

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 42 - ending October 19, 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 October 19, 2019 (Reporting Week 201942)

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	96	0	1	0	1	0	96	0	96	3	0	2	0	0	96	2	96	0	96	27	N.A.	N.A.
Prince Edward Island	15	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	52	0	0	1	1	0	52	0	19	1	0	0	0	0	19	2	19	0	19	2	19	0
New Brunswick	119	0	0	1	1	0	119	0	58	2	0	0	2	0	58	1	58	0	58	20	58	0
Atlantic	282	0	1	2	3	0	282	0	173	6	0	2	2	0	173	5	173	0	173	49	77	0
Région Nord-Est	44	0	0	1	1	0	39	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	78	0	0	0	0	0	90	0	106	0	0	0	0	0	109	0	89	1	N.A.	N.A.	89	0
Centre-du-Québec	81	0	0	0	0	1	67	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	703	0	0	8	8	0	720	10	469	2	0	0	0	0	469	19	462	1	N.A.	N.A.	462	5
Ouest du Québec	206	0	0	24	24	0	206	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	117	0	0	2	2	0	117	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1229	0	0	35	35	1	1239	15	575	2	0	0	0	0	578	19	551	2	N.A.	N.A.	551	5
P.H.O.L. - Ottawa	19	0	0	0	0	0	19	0	10	0	0	0	0	0	10	0	9	0	1	0	0	0
CHEO - Ottawa	143	0	0	1	1	0	143	1	30	0	0	0	3	0	30	2	30	0	30	12	28	0
P.H.O.L. - Kingston	18	0	1	0	1	0	18	0	17	1	0	0	0	0	17	0	17	0	0	0	0	0
UHN / Mount Sinai Hospital	223	0	0	0	0	1	223	4	15	0	0	0	0	0	0	0	15	1	0	0	N.A.	N.A.
P.H.O.L. - Toronto	265	0	0	0	0	0	265	0	251	5	0	0	0	0	251	0	242	0	9	0	0	0
Sick Kids Hospital - Toronto	54	0	0	0	0	0	54	2	54	1	1	0	0	0	54	2	54	1	54	15	54	0
Sunnybrook & Women's College HSC	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	9	0	9	0
P.H.O.L. - Sault Ste. Marie	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
P.H.O.L. - Timmins	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	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	55	0	0	0	0	0	55	1	55	1	0	0	0	0	55	0	55	0	0	0	0	0
P.H.O.L. - Orillia	13	0	0	0	0	0	13	0	10	0	0	0	0	0	10	0	10	0	0	0	0	0
P.H.O.L. - Thunder Bay	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
P.H.O.L. - Sudbury	8	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	6	0	1	0	0	0
P.H.O.L. - Hamilton	91	0	0	0	0	0	91	0	83	3	0	0	0	0	83	0	83	0	0	0	0	0
P.H.O.L. - Peterborough	36	0	0	0	0	0	36	2	36	0	0	0	0	0	36	1	36	0	0	0	0	0
Province of Ontario	946	0	1	1	2	1	945	10	589	11	1	0	3	0	574	5	578	2	104	27	91	0
Manitoba	313	0	0	0	0	3	313	1	192	1	0	0	1	0	192	3	89	0	192	33	89	0
Regina	259	0	0	2	2	1	259	0	118	1	0	0	2	0	118	2	118	0	118	60	118	0
Saskatoon	168	0	0	0	0	0	168	1	168	12	0	1	0	0	168	9	168	0	168	49	168	1
Saskatchewan	427	0	0	2	2	1	427	1	286	13	0	1	2	0	286	11	286	0	286	109	286	1
Alberta	695	1	8	4	13	7	612	0	612	18	3	0	4	0	612	15	612	4	612	149	612	0
Prairies	1435	1	8	6	15	11	1352	2	1090	32	3	1	7	0	1090	29	987	4	1090	291	987	1
Province of British Columbia	620	0	1	9	16	1	620	8	194	6	2	2	1	0	194	2	194	2	184	61	184	0
Yukon	80	0	0	1	1	0	80	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	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	9	3	9	0
Nunavut	3	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	0	2	1	2	0
Territories	92	0	0	1	1	0	91	0	11	0	0	0	0	0	11	0	11	0	11	4	11	0
CANADA	4604	1	11	54	72	14	4529	35	2632	57	6	5	13	0	2620	60	2494	10	1562	432	1901	6

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 - October 19, 2019 (Reporting Weeks 201935-201942)

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/Rhinopositive	Coron Tested	Coron Positive
Newfoundland	425	0	1	0	1	0	425	0	425	10	0	2	0	0	425	5	425	0	425	133	N.A.	N.A.
Prince Edward Island	39	0	0	0	0	0	39	0	8	0	0	0	0	0	8	0	8	0	8	5	8	0
Nova Scotia	199	0	0	1	1	1	204	0	116	5	0	1	0	0	116	3	116	0	116	32	116	0
New Brunswick	844	1	1	3	5	1	844	1	357	7	0	0	2	0	357	14	357	0	357	114	357	0
Atlantic	1507	1	2	4	7	2	1512	1	906	22	0	3	2	0	906	22	906	0	906	284	481	0
Région Nord-Est	228	0	0	1	1	0	202	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	490	0	0	1	1	0	584	0	654	3	2	1	0	0	673	13	542	1	N.A.	N.A.	548	0
Centre-du-Québec	330	0	0	2	2	1	301	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	4199	0	0	28	28	5	4289	44	3210	37	1	2	2	0	3210	121	2982	9	N.A.	N.A.	3163	12
Ouest du Québec	663	0	0	44	44	0	646	8	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréalégie	499	0	0	6	6	1	497	11	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	6409	0	0	82	82	7	6519	64	3864	40	3	3	2	0	3883	134	3524	10	N.A.	N.A.	3711	12
P.H.O.L. - Ottawa	119	0	0	0	0	0	117	0	108	1	0	0	0	0	108	0	104	0	5	0	0	0
CHEO - Ottawa	801	0	0	2	2	1	801	11	189	0	0	2	5	0	189	4	189	0	192	62	184	0
P.H.O.L. - Kingston	125	0	1	0	1	0	125	1	124	1	0	0	0	0	124	0	122	0	5	1	0	0
UHN / Mount Sinai Hospital	1495	0	0	9	9	5	1495	10	130	0	0	6	2	0	0	0	130	3	0	0	N.A.	N.A.
P.H.O.L. - Toronto	1736	1	12	0	13	1	1736	2	1690	22	0	2	0	0	1690	6	1631	1	75	0	0	0
Sick Kids Hospital - Toronto	308	0	0	0	0	0	308	8	308	9	1	0	3	0	308	4	308	6	308	118	308	0
Sunnybrook & Women's College HSC	51	0	0	0	0	0	51	0	51	0	0	0	0	0	51	0	51	0	51	5	51	0
P.H.O.L. - Sault Ste. Marie	33	0	0	0	0	0	33	0	33	0	0	0	0	0	33	0	32	0	1	0	0	0
P.H.O.L. - Timmins	19	0	0	0	0	0	19	0	19	0	0	0	0	0	19	0	19	0	1	0	0	0
St. Joseph's - London	117	0	0	0	0	0	117	1	117	2	1	0	0	0	117	3	117	0	116	37	115	0
P.H.O.L. - London	340	0	0	0	0	0	340	2	335	5	0	0	0	0	335	2	324	0	20	0	0	0
P.H.O.L. - Orillia	130	0	1	0	1	0	130	0	126	2	0	0	0	0	126	0	125	0	1	0	0	0
P.H.O.L. - Thunder Bay	40	0	0	0	0	0	40	0	40	0	0	1	0	0	40	0	34	0	6	0	0	0
P.H.O.L. - Sudbury	49	0	0	0	0	0	47	0	47	0	0	1	0	0	47	1	40	0	8	0	0	0
P.H.O.L. - Hamilton	428	1	2	0	3	1	422	3	411	5	1	0	0	0	411	2	405	1	9	0	0	0
P.H.O.L. - Peterborough	168	0	0	0	0	0	165	2	165	0	0	0	0	0	165	1	165	0	3	0	0	0
Province of Ontario	5959	2	16	11	29	8	5946	40	3893	47	3	12	10	0	3763	23	3796	11	801	223	658	0
Manitoba	1771	0	1	1	2	5	1771	6	1195	5	1	1	1	0	1195	17	539	2	1195	223	539	1
Regina	1616	0	0	15	15	1	1616	5	897	5	0	0	2	0	897	10	790	0	897	291	897	0
Saskatoon	865	0	0	1	1	0	865	7	865	25	1	2	1	0	865	26	868	0	865	287	865	2
Saskatchewan	2481	0	0	16	16	1	2481	12	1762	30	1	2	3	0	1762	36	1658	0	1762	578	1762	2
Alberta	4643	4	42	18	64	13	4129	0	4129	62	13	9	12	0	4129	72	4129	16	4129	1380	4129	9
Prairies	8895	4	43	35	82	19	8381	18	7086	97	15	12	16	0	7086	125	6326	18	7086	2181	6430	12
Province of British Columbia	3123	4	52	36	110	3	3068	18	1497	35	9	10	5	0	1497	8	1487	56	1327	387	1410	4
Yukon	241	0	7	2	9	0	241	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	80	0	0	0	0	0	79	0	79	0	0	0	0	0	79	0	79	2	79	49	79	1
Nunavut	20	0	0	0	0	0	19	0	19	0	3	0	0	0	19	2	19	0	19	9	19	0
Territories	341	0	7	2	9	0	339	0	98	0	3	0	0	0	98	2	98	2	98	58	98	1
CANADA	26234	11	120	170	319	39	25765	141	17344	241	33	40	35	0	17233	314	16137	97	10218	3133	12788	29

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

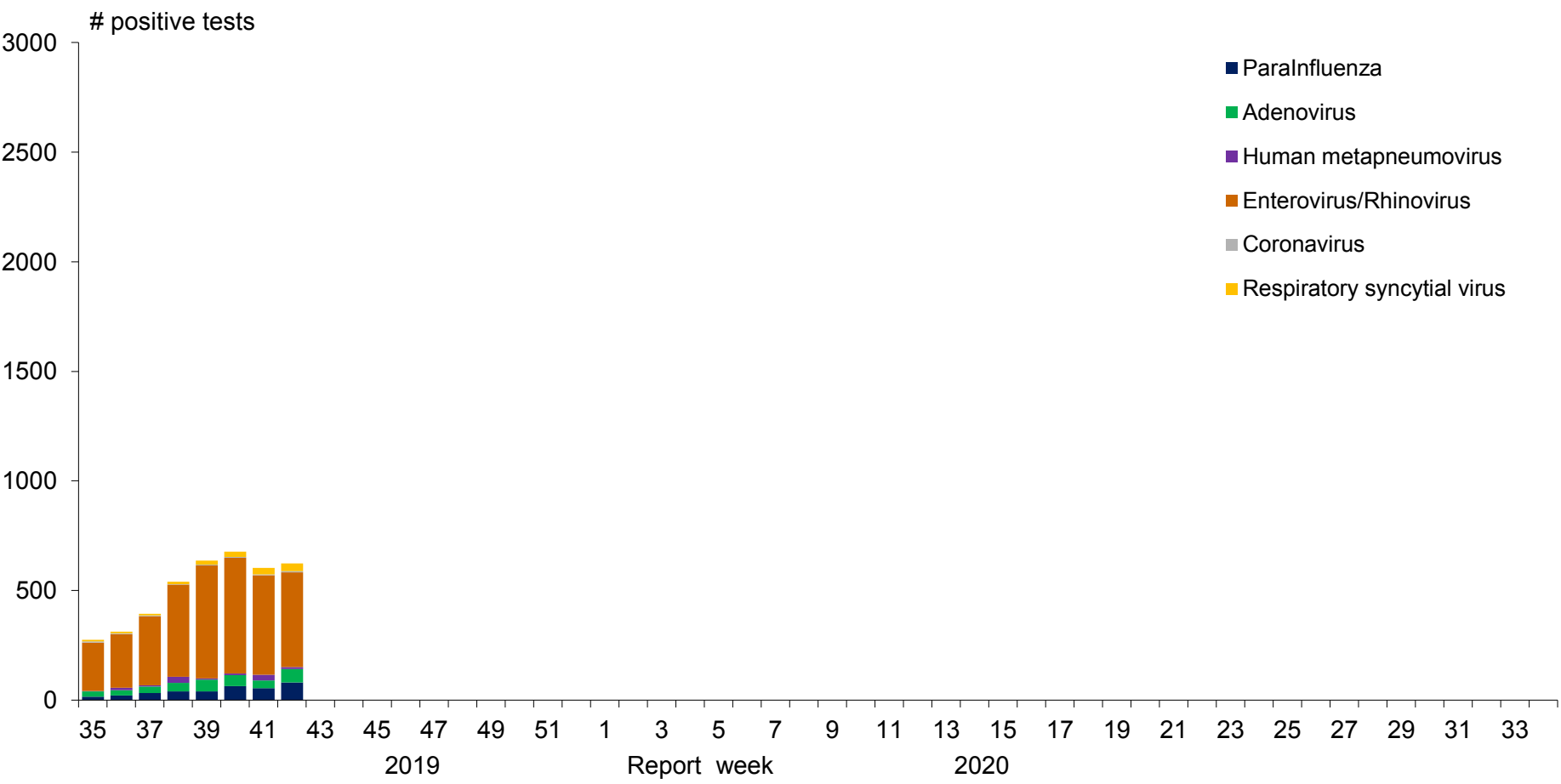


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

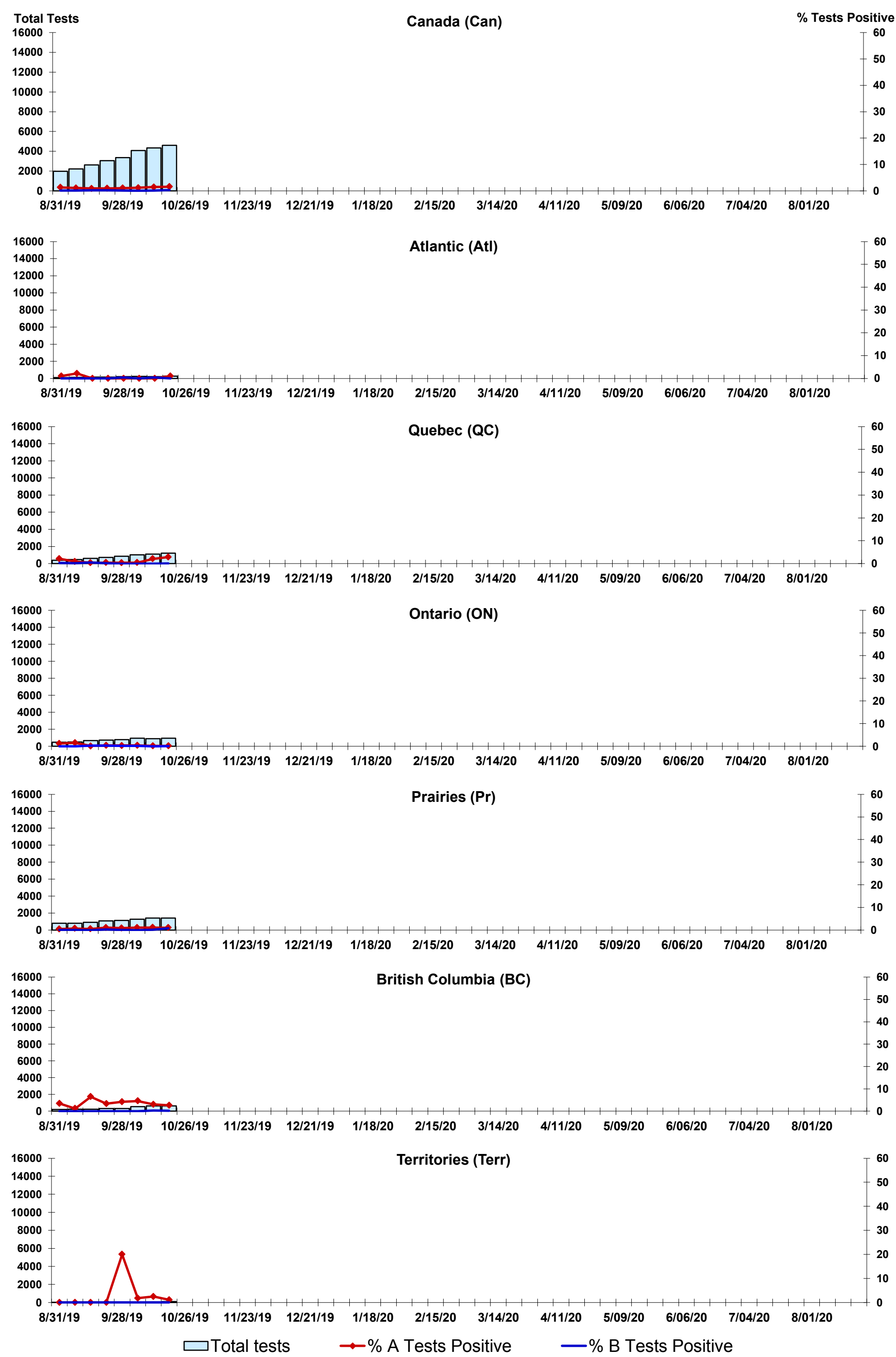


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

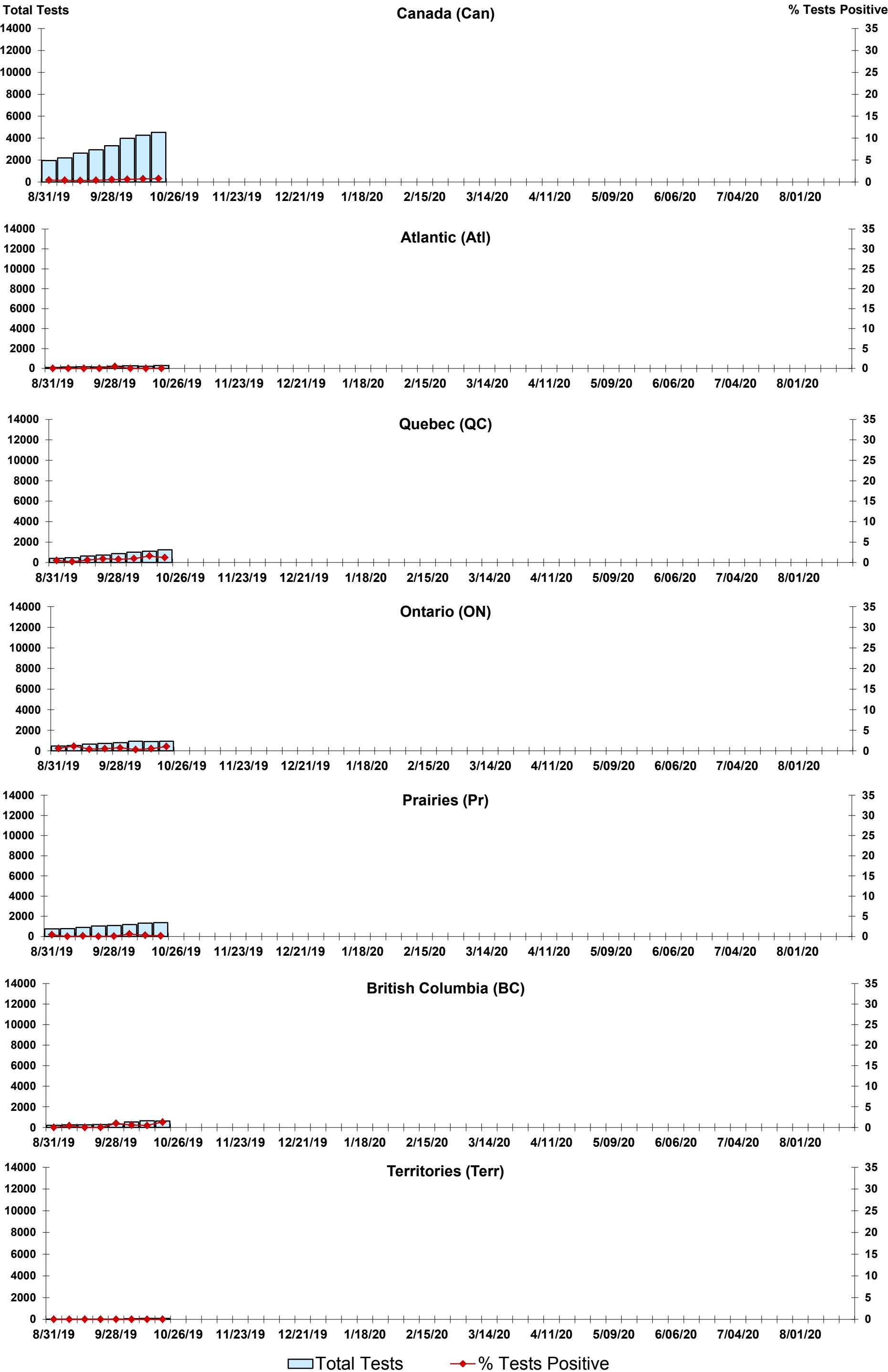


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

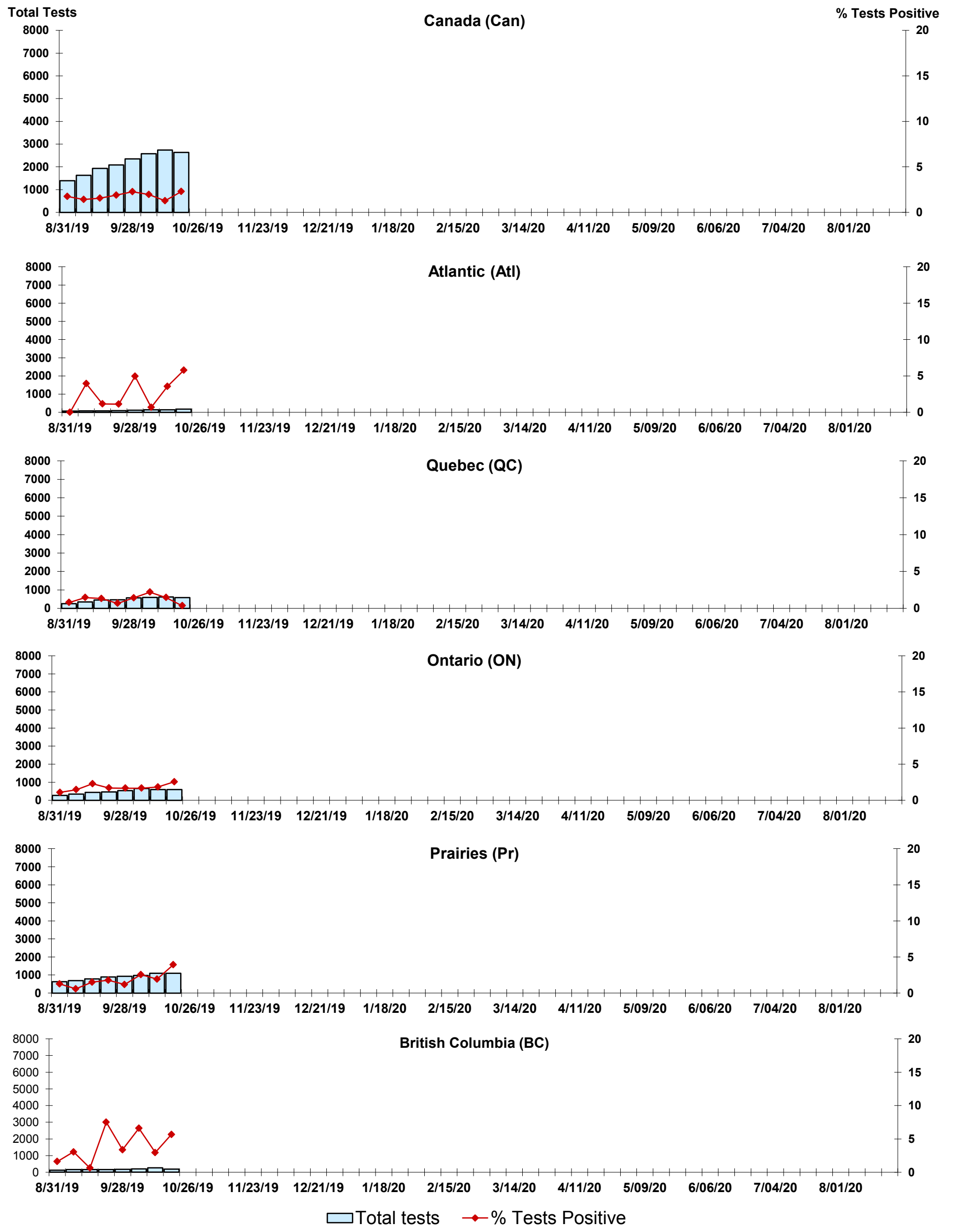


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

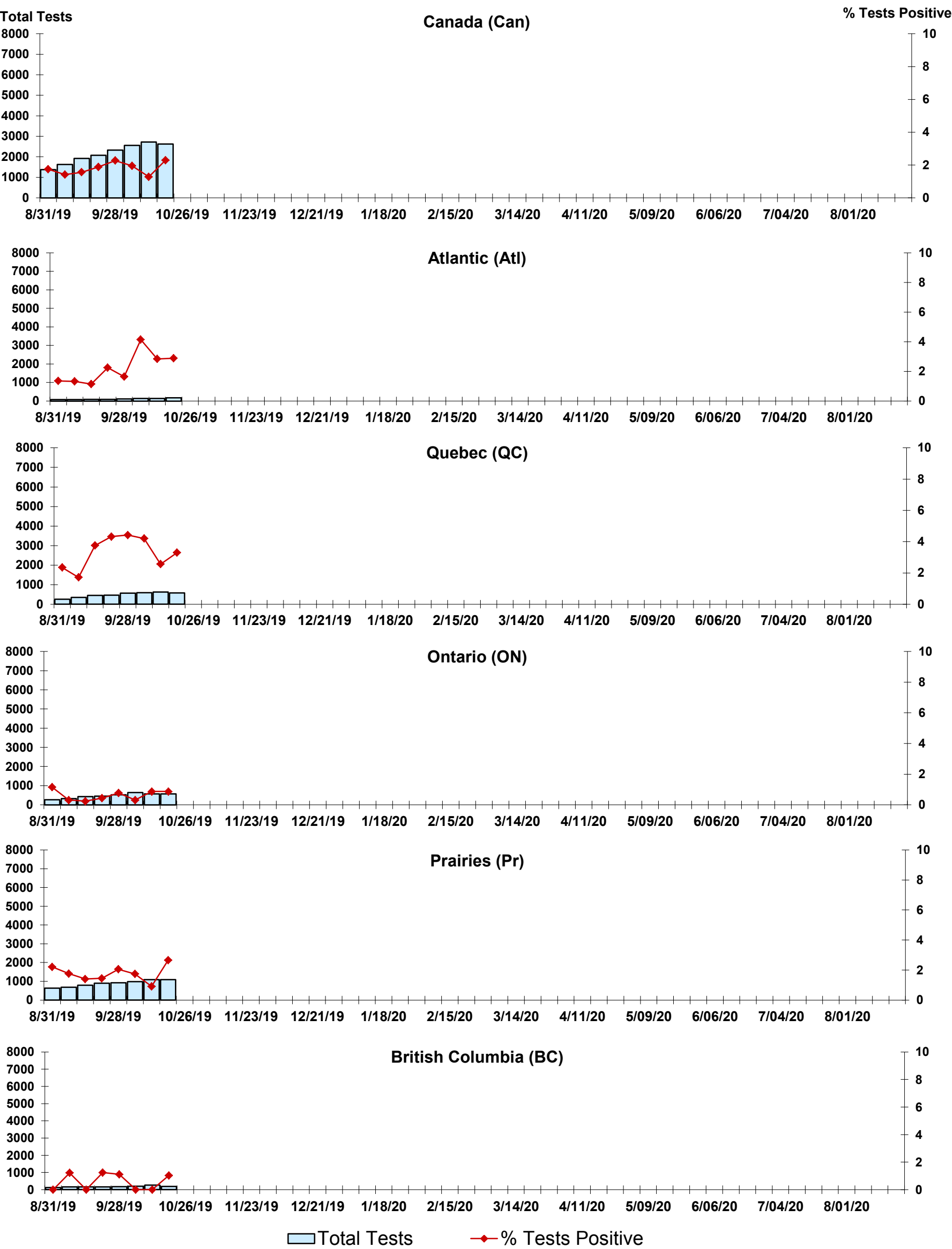


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

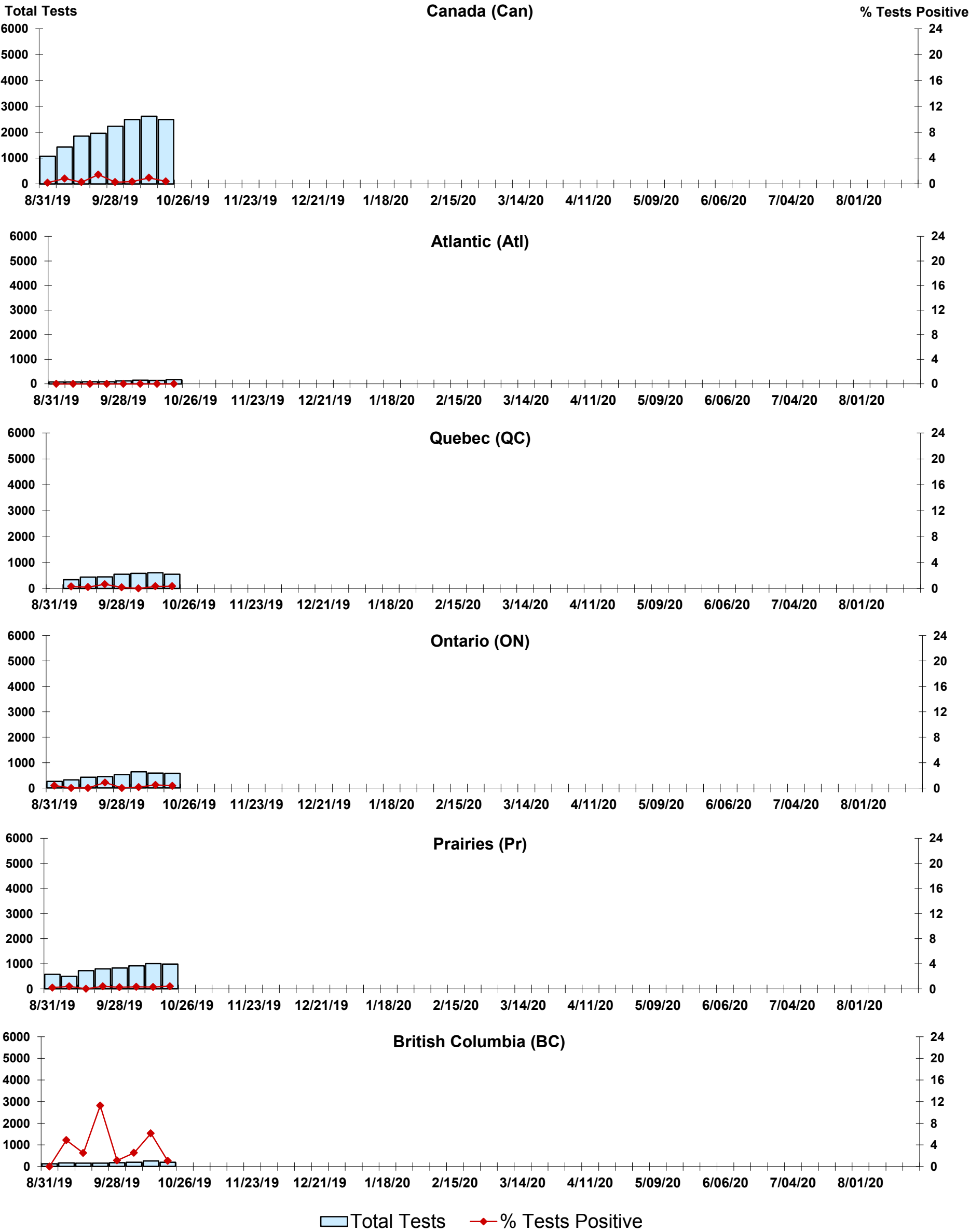


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

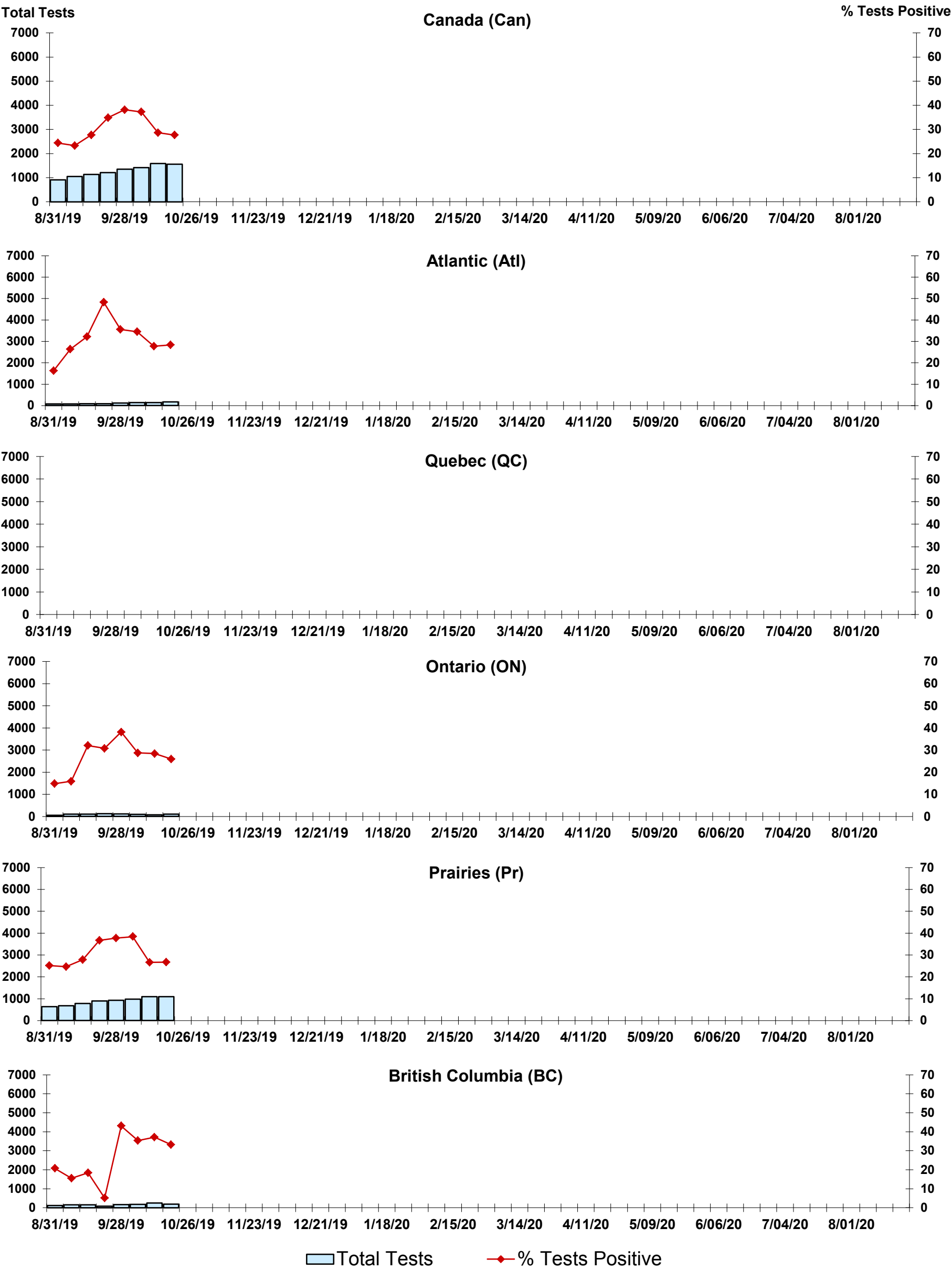
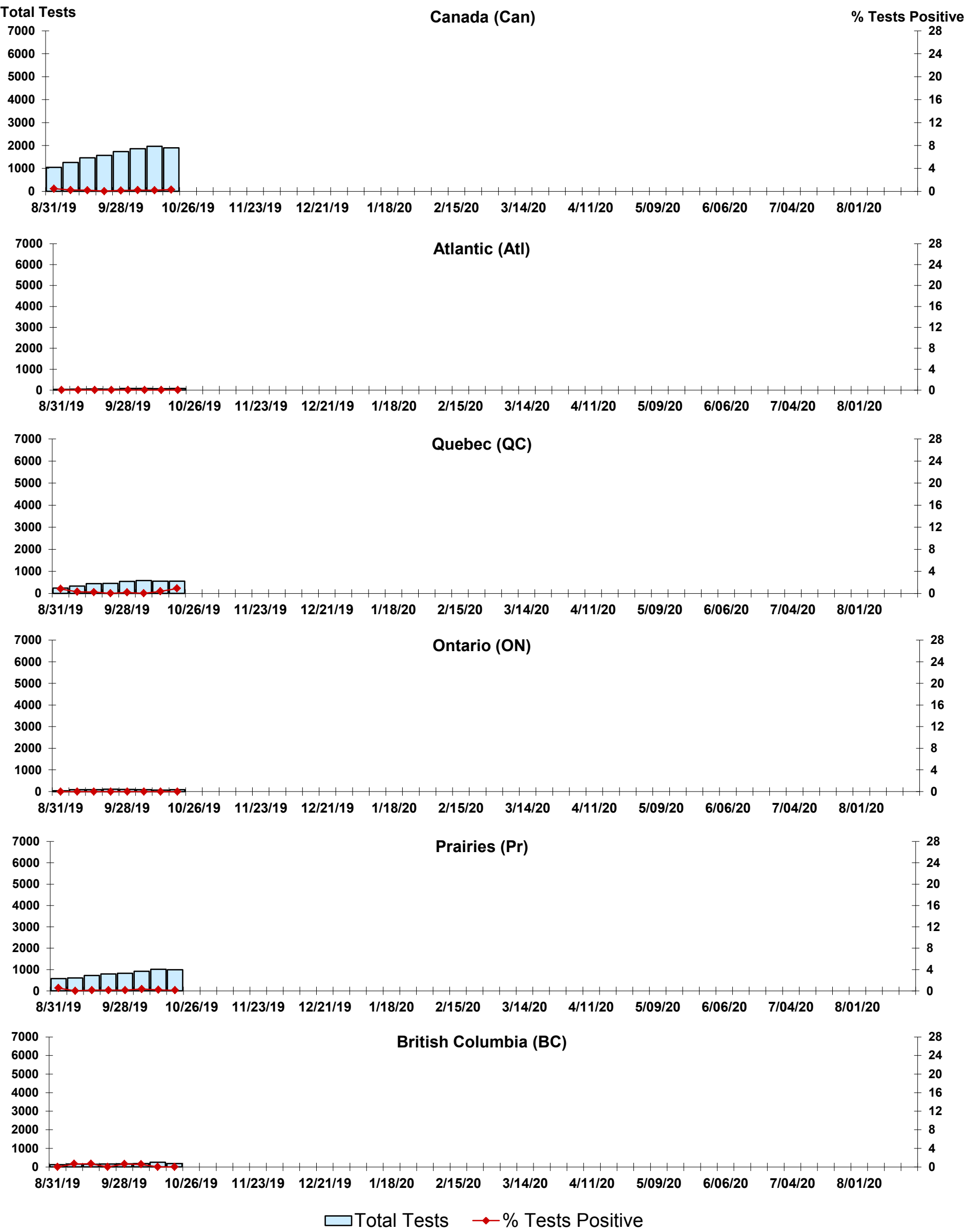


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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.