

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 27 - ending July 6, 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 July 6, 2019 (Reporting Week 201927)

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	45	0	0	0	0	1	45	2	45	0	0	2	0	0	45	1	45	0	45	7	N.A.	N.A.
Prince Edward Island	2	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	17	0	0	0	0	0	17	0	12	1	0	1	0	0	12	0	12	0	12	1	12	0
New Brunswick	63	0	0	0	0	0	63	1	26	0	0	6	0	0	26	0	26	0	26	1	26	0
Atlantic	127	0	0	0	0	1	127	3	84	1	0	9	0	0	84	1	84	0	84	9	39	0
Région Nord-Est	22	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	41	0	0	0	0	0	45	1	44	0	0	3	0	0	45	2	0	0	N.A.	N.A.	40	0
Centre-du-Québec	28	0	0	0	0	1	28	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	425	0	0	2	2	3	437	5	328	7	0	16	0	0	328	15	0	0	N.A.	N.A.	317	2
Ouest du Québec	34	0	0	1	1	0	32	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	38	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	588	0	0	3	3	4	600	8	372	7	0	19	0	0	373	17	0	0	N.A.	N.A.	357	2
Ottawa P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	2	0	2	0	0	0
CHEO - Ottawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingston P.H.L.	14	0	0	0	0	0	14	0	4	0	0	0	0	0	4	0	4	0	1	0	0	0
UHN / Mount Sinai Hospital	138	0	0	0	0	1	138	2	3	0	0	0	0	0	0	0	3	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	125	1	2	0	3	0	123	0	120	3	0	1	0	0	120	1	110	0	12	0	0	0
Sick Kids Hospital - Toronto	42	0	0	0	0	0	42	0	42	3	0	1	0	0	42	2	42	2	42	13	42	0
Sunnybrook & Women's College HSC	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	5	1	5	0
Sault Ste. Marie P.H.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Timmins P.H.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Joseph's - London	19	0	0	0	0	0	19	0	19	0	0	0	0	0	19	0	19	0	17	3	17	0
London P.H.L.	29	0	0	0	0	0	29	0	28	0	0	1	0	0	28	0	24	0	4	0	0	0
Orillia P.H.L.	14	0	0	0	0	0	14	0	4	0	0	0	0	0	4	0	4	0	1	0	0	0
Thunder Bay P.H.L.	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
Sudbury P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
Hamilton P.H.L.	32	0	0	0	0	0	32	0	29	1	0	0	0	0	29	0	26	0	3	0	0	0
Peterborough P.H.L.	18	0	0	0	0	0	18	0	18	1	0	1	0	0	18	0	16	0	2	0	0	0
Province of Ontario	444	1	2	0	3	1	442	2	280	8	0	4	0	0	277	3	259	2	89	17	64	0
Manitoba	89	0	0	0	0	1	80	1	53	0	1	1	0	0	53	1	37	0	53	15	37	0
Regina	83	0	0	2	2	2	83	0	39	0	1	3	0	0	39	0	39	1	39	12	39	0
Saskatoon	69	0	0	1	1	0	69	0	69	0	0	1	0	0	69	1	69	0	69	16	69	0
Province of Saskatchewan	152	0	0	3	3	2	152	0	108	0	1	4	0	0	108	1	108	1	108	28	108	0
Province of Alberta	418	0	6	1	7	1	395	0	395	8	1	20	1	0	395	7	395	7	395	102	395	4
Prairies	659	0	6	4	10	4	627	1	556	8	3	25	1	0	556	9	540	8	556	145	540	4
British Columbia	246	2	14	6	22	0	246	0	186	2	1	6	0	0	186	2	186	0	164	37	164	4
Yukon	3	0	0	1	1	0	3	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	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	3	1	3	0
Nunavut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Territories	6	0	0	1	1	0	6	0	3	0	0	0	0	0	3	0	3	0	3	1	3	0
CANADA	2070	3	22	14	39	10	2048	14	1481	26	4	63	1	0	1479	32	1072	10	896	209	1167	10

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, 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 - July 6, 2019 (Reporting Weeks 201835-201927)

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	5367	1	0	1034	1035	12	5367	488	5367	10	58	192	0	0	5367	48	5367	226	5367	361	N.A.	N.A.
Prince Edward Island	1269	221	56	1	278	2	1267	140	91	1	0	2	3	0	86	6	86	3	86	22	86	4
Nova Scotia	4160	0	0	786	786	22	4171	408	593	1	4	37	3	0	593	3	593	10	593	71	593	11
New Brunswick	14881	246	39	2598	2883	366	14880	1235	3867	0	18	135	43	0	3867	136	3867	151	3867	439	3867	179
Atlantic	25677	468	95	4419	4982	402	25685	2271	9918	12	80	366	49	0	9913	193	9913	390	9913	893	4546	194
Région Nord-Est	9600	0	0	1585	1585	68	7561	704	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16555	0	0	3144	3144	81	16861	1584	3525	10	33	99	10	0	3638	131	2888	50	N.A.	N.A.	2805	31
Centre-du-Québec	18875	0	0	3649	3649	223	15213	1590	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	43790	0	0	4685	4685	367	42588	3014	23370	125	161	502	40	0	23370	670	22278	499	N.A.	N.A.	22852	735
Ouest du Québec	13246	0	0	2702	2702	180	12146	1408	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	9371	0	0	1394	1395	52	8959	679	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	111437	0	0	17159	17160	971	103328	8979	26895	135	194	601	50	0	27044	801	25166	549	N.A.	N.A.	25657	766
Ottawa P.H.L.	983	91	70	22	183	4	978	88	577	0	3	8	0	0	577	1	542	9	41	0	0	0
CHEO - Ottawa	8580	0	0	862	862	48	8579	937	962	6	13	27	6	0	963	28	962	18	955	230	933	41
Kingston P.H.L.	1024	67	71	12	150	16	1024	63	730	0	4	18	0	0	730	1	691	7	112	0	0	0
UHN / Mount Sinai Hospital	12880	6	15	755	776	59	12880	491	714	1	9	16	3	0	0	0	643	8	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	15205	895	719	98	1712	87	14766	542	12240	33	61	173	0	0	12241	66	11857	186	607	0	0	0
Sick Kids Hospital - Toronto	2998	115	46	123	284	40	2582	225	2582	28	37	72	26	0	2582	89	2582	111	2582	625	2582	137
Sunnybrook & Women's College HSC	2807	74	101	11	186	6	2807	62	2807	13	5	33	2	0	2807	1	2807	87	2807	224	2807	100
Sault Ste. Marie P.H.L.	442	47	42	3	92	0	374	18	344	0	3	2	0	0	344	0	336	5	12	0	0	0
Timmins P.H.L.	406	60	10	1	71	0	335	12	333	0	7	6	0	0	333	0	325	1	21	0	0	0
St. Joseph's - London	4804	3	1	530	534	6	4676	361	1719	6	6	42	15	0	1719	36	1704	55	1247	196	1000	21
London P.H.L.	4294	320	205	60	585	18	4256	333	3051	6	23	54	0	0	3051	20	2925	43	227	0	0	0
Orillia P.H.L.	1325	67	78	23	168	2	1325	128	963	2	2	25	0	0	963	1	949	18	44	0	0	0
Thunder Bay P.H.L.	464	32	45	8	85	0	370	18	357	1	1	15	0	0	356	4	338	9	29	0	0	0
Sudbury P.H.L.	955	48	22	0	70	0	893	33	866	5	4	9	0	0	866	3	811	13	86	0	0	0
Hamilton P.H.L.	4180	236	225	33	494	14	4081	136	3328	16	15	79	0	0	3328	25	3264	52	176	0	0	0
Peterborough P.H.L.	1237	44	78	22	144	3	1233	49	987	4	4	13	0	0	987	1	968	12	23	0	0	0
Province of Ontario	62584	2105	1728	2563	6396	303	61159	3496	32560	121	197	592	52	0	31847	276	31704	634	9218	1291	7578	309
Manitoba	11419	335	131	727	1193	77	10811	632	5051	9	22	160	12	0	5051	58	3175	89	5051	636	3209	132
Regina	8914	1433	150	178	1761	87	8914	560	10692	4	65	237	37	0	8759	145	8759	180	8759	1580	8759	310
Saskatoon	6855	0	0	889	889	49	6855	445	6855	3	7	53	15	48	6855	62	6855	152	6855	543	6855	102
Province of Saskatchewan	15769	1433	150	1067	2650	136	15769	1005	17547	7	72	290	52	48	15614	207	15614	332	15614	2123	15614	412
Province of Alberta	39913	3642	1370	2223	7235	360	32743	0	32743	84	240	1083	254	0	32743	480	32743	975	32743	4964	32743	1380
Prairies	67101	5410	1651	4017	11078	573	59323	1637	55341	100	334	1533	318	48	53408	745	51532	1396	53408	7723	51566	1924
British Columbia	27435	3161	1628	1611	6400	238	27398	1576	12276	21	74	495	114	0	12276	169	12276	79	9435	1909	9435	503
Yukon	409	65	30	39	134	0	409	18	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	807	175	6	0	181	3	802	0	802	6	0	32	4	0	802	26	802	11	802	142	802	47
Nunavut	125	20	0	0	20	0	125	0	125	4	0	4	0	0	125	18	124	0	125	37	124	9
Territories	1341	260	36	39	335	3	1336	18	927	10	0	36	4	0	927	44	926	11	927	179	926	56
CANADA	295575	11404	5138	29808	46351	2490	278229	17977	137917	399	879	3623	587	48	135415	2228	131517	3059	82901	11995	99708	3752

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

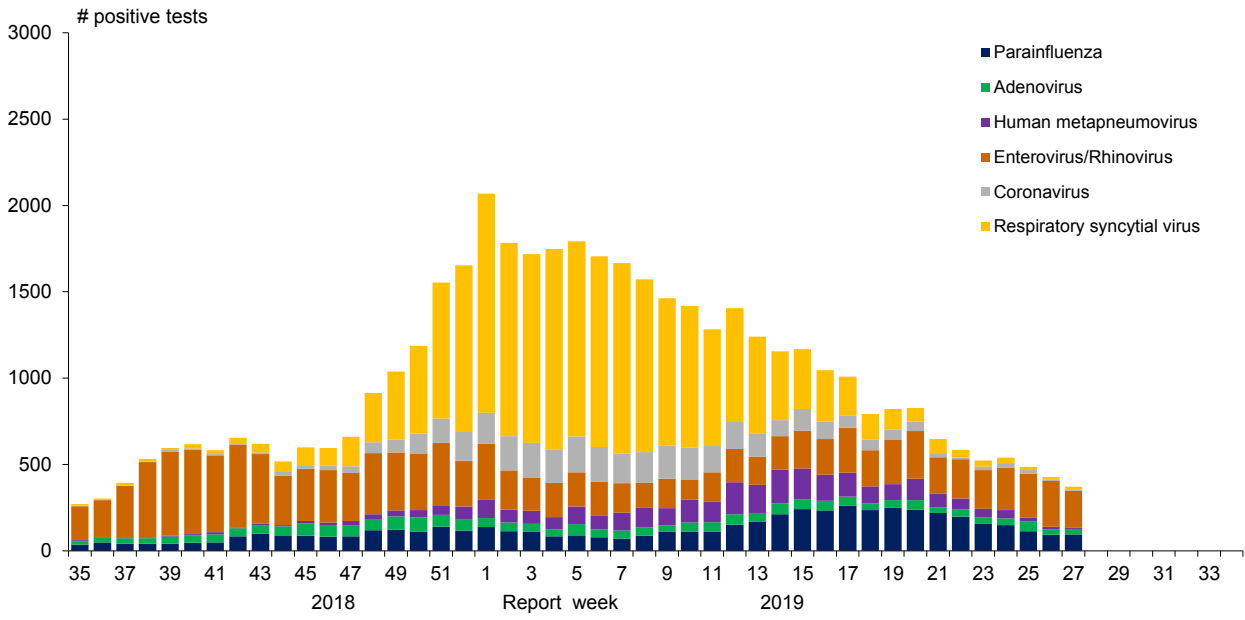


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

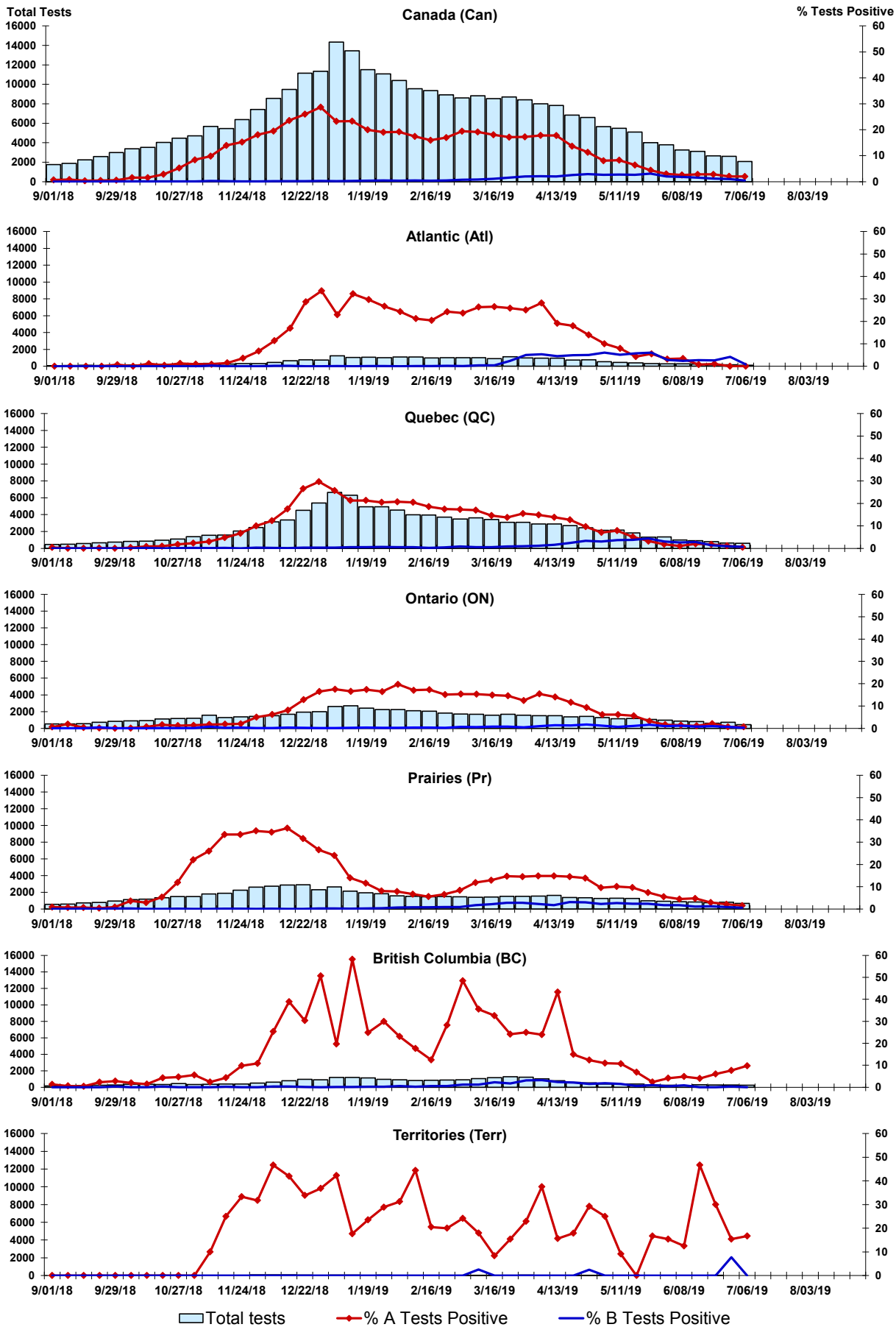


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

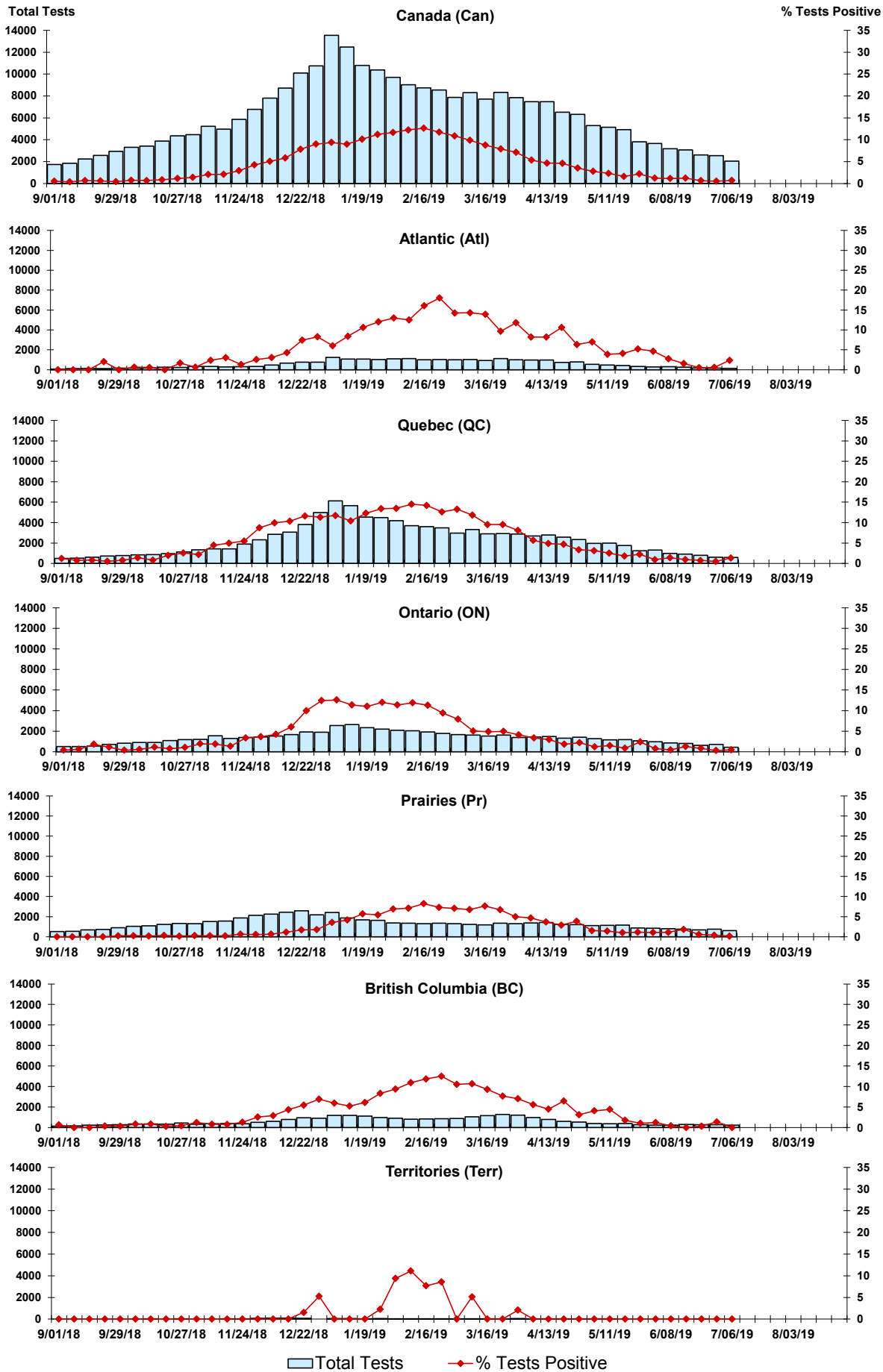


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

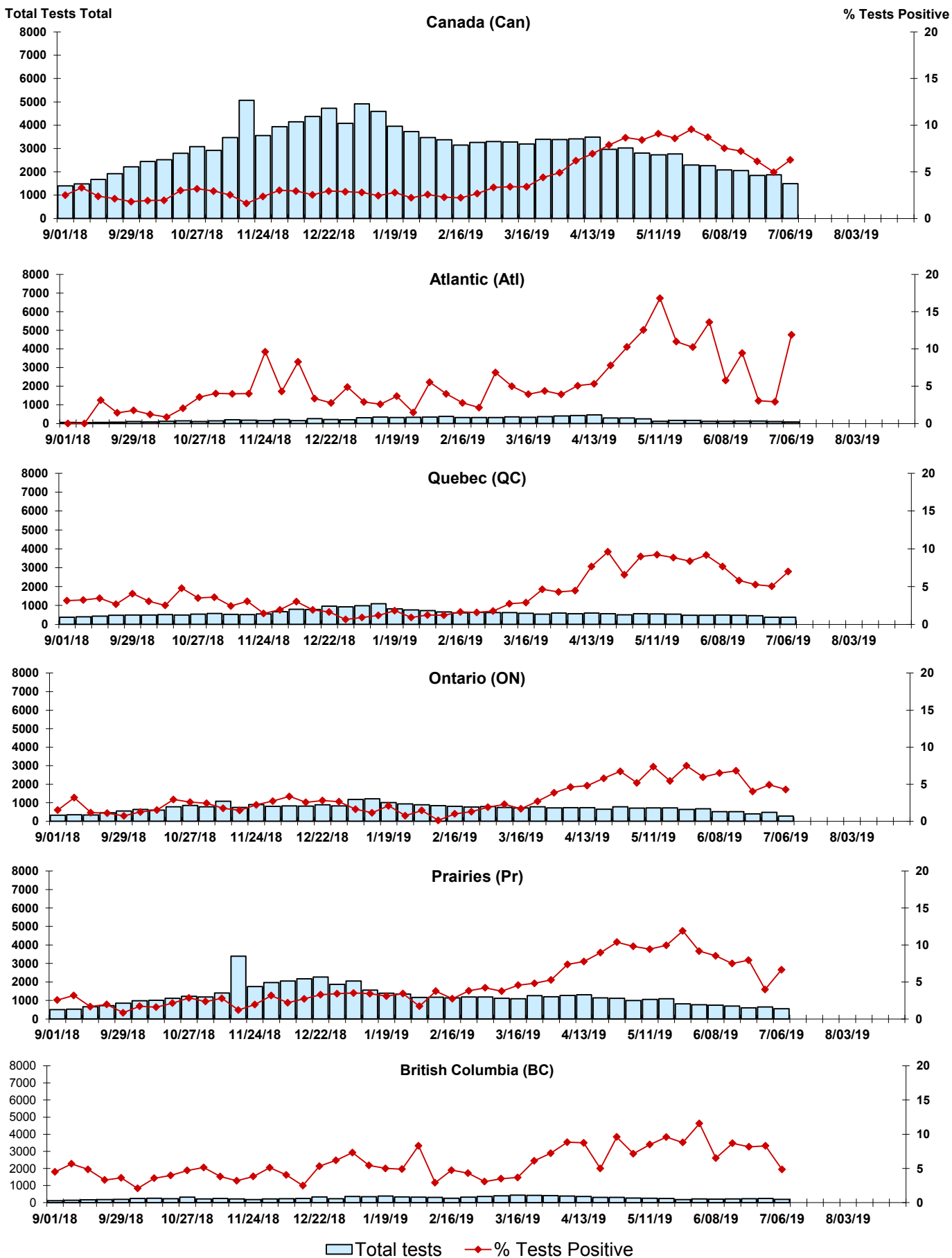


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

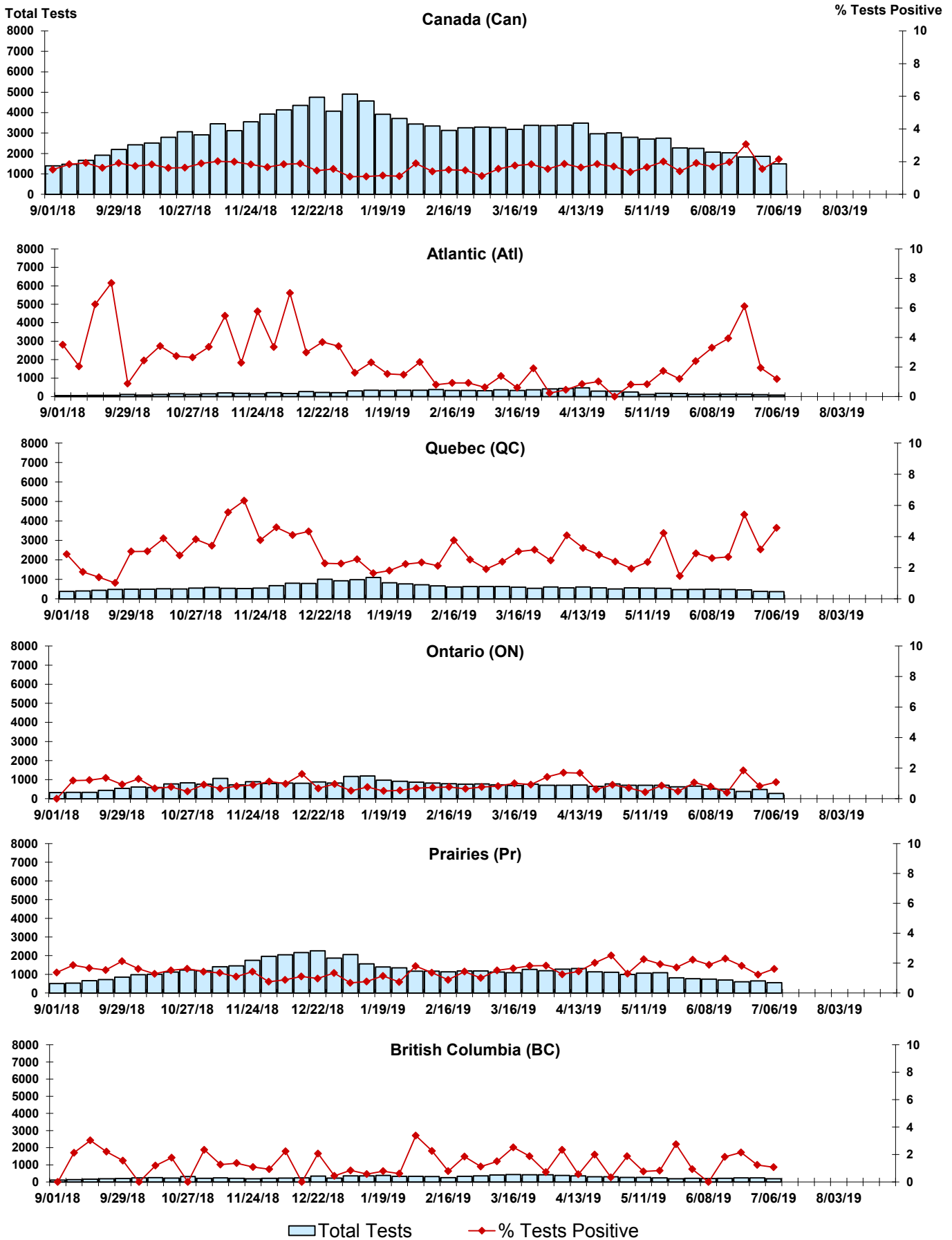
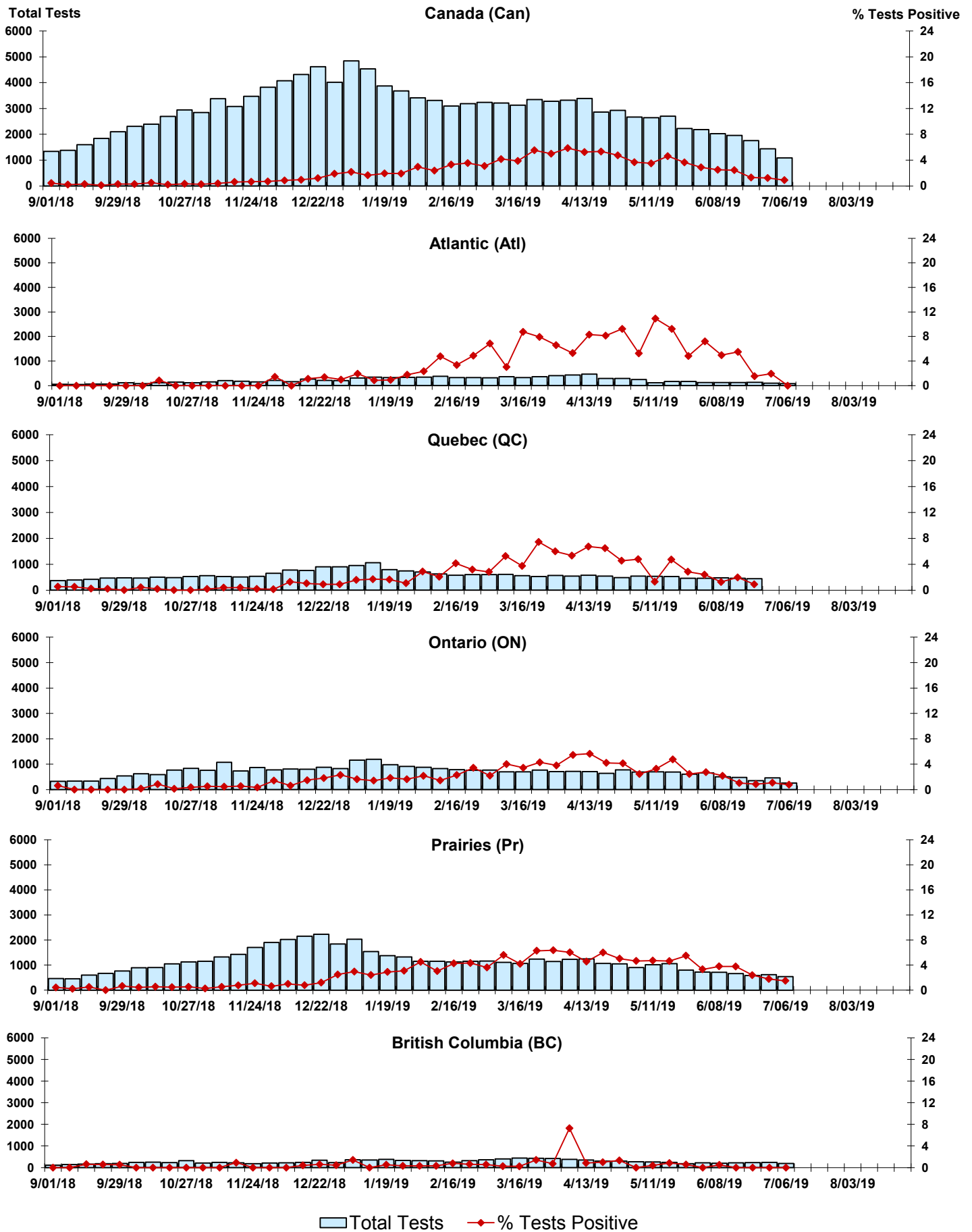


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



Legend: Total Tests (light blue bar), % Tests Positive (red line with diamond)

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

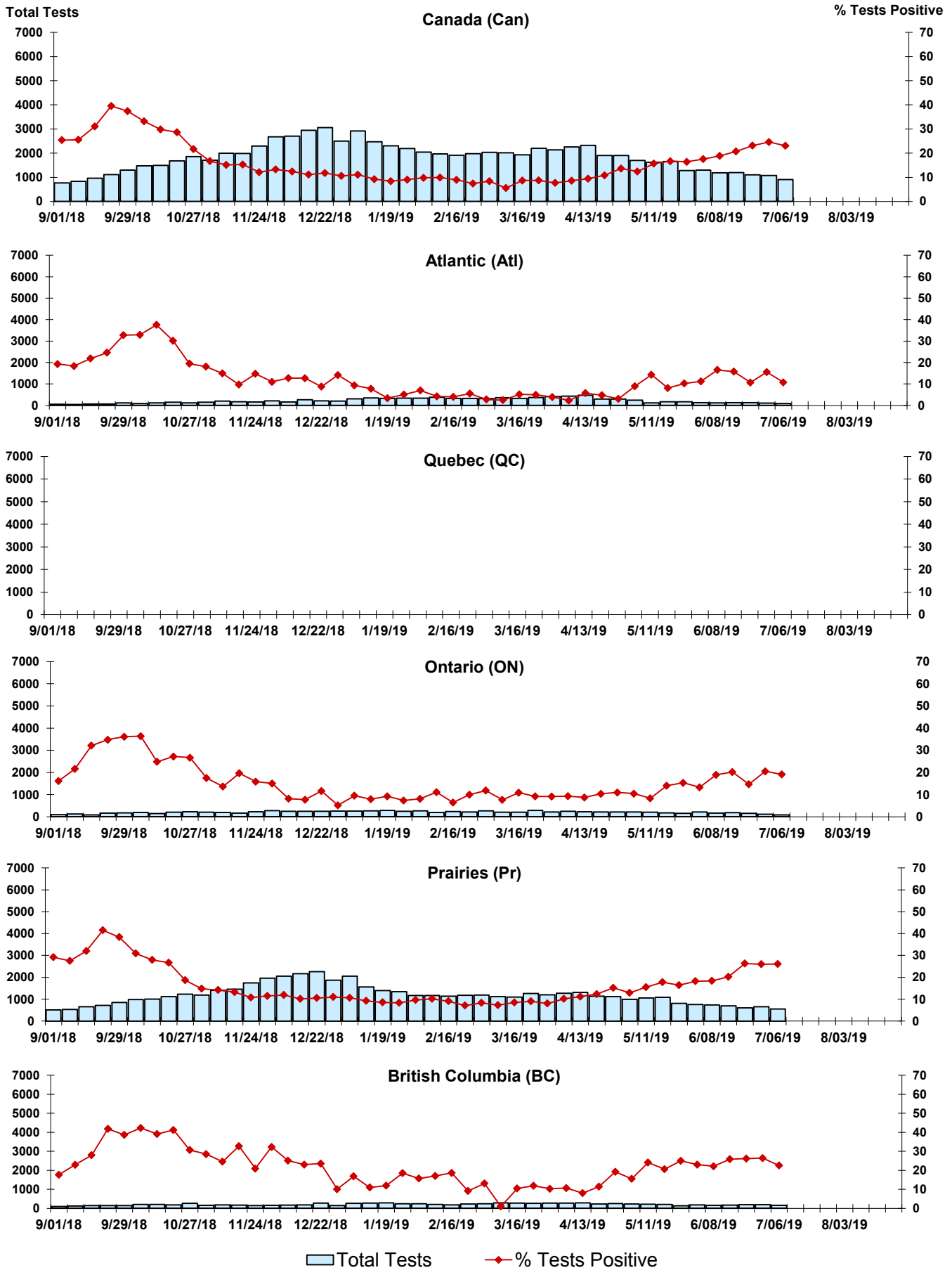
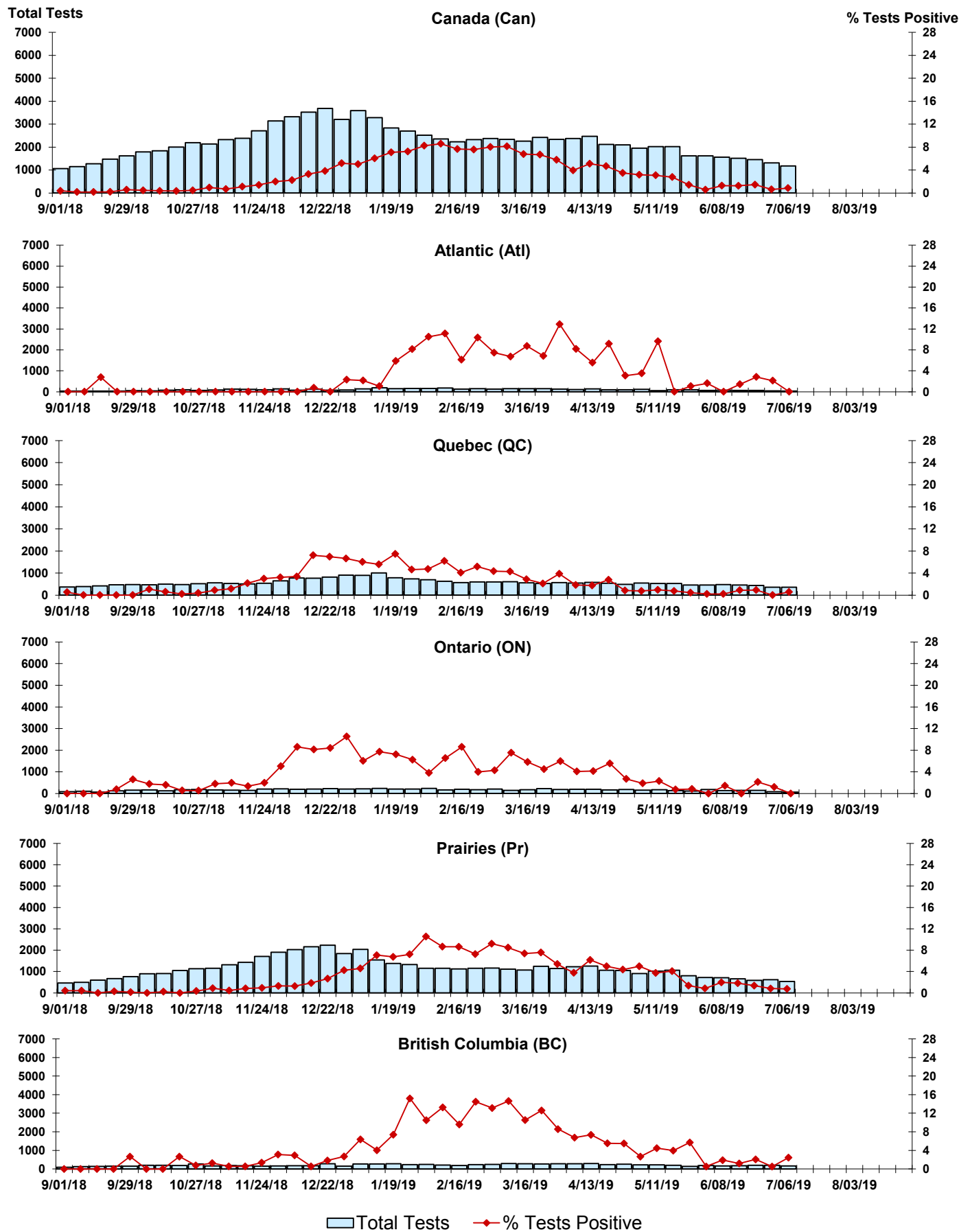


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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