

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 45 - ending November 9, 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 November 9, 2019 (Reporting Week 201945)

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.
Prince Edward Island	32	0	0	1	1	0	32	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	75	0	0	0	0	0	76	0	13	1	0	0	0	0	13	0	13	0	13	1	13	0
New Brunswick	146	0	0	2	2	1	146	0	55	2	0	0	0	0	55	2	55	0	55	6	55	0
Atlantic	253	0	0	3	3	1	254	0	69	3	0	0	0	0	69	2	69	0	69	7	69	0
Région Nord-Est	90	0	0	0	0	0	72	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	246	0	0	1	1	0	260	0	89	1	0	0	1	0	89	4	75	0	N.A.	N.A.	75	1
Centre-du-Québec	189	0	0	3	3	1	159	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	896	0	0	11	11	3	884	20	554	12	0	1	2	0	554	26	547	1	N.A.	N.A.	547	2
Ouest du Québec	213	0	0	3	3	0	213	5	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	159	0	0	2	2	0	159	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1793	0	0	20	20	4	1747	38	643	13	0	1	3	0	643	30	622	1	N.A.	N.A.	622	3
P.H.O.L. - Ottawa	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
CHEO - Ottawa	163	0	0	4	4	0	163	10	25	0	0	0	0	0	25	1	25	0	25	8	24	0
P.H.O.L. - Kingston	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
UHN / Mount Sinai Hospital	230	0	0	0	0	1	230	1	14	0	0	0	0	0	0	0	14	1	0	0	N.A.	N.A.
P.H.O.L. - Toronto	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
Sick Kids Hospital - Toronto	55	0	1	0	1	0	55	0	55	1	1	0	0	0	55	1	55	0	55	17	55	2
Sunnybrook & Women's College HSC	50	0	0	0	0	0	50	0	50	3	0	0	0	0	50	0	50	0	50	4	50	0
P.H.O.L. - Sault Ste. Marie	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
P.H.O.L. - Timmins	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
St. Joseph's - London	105	0	0	0	0	0	105	3	56	5	0	0	1	0	56	1	56	1	32	4	32	0
P.H.O.L. - London	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
P.H.O.L. - Orillia	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
P.H.O.L. - Thunder Bay	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
P.H.O.L. - Sudbury	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
P.H.O.L. - Hamilton	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
P.H.O.L. - Peterborough	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
Province of Ontario	603	0	1	4	5	1	603	14	200	9	1	0	1	0	186	3	200	2	162	33	161	2
Manitoba	234	1	1	4	6	6	234	4	89	1	0	1	0	0	89	3	70	0	89	25	70	1
Regina	199	0	0	5	5	0	199	2	99	4	0	0	2	0	99	1	99	0	99	31	99	0
Saskatoon	119	0	0	4	4	1	119	0	119	8	1	0	0	0	119	1	119	0	119	30	119	1
Saskatchewan	318	0	0	9	9	1	318	2	218	12	1	0	2	0	218	2	218	0	218	61	218	1
Alberta	756	10	27	20	57	22	586	0	586	21	1	2	6	0	586	8	586	2	586	92	586	6
Prairies	1308	11	28	33	72	29	1138	6	893	34	2	3	8	0	893	13	874	2	893	178	874	8
Province of British Columbia	667	1	1	5	11	1	662	23	138	5	4	0	0	0	138	2	122	17	122	38	122	0
Yukon	30	0	0	0	0	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.	0	0
Northwest Territories	15	0	0	0	0	0	14	0	14	0	0	0	0	0	14	3	14	0	14	5	14	0
Nunavut	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	2	6	0	6	3	6	0
Territories	51	0	0	0	0	0	50	0	20	0	0	0	0	0	20	5	20	0	20	8	20	0
CANADA	4675	12	30	65	111	36	4454	81	1963	64	7	4	12	0	1949	55	1907	22	1266	264	1868	13

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 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.

This week's RVDSS report does not contain data from the Public Health Ontario Laboratory.

Table 2: Respiratory Virus Detections/Isolations for the period August 25, 2019 - November 9, 2019 (Reporting Weeks 201935-201945)

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	592	0	3	1	4	0	592	1	592	18	0	3	0	0	592	15	592	1	592	164	N.A.	N.A.
Prince Edward Island	108	0	0	1	1	0	108	0	13	0	0	0	0	0	13	0	13	0	13	7	13	0
Nova Scotia	393	0	0	1	1	1	399	0	162	8	0	1	0	0	167	3	167	0	167	44	167	0
New Brunswick	1228	1	1	5	7	2	1169	3	521	17	0	0	2	0	521	20	521	0	521	147	521	0
Atlantic	2321	1	4	8	13	3	2268	4	1288	43	0	4	2	0	1293	38	1293	1	1293	362	701	0
Région Nord-Est	449	0	0	0	0	0	386	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	1065	0	0	7	7	0	1210	1	923	6	3	1	3	0	946	25	780	2	N.A.	N.A.	785	1
Centre-du-Québec	774	0	0	6	6	3	708	7	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	6462	0	0	52	52	14	6520	96	4600	63	2	4	6	0	4600	184	4359	11	N.A.	N.A.	4540	17
Ouest du Québec	1292	0	0	64	64	1	1276	20	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	925	0	0	10	10	1	923	24	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	10967	0	0	139	139	19	11023	150	5523	69	5	5	9	0	5546	209	5139	13	N.A.	N.A.	5325	18
P.H.O.L. - Ottawa	184	0	3	0	3	0	182	0	151	2	0	0	0	0	151	0	147	0	5	0	0	0
CHEO - Ottawa	1260	0	0	8	8	2	1260	26	271	1	0	3	6	0	271	5	271	0	274	83	264	0
P.H.O.L. - Kingston	172	0	1	0	1	0	172	1	165	1	0	0	0	0	165	0	163	0	6	1	0	0
UHN / Mount Sinai Hospital	2214	0	0	10	10	7	2214	19	176	2	0	6	2	0	0	0	176	5	0	0	N.A.	N.A.
P.H.O.L. - Toronto	2527	2	15	0	17	4	2527	8	2450	32	0	3	0	0	2450	12	2376	5	93	0	0	0
Sick Kids Hospital - Toronto	454	0	1	0	1	1	454	11	454	12	2	1	4	0	454	7	454	6	454	161	454	2
Sunnybrook & Women's College HSC	120	0	0	0	0	0	120	0	120	3	0	0	0	0	120	2	120	0	120	9	120	0
P.H.O.L. - Sault Ste. Marie	47	0	0	0	0	0	47	0	47	1	0	0	0	0	47	0	46	0	1	0	0	0
P.H.O.L. - Timmins	30	0	0	0	0	0	30	0	30	0	0	0	0	0	30	0	30	0	2	0	0	0
St. Joseph's - London	259	0	0	0	0	0	259	5	210	7	1	0	1	0	210	4	210	1	172	43	171	0
P.H.O.L. - London	473	1	0	0	1	0	472	6	457	7	0	0	0	0	457	4	444	0	25	0	0	0
P.H.O.L. - Orillia	184	0	1	0	1	0	184	0	179	4	0	0	0	0	179	0	178	0	3	0	0	0
P.H.O.L. - Thunder Bay	56	0	0	0	0	0	54	0	54	0	0	1	0	0	54	0	47	0	8	0	0	0
P.H.O.L. - Sudbury	77	0	0	0	0	0	76	0	76	0	0	1	0	0	76	1	69	0	8	0	0	0
P.H.O.L. - Hamilton	613	1	2	0	3	1	607	6	584	9	1	0	0	0	584	2	574	1	14	0	0	0
P.H.O.L. - Peterborough	247	0	0	0	0	2	244	4	237	1	0	0	0	0	237	2	237	0	3	0	0	0
Province of Ontario	8917	4	23	18	45	17	8902	86	5661	82	4	15	13	0	5485	39	5542	18	1188	297	1009	2
Manitoba	2497	3	4	16	23	17	2497	16	1546	13	1	3	1	0	1546	29	777	3	1546	309	777	5
Regina	2247	0	0	27	27	2	2247	8	1238	16	0	0	6	0	1238	21	1131	1	1238	420	1238	0
Saskatoon	1322	0	0	8	8	1	1322	8	1322	45	3	3	1	0	1322	37	1325	1	1322	381	1322	3
Saskatchewan	3569	0	0	35	35	3	3569	16	2560	61	3	3	7	0	2560	58	2456	2	2560	801	2560	3
Alberta	6852	28	91	47	166	46	5932	0	5932	123	14	12	27	0	5932	105	5932	24	5932	1743	5932	22
Prairies	12918	31	95	98	224	66	11998	32	10038	197	18	18	35	0	10038	192	9165	29	10038	2853	9269	30
Province of British Columbia	5208	7	57	55	166	4	5144	56	2115	53	14	12	12	0	2115	14	2089	79	1874	548	1957	10
Yukon	431	0	8	3	11	0	431	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	125	3	0	1	4	0	121	0	121	0	0	1	0	0	121	3	121	3	121	65	121	1
Nunavut	29	0	0	0	0	0	27	0	27	0	3	0	0	0	27	4	27	0	27	13	27	0
Territories	585	3	8	4	15	0	579	0	148	0	3	1	0	0	148	7	148	3	148	78	148	1
CANADA	40916	46	187	322	602	109	39914	328	24773	444	44	55	71	0	24625	499	23376	143	14541	4138	18409	61

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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.

This week's RVDSS report does not contain data from the Public Health Ontario Laboratory.

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2019-2020

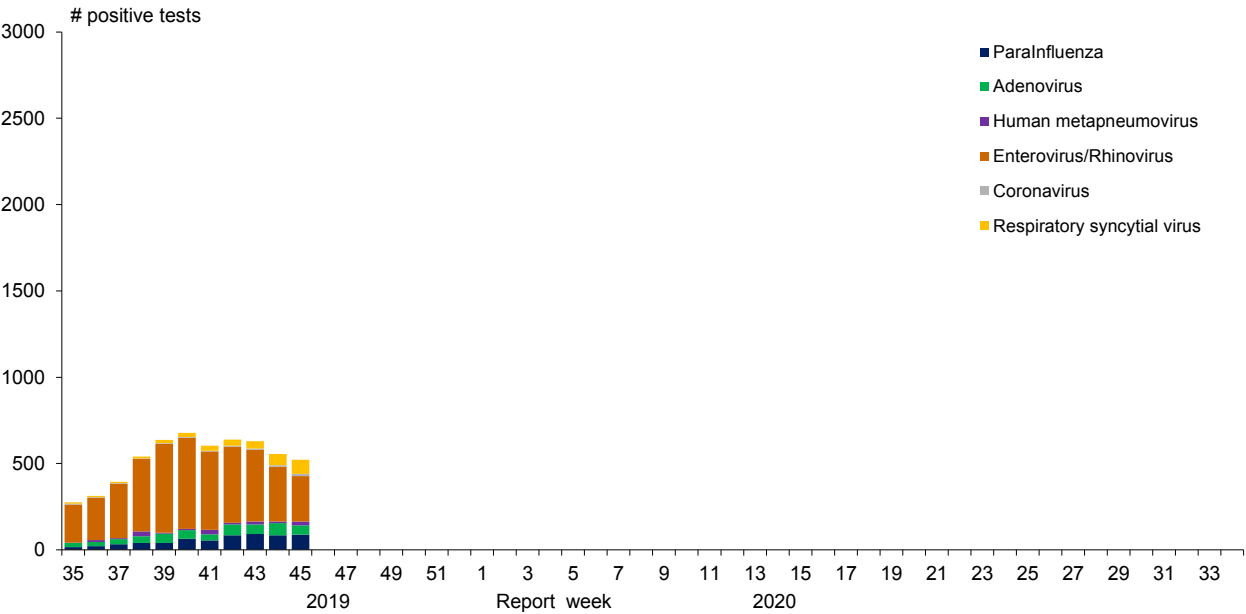


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

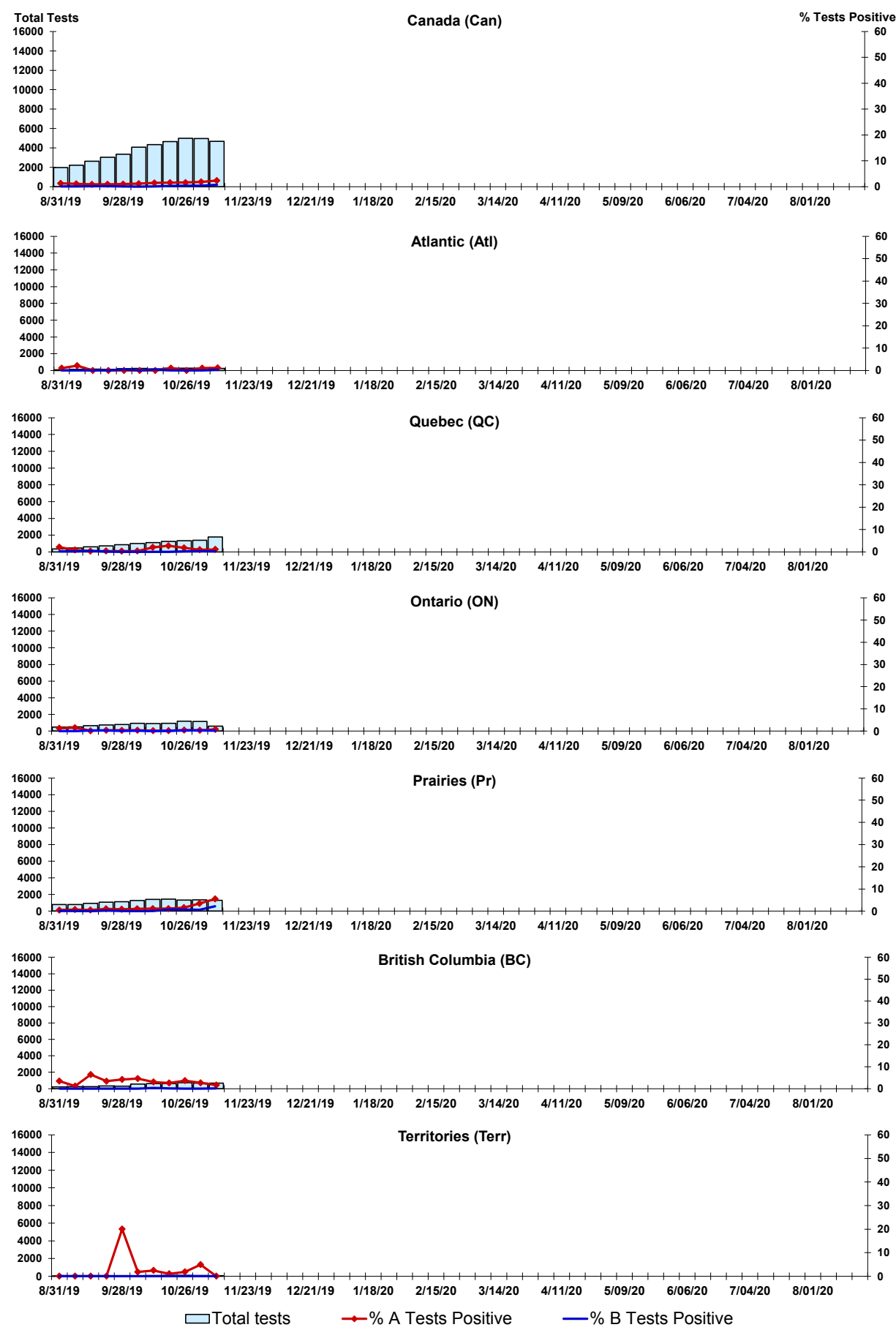


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

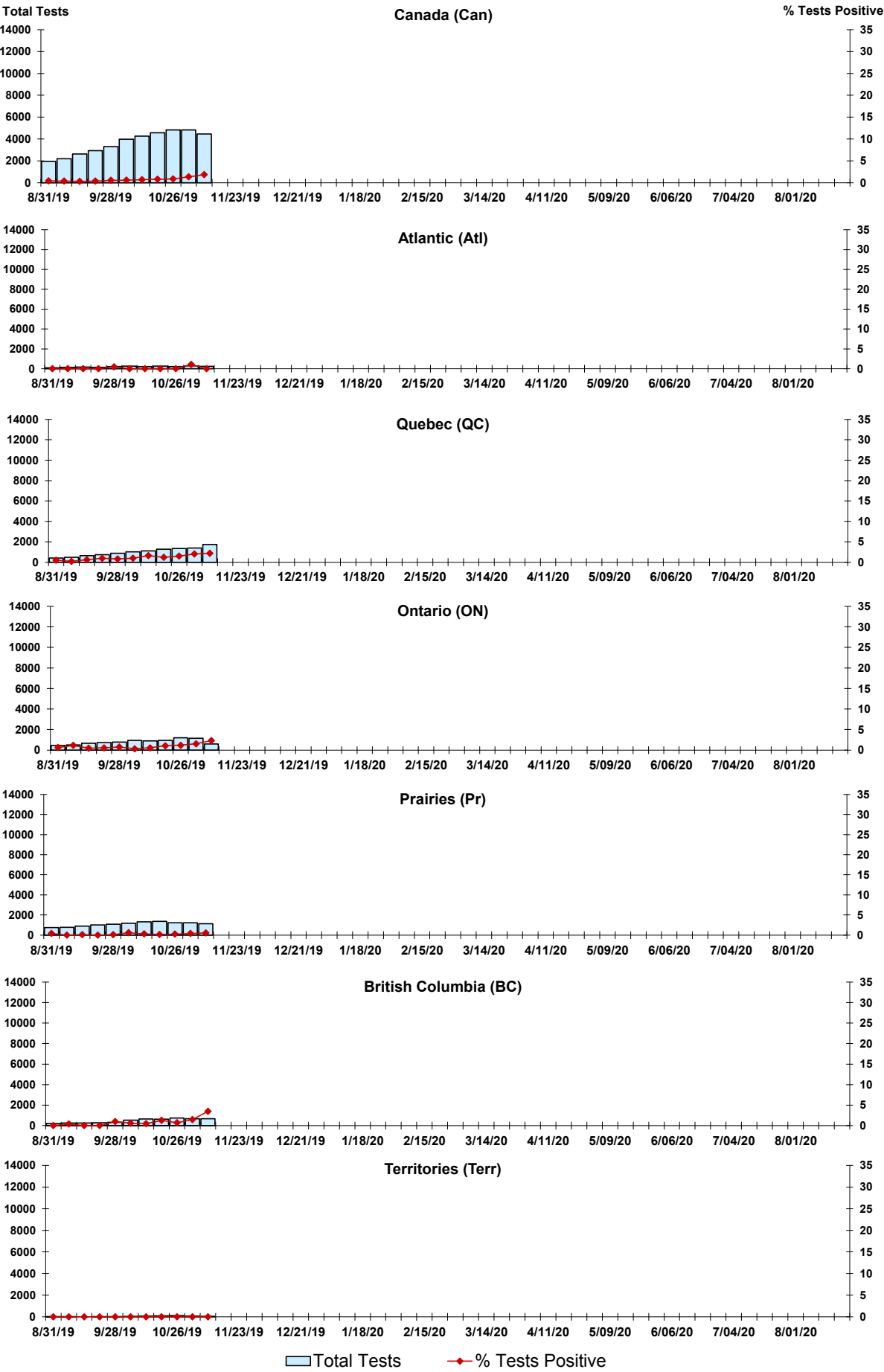


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

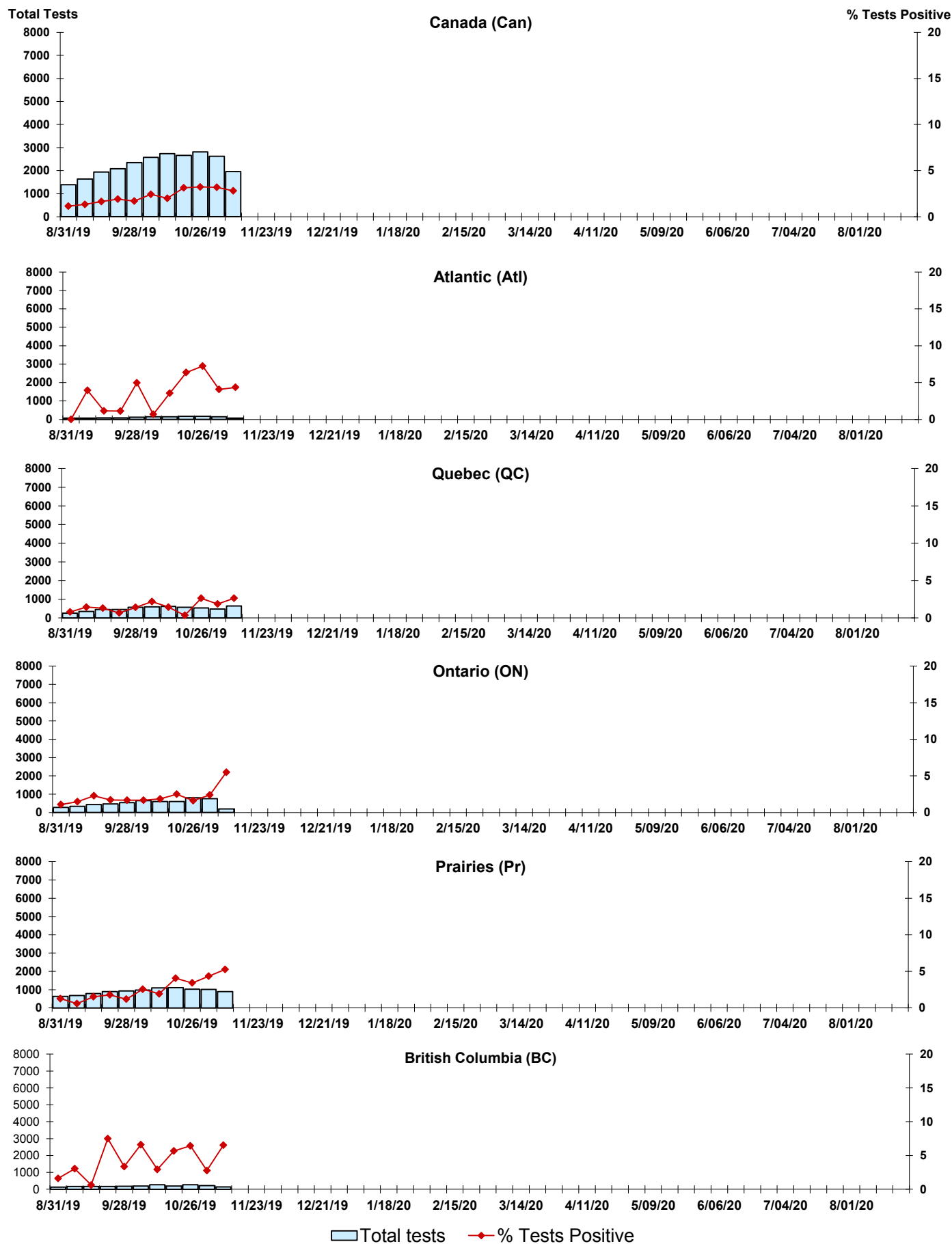


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

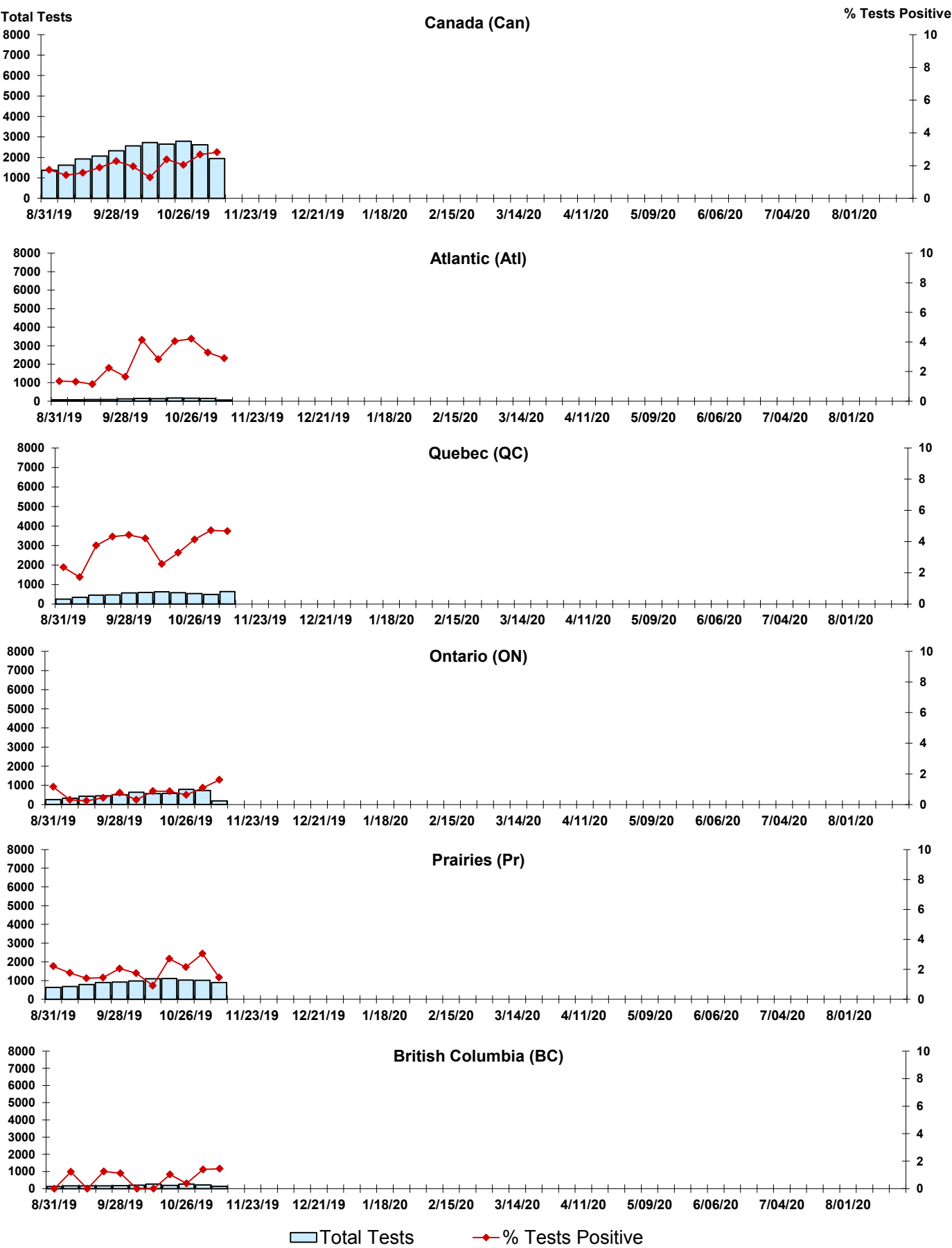


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

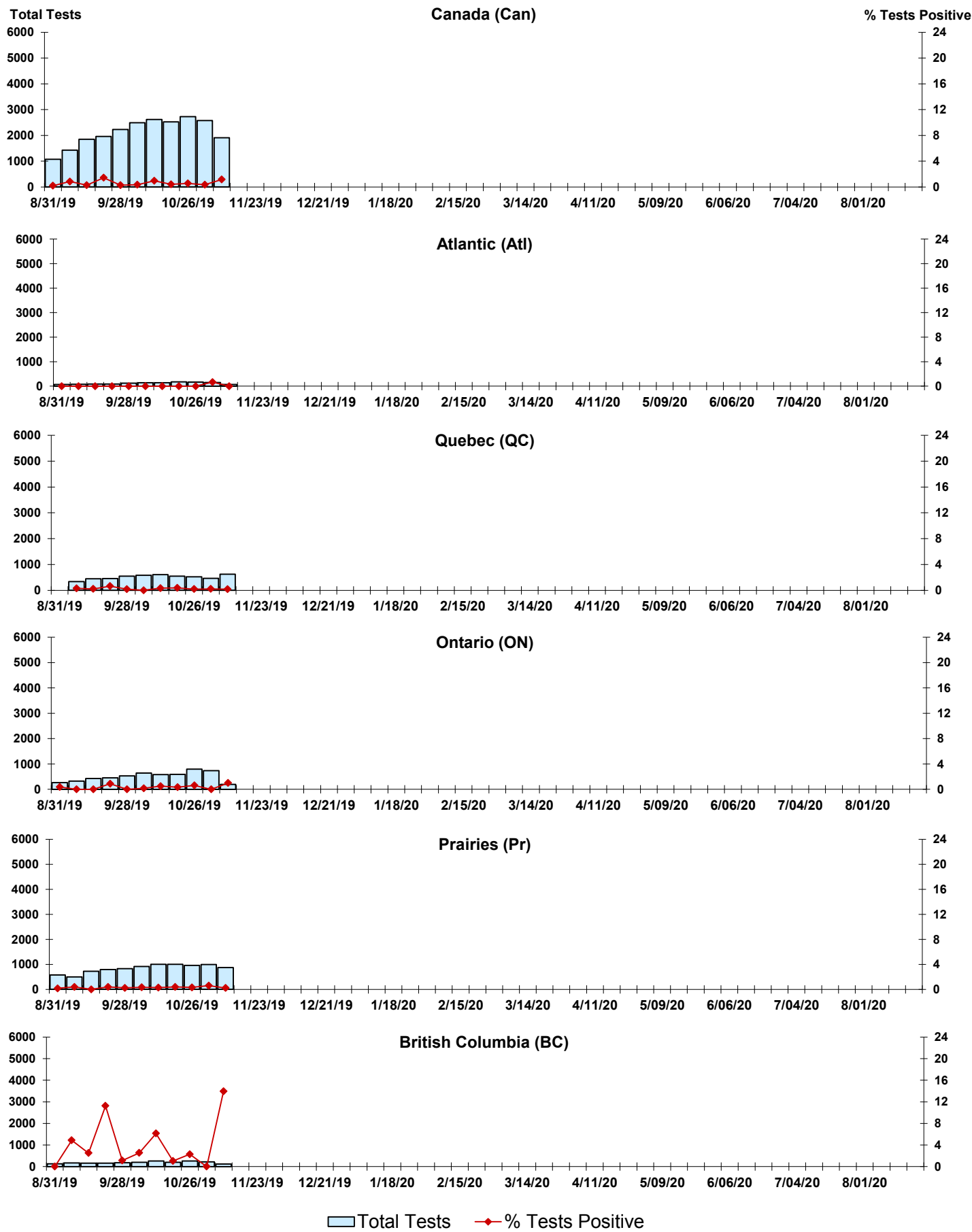


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

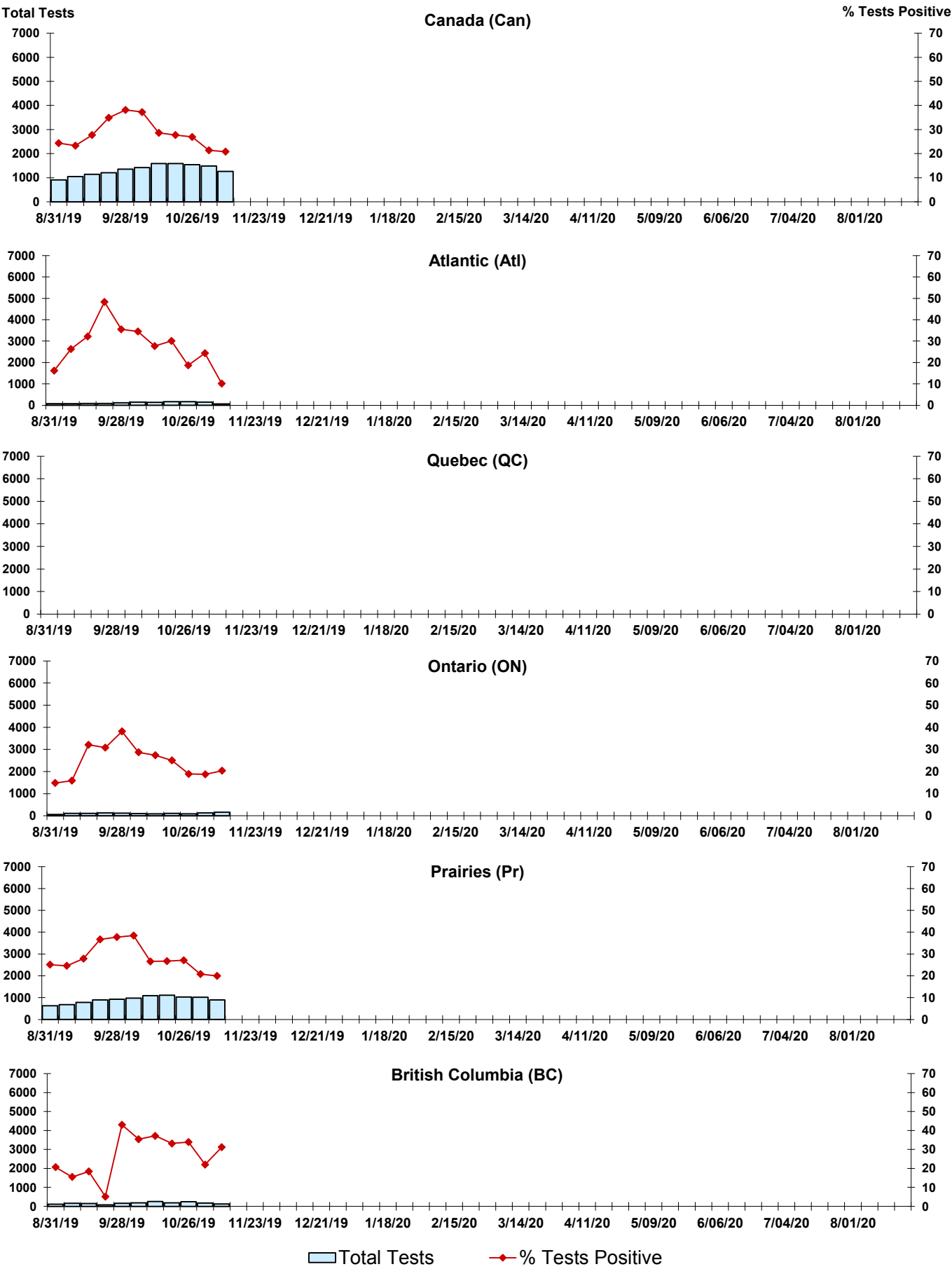
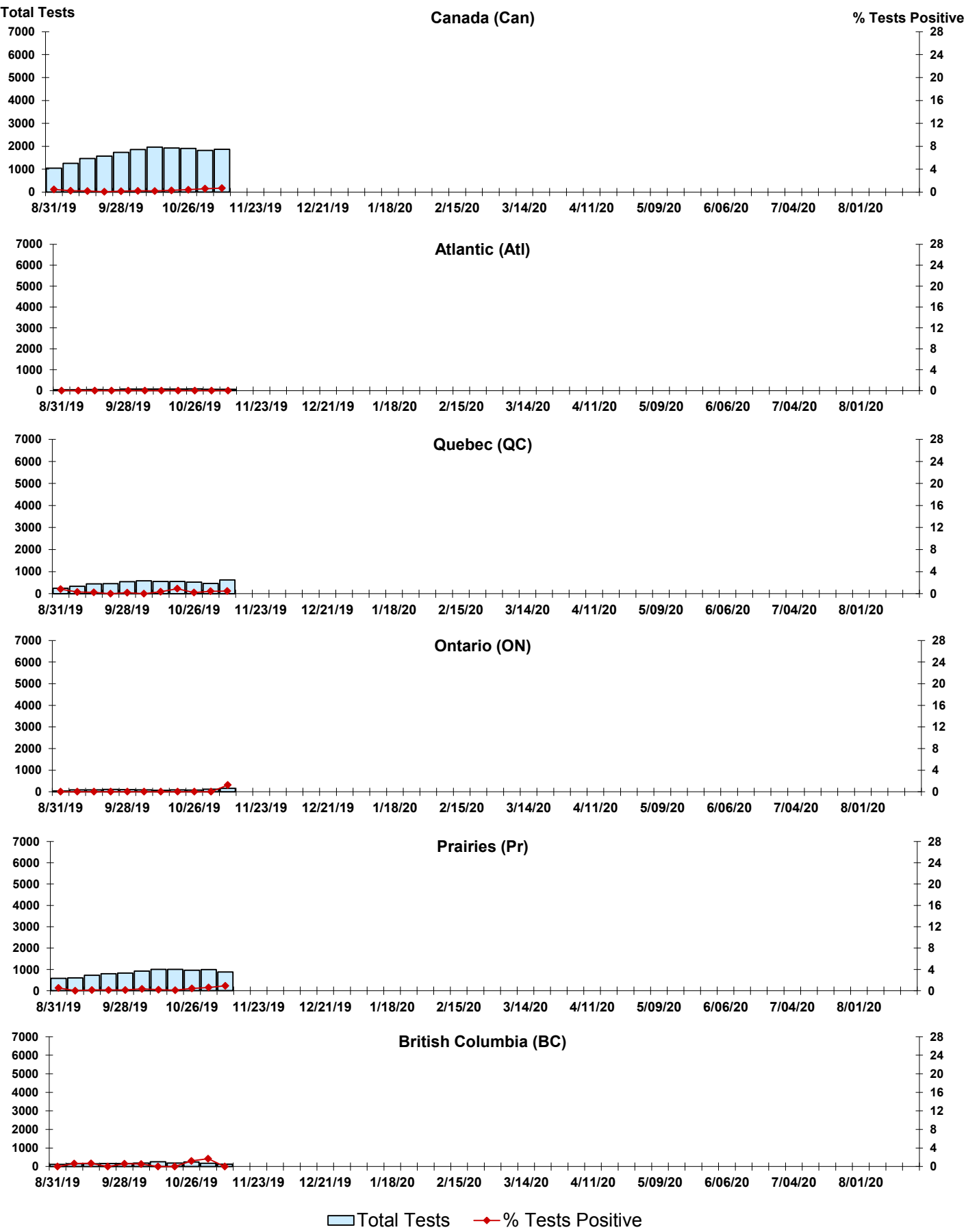


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



Abbreviations:

A(H1N1)pdm09: Influenza A(H1N1)pdm09	HSC: Health Sciences Centre
A(H3): Influenza A(H3N2)	N.A.: Not Applicable
A (UnS): Influenza A (Unsubtyped)	N.R.: Not Reported
Adeno: Adenovirus	P.H.O.L.: Public Health Ontario Laboratory
CHEO: Children's Hospital of Eastern Ontario	PIV: Parainfluenza
Coron: Coronavirus	Rhino: Rhinovirus
Entero: Enterovirus	RSV: Respiratory syncytial virus
hMPV: human metapneumovirus	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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