

Respiratory Virus Report, Week 43 - ending October 24, 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 24, 2020 (Reporting Week 202043)

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	279	0	0	0	0	0	279	0	279	0	0	0	0	0	279	1	279	0	279	67	N.A.	N.A.
Prince Edward Island	7	0	0	0	0	0	7	0	5	0	0	0	0	0	5	0	5	0	5	3	5	0
Nova Scotia	28	0	0	0	0	0	28	0	21	0	0	0	0	0	21	0	21	0	21	4	21	0
New Brunswick	32	0	0	0	0	0	32	0	25	0	0	0	0	0	25	0	25	0	25	0	25	0
Atlantic	346	0	0	0	0	0	346	0	330	0	0	0	0	0	330	1	330	0	330	74	51	0
Région Nord-Est	36	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	17	0	0	0	0	0	21	0	17	0	0	0	0	0	17	0	17	0	N.A.	N.A.	17	0
Centre-du-Québec	16	0	0	0	0	0	16	0	7	0	0	0	0	0	7	0	7	0	N.A.	N.A.	7	0
Montréal-Laval	137	0	0	0	0	1	136	0	113	0	0	0	0	0	113	7	113	0	N.A.	N.A.	113	0
Ouest du Québec	26	0	0	0	0	0	23	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	232	0	0	0	0	1	225	0	137	0	0	0	0	0	137	7	137	0	N.A.	N.A.	137	0
P.H.O.L. - Ottawa	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	6	1	6	0
CHEO - Ottawa	132	0	0	0	0	0	132	1	11	0	0	0	0	0	11	0	11	0	11	0	11	0
P.H.O.L. - Kingston	18	0	0	0	0	0	18	0	18	0	0	0	0	0	18	0	18	0	18	1	18	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	159	0	0	0	0	0	159	0	159	0	0	0	0	1	159	1	158	0	159	12	158	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	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	5	0	5	0
P.H.O.L. - Timmins	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	3	1	3	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	80	0	0	0	0	0	76	0	76	0	0	0	0	0	76	0	76	0	76	12	76	0
P.H.O.L. - Orillia	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	13	5	13	0
P.H.O.L. - Thunder Bay	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. - Sudbury	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	13	2	13	0
P.H.O.L. - Hamilton	46	0	0	0	0	0	46	0	46	0	0	0	0	0	46	0	46	0	46	7	46	0
P.H.O.L. - Peterborough	24	0	0	1	1	0	14	0	14	0	0	0	0	0	14	0	14	0	14	1	14	0
St. Joseph's - Hamilton	118	0	0	0	0	0	118	0	118	0	0	0	0	0	118	1	118	0	118	28	0	0
Province of Ontario	625	0	0	1	1	0	611	1	490	0	0	0	0	1	490	2	489	0	490	72	371	0
Province of Manitoba	704	0	0	0	0	0	704	5	89	0	0	0	0	0	89	0	79	0	89	6	79	0
Province of Saskatchewan	52	0	0	0	0	0	52	0	53	0	0	0	0	0	53	1	53	0	53	14	53	0
Province of Alberta	3510	0	0	0	0	0	3510	0	3510	0	1	1	0	0	3510	7	3510	0	3510	350	3510	0
Prairies	4266	0	0	0	0	0	4266	5	3652	0	1	1	0	0	3652	8	3642	0	3652	370	3642	0
British Columbia	1963	0	0	0	0	0	1963	0	438	0	0	0	0	0	438	1	438	1	438	94	438	0
Yukon	176	0	0	0	0	0	176	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	27	0	0	0	0	0	27	0	27	0	0	0	0	0	27	0	27	0	27	10	27	0
Nunavut	80	0	0	0	0	0	80	0	80	0	0	0	0	0	80	0	80	0	80	27	5	0
Territories	283	0	0	0	0	0	283	0	107	0	0	0	0	0	107	0	107	0	107	37	32	0
CANADA	7715	0	0	1	1	1	7694	6	5154	0	1	1	0	1	5154	19	5143	1	5017	647	4671	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 24, 2020 (Reporting Weeks 202035-202043)

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	2908	0	0	0	0	0	2908	5	2908	0	0	0	0	0	2908	12	2908	0	2908	1089	N.A.	N.A.
Prince Edward Island	30	0	0	0	0	0	30	0	30	0	0	0	0	0	30	0	30	0	30	11	30	0
Nova Scotia	143	0	0	0	0	0	143	0	126	0	0	0	0	0	126	0	126	0	126	24	126	0
New Brunswick	214	0	0	0	0	0	214	0	141	0	0	0	0	0	132	3	132	0	132	16	87	0
Atlantic	3295	0	0	0	0	0	3295	5	3205	0	0	0	0	0	3196	15	3196	0	3196	1140	243	0
Région Nord-Est	207	0	0	0	0	1	173	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	160	0	0	0	0	0	190	0	139	0	0	0	0	0	141	5	136	0	N.A.	N.A.	136	0
Centre-du-Québec	79	0	0	0	0	0	82	0	50	0	0	0	0	0	48	1	50	0	N.A.	N.A.	50	0
Montréal-Laval	1159	0	0	0	0	1	1156	1	833	0	0	0	0	0	887	30	826	0	N.A.	N.A.	826	2
Ouest du Québec	143	0	0	0	0	0	134	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	1748	0	0	0	0	2	1735	1	1022	0	0	0	0	0	1076	36	1012	0	N.A.	N.A.	1012	2
P.H.O.L. - Ottawa	87	0	0	0	0	0	87	0	87	0	0	0	0	0	87	0	87	0	87	4	87	0
CHEO - Ottawa	761	0	0	1	1	1	358	3	135	0	0	0	0	0	135	0	135	0	135	14	135	0
P.H.O.L. - Kingston	208	0	0	0	0	0	208	0	208	0	0	0	0	0	208	2	205	0	208	74	205	0
UHN / Mount Sinai Hospital	40	0	0	0	0	0	40	0	113	0	1	1	1	0	0	0	73	2	0	0	40	0
P.H.O.L. - Toronto	1271	0	0	0	0	0	1271	1	1271	0	0	0	0	2	1272	5	1270	0	1271	67	1270	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	27	0	0	0	0	0	25	0	25	0	0	0	0	0	25	0	25	0	25	1	25	0
P.H.O.L. - Timmins	40	0	0	0	0	0	40	0	40	0	0	0	0	0	40	0	40	0	40	9	40	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	334	0	0	0	0	0	330	0	330	0	0	0	0	2	330	0	326	0	330	37	326	0
P.H.O.L. - Orillia	58	0	0	0	0	0	56	0	56	0	0	0	0	0	56	0	56	0	56	5	56	0
P.H.O.L. - Thunder Bay	218	0	0	0	0	0	218	0	218	0	0	0	0	0	218	1	218	0	218	107	218	0
P.H.O.L. - Sudbury	77	0	0	0	0	0	77	0	77	0	0	0	0	0	77	0	77	0	77	7	77	0
P.H.O.L. - Hamilton	293	0	0	0	0	0	284	0	284	0	0	0	0	0	284	0	284	0	284	37	284	0
P.H.O.L. - Peterborough	144	0	0	1	1	0	111	0	111	0	0	0	0	0	111	0	111	0	111	8	111	0
St. Joseph's - Hamilton	585	0	0	0	0	0	585	0	585	0	0	0	0	0	585	1	585	0	585	88	0	0
Province of Ontario	4143	0	0	2	2	1	3690	4	3540	0	1	1	1	4	3428	9	3492	2	3427	458	2874	2
Manitoba	5235	0	0	0	0	0	5235	20	715	0	1	0	0	0	715	7	652	0	715	64	652	1
Province of Saskatchewan	571	0	0	0	0	0	571	1	485	0	0	0	0	0	485	4	485	0	485	78	485	0
Province of Alberta	27312	0	0	1	1	0	27304	0	27304	1	11	1	2	0	27304	49	27304	6	27304	3020	27304	6
Prairies	33118	0	0	1	1	0	33110	21	28504	1	12	1	2	0	28504	60	28441	6	28504	3162	28441	7
British Columbia	11077	0	0	0	0	0	11077	3	2356	0	0	0	1	0	2356	15	2356	13	2356	349	2356	0
Yukon	1691	0	0	0	0	0	1741	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	364	0	0	0	0	0	364	0	364	0	0	0	1	0	364	3	364	0	364	134	364	0
Nunavut	860	0	0	0	0	0	860	0	860	3	1	0	0	0	860	11	860	0	860	229	146	0
Territories	2915	0	0	0	0	0	2965	2	1224	3	1	0	1	0	1224	14	1224	5	1224	363	510	0
CANADA	56296	0	0	3	3	3	55872	36	39851	4	14	2	5	4	39784	149	39721	26	38707	5472	35436	11

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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.

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

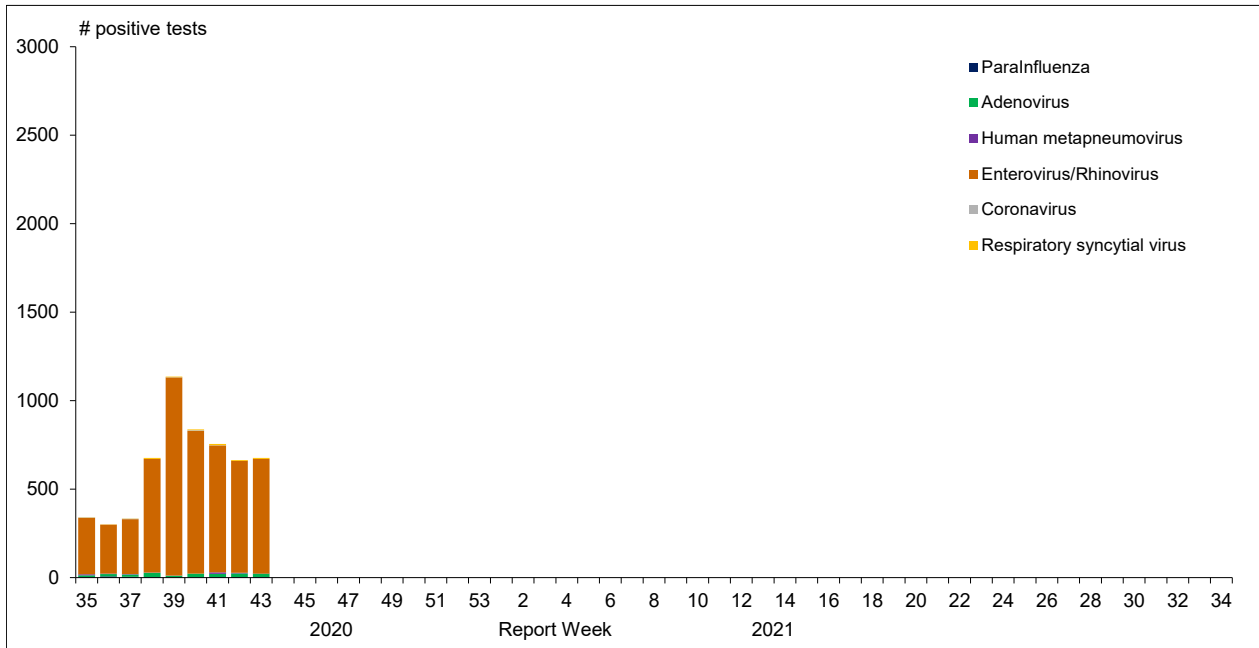


Figure 2 : Positive Influenza Tests (%) in Canada by Region by Week of Report

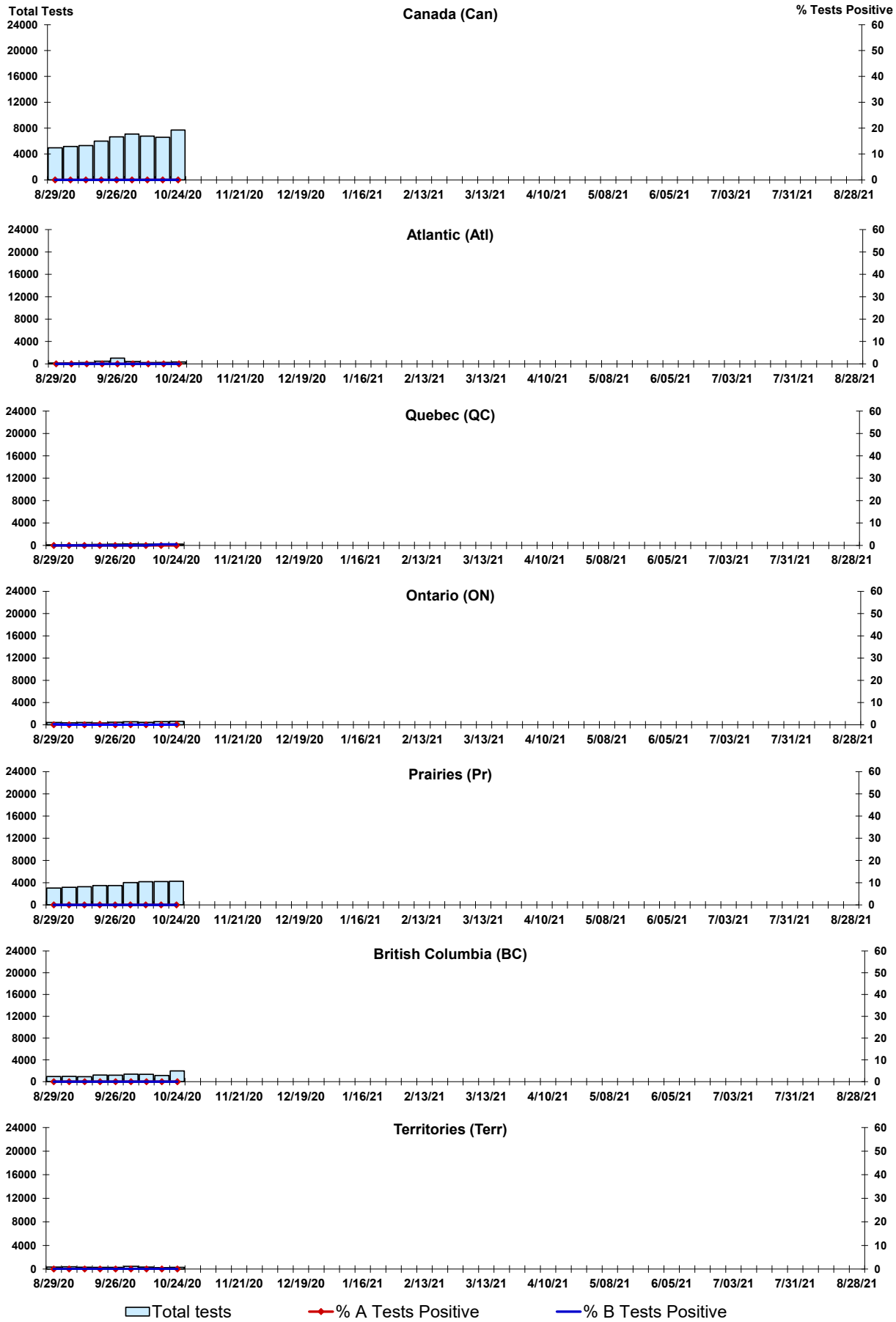


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

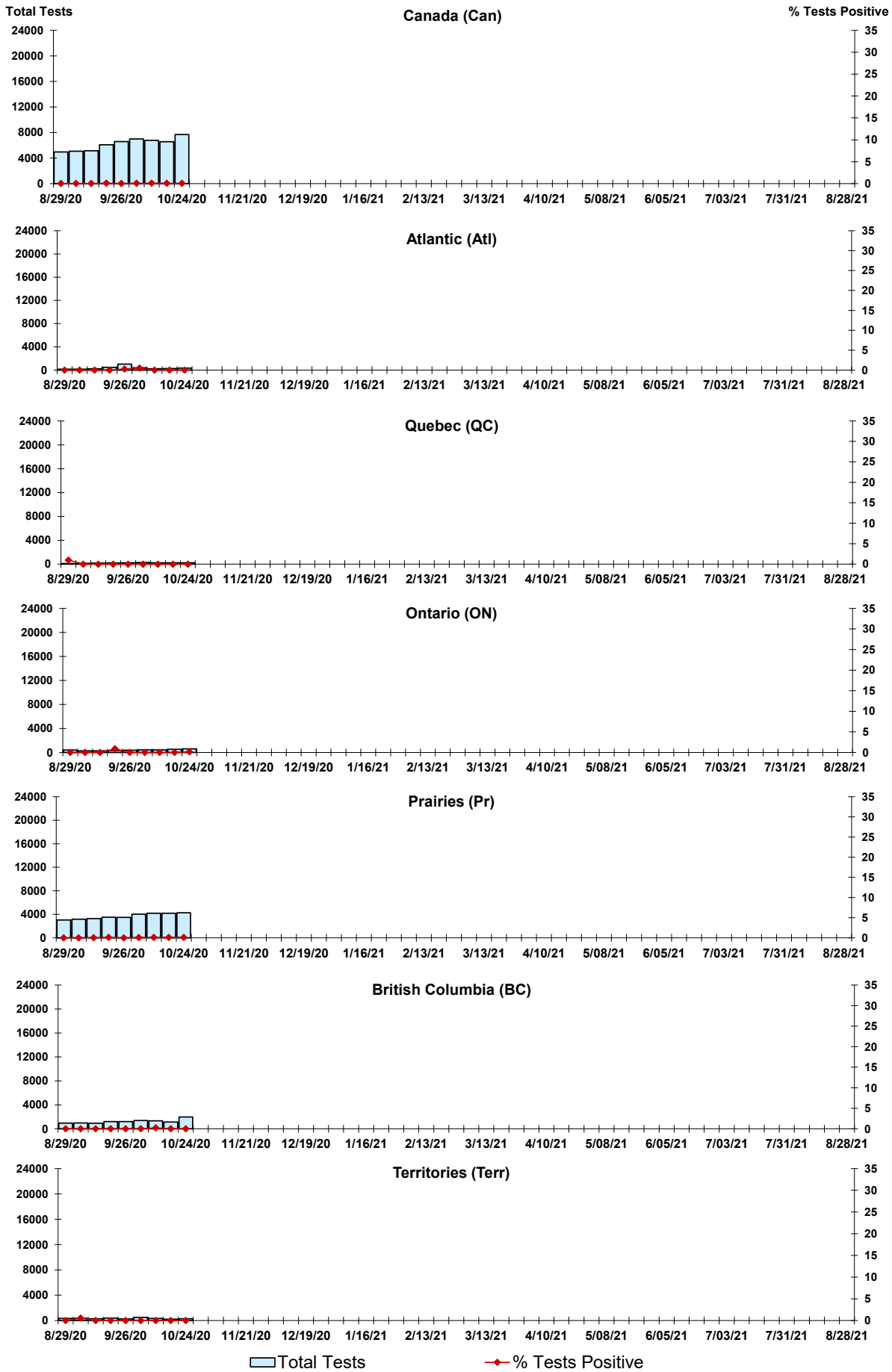
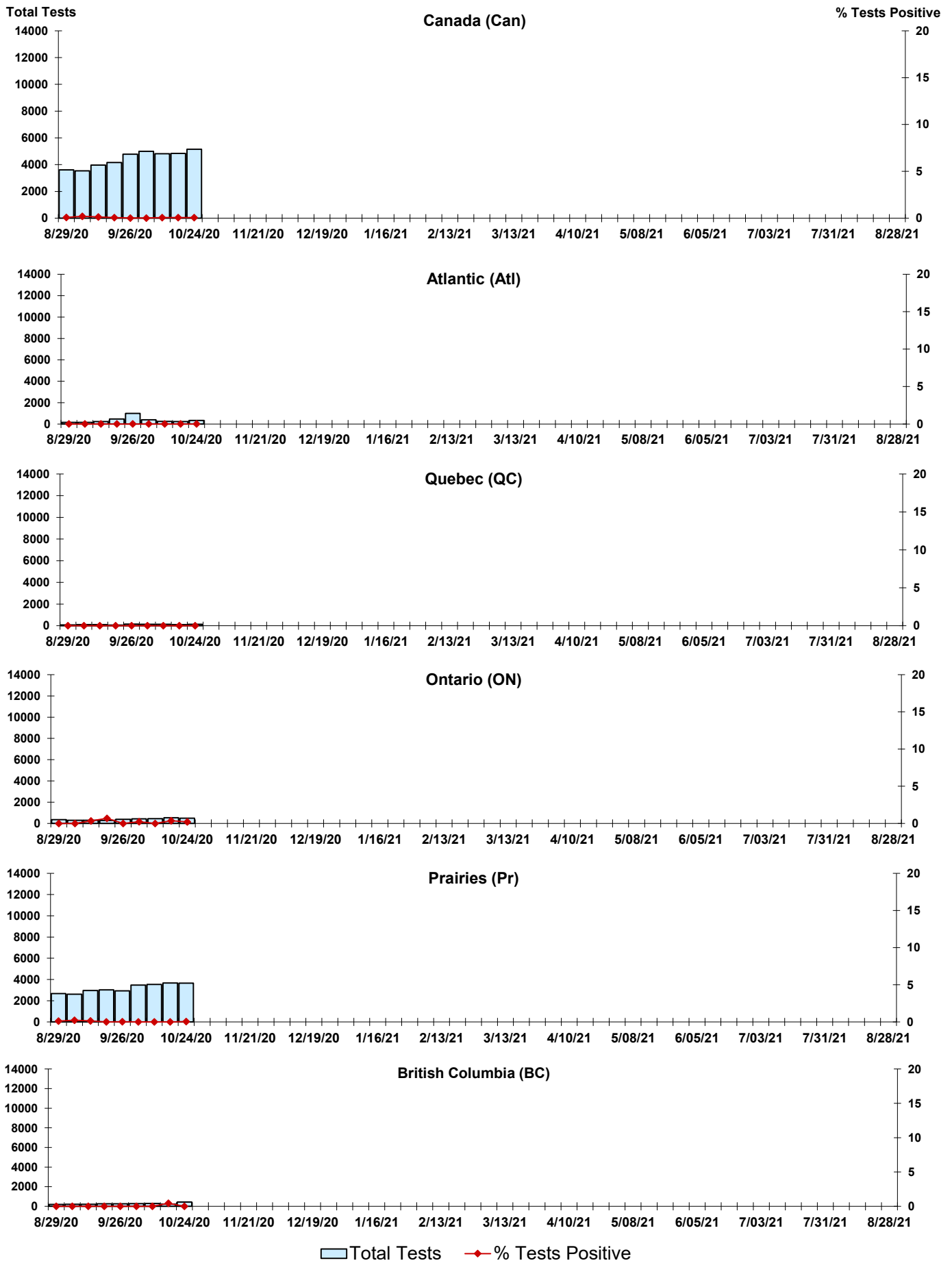


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report



Legend: Total Tests (light blue bar), % Tests Positive (red line with diamond)

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

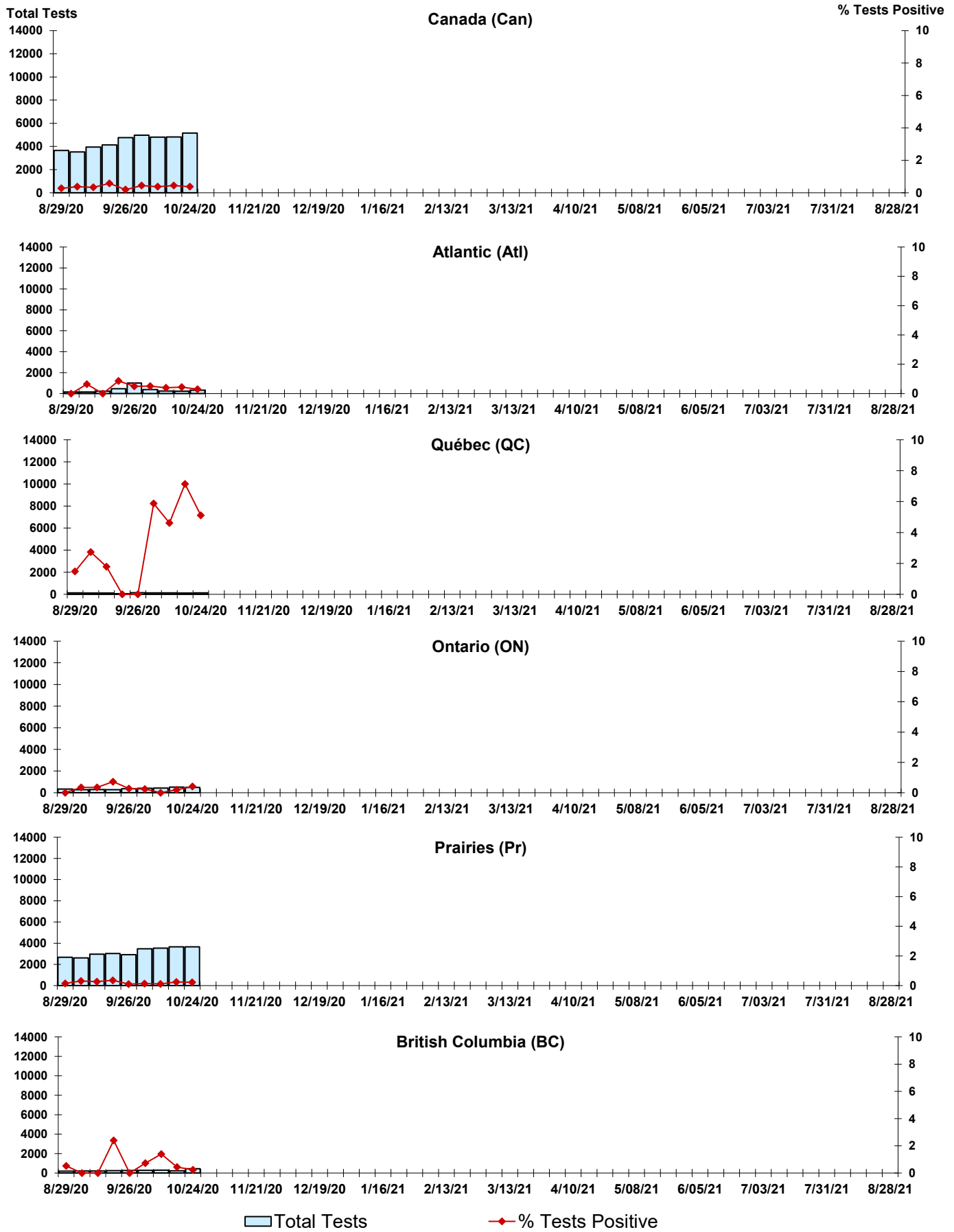
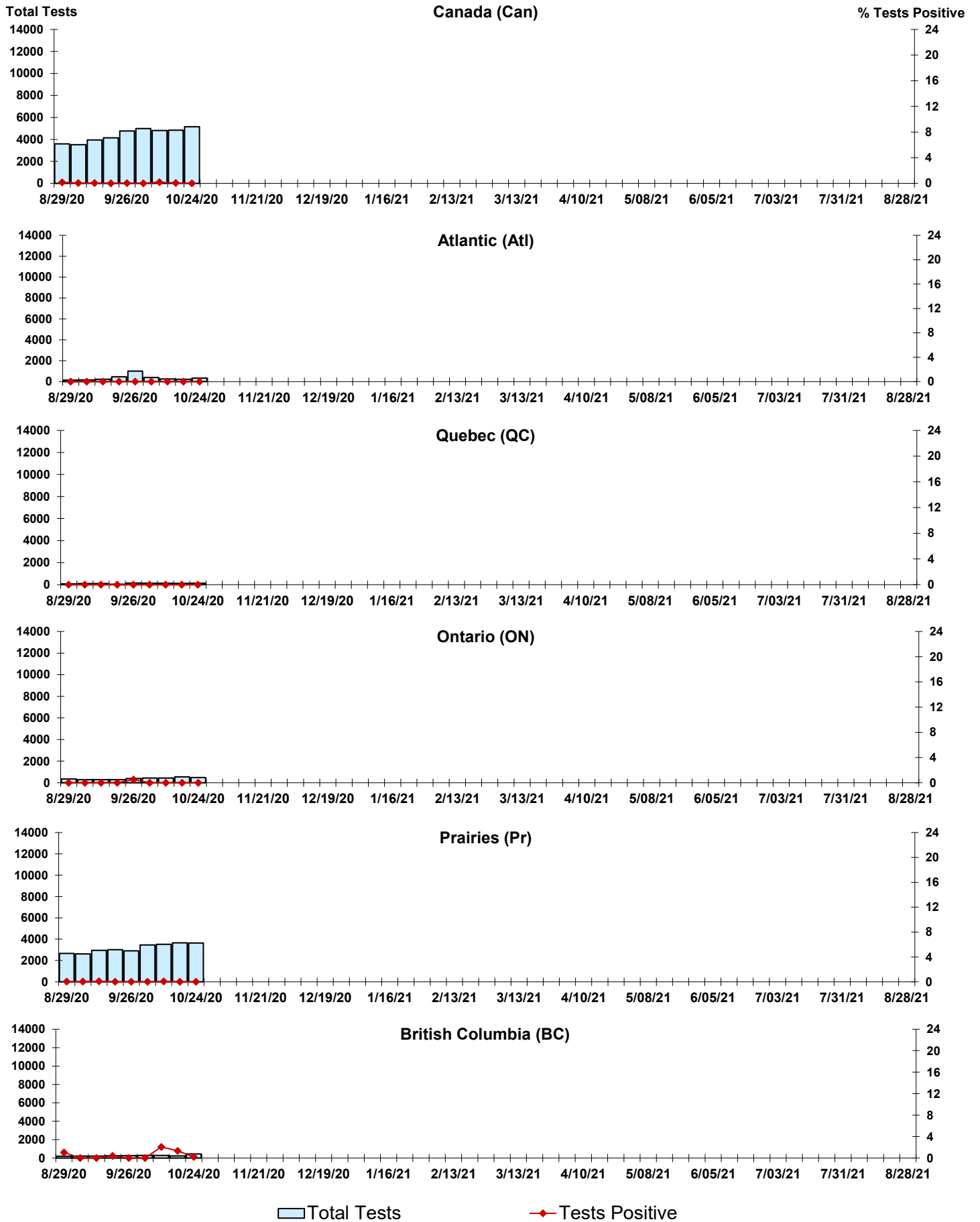


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



Legend: █ Total Tests ◆ Tests Positive

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

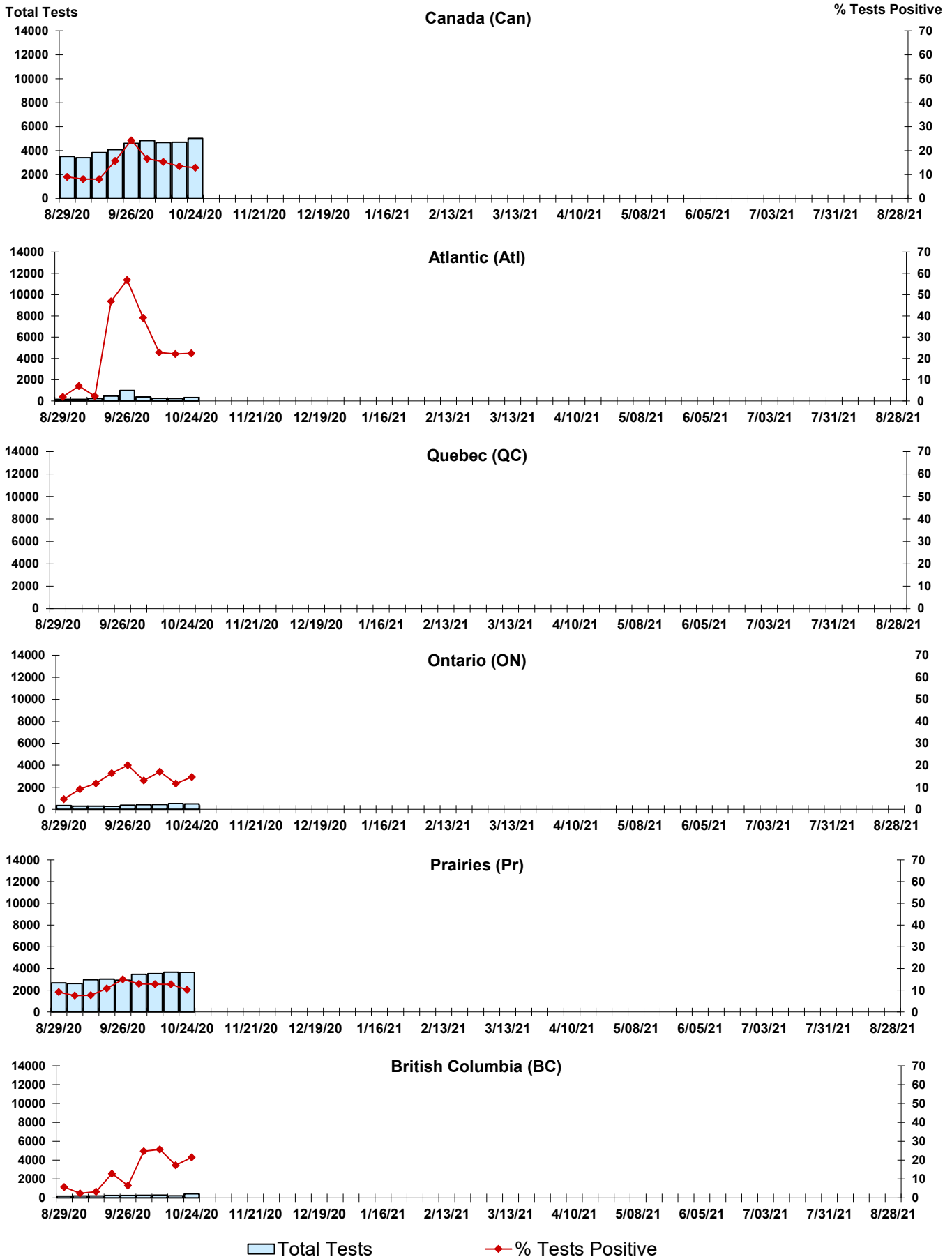
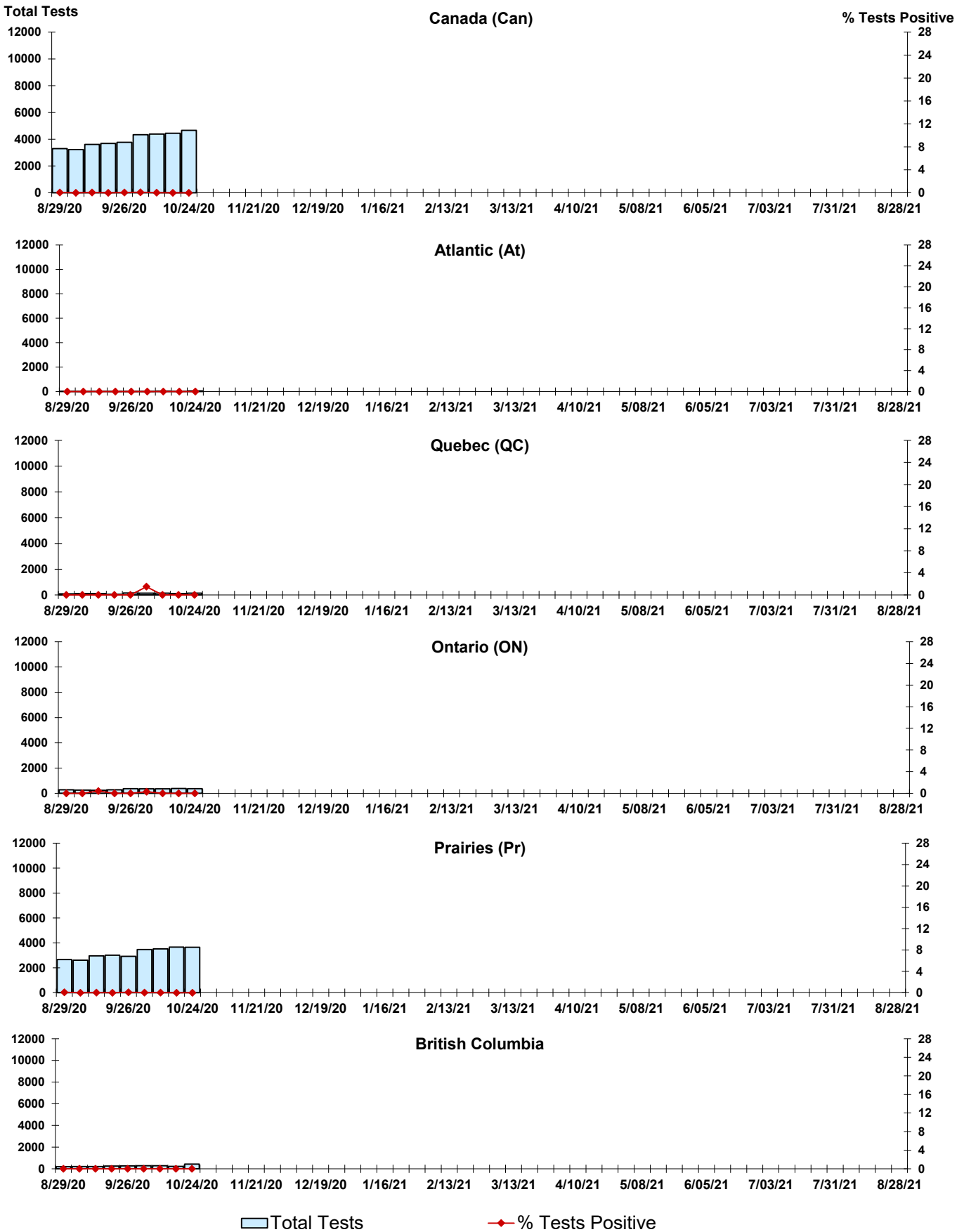


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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