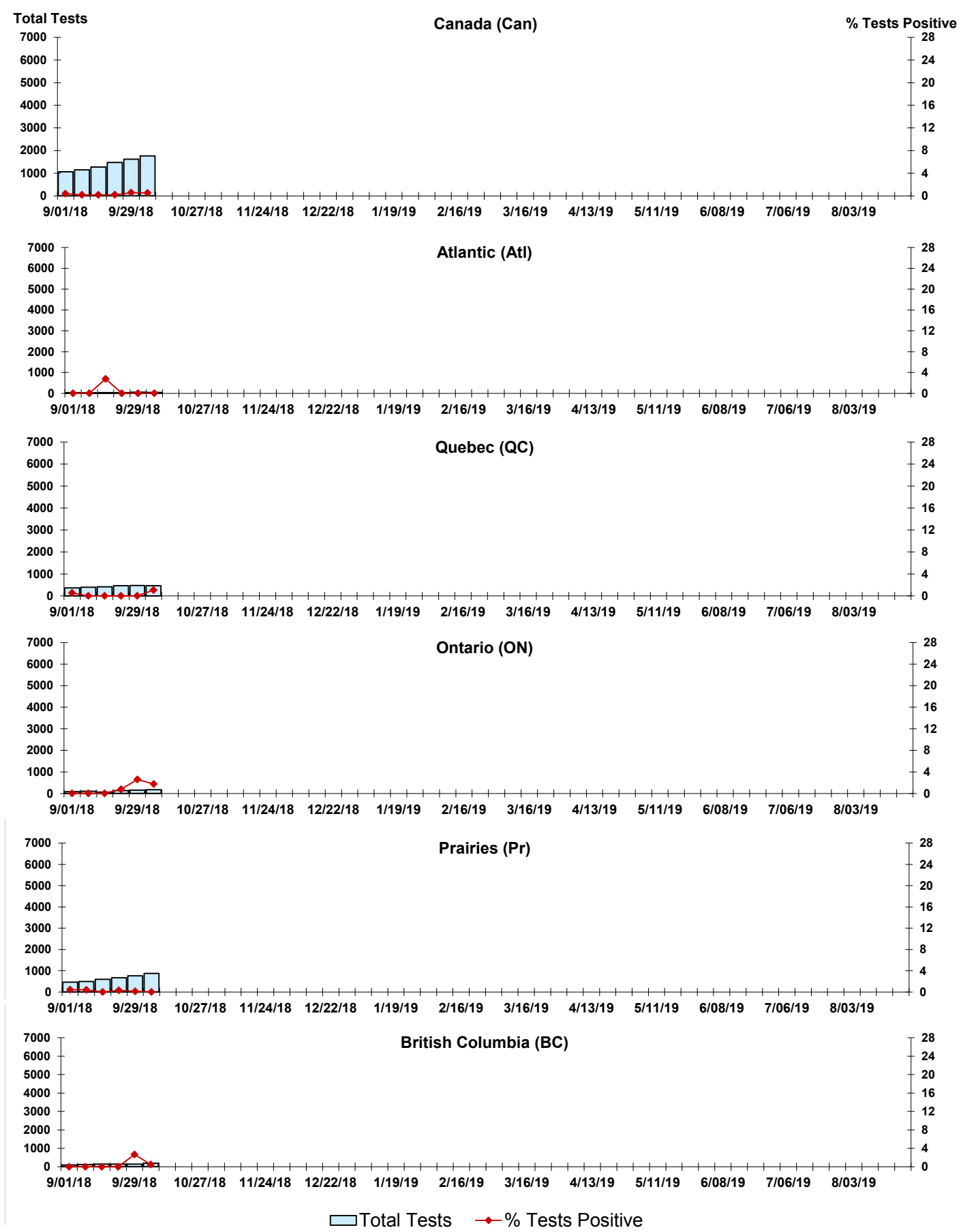


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.