

Respiratory Virus Report, Week 42 - ending October 17, 2020

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.

In this Respiratory Virus Report, the number of detections of coronavirus reflects only seasonal human coronaviruses, not the novel pandemic coronavirus (SARS-CoV2) that causes COVID-19. For information on COVID-19, see the [Coronavirus disease \(COVID-19\): Outbreak](#)

Table 1: Respiratory Virus Detections/Isolations for the week ending October 17, 2020 (Reporting Week 202042)

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	176	0	0	0	0	0	176	0	176	0	0	0	0	0	176	1	176	0	176	39	N.A.	N.A.
Prince Edward Island	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	8	3	8	0
Nova Scotia	27	0	0	0	0	0	27	0	24	0	0	0	0	0	24	0	24	0	24	5	24	0
New Brunswick	43	0	0	0	0	0	43	0	18	0	0	0	0	0	18	0	18	0	18	3	0	0
Atlantic	254	0	0	0	0	0	254	0	226	0	0	0	0	0	226	1	226	0	226	50	32	0
Région Nord-Est	50	0	0	0	0	1	41	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	22	0	0	0	0	0	27	0	18	0	0	0	0	0	18	1	18	0	N.A.	N.A.	18	0
Centre-du-Québec	7	0	0	0	0	0	7	0	3	0	0	0	0	0	3	0	3	0	N.A.	N.A.	3	0
Montréal-Laval	123	0	0	0	0	0	122	0	91	0	0	0	0	0	91	7	91	0	N.A.	N.A.	91	0
Ouest du Québec	19	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	221	0	0	0	0	1	215	0	112	0	0	0	0	0	112	8	112	0	N.A.	N.A.	112	0
P.H.O.L. - Ottawa	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	13	1	13	0
CHEO - Ottawa	121	0	0	0	0	0	121	0	27	0	0	0	0	0	27	1	27	0	27	5	27	0
P.H.O.L. - Kingston	40	0	0	0	0	0	40	0	40	0	0	0	0	0	40	0	39	0	40	11	39	0
UHN / Mount Sinai Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - Toronto	194	0	0	0	0	0	194	0	194	0	0	0	0	0	194	1	194	0	194	16	194	0
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunnybrook & Women's College HSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - Sault Ste. Marie	8	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	7	1	7	0
P.H.O.L. - Timmins	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	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
P.H.O.L. - London	60	0	0	0	0	0	60	0	60	0	0	0	0	2	60	0	60	0	60	10	60	0
P.H.O.L. - Orillia	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	6	0	6	0
P.H.O.L. - Thunder Bay	11	0	0	0	0	0	11	0	11	0	0	0	0	0	11	0	11	0	11	0	11	0
P.H.O.L. - Sudbury	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	8	2	8	0
P.H.O.L. - Hamilton	34	0	0	0	0	0	33	0	33	0	0	0	0	0	33	0	33	0	33	4	33	0
P.H.O.L. - Peterborough	31	0	0	0	0	0	11	0	11	0	0	0	0	0	11	0	11	0	11	2	11	0
St. Joseph's - Hamilton	136	0	0	0	0	0	136	0	136	0	0	0	0	0	136	0	136	0	136	14	0	0
Province of Ontario	663	0	0	0	0	0	641	0	547	0	0	0	0	2	547	2	546	0	547	66	410	0
Province of Manitoba	573	0	0	0	0	0	573	5	67	0	0	0	0	0	67	0	63	0	67	5	63	0
Province of Saskatchewan	48	0	0	0	0	0	48	0	38	0	0	0	0	0	38	0	38	0	38	1	38	0
Province of Alberta	2876	0	0	0	0	0	2876	0	2876	0	0	0	0	0	2876	6	2876	0	2876	332	2876	0
Prairies	3497	0	0	0	0	0	3497	5	2981	0	0	0	0	0	2981	6	2977	0	2981	338	2977	0
British Columbia	1021	0	0	0	0	0	1021	0	210	0	0	0	1	0	210	1	210	3	190	39	190	0
Yukon	147	0	0	0	0	0	147	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	1	5	0
Nunavut	37	0	0	0	0	0	37	0	37	0	0	0	0	0	37	0	37	0	37	9	2	0
Territories	189	0	0	0	0	0	189	0	42	0	0	0	0	0	42	0	42	0	42	10	7	0
CANADA	5845	0	0	0	0	1	5817	5	4118	0	0	0	1	2	4118	18	4113	3	3986	503	3728	0

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, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Victoria Coastal Health, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

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

For BC, only data from subtyped influenza A specimens are included in the weekly number of influenza detections and so the sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

Table 2: Respiratory Virus Detections/Isolations for the period August 23, 2020 - October 17, 2020 (Reporting Weeks 202035-202042)

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	2629	0	0	0	0	0	2629	5	2629	0	0	0	0	0	2629	11	2629	0	2629	1022	N.A.	N.A.
Prince Edward Island	23	0	0	0	0	0	23	0	25	0	0	0	0	0	25	0	25	0	25	8	25	0
Nova Scotia	115	0	0	0	0	0	115	0	105	0	0	0	0	0	105	0	105	0	105	20	105	0
New Brunswick	182	0	0	0	0	0	182	0	116	0	0	0	0	0	107	3	107	0	107	16	62	0
Atlantic	2949	0	0	0	0	0	2949	5	2875	0	0	0	0	0	2866	14	2866	0	2866	1066	192	0
Région Nord-Est	171	0	0	0	0	1	144	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	143	0	0	0	0	0	169	0	122	0	0	0	0	0	124	5	119	0	N.A.	N.A.	119	0
Centre-du-Québec	63	0	0	0	0	0	66	0	43	0	0	0	0	0	41	1	43	0	N.A.	N.A.	43	0
Montréal-Laval	1022	0	0	0	0	0	1020	1	720	0	0	0	0	0	774	23	713	0	N.A.	N.A.	713	2
Ouest du Québec	117	0	0	0	0	0	111	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1516	0	0	0	0	1	1510	1	885	0	0	0	0	0	939	29	875	0	N.A.	N.A.	875	2
P.H.O.L. - Ottawa	81	0	0	0	0	0	81	0	81	0	0	0	0	0	81	0	81	0	81	3	81	0
CHEO - Ottawa	881	0	0	1	1	1	478	3	171	0	0	0	0	0	171	2	171	0	171	24	171	0
P.H.O.L. - Kingston	190	0	0	0	0	0	190	0	190	0	0	0	0	0	190	2	187	0	190	73	187	0
UHN / Mount Sinai Hospital	23	0	0	0	0	0	23	0	96	0	1	1	1	0	0	0	56	2	0	0	40	0
P.H.O.L. - Toronto	1112	0	0	0	0	0	1112	1	1112	0	0	0	0	1	1113	4	1112	0	1112	55	1112	2
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunnybrook & Women's College HSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - Sault Ste. Marie	22	0	0	0	0	0	19	0	19	0	0	0	0	0	19	0	19	0	19	1	19	0
P.H.O.L. - Timmins	37	0	0	0	0	0	37	0	37	0	0	0	0	0	37	0	37	0	37	8	37	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
P.H.O.L. - London	254	0	0	0	0	0	254	0	254	0	0	0	0	2	254	0	250	0	254	25	250	0
P.H.O.L. - Orillia	45	0	0	0	0	0	43	0	43	0	0	0	0	0	43	0	43	0	43	0	43	0
P.H.O.L. - Thunder Bay	210	0	0	0	0	0	210	0	210	0	0	0	0	0	210	1	210	0	210	105	210	0
P.H.O.L. - Sudbury	64	0	0	0	0	0	64	0	64	0	0	0	0	0	64	0	64	0	64	5	64	0
P.H.O.L. - Hamilton	247	0	0	0	0	0	238	0	238	0	0	0	0	0	238	0	238	0	238	30	238	0
P.H.O.L. - Peterborough	120	0	0	0	0	0	97	0	97	0	0	0	0	0	97	0	97	0	97	7	97	0
St. Joseph's - Hamilton	467	0	0	0	0	0	467	0	467	0	0	0	0	0	467	0	467	0	467	60	0	0
Province of Ontario	3753	0	0	1	1	1	3313	4	3079	0	1	1	1	3	2984	9	3032	2	2983	396	2549	2
Manitoba	4531	0	0	0	0	0	4531	15	626	0	1	0	0	0	626	7	573	0	626	58	573	1
Province of Saskatchewan	504	0	0	0	0	0	504	1	432	0	0	0	0	0	432	3	432	0	432	64	432	0
Province of Alberta	23117	0	0	1	1	0	23109	0	23109	1	10	0	2	0	23109	39	23109	6	23109	2543	23109	6
Prairies	28152	0	0	1	1	0	28144	16	24167	1	11	0	2	0	24167	49	24114	6	24167	2665	24114	7
British Columbia	7811	0	0	0	0	0	7808	3	1508	0	0	0	1	0	1502	14	1508	12	1393	255	1392	0
Yukon	1565	0	0	0	0	0	1394	2	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	303	0	0	0	0	0	303	0	303	0	0	0	1	0	303	2	303	0	303	116	303	0
Nunavut	774	0	0	0	0	0	774	0	774	3	1	0	0	0	774	11	774	4	774	199	135	0
Territories	2642	0	0	0	0	0	2471	2	1077	3	1	0	1	0	1077	13	1077	4	1077	315	438	0
CANADA	46823	0	0	2	2	2	46195	31	33591	4	13	1	5	3	33535	128	33472	24	32486	4697	29560	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, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Victoria Coastal Health, BCCDC P

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.

For BC, only data from subtyped influenza A specimens are included in the weekly number of influenza detections and so the sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2020-21

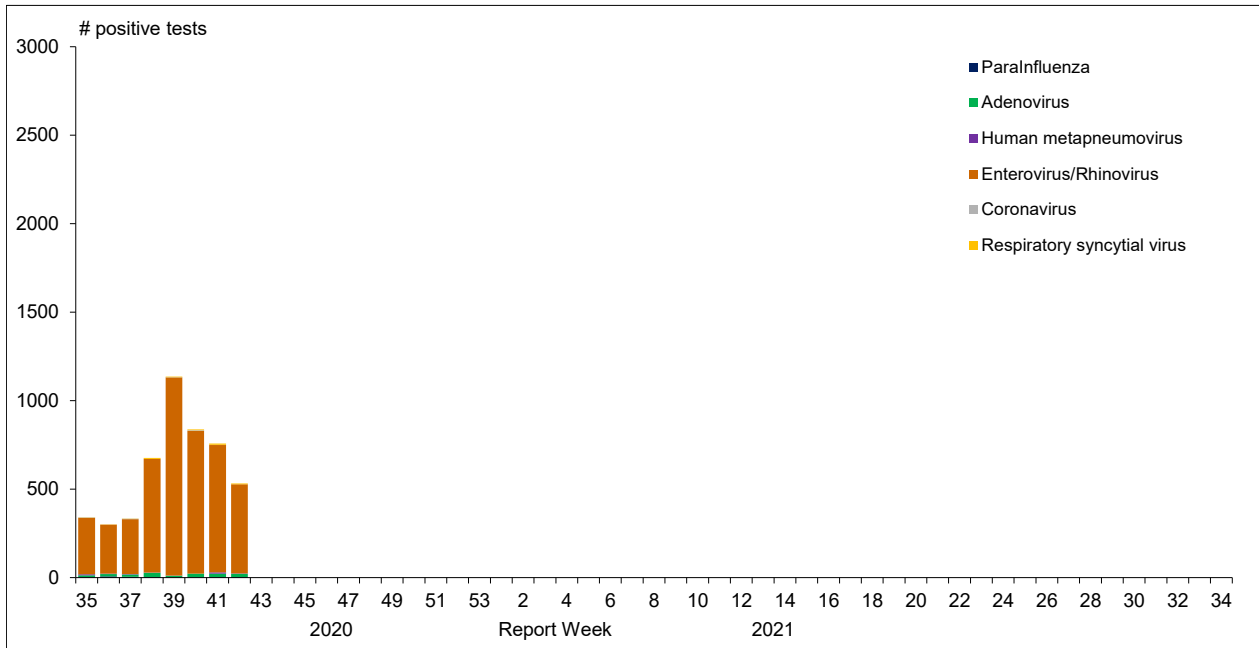


Figure 2 : Positive Influenza Tests (%) in Canada by Region by Week of Report

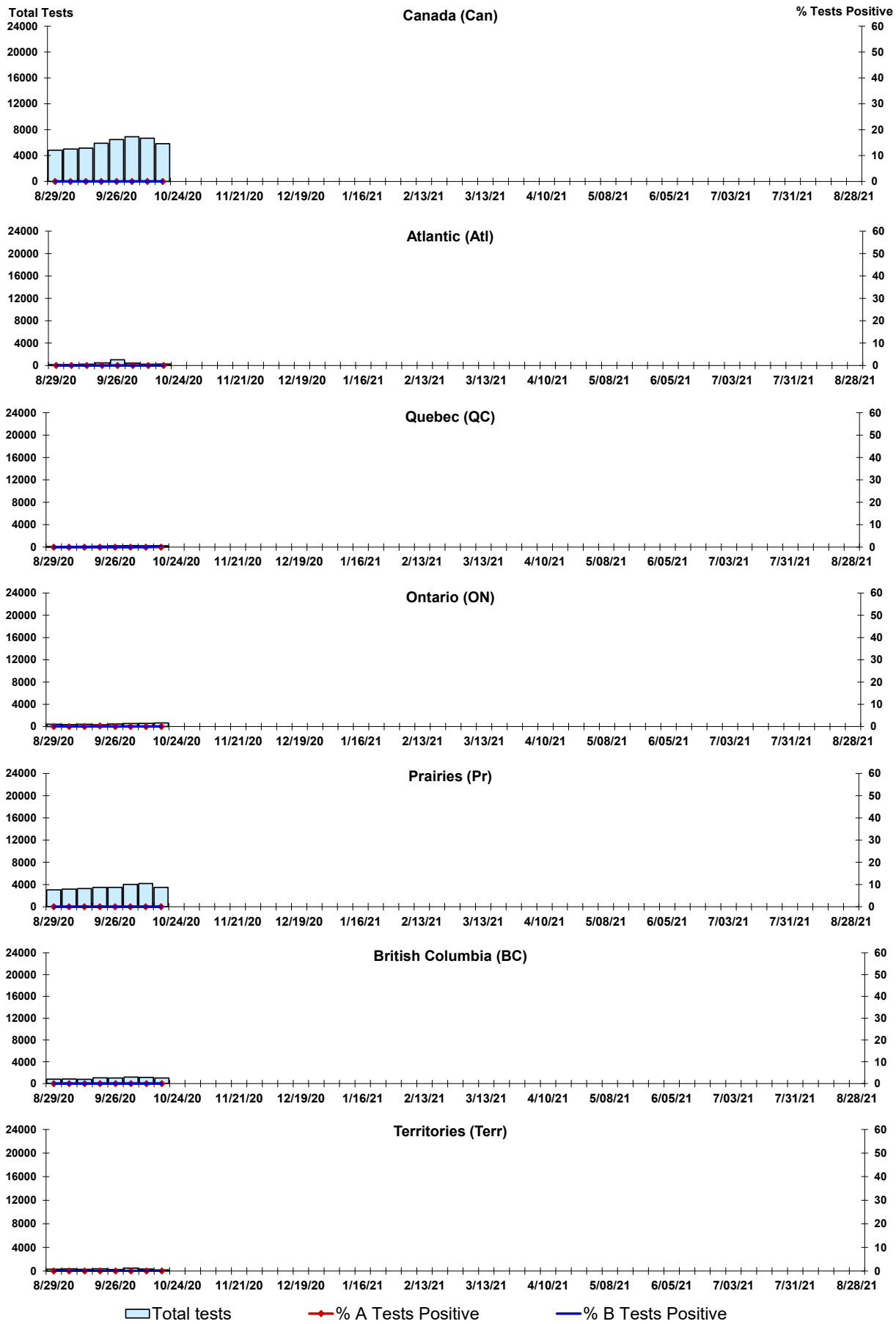


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

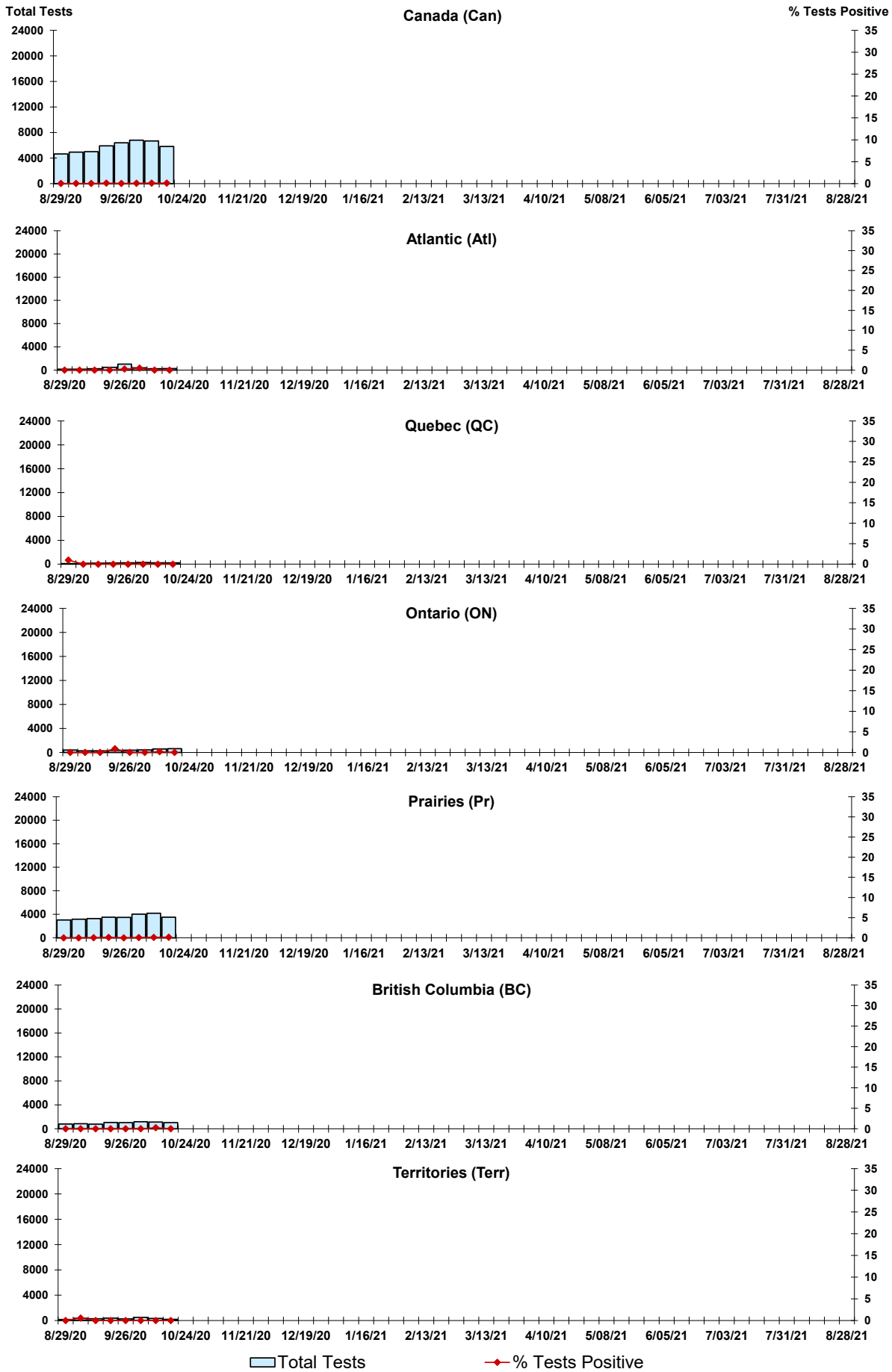


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

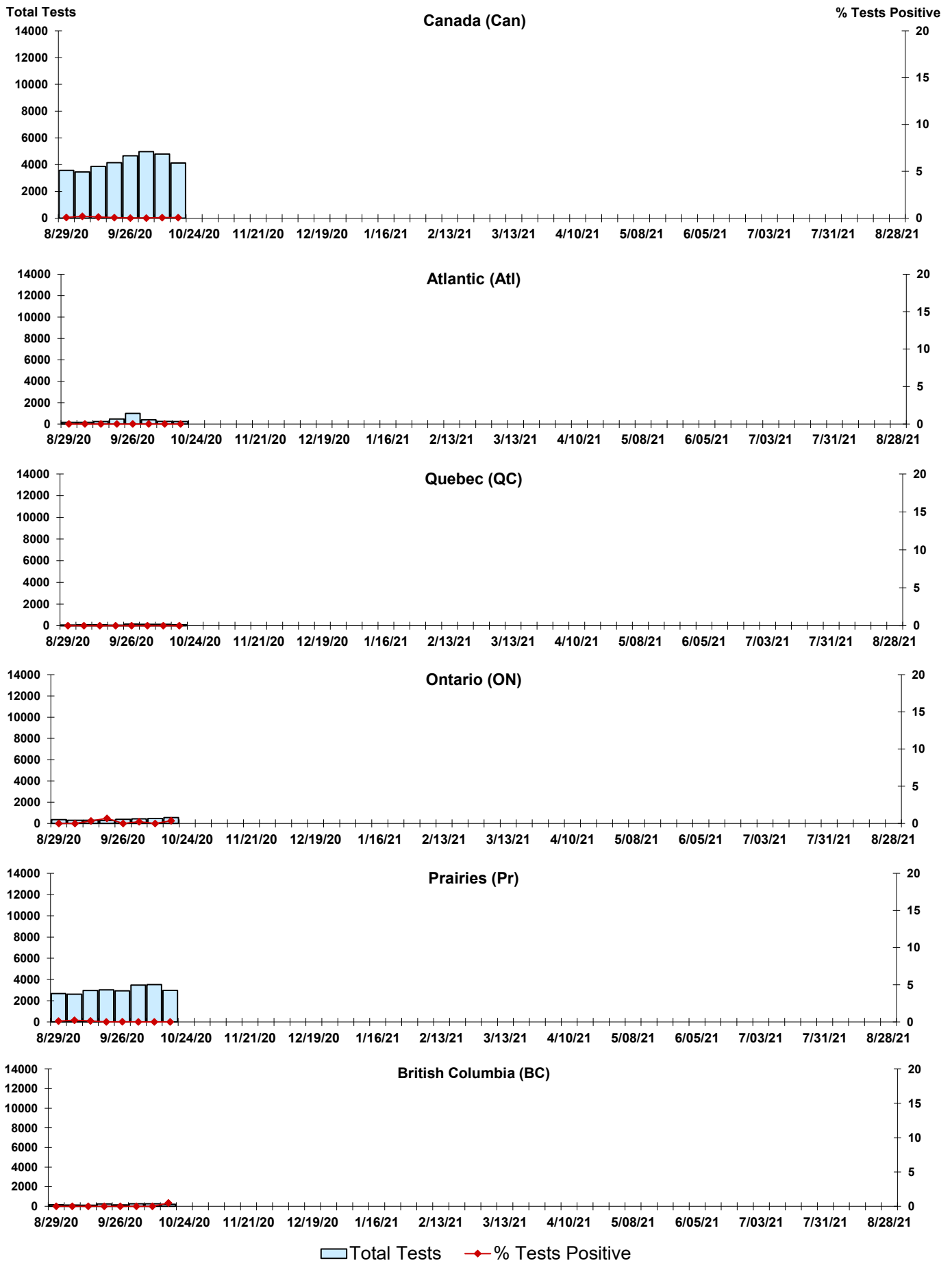


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

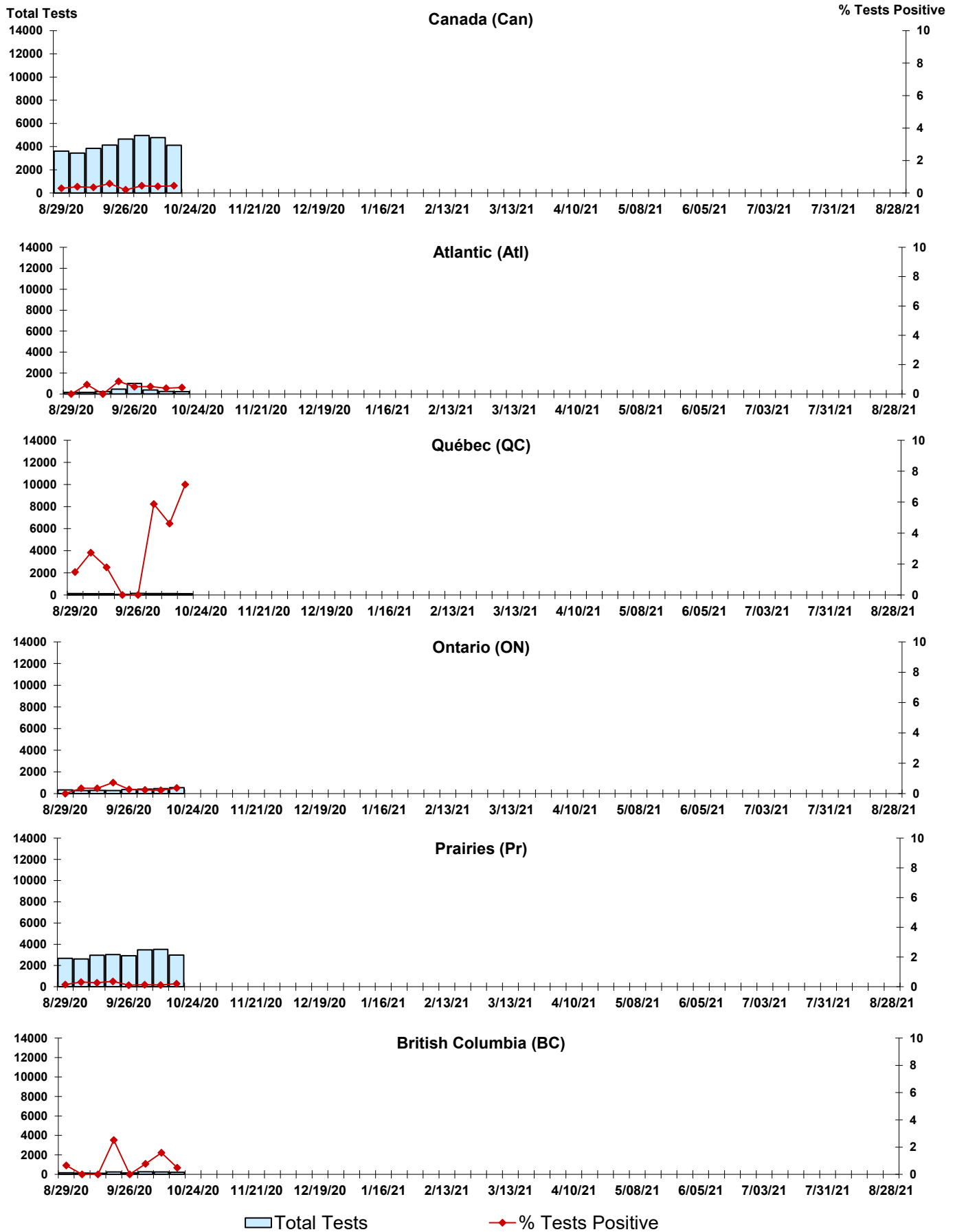
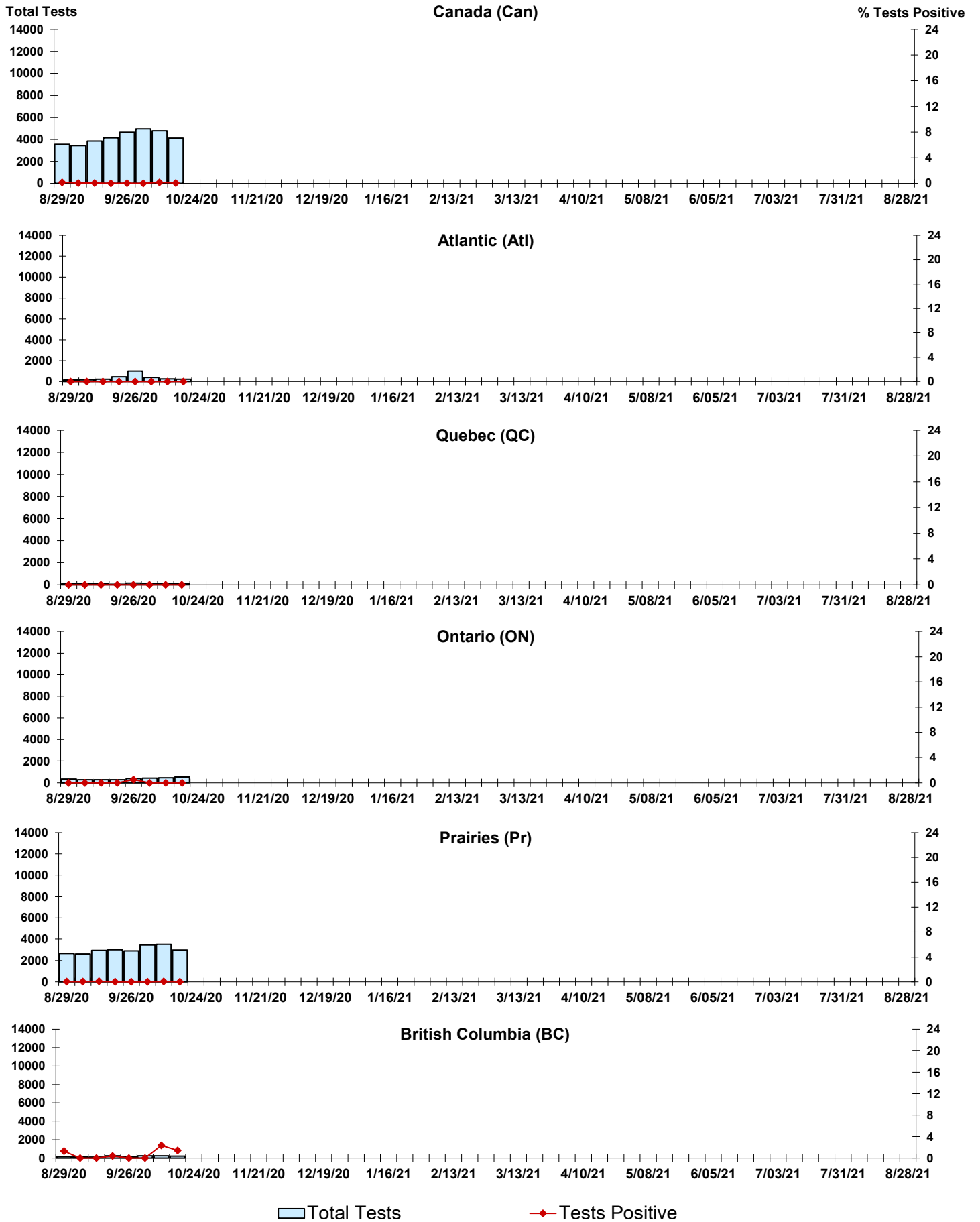


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



Legend: █ Total Tests ◆ Tests Positive

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

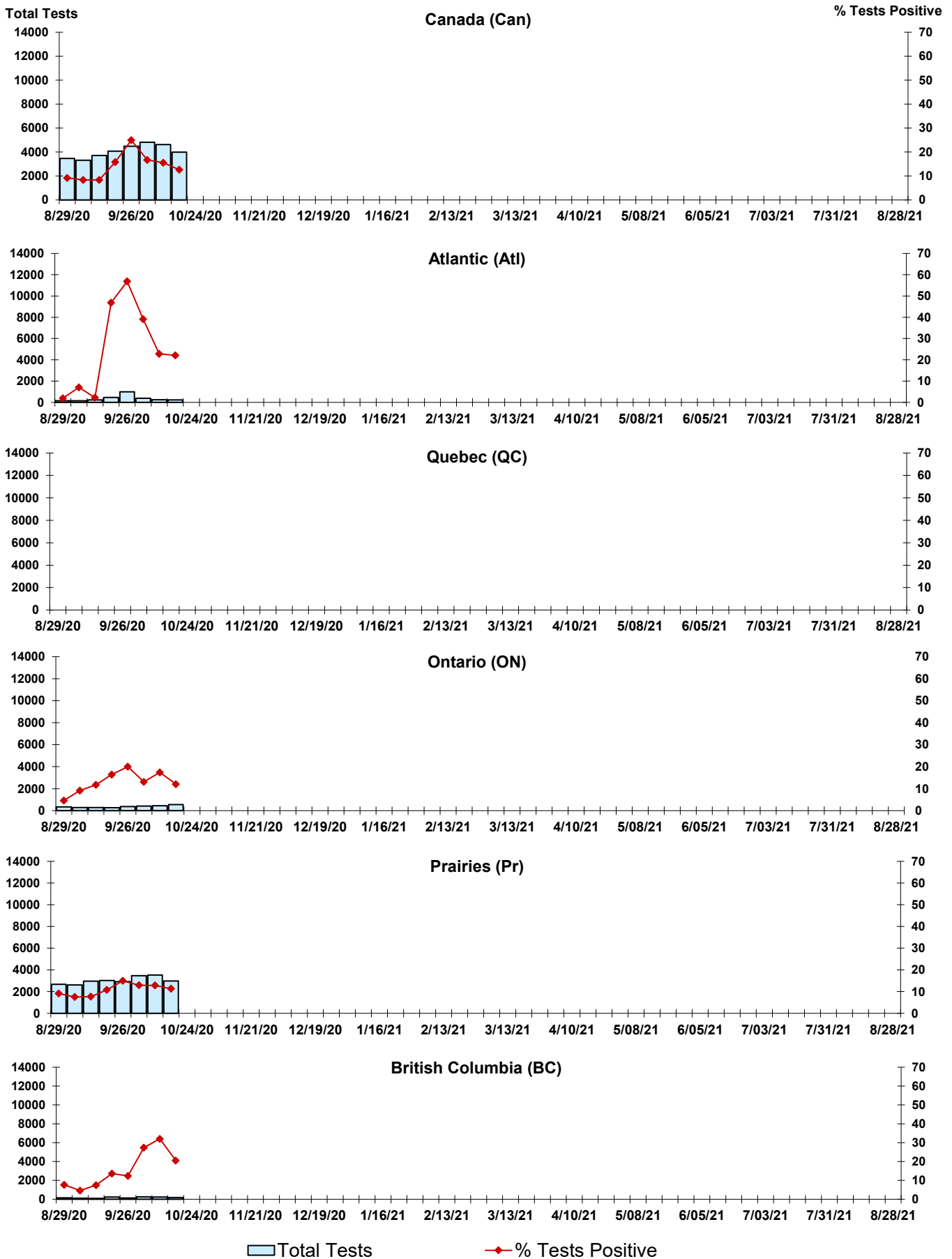
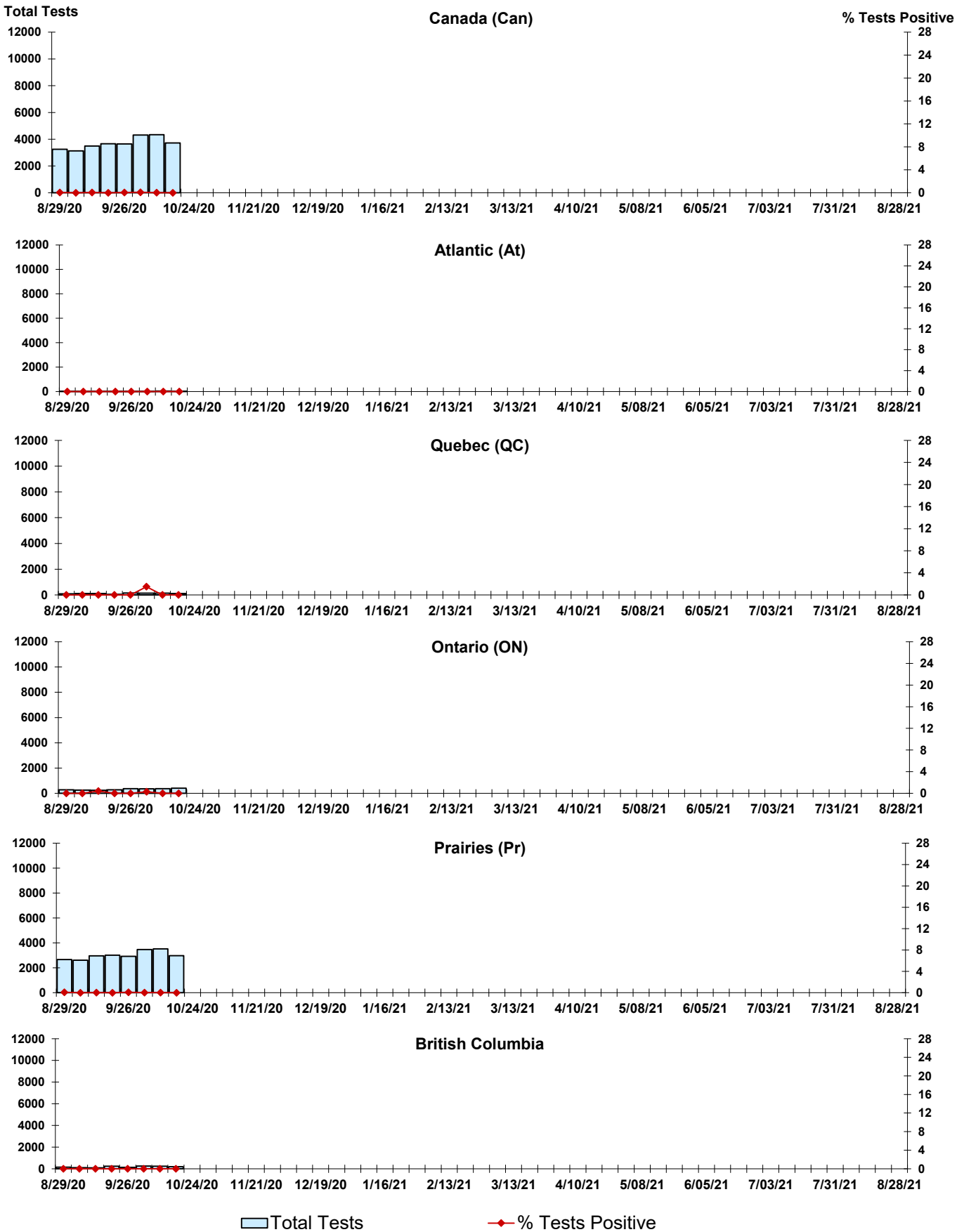


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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