

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 47 - ending November 23, 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 23, 2019 (Reporting Week 201947)

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	97	0	6	0	6	0	97	0	97	4	0	0	0	0	97	4	97	0	97	11	N.A.	N.A.
Prince Edward Island	35	0	0	0	0	1	35	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	93	0	0	0	0	0	94	2	21	0	0	0	1	0	21	0	21	0	21	2	31	0
New Brunswick	144	0	0	1	1	0	144	6	59	2	2	0	0	0	59	0	59	0	59	9	59	0
Atlantic	369	0	6	1	7	1	370	9	177	6	2	0	1	0	177	4	177	0	177	22	90	0
Région Nord-Est	126	0	0	0	0	0	94	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	284	0	0	0	0	1	298	3	66	0	0	0	1	0	67	3	56	0	N.A.	N.A.	56	0
Centre-du-Québec	247	0	0	7	7	2	195	6	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1030	0	0	42	42	15	982	40	591	9	1	0	0	0	591	11	587	5	N.A.	N.A.	587	5
Ouest du Québec	249	0	0	7	7	10	243	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	192	0	0	5	5	2	192	13	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2128	0	0	61	61	30	2004	73	657	9	1	0	1	0	658	14	643	5	N.A.	N.A.	643	5
P.H.O.L. - Ottawa	17	0	1	0	1	0	17	2	17	0	0	0	0	0	17	0	16	0	17	3	16	0
CHEO - Ottawa	206	0	0	2	2	4	206	11	29	0	0	0	0	0	29	0	29	0	29	9	28	0
P.H.O.L. - Kingston	12	0	0	0	0	0	12	0	12	0	0	0	0	0	12	0	12	0	12	1	12	0
UHN / Mount Sinai Hospital	255	0	0	2	2	0	255	10	17	1	0	1	0	0	0	0	17	1	0	0	N.A.	N.A.
P.H.O.L. - Toronto	278	8	6	0	14	2	275	10	275	0	0	0	0	0	275	7	268	5	275	27	268	0
Sick Kids Hospital - Toronto	59	1	0	0	1	0	59	6	59	3	1	0	3	0	59	1	59	0	59	14	59	0
Sunnybrook & Women's College HSC	38	0	2	0	2	0	38	1	38	0	0	0	0	0	38	0	38	1	38	0	38	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	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	7	0	7	0
St. Joseph's - London	108	0	0	1	1	0	108	3	32	1	0	0	1	0	32	0	32	0	11	6	11	0
P.H.O.L. - London	121	1	0	0	1	0	120	8	120	0	0	0	0	0	120	1	118	1	120	28	118	0
P.H.O.L. - Orillia	44	0	2	0	2	0	44	0	44	0	0	0	0	0	44	0	44	0	44	8	44	0
P.H.O.L. - Thunder Bay	8	0	0	0	0	1	8	0	8	0	0	0	0	0	8	0	7	0	8	1	7	0
P.H.O.L. - Sudbury	19	0	0	0	0	0	19	0	19	0	0	0	0	0	19	1	19	0	19	2	19	0
P.H.O.L. - Hamilton	90	1	0	0	1	1	90	3	90	0	0	0	0	0	90	2	90	0	90	18	90	0
P.H.O.L. - Peterborough	24	0	0	0	0	0	24	1	24	0	0	0	0	0	24	0	24	0	24	9	24	0
Province of Ontario	1291	11	11	5	27	8	1287	55	796	5	1	1	4	0	779	12	785	8	758	126	746	0
Manitoba	259	5	1	2	8	6	241	7	96	2	0	0	1	0	96	2	85	2	96	21	85	1
Regina	194	0	0	6	6	2	194	0	134	11	0	0	0	0	134	3	164	0	134	31	134	1
Saskatoon	139	0	0	7	7	2	139	0	139	9	0	0	0	0	139	3	139	0	139	15	139	1
Saskatchewan	333	0	0	13	13	4	333	0	273	20	0	0	0	0	273	6	303	0	273	46	273	2
Alberta	812	15	21	13	49	61	650	0	650	14	0	0	5	0	650	13	650	8	650	84	650	7
Prairies	1404	20	22	28	70	71	1224	7	1019	36	0	0	6	0	1019	21	1038	10	1019	151	1008	10
Province of British Columbia	724	1	1	6	18	5	721	26	193	10	3	0	0	1	193	1	193	2	182	33	135	0
Yukon	35	0	0	0	0	0	35	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	22	0	0	0	0	0	22	0	22	0	0	0	0	0	22	0	22	1	22	7	22	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1	0
Territories	58	0	0	0	0	0	58	0	23	0	0	0	0	0	23	0	23	1	23	8	23	0
CANADA	5974	32	40	101	183	115	5664	170	2865	66	7	1	12	1	2849	52	2859	26	2159	340	2645	15

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.

Table 2: Respiratory Virus Detections/Isolations for the period August 25, 2019 - November 23, 2019 (Reporting Weeks 201935-201947)

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	874	0	15	2	17	1	874	1	874	32	0	3	0	0	874	24	874	1	874	206	N.A.	N.A.
Prince Edward Island	159	0	0	1	1	2	159	1	15	0	0	0	0	0	15	0	15	0	15	9	15	0
Nova Scotia	572	0	0	2	2	1	579	2	203	11	1	1	1	0	208	4	208	0	208	49	218	0
New Brunswick	1574	2	2	7	11	2	1515	12	642	26	2	0	2	0	642	21	642	0	642	166	642	0
Atlantic	3179	2	17	12	31	6	3127	16	1734	69	3	4	3	0	1739	49	1739	1	1739	430	875	0
Région Nord-Est	678	0	0	0	0	0	562	5	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	1472	0	0	7	7	2	1672	8	1065	8	3	1	4	0	1092	30	899	2	N.A.	N.A.	904	1
Centre-du-Québec	1249	0	0	16	16	5	1097	13	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	8339	0	0	111	111	36	8336	157	5688	77	3	5	6	0	5688	214	5292	16	N.A.	N.A.	5602	27
Ouest du Québec	1752	0	0	75	75	12	1724	38	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	1296	0	0	22	22	3	1294	50	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	14786	0	0	231	231	58	14685	271	6753	85	6	6	10	0	6780	244	6191	18	N.A.	N.A.	6506	28
P.H.O.L. - Ottawa	242	0	8	0	8	0	240	3	215	2	0	0	0	0	215	1	210	0	59	13	53	0
CHEO - Ottawa	1682	0	0	13	13	10	1682	47	335	1	0	3	6	0	335	6	335	0	338	98	326	1
P.H.O.L. - Kingston	231	0	1	0	1	0	231	1	227	1	0	0	0	0	227	5	224	0	58	11	51	0
UHN / Mount Sinai Hospital	2766	0	0	15	15	7	2766	30	215	3	0	7	2	0	0	0	215	6	0	0	N.A.	N.A.
P.H.O.L. - Toronto	3666	15	30	0	45	7	3660	40	3580	34	0	3	0	0	3580	31	3480	20	1036	107	916	0
Sick Kids Hospital - Toronto	562	1	1	0	2	1	562	25	562	17	5	1	9	0	562	8	562	7	562	185	562	3
Sunnybrook & Women's College HSC	207	0	2	0	2	0	207	1	207	3	0	0	0	0	207	2	207	1	207	13	207	0
P.H.O.L. - Sault Ste. Marie	75	0	0	0	0	0	75	0	75	1	0	0	0	0	75	0	74	0	24	0	23	0
P.H.O.L. - Timmins	46	0	0	0	0	0	46	0	46	0	0	0	0	0	46	0	46	0	18	0	16	0
St. Joseph's - London	457	0	0	2	2	0	457	10	275	10	1	0	2	0	275	4	275	1	203	55	182	0
P.H.O.L. - London	815	3	2	0	5	0	812	26	797	8	0	0	0	0	797	10	780	1	341	58	312	0
P.H.O.L. - Orillia	310	0	4	0	4	0	310	1	307	4	0	0	0	0	307	2	306	0	116	22	113	0
P.H.O.L. - Thunder Bay	77	0	0	0	0	1	75	0	75	0	0	1	0	0	75	1	67	0	27	5	18	0
P.H.O.L. - Sudbury	110	0	0	0	0	0	109	0	109	0	0	1	0	0	109	3	102	0	37	2	29	0
P.H.O.L. - Hamilton	960	2	5	0	7	2	953	14	930	10	1	0	0	0	930	9	918	1	335	63	319	0
P.H.O.L. - Peterborough	338	0	0	0	0	2	335	6	334	3	0	0	0	0	333	3	333	1	79	17	76	0
Province of Ontario	12544	21	53	30	104	30	12520	204	8289	97	7	16	19	0	8073	85	8134	38	3440	649	3203	4
Manitoba	2991	10	10	14	34	30	2973	32	1753	16	1	3	2	0	1753	34	943	5	1753	352	943	6
Regina	2601	0	0	42	42	5	2601	8	1471	39	0	1	6	0	1471	30	1394	2	1471	471	1471	3
Saskatoon	1570	0	0	18	18	7	1570	8	1570	62	4	3	1	0	1570	42	1573	1	1570	414	1570	5
Saskatchewan	4171	0	0	60	60	12	4171	16	3041	101	4	4	7	0	3041	72	2967	3	3041	885	3041	8
Alberta	8519	59	135	81	275	154	7267	0	7267	162	16	13	38	0	7267	140	7267	42	7267	1969	7267	33
Prairies	15681	69	145	155	369	196	14411	48	12061	279	21	20	47	0	12061	246	11177	50	12061	3206	11251	47
Province of British Columbia	6796	12	74	65	203	14	6728	104	2720	86	21	15	15	5	2720	22	2694	90	2459	691	2411	17
Yukon	526	0	8	3	11	0	526	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	169	4	0	1	5	0	165	0	165	0	0	1	0	0	165	3	165	6	165	74	165	1
Nunavut	33	0	0	0	0	0	31	0	31	0	3	0	1	0	31	4	31	0	31	15	31	0
Territories	728	4	8	4	16	0	722	0	196	0	3	1	1	0	196	7	196	6	196	89	196	1
CANADA	53714	108	297	497	954	304	52193	643	31753	616	61	62	95	5	31569	653	30131	203	19895	5065	24442	97

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

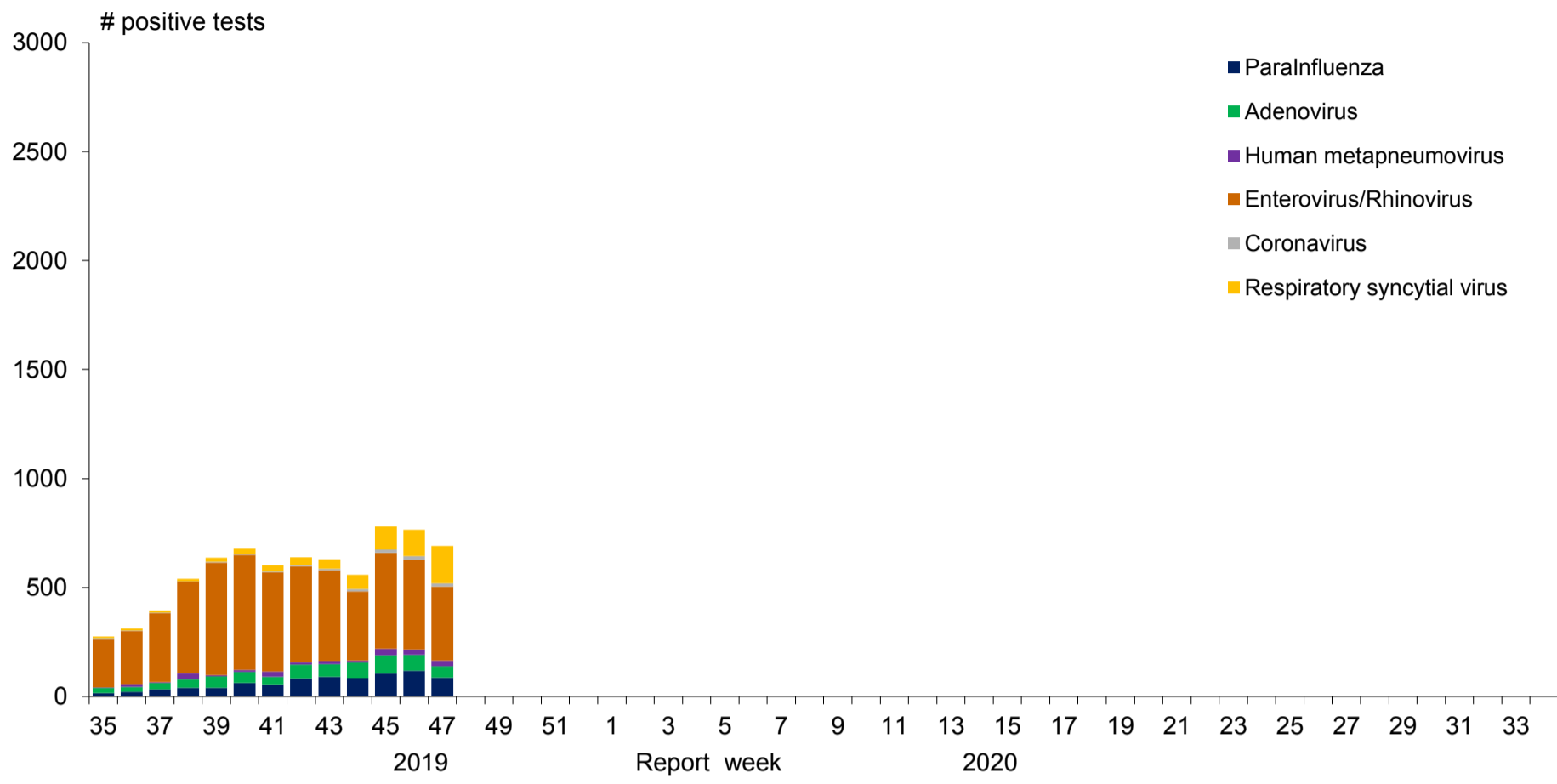


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

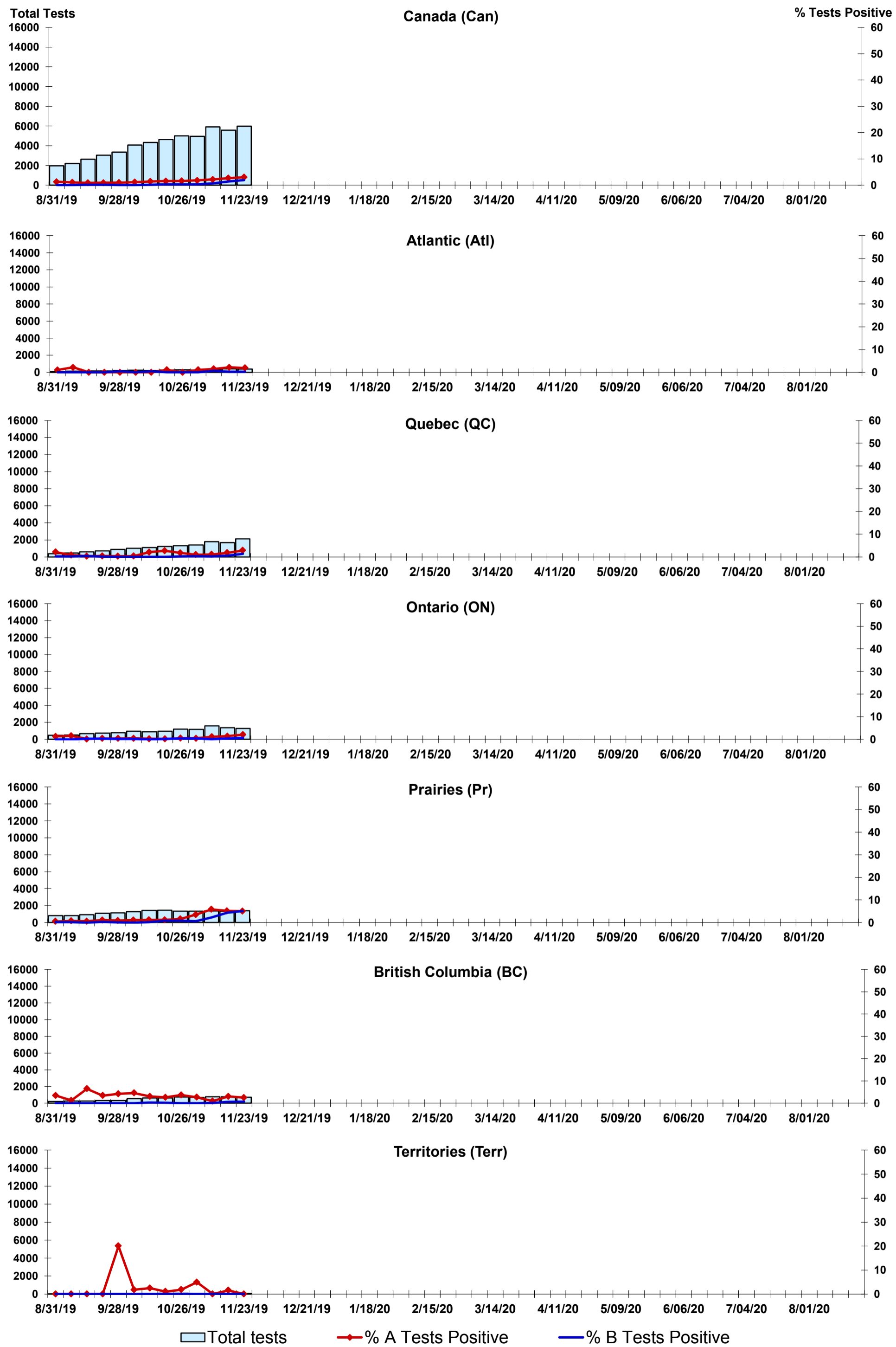


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

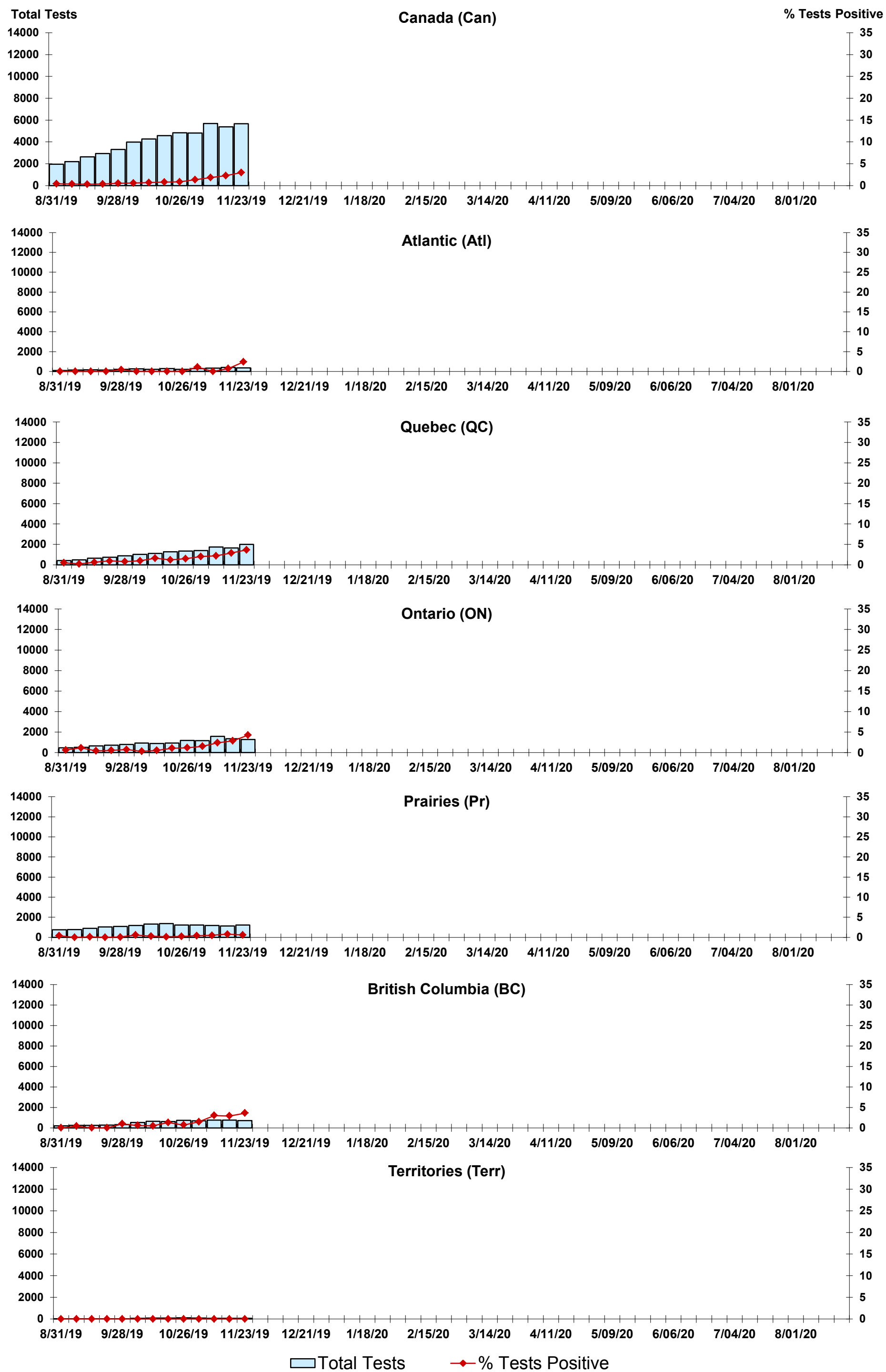


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

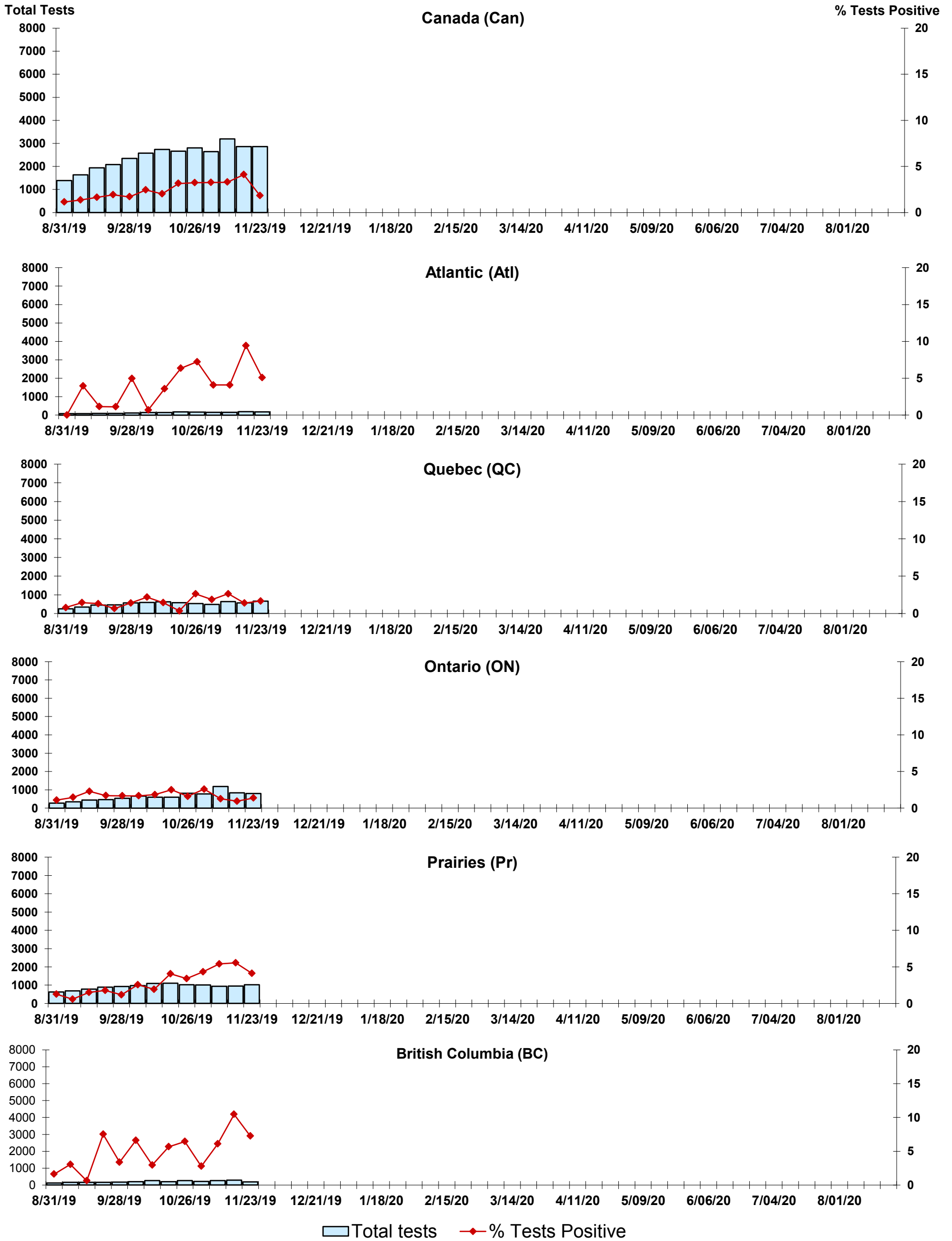


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

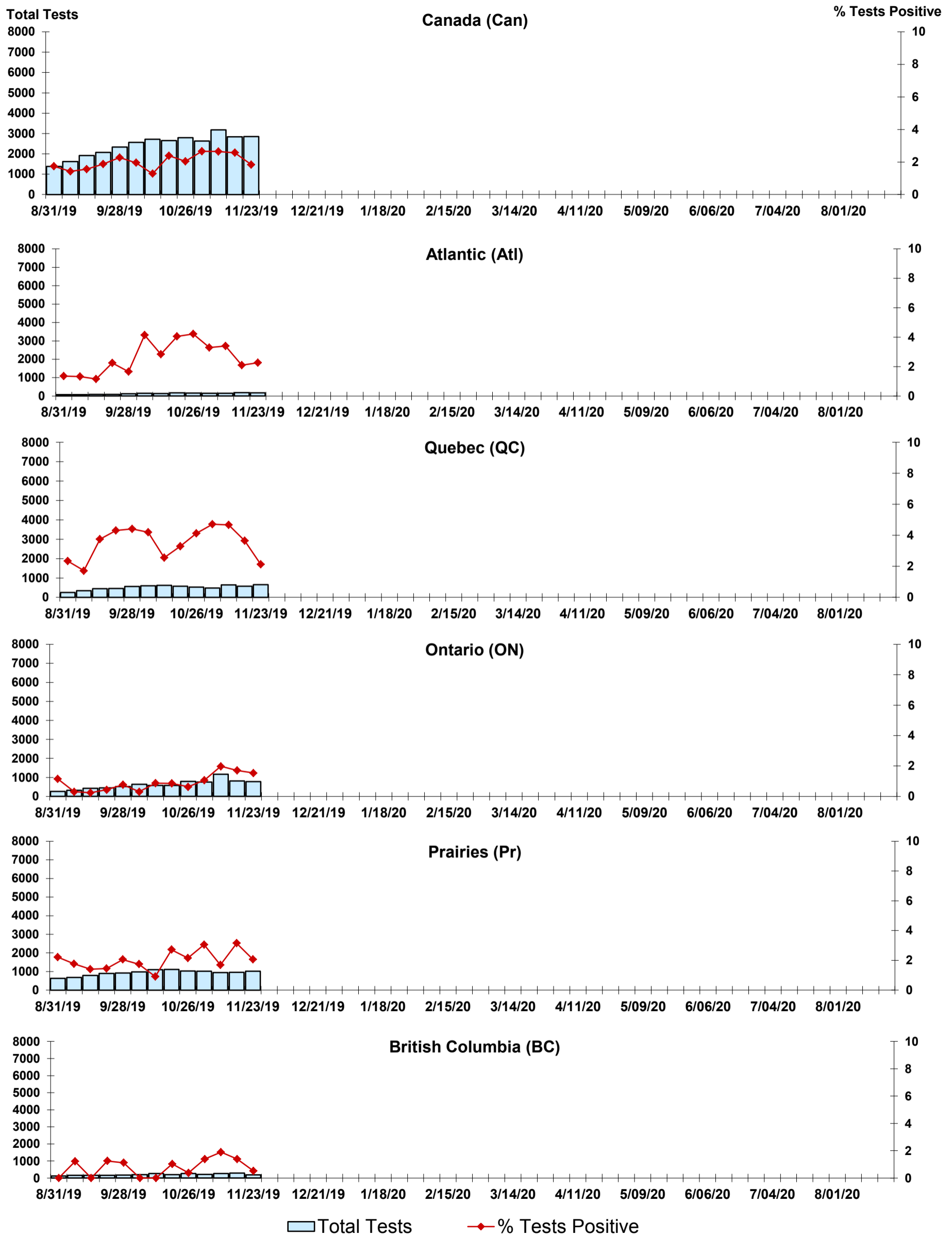


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

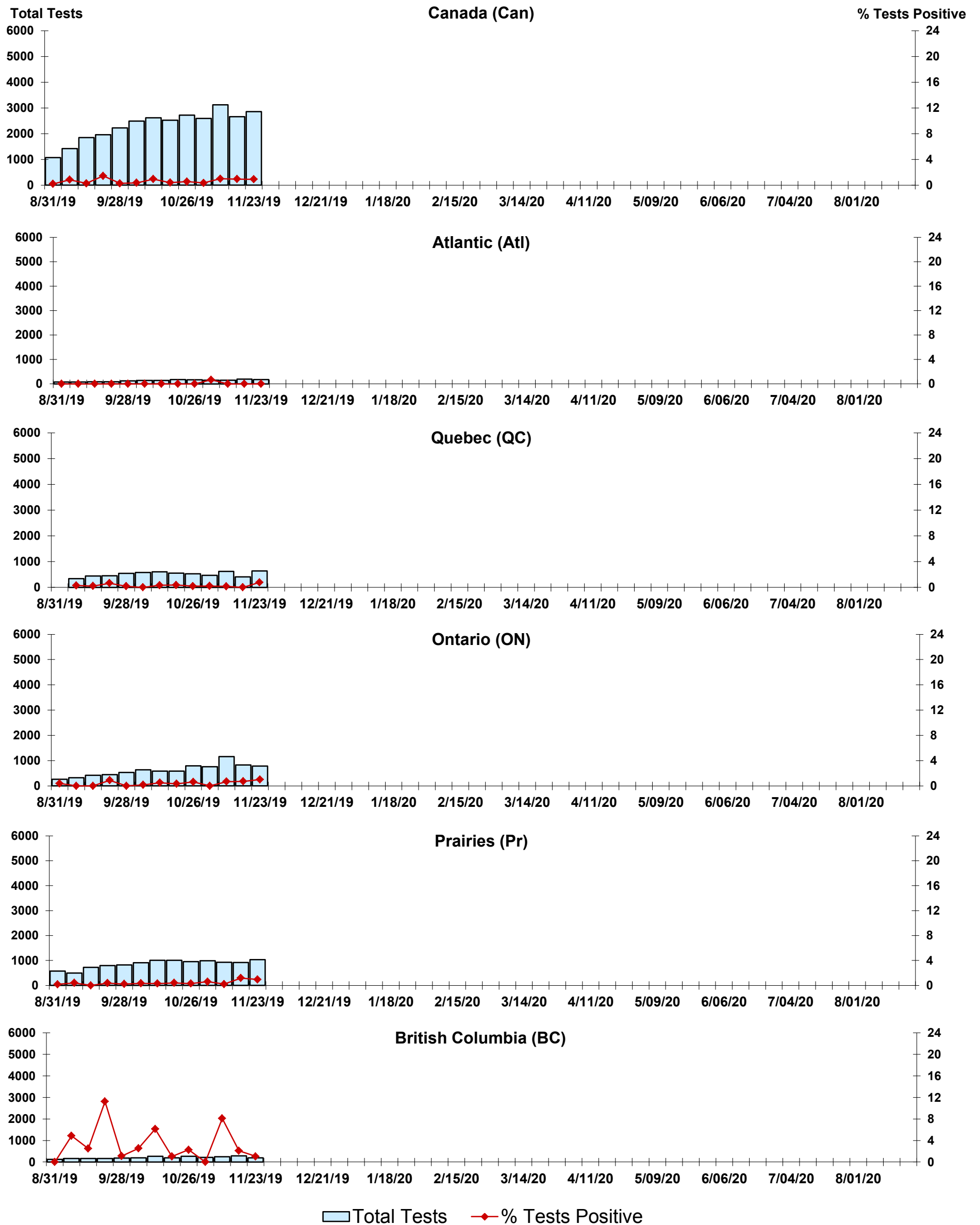


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

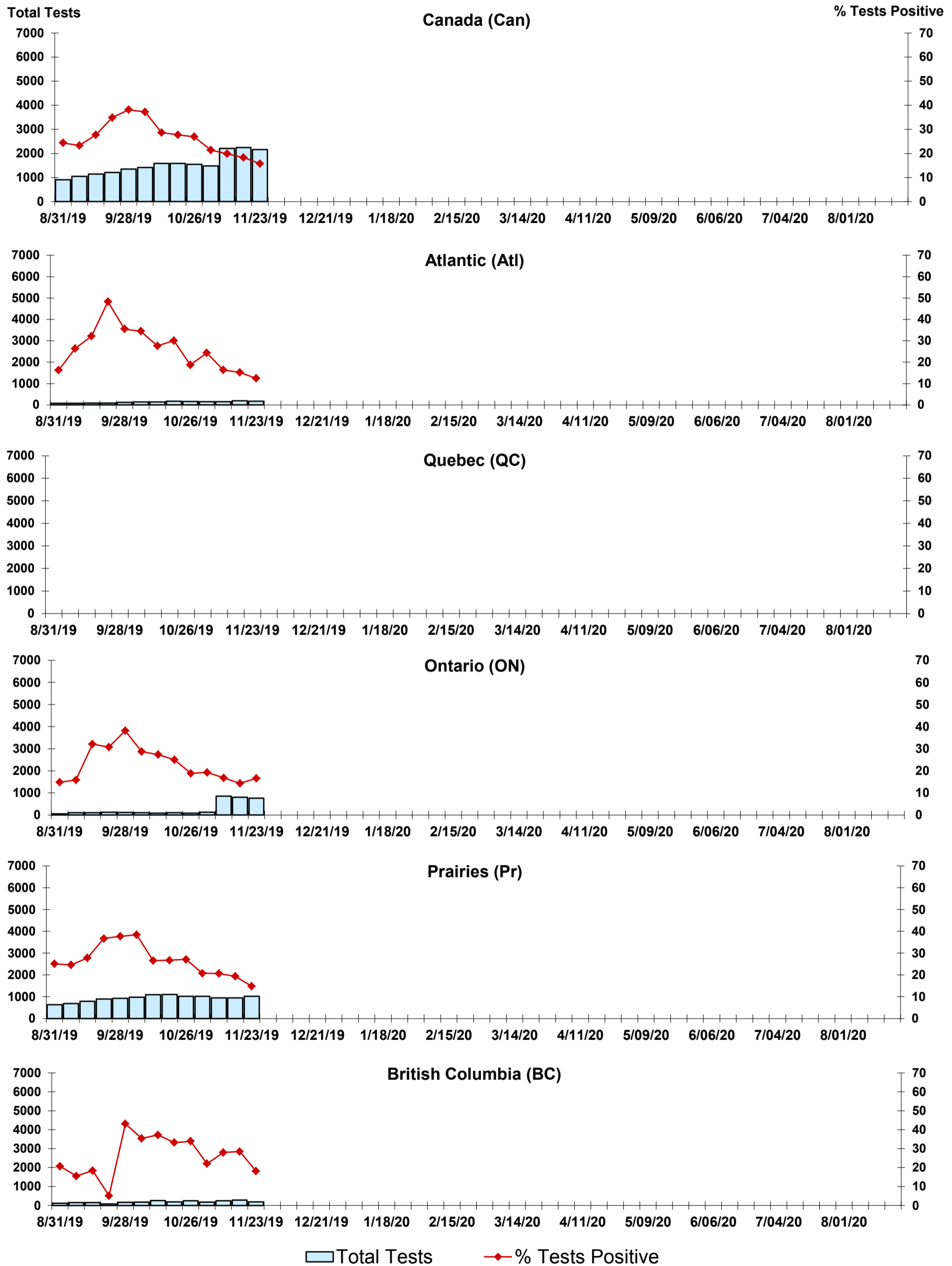
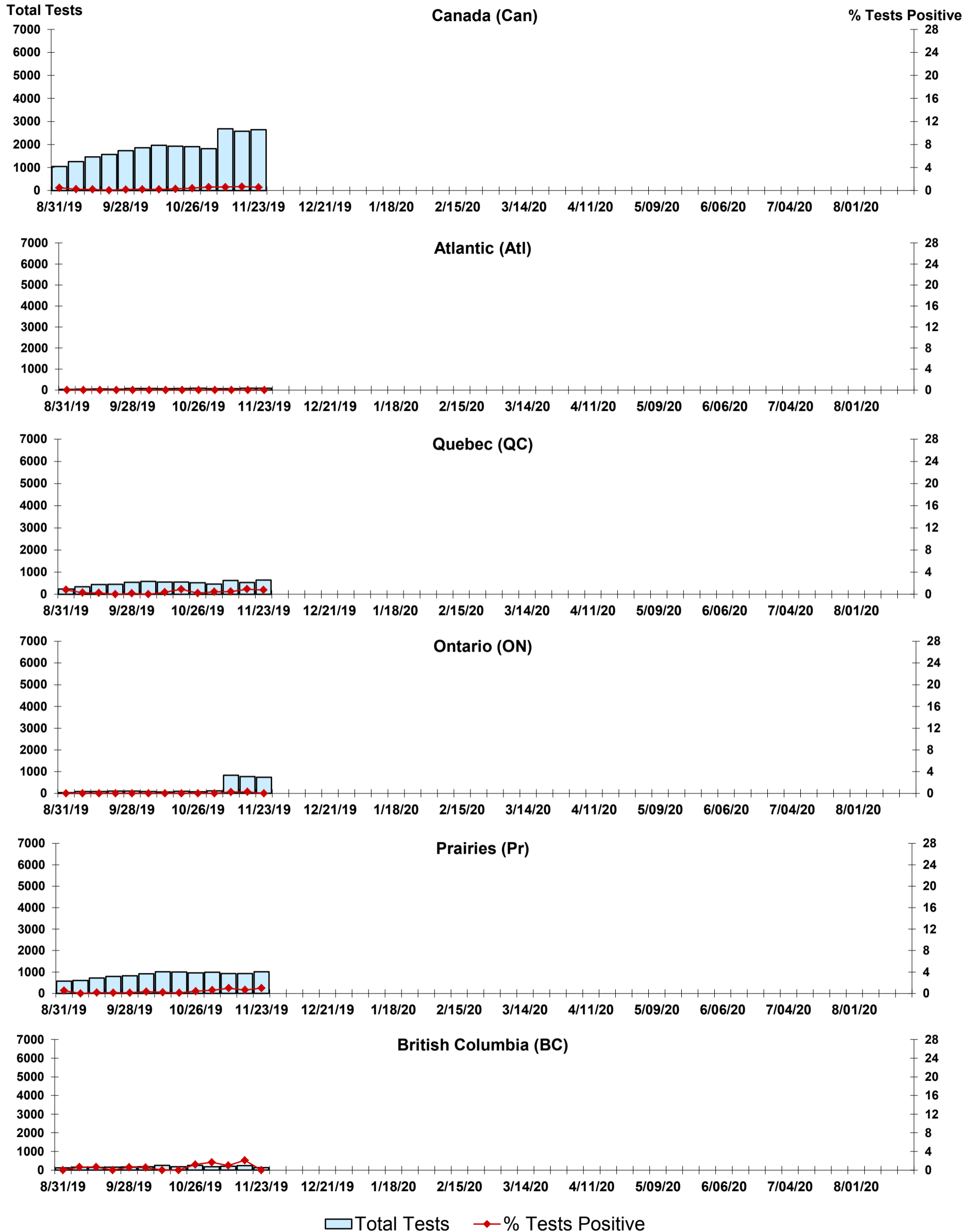


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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

Enterovirus: 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.

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.