Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 07 - ending February 16, 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 February 16, 2019 (Reporting Week 201907)

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	195	0	0	26	26	0	195	30	195	0	4	4	0	0	195	0	195	7	195	10	N.A.	N.A.
Prince Edward Island	55	11	0	0	11	0	55	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	221	0	0	58	58	1	225	31	8	0	0	0	0	0	8	0	8	0	8	0	8	2
New Brunswick	534	23	0	87	110	0	534	87	123	0	0	1	0	0	123	3	123	4	123	3	123	6
Atlantic	**1005**	**34**	**0**	**171**	**205**	**1**	**1009**	**162**	**326**	**0**	**4**	**5**	**0**	**0**	**326**	**3**	**326**	**11**	**326**	**13**	**131**	**8**
Région Nord-Est	316	0	0	70	70	0	281	45	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	672	0	0	148	148	0	703	110	93	0	0	3	0	0	95	2	72	4	N.A.	N.A.	60	0
Centre-du-Québec	773	0	0	117	117	5	585	108	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1234	0	0	204	204	4	1230	123	516	0	1	6	0	0	516	21	507	20	N.A.	N.A.	507	23
Ouest du Québec	595	0	0	137	137	1	542	92	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	351	0	0	58	58	0	258	33	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	**3941**	**0**	**0**	**734**	**734**	**10**	**3599**	**511**	**609**	**0**	**1**	**9**	**0**	**0**	**611**	**23**	**579**	**24**	**N.A.**	**N.A.**	**567**	**23**
Ottawa P.H.L.	53	4	8	2	14	0	53	8	9	0	0	0	0	0	9	0	8	0	N.A.	N.A.	0	0
CHEO - Ottawa	312	0	0	57	57	1	312	68	19	0	0	0	0	0	19	1	19	1	N.A.	N.A.	18	2
Kingston P.H.L.	41	5	0	3	8	2	41	8	16	0	0	0	0	0	16	0	15	1	N.A.	N.A.	0	0
UHN / Mount Sinai Hospital	412	0	0	31	31	1	412	15	20	0	0	0	0	0	0	0	20	0	N.A.	N.A.	0	0
P.H.O.L. - Toronto	390	35	38	6	79	0	370	25	245	0	0	0	0	0	245	2	236	5	N.A.	N.A.	0	0
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	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
Sault Ste. Marie P.H.L.	16	9	1	0	10	0	3	1	2	0	0	0	0	0	2	0	2	0	0	0	0	0
Timmins P.H.L.	22	11	0	0	11	0	11	0	11	0	0	0	0	0	11	0	11	0	0	0	0	0
St. Joseph's - London	204	0	0	38	38	0	204	31	46	0	0	0	1	0	46	1	46	1	N.A.	N.A.	N.A.	N.A.
London P.H.L.	155	13	11	7	31	0	154	32	56	0	0	0	0	0	56	1	54	0	2	0	0	0
Orillia P.H.L.	37	3	5	1	9	0	37	6	9	0	0	0	0	0	9	0	9	0	0	0	0	0
Thunder Bay P.H.L.	10	1	1	0	2	0	4	0	4	0	0	0	0	0	4	0	3	0	1	0	0	0
Sudbury P.H.L.	35	9	0	0	9	0	25	2	22	0	0	0	0	0	22	0	22	0	0	0	0	0
Hamilton P.H.L.	94	5	4	4	13	0	90	5	36	0	0	0	0	0	36	0	36	1	0	0	0	0
Peterborough P.H.L.	16	1	1	1	3	0	16	1	7	0	0	0	0	0	7	0	6	0	1	0	0	0
Province of Ontario	**1797**	**96**	**69**	**150**	**315**	**4**	**1732**	**202**	**502**	**0**	**0**	**0**	**1**	**0**	**482**	**5**	**487**	**9**	**62**	**2**	**46**	**2**
Manitoba	229	4	0	7	11	0	227	38	52	0	0	1	0	0	52	0	41	1	52	5	41	3
Regina	182	5	2	1	8	2	182	48	182	0	1	6	0	0	182	2	182	7	182	18	182	12
Saskatoon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Province of Saskatchewan	182	5	2	1	8	2	182	48	182	0	1	6	0	0	182	2	182	7	182	18	182	12
Province of Alberta	841	26	17	17	60	9	703	0	703	0	3	13	5	0	703	8	703	34	703	70	703	69
Prairies	**1252**	**35**	**19**	**25**	**79**	**11**	**1112**	**86**	**937**	**0**	**4**	**20**	**5**	**0**	**937**	**10**	**926**	**42**	**937**	**93**	**926**	**84**
British Columbia	**727**	**52**	**21**	**122**	**195**	**5**	**727**	**92**	**237**	**0**	**1**	**9**	**2**	**0**	**237**	**2**	**237**	**1**	**172**	**34**	**172**	**17**
Yukon	12	2	0	3	5	0	12	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Territories	19	0	0	0	0	0	19	0	19	0	0	0	0	0	19	1	19	0	19	3	19	6
Nunavut	2	1	0	0	1	0	2	0	2	0	0	0	0	0	2	1	2	0	2	1	2	1
Territories	33	3	0	3	6	0	33	3	21	0	0	0	0	0	21	2	21	0	21	4	21	7
CANADA	**8755**	**220**	**109**	**1205**	**1534**	**31**	**8212**	**1056**	**2632**	**0**	**10**	**43**	**8**	**0**	**2614**	**45**	**2576**	**87**	**1518**	**146**	**1863**	**141**

Specimens from Yukon (YT), Northwest Territories (NT) and Nunavit (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, Powell River Hospital , St. Paul's Hospital , Vancouver General Hospital, Victoria General Hospital, Interior Health Authority sites and Northern Health Authority sites.

Delays in the reporting of data may cause data to change retrospectively.

Table 2: Respiratory Virus Detections/Isolations for the period August 26, 2018 - February 16, 2019 (Reporting Weeks 201835-201907)

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	2380	1	0	324	325	2	2380	227	2380	0	35	56	0	0	2380	21	2380	31	2380	253	N.A.	N.A.
Prince Edward Island	730	183	0	0	183	0	728	49	60	1	0	1	3	0	55	5	55	0	55	21	55	0
Nova Scotia	1812	0	0	260	260	4	1829	168	384	0	3	10	2	0	384	0	384	4	384	58	384	5
New Brunswick	8177	183	13	1635	1831	2	8180	598	2092	0	16	10	38	0	2092	107	2092	32	2092	251	2092	71
Atlantic	**13099**	**367**	**13**	**2219**	**2599**	**8**	**13117**	**1042**	**4916**	**1**	**54**	**77**	**43**	**0**	**4911**	**133**	**4911**	**67**	**4911**	**583**	**2531**	**76**
Région Nord-Est	5655	0	0	1145	1145	5	4335	256	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	9451	0	0	2126	2126	13	9734	1084	1906	4	29	14	8	0	1962	69	1597	12	N.A.	N.A.	1437	10
Centre-du-Québec	11244	0	0	2535	2535	125	9020	1016	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	26337	0	0	3131	3131	52	25466	2301	14349	47	146	64	35	0	14349	420	14062	149	N.A.	N.A.	14011	558
Ouest du Québec	8977	0	0	2025	2025	22	8095	1131	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	5729	0	0	986	987	8	5623	460	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	**67393**	**0**	**0**	**11949**	**11950**	**225**	**62273**	**6248**	**16255**	**51**	**175**	**78**	**43**	**0**	**16347**	**489**	**15659**	**161**	**N.A.**	**N.A.**	**15448**	**568**
Ottawa P.H.L.	656	78	29	17	124	0	651	61	355	0	3	3	0	0	355	0	338	1	N.A.	N.A.	0	0
CHEO - Ottawa	5096	0	0	494	494	11	5096	687	585	0	7	5	5	0	586	18	585	10	N.A.	N.A.	572	25
Kingston P.H.L.	631	51	17	8	76	2	631	48	466	0	3	3	0	0	466	0	449	3	N.A.	N.A.	0	0
UHN / Mount Sinai Hospital	7685	5	8	514	527	17	7685	376	401	0	9	0	2	0	0	0	377	2	N.A.	N.A.	82	5
P.H.O.L. - Toronto	9515	743	326	67	1136	30	9215	399	7467	12	56	27	0	0	7468	32	7271	50	N.A.	N.A.	0	0
Sick Kids Hospital - Toronto	1646	98	9	71	178	3	1458	194	1458	9	34	20	21	0	1458	54	1458	40	N.A.	N.A.	1458	94
Sunnybrook & Women's College HSC	1574	64	28	8	100	2	1574	44	1574	4	5	5	1	0	1574	1	1574	22	1574	143	1574	57
Sault Ste. Marie P.H.L.	223	26	2	1	29	0	196	6	188	0	1	0	0	0	188	0	184	2	5	0	0	0
Timmins P.H.L.	236	45	0	0	45	0	190	1	190	0	7	3	0	0	190	0	184	1	14	0	0	0
St. Joseph's - London	2700	3	0	274	277	0	2693	294	971	2	5	6	12	0	971	24	971	30	N.A.	N.A.	N.A.	N.A.
London P.H.L.	2725	272	45	47	364	5	2689	255	1857	2	18	8	0	0	1857	13	1801	10	93	0	0	0
Orillia P.H.L.	723	46	17	9	72	1	723	97	507	1	2	4	0	0	507	1	495	4	20	0	0	0
Thunder Bay P.H.L.	235	28	4	5	37	0	198	4	191	1	1	8	0	0	190	0	179	5	19	0	0	0
Sudbury P.H.L.	539	34	2	0	36	0	502	24	490	1	4	0	0	0	490	2	466	8	42	0	0	0
Hamilton P.H.L.	2441	189	60	25	274	4	2396	117	1861	2	14	13	0	0	1861	10	1829	8	65	0	0	0
Peterborough P.H.L.	746	41	13	16	70	2	743	38	600	2	3	0	0	0	600	0	593	4	9	0	0	0
Province of Ontario	**37371**	**1723**	**560**	**1556**	**3839**	**77**	**36640**	**2645**	**19161**	**36**	**172**	**105**	**41**	**0**	**18761**	**155**	**18754**	**200**	**5053**	**803**	**4241**	**191**
Manitoba	6812	270	6	706	982	6	6693	304	2654	0	10	16	11	0	2654	29	1533	36	2654	333	1567	35
Regina	6542	1392	66	147	1605	6	6542	274	8475	3	59	98	35	0	6542	91	6542	74	6542	1244	6542	101
Saskatoon	4062	0	0	676	676	8	4062	223	4062	1	5	8	10	0	4062	26	4062	24	4062	245	4062	21
Province of Saskatchewan	10604	1392	66	823	2281	14	10604	497	12537	4	64	106	45	0	10604	117	10604	98	10604	1489	10604	122
Province of Alberta	25069	3457	151	1701	5309	64	20096	0	20096	23	184	238	206	0	20096	257	20096	366	20096	3229	20096	826
Prairies	**42485**	**5119**	**223**	**3230**	**8572**	**84**	**37393**	**801**	**35287**	**27**	**258**	**360**	**262**	**0**	**33354**	**403**	**32233**	**500**	**33354**	**5051**	**32267**	**983**
British Columbia	**14818**	**2386**	**220**	**875**	**3481**	**28**	**14818**	**760**	**6271**	**10**	**55**	**145**	**86**	**0**	**6271**	**83**	**6271**	**20**	**4868**	**1199**	**4868**	**193**
Yukon	241	47	1	15	63	0	241	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northwest Territories	544	149	2	0	151	0	540	0	540	0	0	19	3	0	540	18	540	3	540	102	540	18
Nunavut	59	17	0	0	17	0	59	0	59	0	0	0	0	0	59	8	58	0	59	19	58	5
Territories	**844**	**213**	**3**	**15**	**231**	**0**	**840**	**12**	**599**	**0**	**0**	**19**	**3**	**0**	**599**	**26**	**598**	**3**	**599**	**121**	**598**	**23**
CANADA	**176010**	**9808**	**1019**	**19844**	**30672**	**422**	**165081**	**11508**	**82489**	**125**	**714**	**784**	**478**	**0**	**80243**	**1289**	**78426**	**951**	**48785**	**7757**	**59953**	**2034**

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, Powell River Hospital , St. Paul's Hospital , Vancouver General Hospital, Victoria General Hospital, 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.

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2018-19

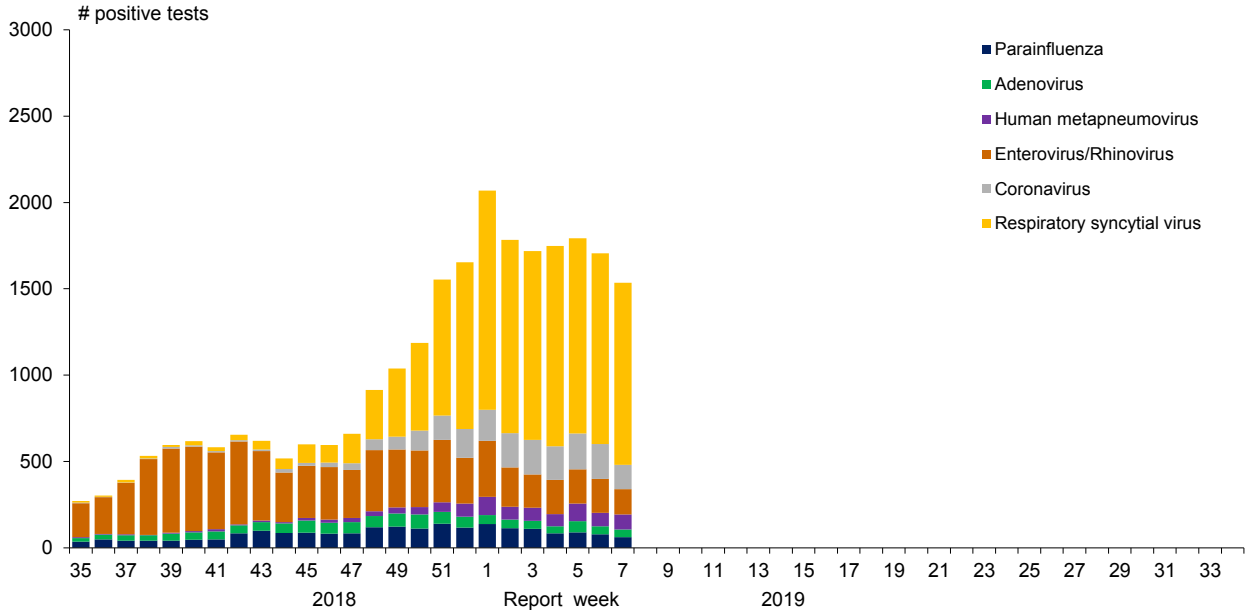


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

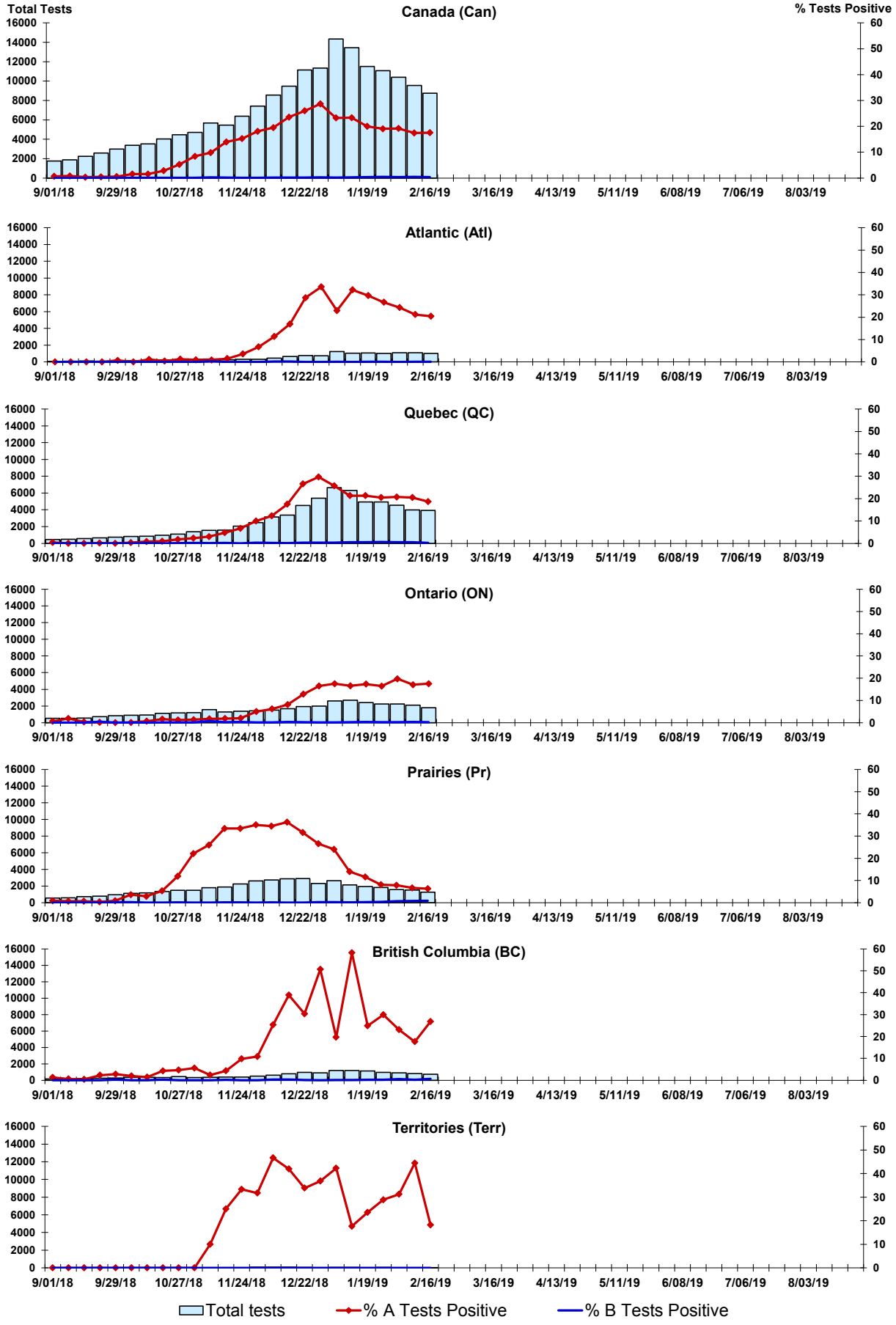


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

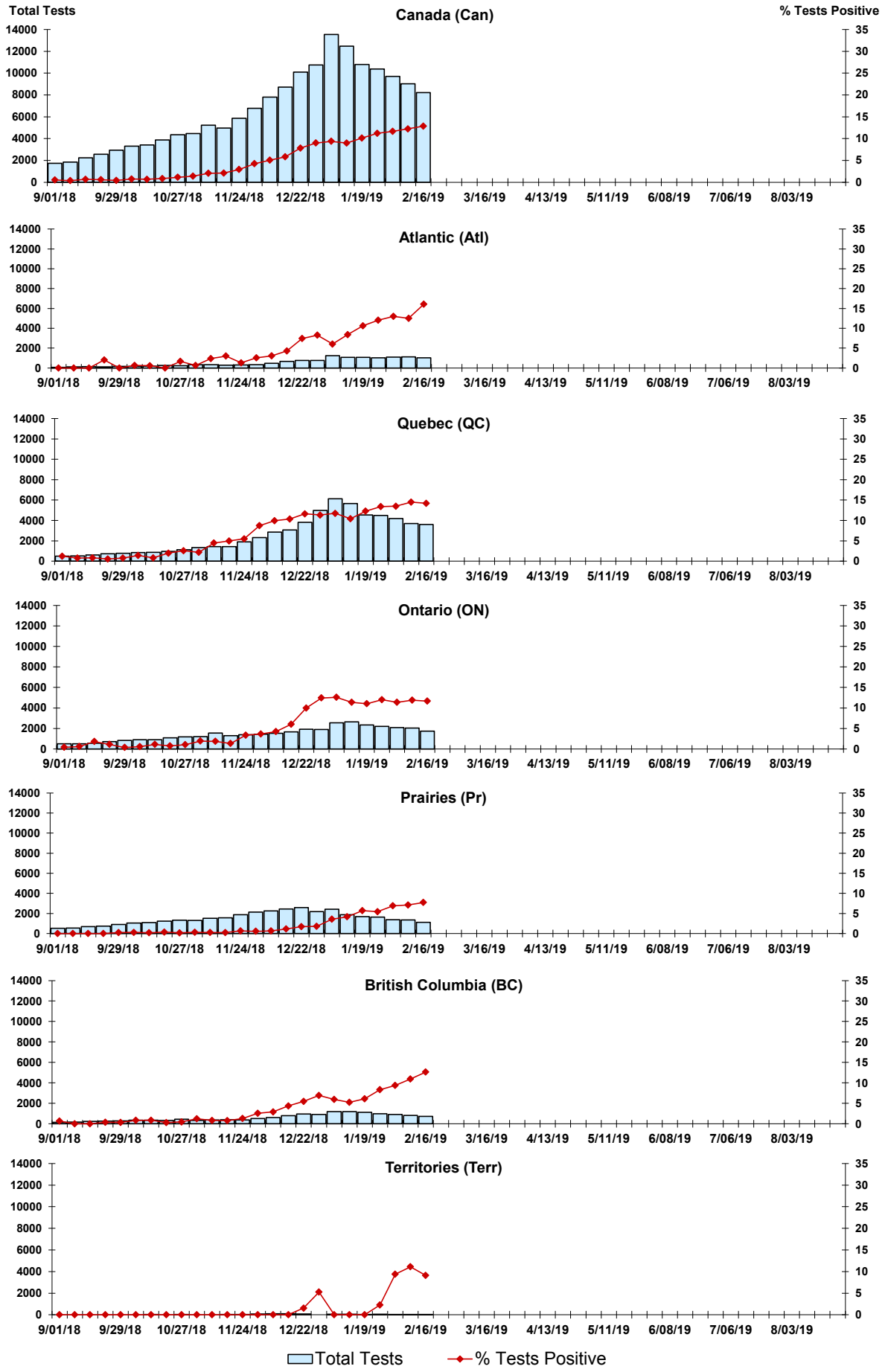


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

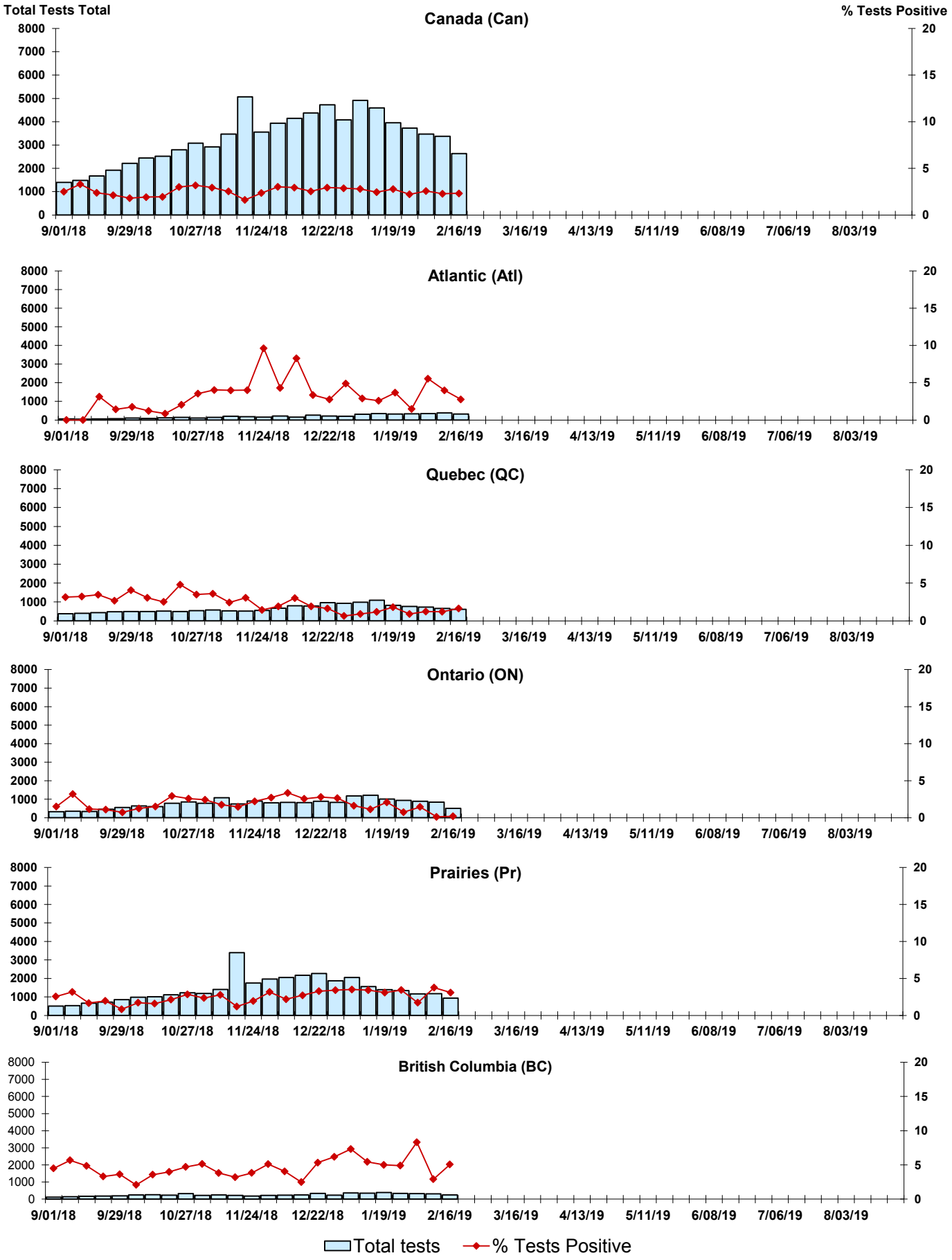


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

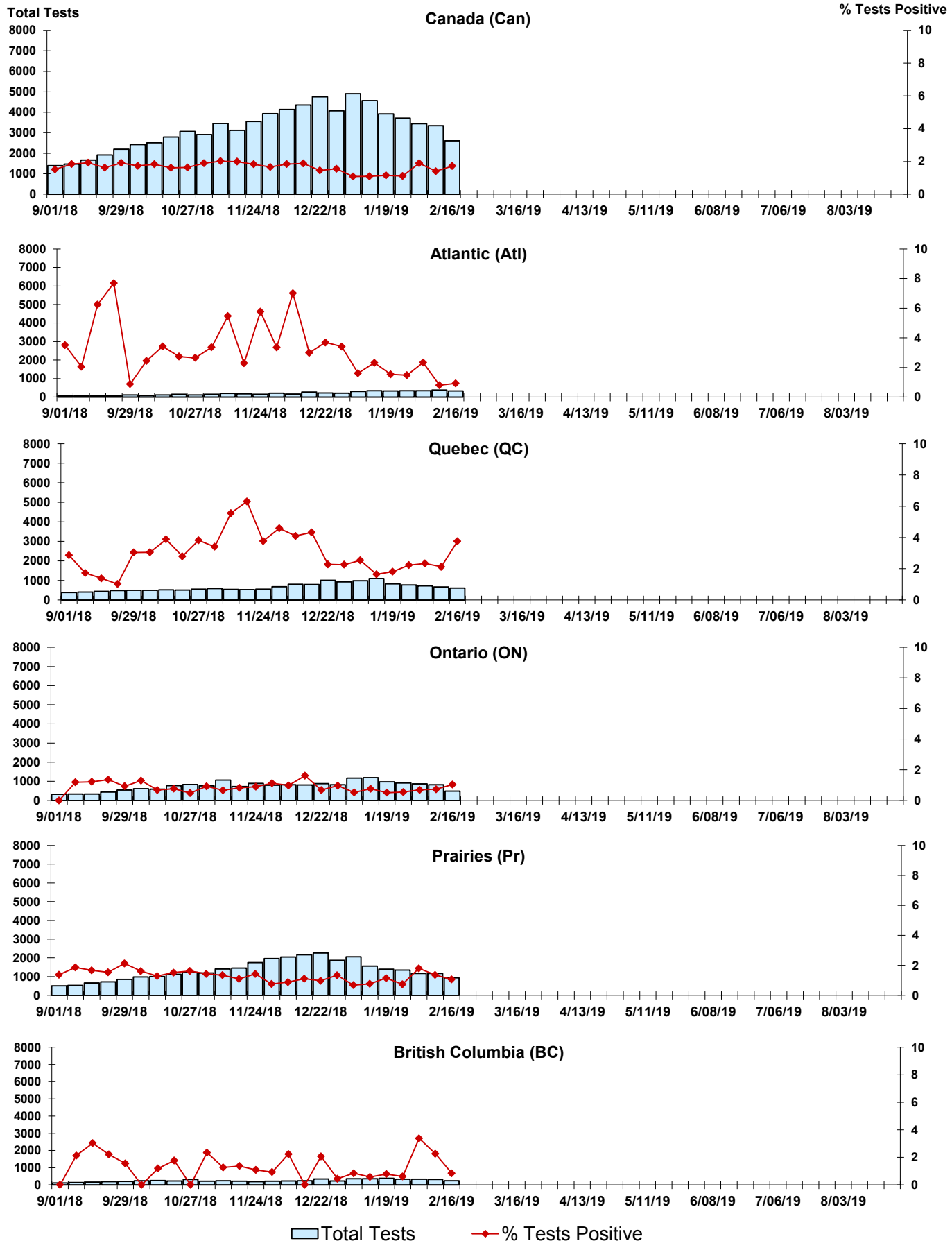


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

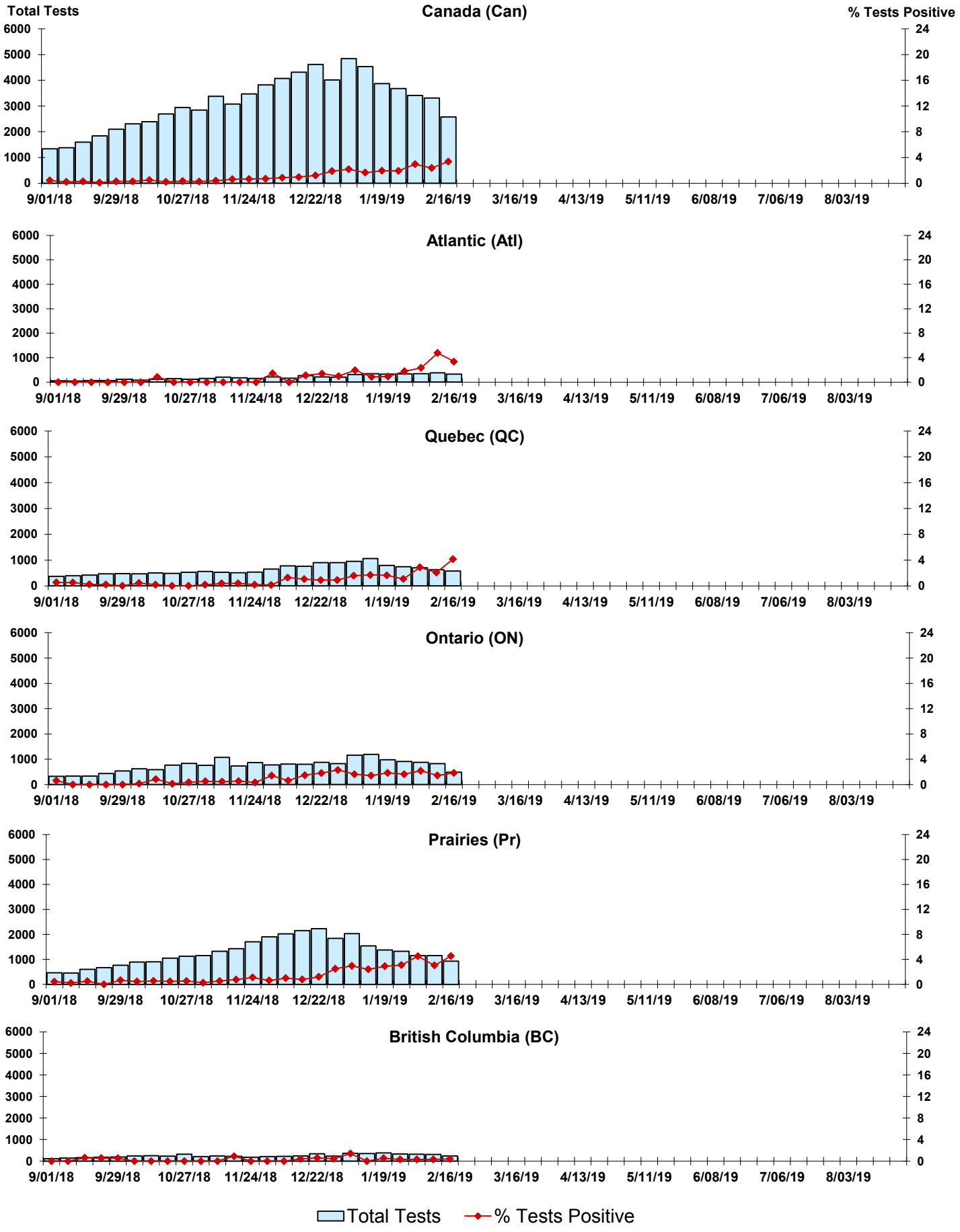


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

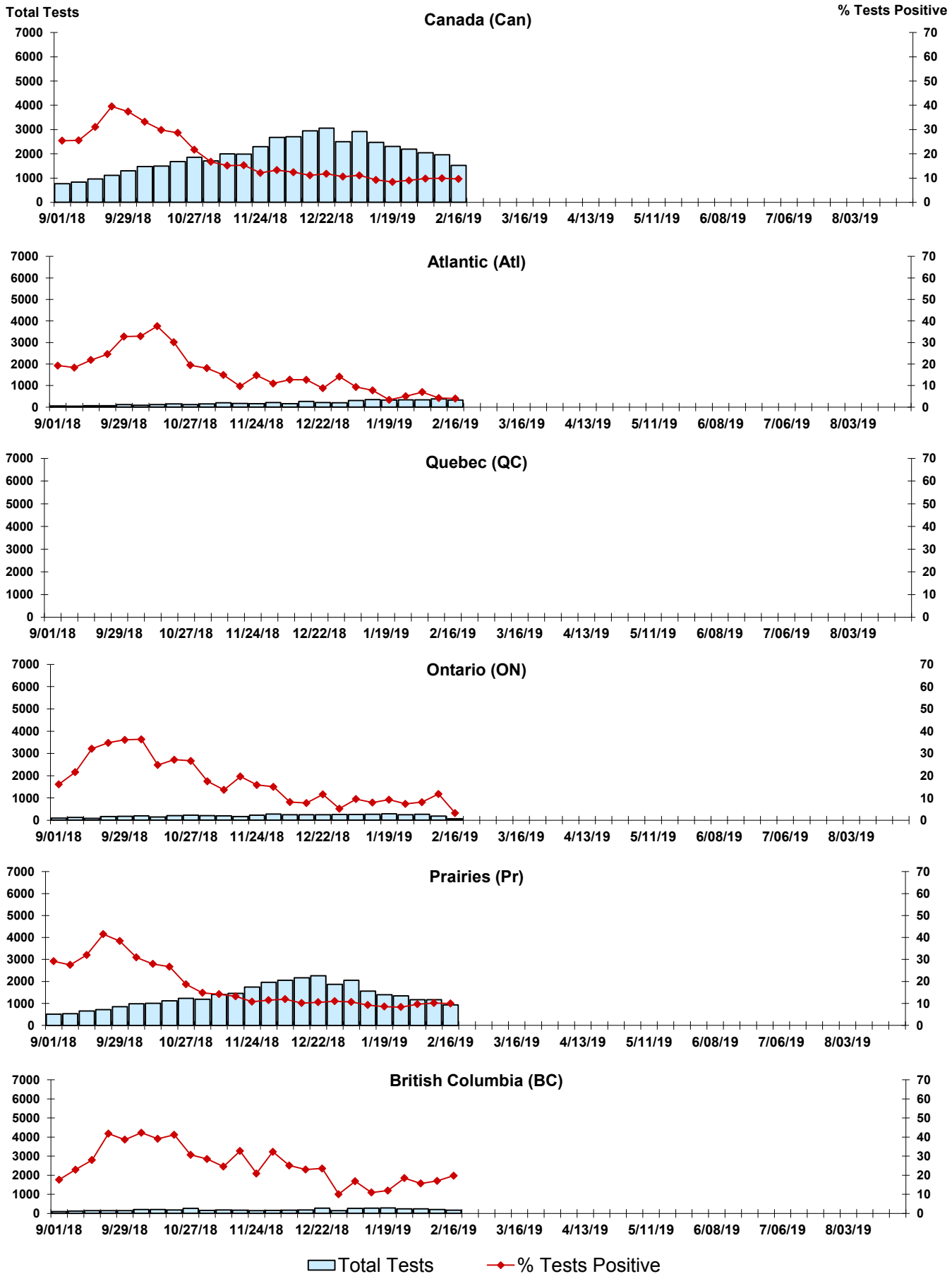
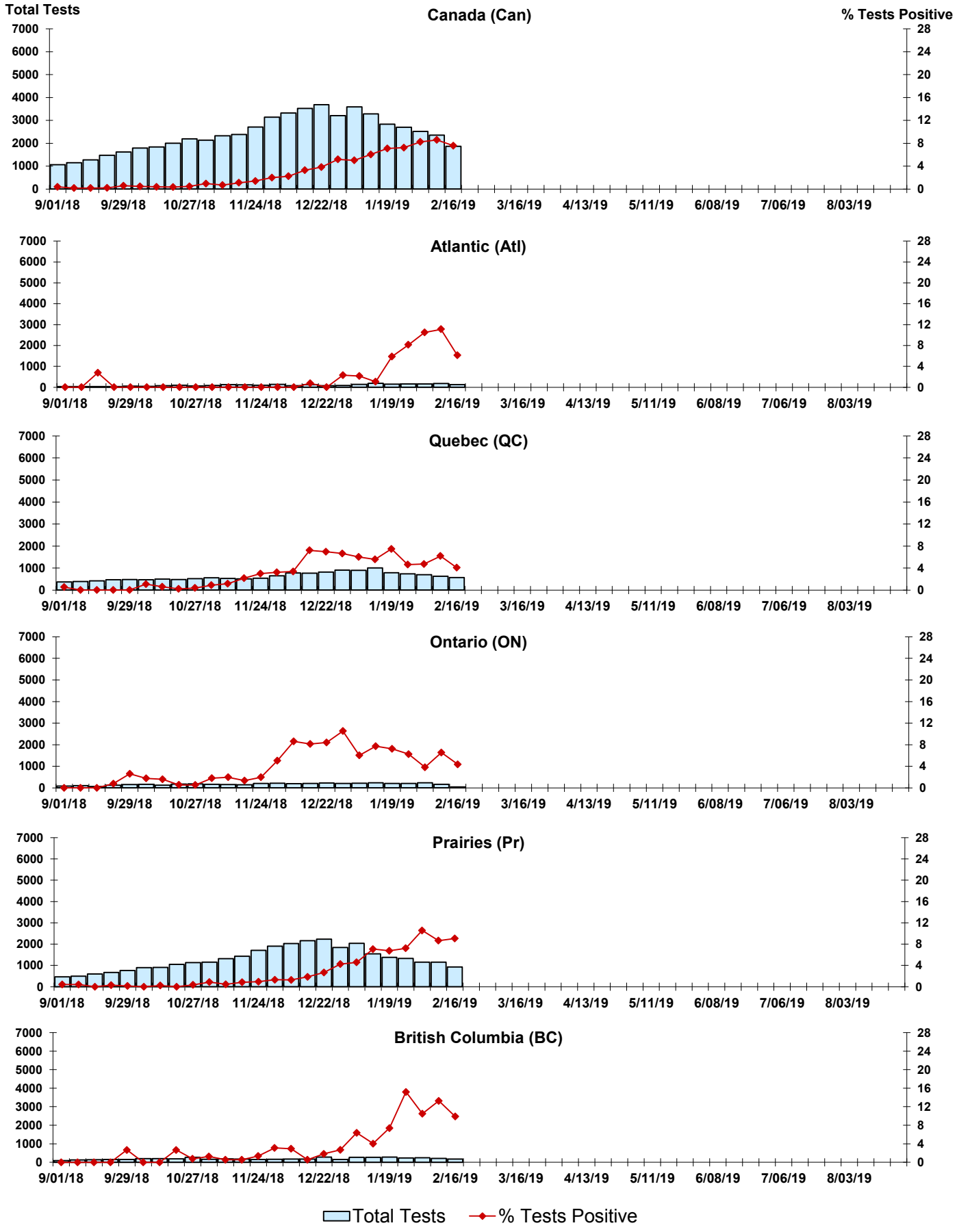


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.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.

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.