

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 50 - ending December 14, 2019

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 December 2014, 2019 (Reporting Week 201950)

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	135	0	0	1	1	1	135	16	135	7	0	0	0	0	135	12	135	1	135	14	N.A.	N.A.
Prince Edward Island	20	0	0	1	1	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	93	0	0	0	0	1	96	3	21	1	0	0	0	0	21	0	21	1	21	4	21	0
New Brunswick	208	1	1	8	10	5	208	35	67	4	1	0	2	0	67	2	67	0	67	5	67	0
Atlantic	456	1	1	10	12	7	459	54	223	12	1	0	2	0	223	14	223	2	223	23	88	0
Région Nord-Est	167	0	0	7	7	5	138	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	362	0	0	15	15	2	389	14	89	1	1	0	1	0	91	9	74	0	N.A.	N.A.	74	4
Centre-du-Québec	619	0	0	74	74	56	542	41	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1369	0	0	110	110	117	1328	134	608	7	0	0	0	0	608	30	605	3	N.A.	N.A.	605	15
Ouest du Québec	412	0	0	45	45	68	360	28	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	322	0	0	32	32	15	322	14	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	3251	0	0	283	283	263	3079	235	697	8	1	0	1	0	699	39	679	3	N.A.	N.A.	679	19
P.H.O.L. - Ottawa	65	0	4	0	4	3	65	9	65	0	0	0	0	0	65	0	64	0	65	8	64	0
CHEO - Ottawa	249	0	0	6	6	15	249	44	32	0	0	0	0	0	32	1	32	0	32	7	32	0
P.H.O.L. - Kingston	23	1	0	0	1	0	22	3	22	0	0	0	0	0	22	2	21	3	22	6	21	0
UHN / Mount Sinai Hospital	327	0	0	22	22	3	327	15	19	0	0	1	0	0	0	0	19	0	0	0	N.A.	N.A.
P.H.O.L. - Toronto	366	27	3	1	31	6	354	25	354	0	0	0	0	0	354	8	350	3	354	21	350	0
Sick Kids Hospital - Toronto	90	4	0	0	4	4	90	16	90	2	0	0	4	0	90	2	90	3	90	17	90	3
Sunnybrook & Women's College HSC	50	0	0	3	3	0	50	2	50	0	0	0	0	0	50	0	50	0	50	1	0	0
P.H.O.L. - Sault Ste. Marie	22	0	0	0	0	0	22	1	22	0	0	0	0	0	22	0	22	0	22	2	22	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	74	0	0	5	5	0	74	8	40	0	0	0	0	0	40	2	40	0	8	1	8	0
P.H.O.L. - London	109	5	2	0	7	1	105	10	105	0	0	0	0	0	105	1	105	2	105	12	105	0
P.H.O.L. - Orillia	34	1	2	0	3	1	34	2	34	0	0	0	0	0	34	0	34	1	34	2	34	0
P.H.O.L. - Thunder Bay	12	0	0	0	0	1	12	0	12	0	0	0	0	0	12	0	12	1	12	2	12	0
P.H.O.L. - Sudbury	20	0	1	0	1	1	20	1	20	0	0	0	0	0	20	1	20	0	20	2	20	0
P.H.O.L. - Hamilton	88	1	1	0	2	1	86	4	87	0	0	0	0	0	87	3	87	2	87	10	87	0
P.H.O.L. - Peterborough	30	0	1	0	1	0	30	0	30	0	0	0	0	0	30	0	30	0	30	1	30	0
St. Joseph's Healthcare - Hamilton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Province of Ontario	1562	39	14	37	90	36	1543	140	985	2	0	1	4	0	966	20	979	15	934	93	878	3
Manitoba	286	2	3	19	24	27	274	23	57	2	0	0	0	0	57	1	46	0	57	8	46	0
Regina	205	0	0	49	49	9	205	2	134	5	0	0	0	0	134	3	134	0	134	21	134	1
Saskatoon	235	0	0	18	18	11	235	5	235	1	0	0	0	0	235	4	235	0	235	5	235	0
Saskatchewan	440	0	0	67	67	20	440	7	369	6	0	0	0	0	369	7	369	0	369	26	369	1
Alberta	1185	14	63	43	120	234	839	0	839	34	5	1	8	0	839	26	839	18	839	83	839	20
Prairies	1911	16	66	129	211	281	1553	30	1265	42	5	1	8	0	1265	34	1254	18	1265	117	1254	21
Province of British Columbia	915	0	5	11	37	47	913	59	285	5	2	2	0	4	285	7	285	10	261	58	190	6
Yukon	30	0	0	2	2	0	30	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	23	2	1	0	3	0	21	0	21	0	0	0	0	0	21	0	21	2	21	4	21	2
Nunavut	3	0	0	0	0	0	3	0	3	0	0	0	1	0	3	0	3	0	3	0	3	0
Territories	56	2	1	2	5	0	54	0	24	0	0	0	1	0	24	0	24	2	24	4	24	2
CANADA	8151	58	87	472	638	634	7601	518	3479	69	9	4	16	4	3462	114	3444	50	2707	295	3113	51

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, 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 British Columbia, only data from subtyped influenza A specimens are included in the weekly number of influenza detections. 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 25, 2019 - December 14, 2019 (Reporting Weeks 201935-201950)

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	1187	0	21	4	25	2	1187	24	1187	44	0	3	0	0	1187	42	1187	3	1187	244	N.A.	N.A.
Prince Edward Island	227	0	0	4	4	2	227	1	18	0	0	0	0	0	18	0	16	0	18	10	18	0
Nova Scotia	796	0	0	2	2	2	807	9	256	12	1	1	1	0	261	5	261	1	261	60	271	0
New Brunswick	2334	5	4	20	29	10	2275	85	902	32	3	0	6	0	902	35	902	1	902	189	902	0
Atlantic	4544	5	25	30	60	16	4496	119	2363	88	4	4	7	0	2368	82	2366	5	2368	503	1191	0
Région Nord-Est	1134	0	0	12	12	7	928	17	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	2406	0	0	29	29	6	2676	50	1306	14	4	1	7	0	1335	51	1102	2	N.A.	N.A.	1107	6
Centre-du-Québec	2691	0	0	170	170	85	2378	83	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	12068	0	0	375	375	223	11941	465	7593	94	4	6	8	0	7593	289	7180	22	N.A.	N.A.	7490	71
Ouest du Québec	2783	0	0	150	150	126	2655	117	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	2145	0	0	84	84	21	2143	103	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	23227	0	0	820	820	468	22721	835	8899	108	8	7	15	0	8928	340	8282	24	N.A.	N.A.	8597	77
P.H.O.L. - Ottawa	383	0	18	0	18	9	381	14	356	2	0	0	0	0	356	4	348	0	200	35	191	0
CHEO - Ottawa	2398	0	0	41	41	38	2398	147	389	1	0	3	6	1	389	9	389	0	392	111	380	2
P.H.O.L. - Kingston	283	2	1	0	3	0	282	4	278	1	0	0	0	0	278	7	274	3	109	22	101	0
UHN / Mount Sinai Hospital	3722	0	0	55	55	19	3722	61	267	3	0	9	2	0	0	0	267	7	0	0	N.A.	N.A.
P.H.O.L. - Toronto	4732	61	42	1	104	16	4706	102	4626	34	0	3	0	0	4626	53	4512	35	2082	188	1948	0
Sick Kids Hospital - Toronto	783	10	1	0	11	6	783	70	783	20	5	1	16	0	783	16	783	10	783	220	783	9
Sunnybrook & Women's College HSC	351	0	0	6	6	0	351	5	351	5	0	0	0	0	351	2	351	1	351	19	120	0
P.H.O.L. - Sault Ste. Marie	125	0	0	0	0	0	125	1	125	1	0	0	0	0	125	0	123	0	74	5	72	0
P.H.O.L. - Timmins	63	0	0	0	0	0	63	0	63	0	0	0	0	0	63	0	63	0	35	1	33	0
St. Joseph's - London	788	0	0	11	11	0	788	35	426	11	1	0	3	0	426	6	426	4	268	68	247	2
P.H.O.L. - London	1104	10	6	0	16	1	1096	57	1081	8	0	0	0	0	1081	14	1062	5	625	95	594	0
P.H.O.L. - Orillia	418	1	6	0	7	4	418	4	415	4	0	0	0	0	415	2	414	1	224	32	221	0
P.H.O.L. - Thunder Bay	103	0	0	0	0	2	101	0	101	0	0	1	0	0	101	1	92	1	53	10	43	0
P.H.O.L. - Sudbury	155	0	1	0	1	1	154	2	154	0	0	1	0	0	154	5	146	1	82	7	73	0
P.H.O.L. - Hamilton	1235	13	7	0	20	3	1223	32	1202	10	1	0	0	0	1202	17	1188	9	607	101	589	0
P.H.O.L. - Peterborough	410	2	1	0	3	2	407	8	406	3	0	0	0	0	405	4	405	3	151	24	148	0
St. Joseph's Healthcare - Hamilton	1558	0	0	63	63	13	1558	216	1558	51	2	1	0	0	1558	45	1558	11	1558	210	0	0
Province of Ontario	18611	99	83	177	359	114	18556	758	12581	154	9	19	27	1	12313	185	12401	91	7594	1148	5543	13
Manitoba	3903	9	29	38	76	118	3799	101	2037	21	2	3	2	0	2037	41	1193	12	2037	383	1193	6
Regina	3117	0	0	119	119	26	3117	14	1786	56	1	1	6	0	1786	38	1709	3	1786	525	1786	6
Saskatoon	2093	0	0	53	53	32	2093	20	2093	78	5	4	2	0	2093	52	2096	1	2093	463	2093	7
Saskatchewan	5210	0	0	172	172	58	5210	34	3879	134	6	5	8	0	3879	90	3805	4	3879	988	3879	13
Alberta	11814	102	292	174	568	644	9713	0	9713	247	24	17	67	0	9713	198	9713	102	9713	2260	9713	80
Prairies	20927	111	321	384	816	820	18722	135	15629	402	32	25	77	0	15629	329	14711	118	15629	3631	14785	99
Province of British Columbia	9323	30	101	74	302	88	9156	226	3572	112	29	18	17	11	3572	35	3546	112	3258	840	3031	25
Yukon	626	0	8	6	14	0	626	1	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	239	6	1	1	8	0	233	0	233	1	0	1	0	0	233	5	233	11	233	88	233	7
Nunavut	62	0	0	0	0	0	60	0	60	1	3	0	3	0	60	5	60	1	60	28	37	0
Territories	927	6	9	7	22	0	919	1	293	2	3	1	3	0	293	10	293	12	293	116	270	7
CANADA	77559	251	539	1492	2379	1506	74570	2074	43337	866	85	74	146	12	43103	981	41599	362	29142	6238	33417	221

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 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. 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, 2019-2020

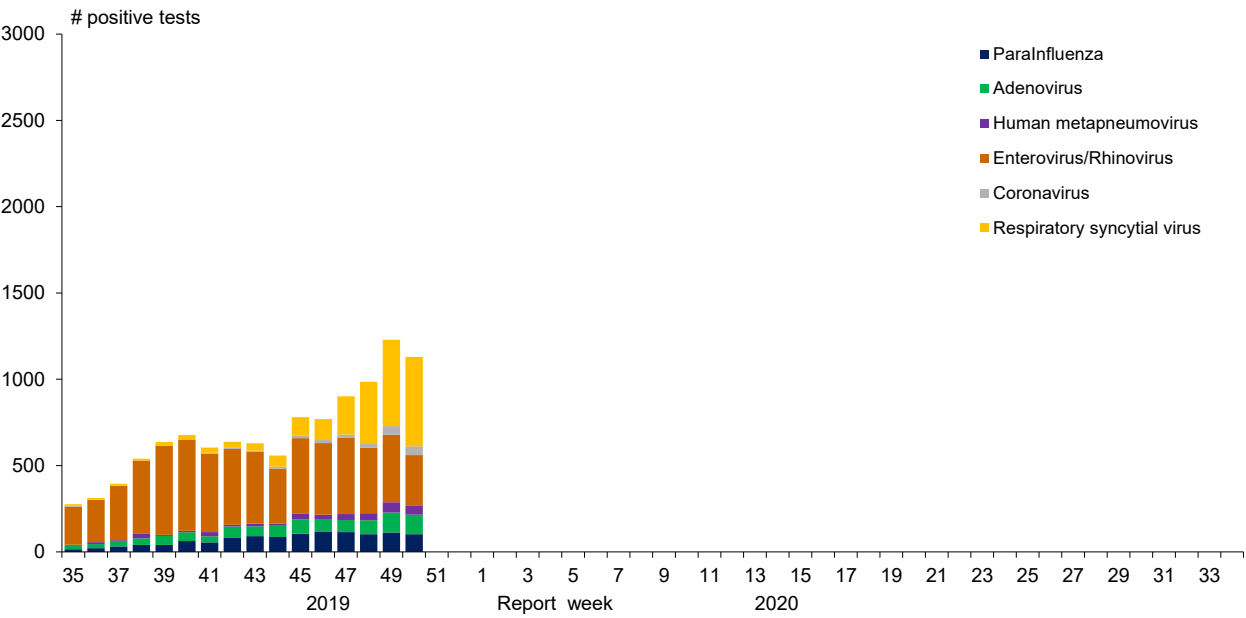


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

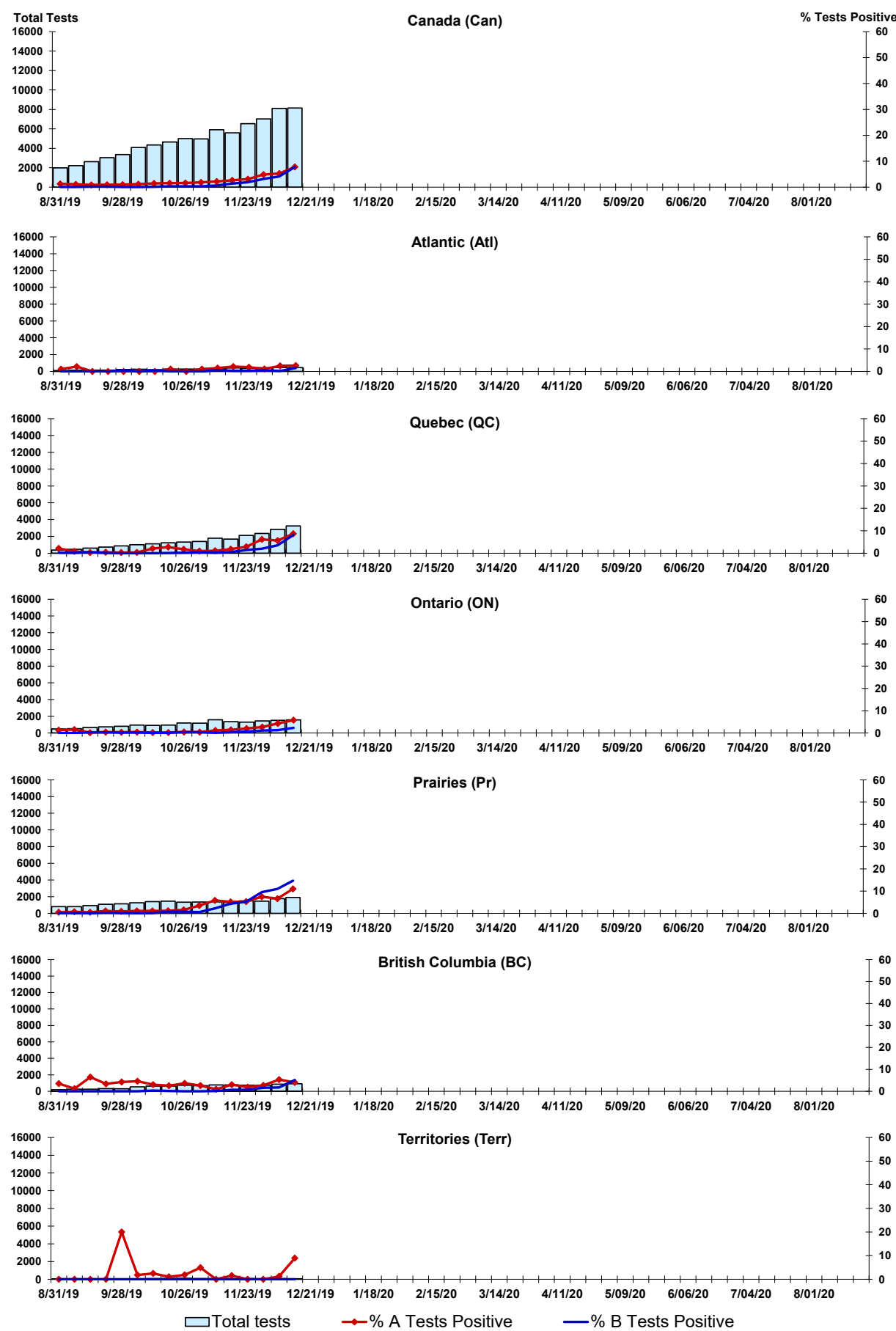


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

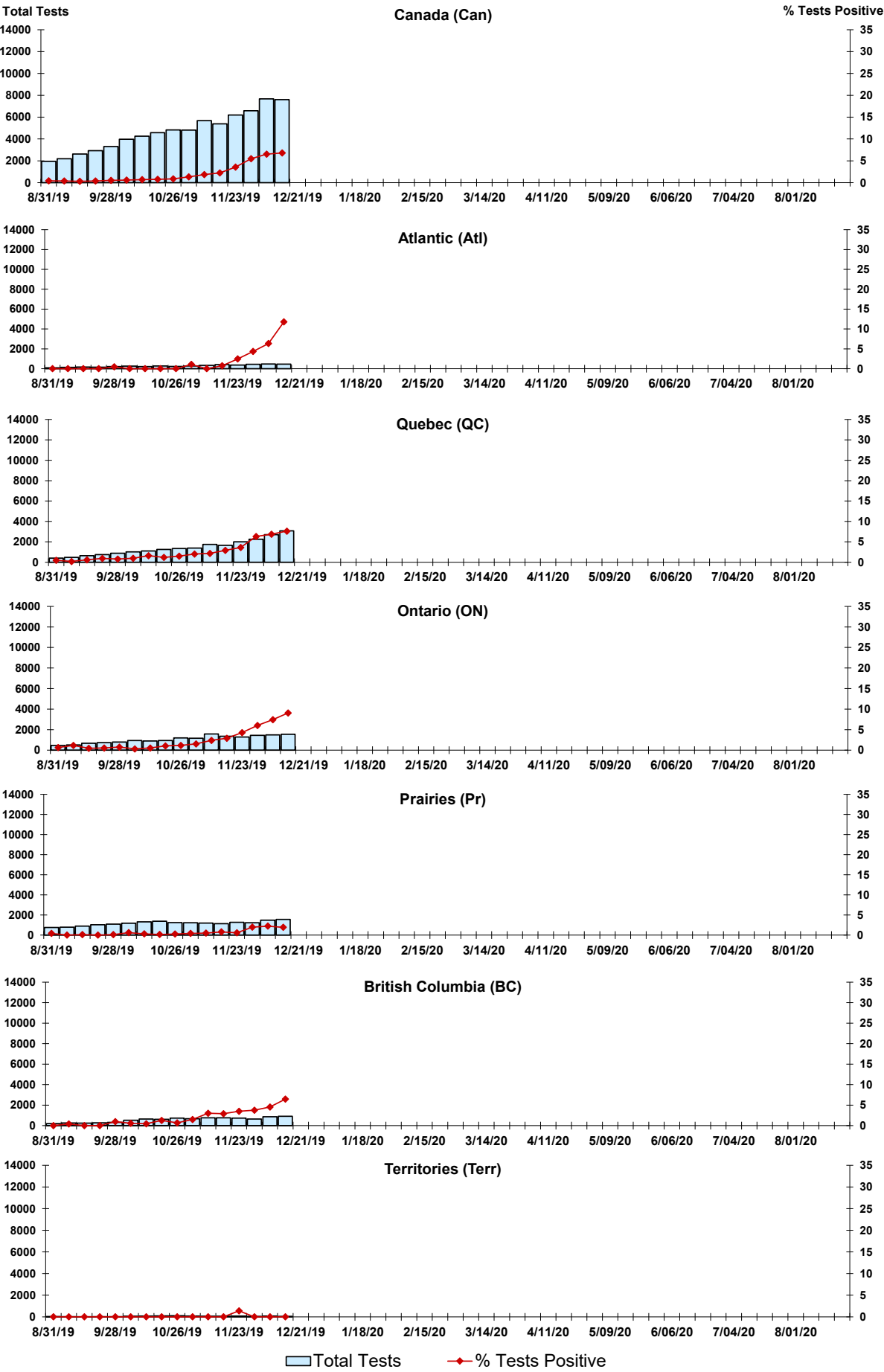


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

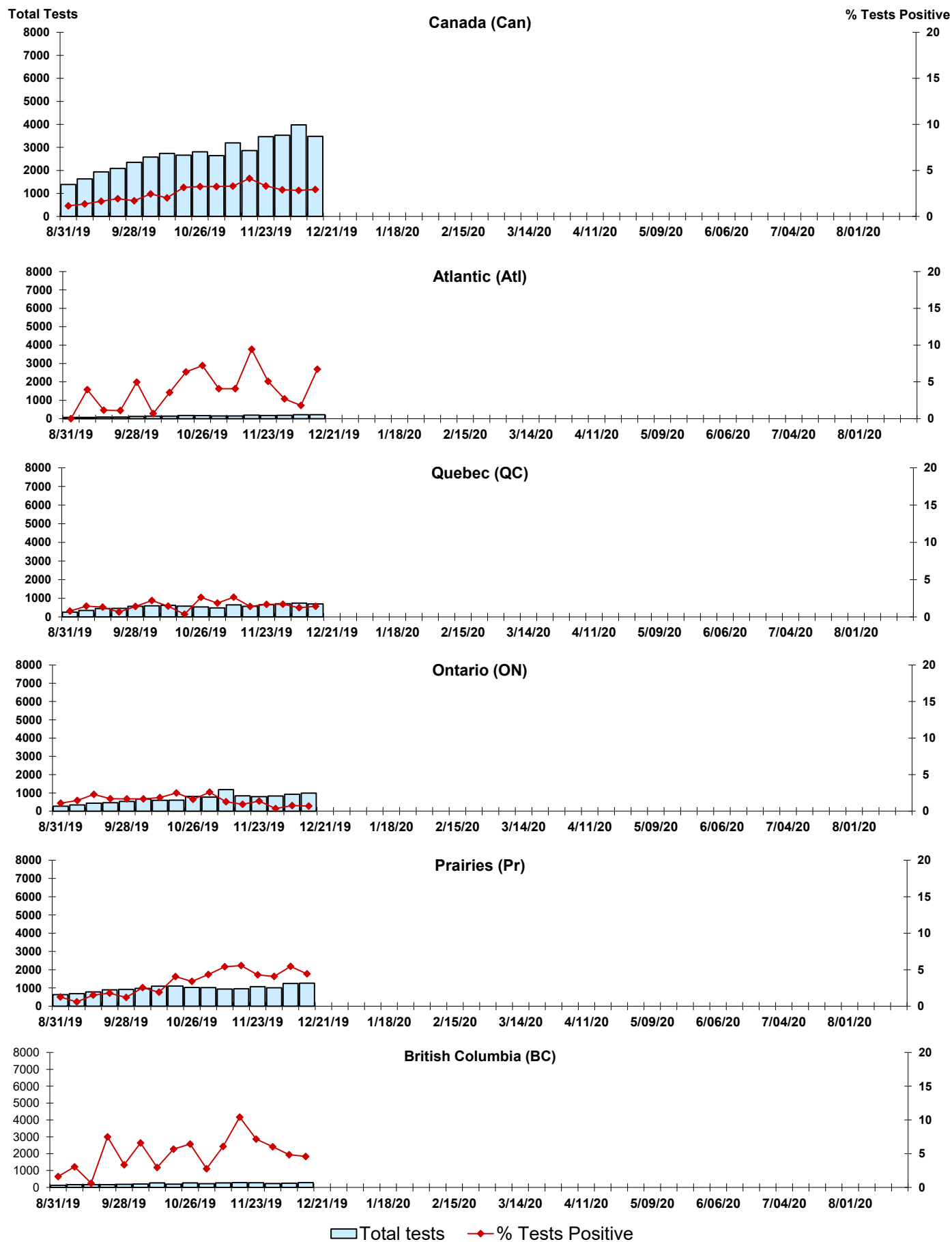


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

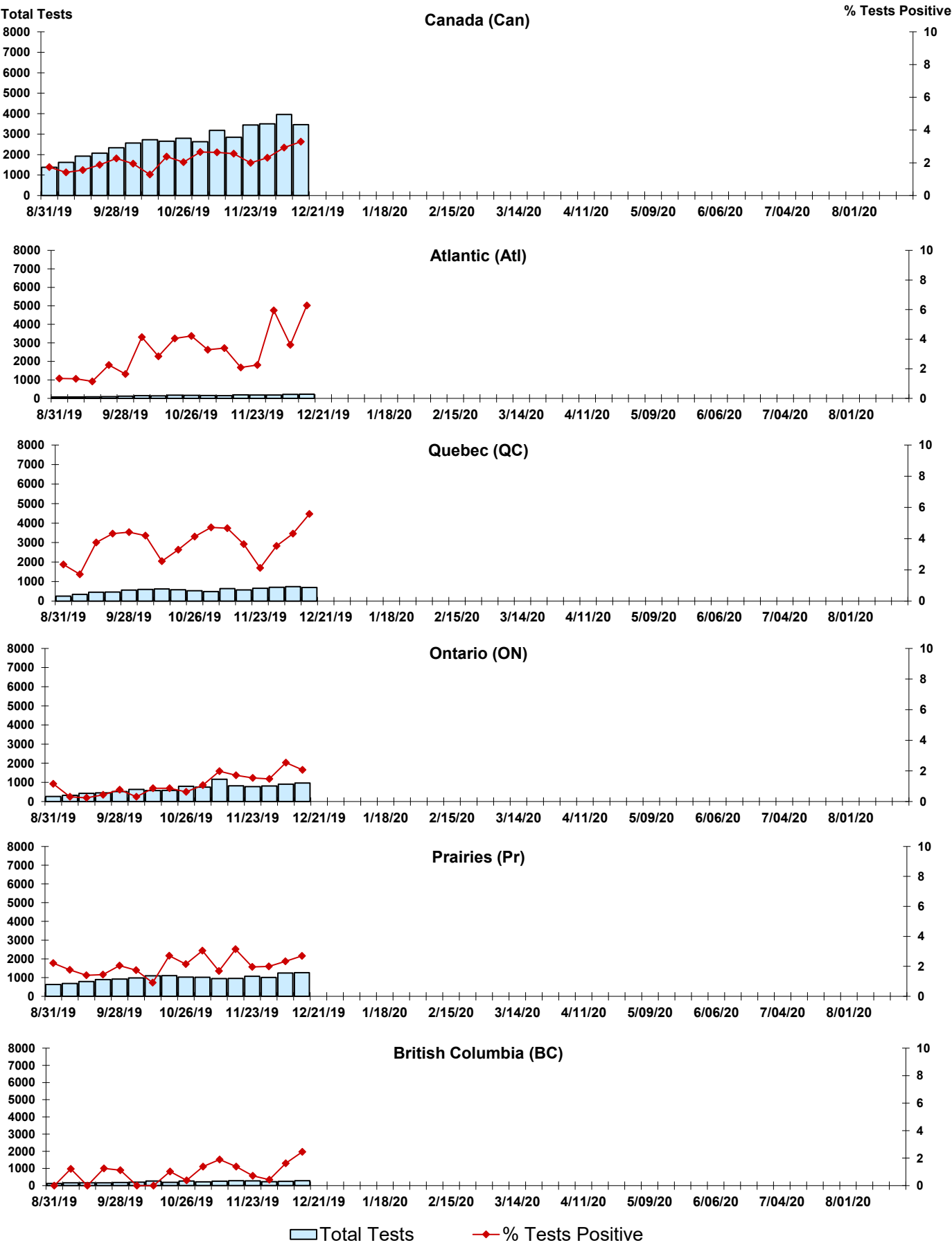


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

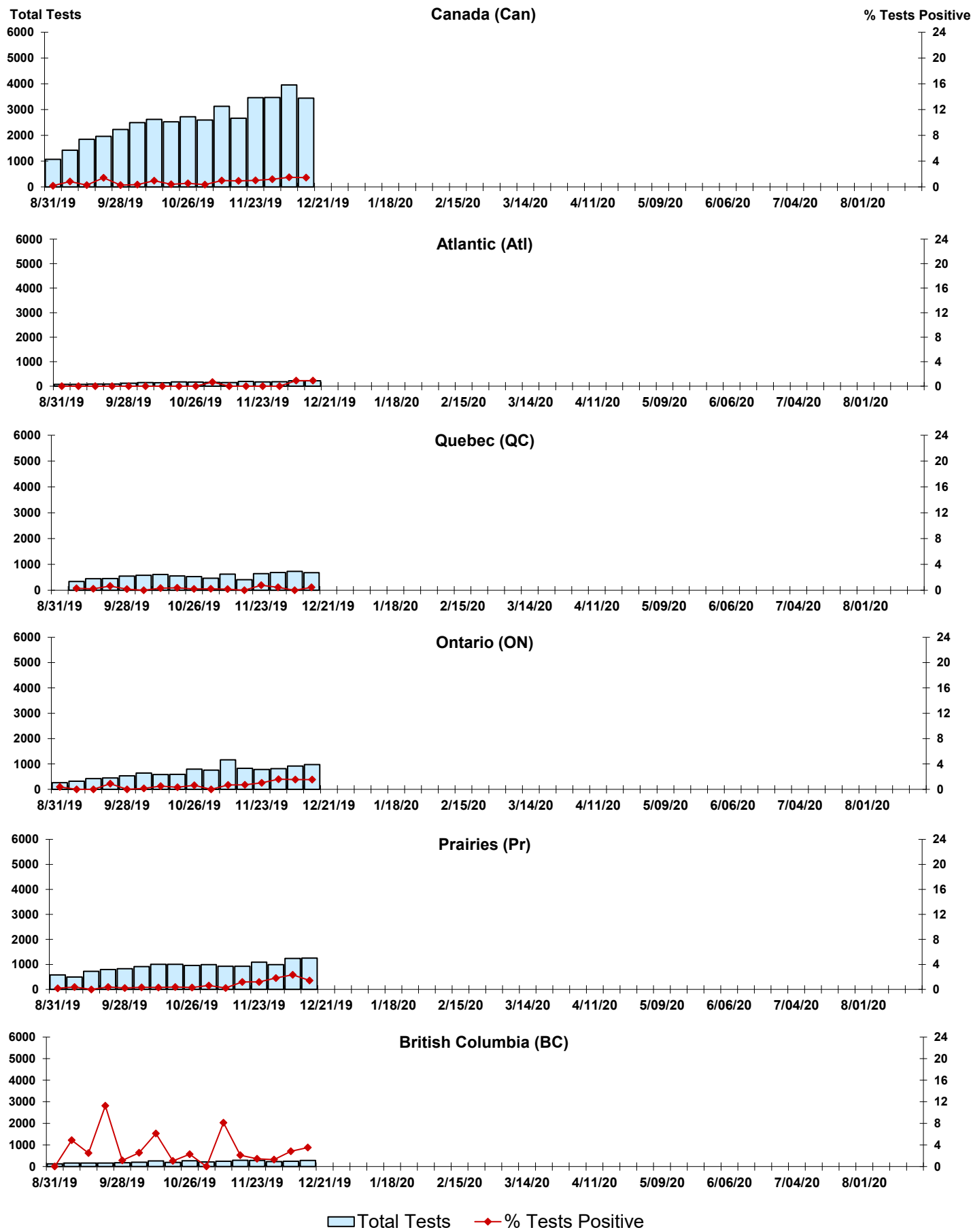


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

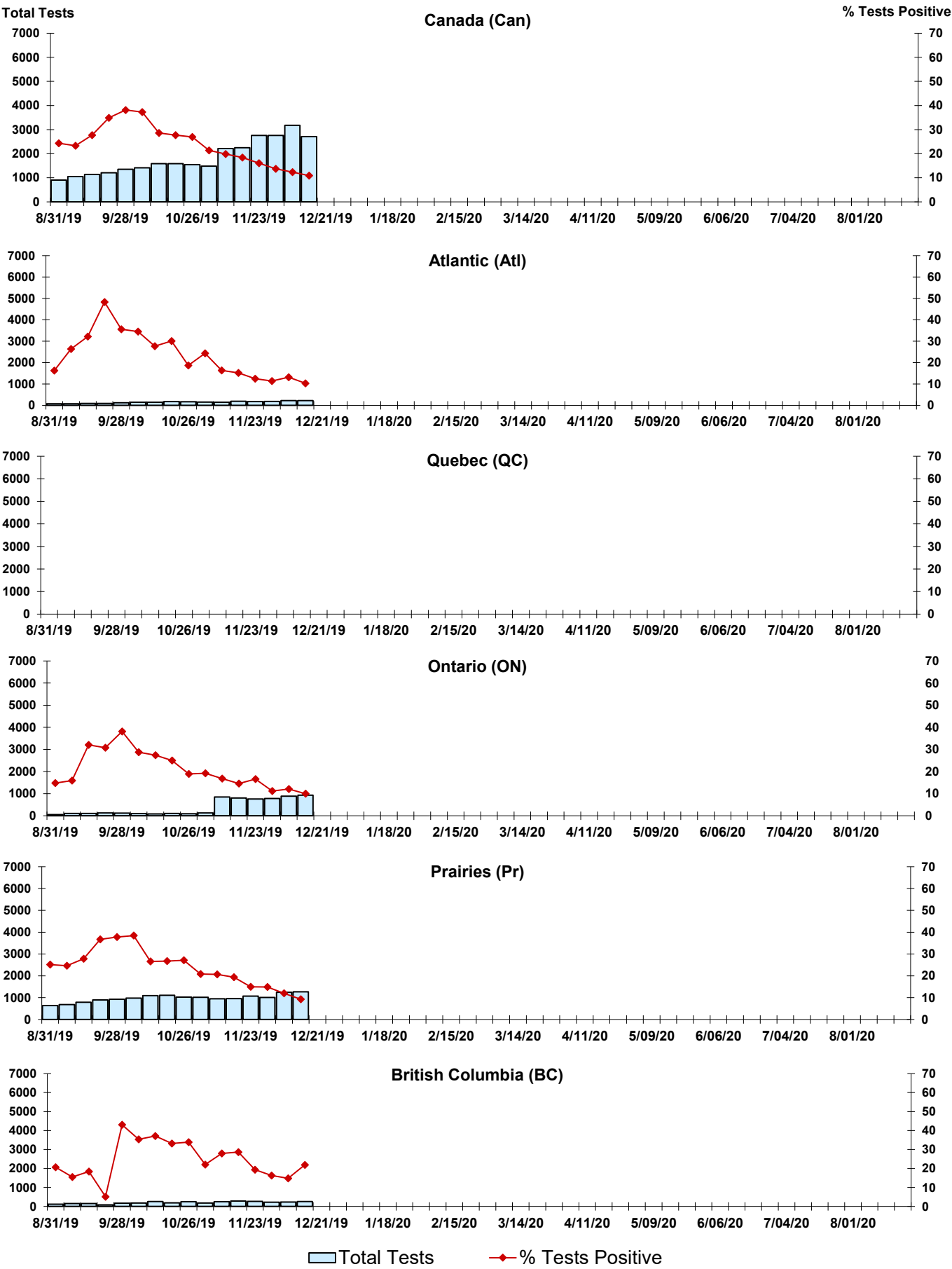
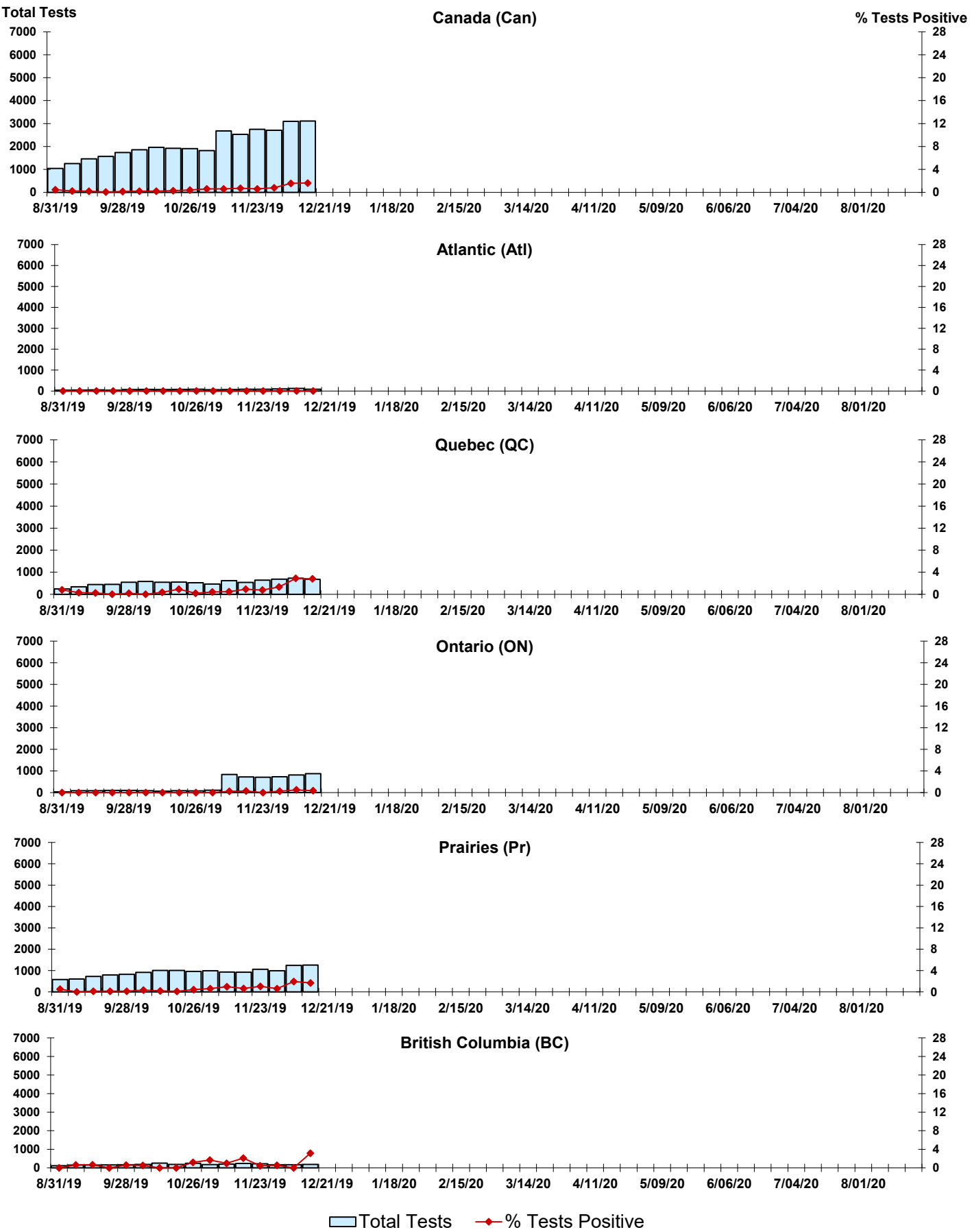


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.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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Due to reporting delays, the sum of weekly report totals do not add up to cumulative totals.