

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 28 - ending July 13, 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 13, 2019 (Reporting Week 201928)

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	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	14	0	0	0	0	0	14	0	8	0	0	0	0	0	8	0	8	0	8	4	8	0
New Brunswick	60	0	0	0	0	0	60	2	23	0	0	0	0	0	23	1	23	0	23	4	23	0
Atlantic	75	0	0	0	0	0	75	2	31	0	0	0	0	0	31	1	31	0	31	8	31	0
Région Nord-Est	13	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	32	0	0	0	0	1	35	1	52	0	0	3	0	0	52	0	0	0	N.A.	N.A.	51	0
Centre-du-Québec	16	0	0	0	0	1	18	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	376	0	0	0	0	0	390	3	310	4	1	1	0	0	310	10	0	0	N.A.	N.A.	303	0
Ouest du Québec	27	0	0	0	0	1	28	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	43	0	0	1	1	2	43	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	507	0	0	1	1	5	527	5	362	4	1	4	0	0	362	10	0	0	N.A.	N.A.	354	0
Ottawa P.H.L.	4	0	0	0	0	0	4	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
CHEO - Ottawa	64	0	0	0	0	0	64	0	22	0	0	0	0	0	22	2	22	0	22	6	21	0
Kingston 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
UHN / Mount Sinai Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	241	0	0	0	0	0	239	0	237	1	0	4	0	0	237	1	231	1	6	0	0	0
Sick Kids Hospital - Toronto	49	0	0	0	0	0	49	0	49	2	0	2	1	0	49	1	49	5	49	13	49	0
Sunnybrook & Women's College HSC	7	0	0	0	0	0	7	0	7	0	0	0	1	0	7	0	7	0	7	3	7	0
Sault Ste. Marie P.H.L.	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0
Timmins P.H.L.	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	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
London P.H.L.	22	0	0	0	0	0	22	0	18	0	0	1	0	0	18	0	18	0	1	0	0	0
Orillia P.H.L.	10	0	0	0	0	0	10	0	3	0	0	0	0	0	3	0	2	0	1	0	0	0
Thunder Bay P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	3	0	2	0	0	0
Sudbury P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	1	0	2	0	0	0
Hamilton P.H.L.	15	0	0	0	0	0	15	0	15	0	0	1	0	0	15	0	14	0	1	0	0	0
Peterborough P.H.L.	21	0	0	0	0	0	21	0	21	0	0	0	0	0	21	0	19	0	2	0	0	0
Province of Ontario	449	0	0	0	0	0	447	0	389	3	0	8	2	0	389	4	375	6	94	22	77	0
Manitoba	94	0	0	0	0	0	87	0	58	0	0	6	1	0	58	2	36	0	58	15	35	0
Regina	129	0	0	2	2	1	129	0	62	0	0	2	1	0	62	1	62	0	62	26	62	0
Saskatoon	75	0	0	0	0	0	75	0	75	0	0	0	0	0	75	4	75	1	75	20	75	0
Province of Saskatchewan	204	0	0	2	2	1	204	0	137	0	0	2	1	0	137	5	137	1	137	46	137	0
Province of Alberta	409	0	8	0	8	1	378	0	378	3	2	8	1	0	378	8	378	4	378	99	378	1
Prairies	707	0	8	2	10	2	669	0	573	3	2	16	3	0	573	15	551	5	573	160	550	1
British Columbia	226	1	6	5	12	2	226	4	169	5	0	3	0	0	169	3	169	0	134	28	134	4
Yukon	5	1	2	0	3	0	5	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	1	3	0	3	2	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	8	1	2	0	3	0	8	0	3	0	0	0	0	0	3	1	3	0	3	2	3	0
CANADA	1972	2	16	8	26	9	1952	11	1527	15	3	31	5	0	1527	34	1129	11	835	220	1149	5

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 13, 2019 (Reporting Weeks 201835-201928)

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	1270	221	56	1	278	2	1268	140	91	1	0	2	3	0	86	6	86	3	86	22	86	4
Nova Scotia	4174	0	0	786	786	22	4185	408	601	1	4	37	3	0	601	3	601	10	601	75	601	11
New Brunswick	14941	246	39	2598	2883	366	14940	1237	3890	0	18	135	43	0	3890	137	3890	151	3890	443	3890	179
Atlantic	25752	468	95	4419	4982	402	25760	2273	9949	12	80	366	49	0	9944	194	9944	390	9944	901	4577	194
Région Nord-Est	9613	0	0	1585	1585	68	7574	704	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16587	0	0	3144	3144	82	16896	1585	3577	10	33	102	10	0	3690	131	2888	50	N.A.	N.A.	2856	31
Centre-du-Québec	18891	0	0	3649	3649	224	15231	1591	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	44166	0	0	4685	4685	367	42978	3017	23680	129	162	503	40	0	23680	680	22278	499	N.A.	N.A.	23155	735
Ouest du Québec	13273	0	0	2702	2702	181	12174	1408	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	9414	0	0	1395	1396	54	9002	679	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	111944	0	0	17160	17161	976	103855	8984	27257	139	195	605	50	0	27406	811	25166	549	N.A.	N.A.	26011	766
Ottawa P.H.L.	987	91	70	22	183	4	982	88	578	0	3	8	0	0	578	1	543	9	41	0	0	0
CHEO - Ottawa	8711	0	0	862	862	49	8710	937	1001	6	13	28	6	0	1002	30	1001	18	994	241	971	41
Kingston P.H.L.	1027	67	71	12	150	16	1027	63	743	0	4	18	0	0	743	1	703	7	113	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	15446	895	719	98	1712	87	15006	542	12478	34	61	177	0	0	12479	67	12089	187	617	0	0	0
Sick Kids Hospital - Toronto	3047	115	46	123	284	40	2631	225	2631	30	37	74	27	0	2631	90	2631	116	2631	638	2631	137
Sunnybrook & Women's College HSC	2814	74	101	11	186	6	2814	62	2814	13	5	33	3	0	2814	1	2814	87	2814	227	2814	100
Sault Ste. Marie P.H.L.	443	47	42	3	92	0	375	18	345	0	3	2	0	0	345	0	336	5	13	0	0	0
Timmins P.H.L.	411	60	10	1	71	0	340	12	338	0	7	6	0	0	338	0	330	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.	4316	320	205	60	585	18	4278	333	3069	6	23	55	0	0	3069	20	2943	43	228	0	0	0
Orillia P.H.L.	1335	67	78	23	168	2	1335	128	976	2	2	25	0	0	976	1	961	18	46	0	0	0
Thunder Bay P.H.L.	468	32	45	8	85	0	374	18	361	1	1	15	0	0	360	4	341	9	31	0	0	0
Sudbury P.H.L.	958	48	22	0	70	0	896	33	869	5	4	9	0	0	869	3	812	13	88	0	0	0
Hamilton P.H.L.	4195	236	225	33	494	14	4096	136	3346	16	15	80	0	0	3346	25	3281	52	177	0	0	0
Peterborough P.H.L.	1258	44	78	22	144	3	1254	49	1008	4	4	13	0	0	1008	1	987	12	25	0	0	0
Province of Ontario	63100	2105	1728	2563	6396	304	61674	3496	32990	124	197	601	54	0	32277	280	32119	640	9335	1318	7672	309
Manitoba	11513	335	131	727	1193	77	10898	632	5109	9	22	166	13	0	5109	60	3211	89	5109	651	3244	132
Regina	9043	1433	150	180	1763	88	9043	560	10754	4	65	239	38	0	8821	146	8821	180	8821	1606	8821	310
Saskatoon	6930	0	0	889	889	49	6930	445	6930	3	7	53	15	48	6930	66	6930	153	6930	563	6930	102
Province of Saskatchewan	15973	1433	150	1069	2652	137	15973	1005	17684	7	72	292	53	48	15751	212	15751	333	15751	2169	15751	412
Province of Alberta	40347	3642	1378	2223	7243	362	33143	0	33143	88	242	1091	255	0	33143	488	33143	984	33143	5068	33143	1382
Prairies	67833	5410	1659	4019	11088	576	60014	1637	55936	104	336	1549	321	48	54003	760	52105	1406	54003	7888	52138	1926
British Columbia	27662	3162	1635	1618	6415	240	27625	1580	12454	26	74	498	114	0	12454	172	12454	79	9578	1939	9578	507
Yukon	414	66	32	39	137	0	414	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	810	175	6	0	181	3	805	0	805	6	0	32	4	0	805	27	805	11	805	144	805	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	1349	261	38	39	338	3	1344	18	930	10	0	36	4	0	930	45	929	11	930	181	929	56
CANADA	297640	11406	5155	29818	46380	2501	280272	17988	139516	415	882	3655	592	48	137014	2262	132717	3075	83790	12227	100905	3758

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

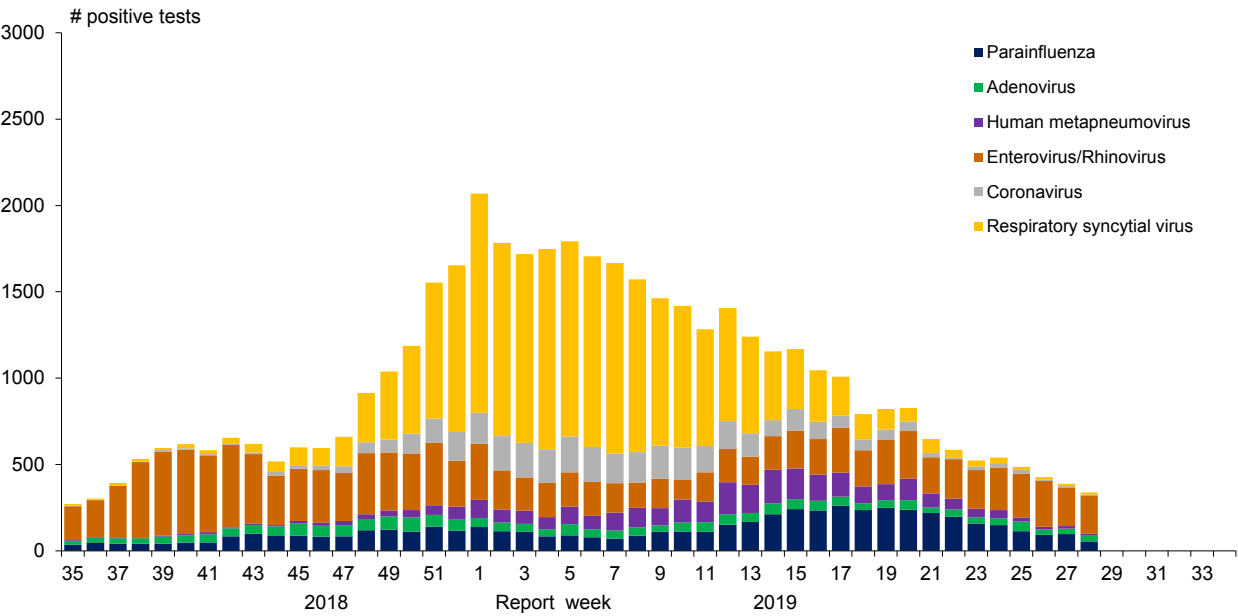


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

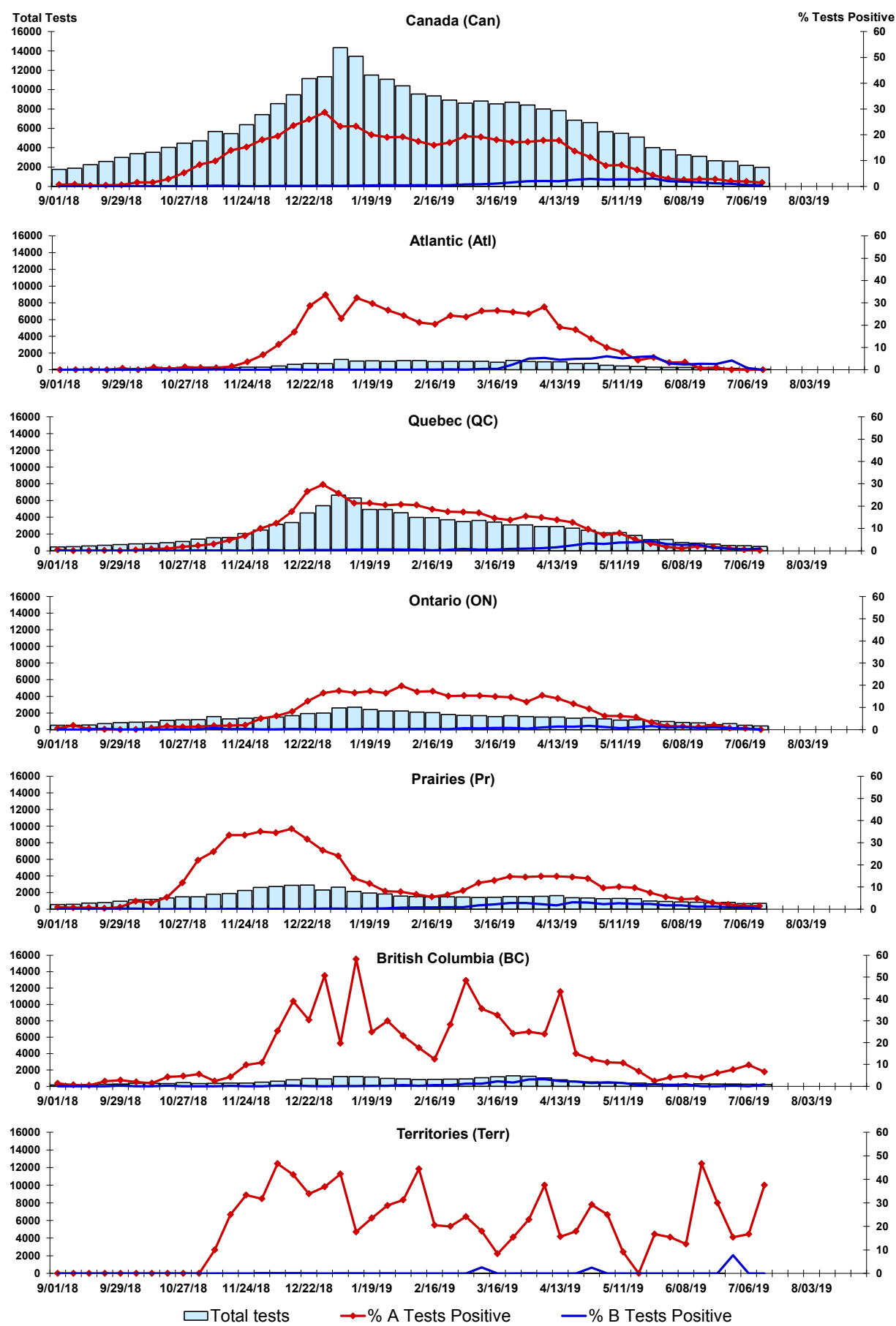


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

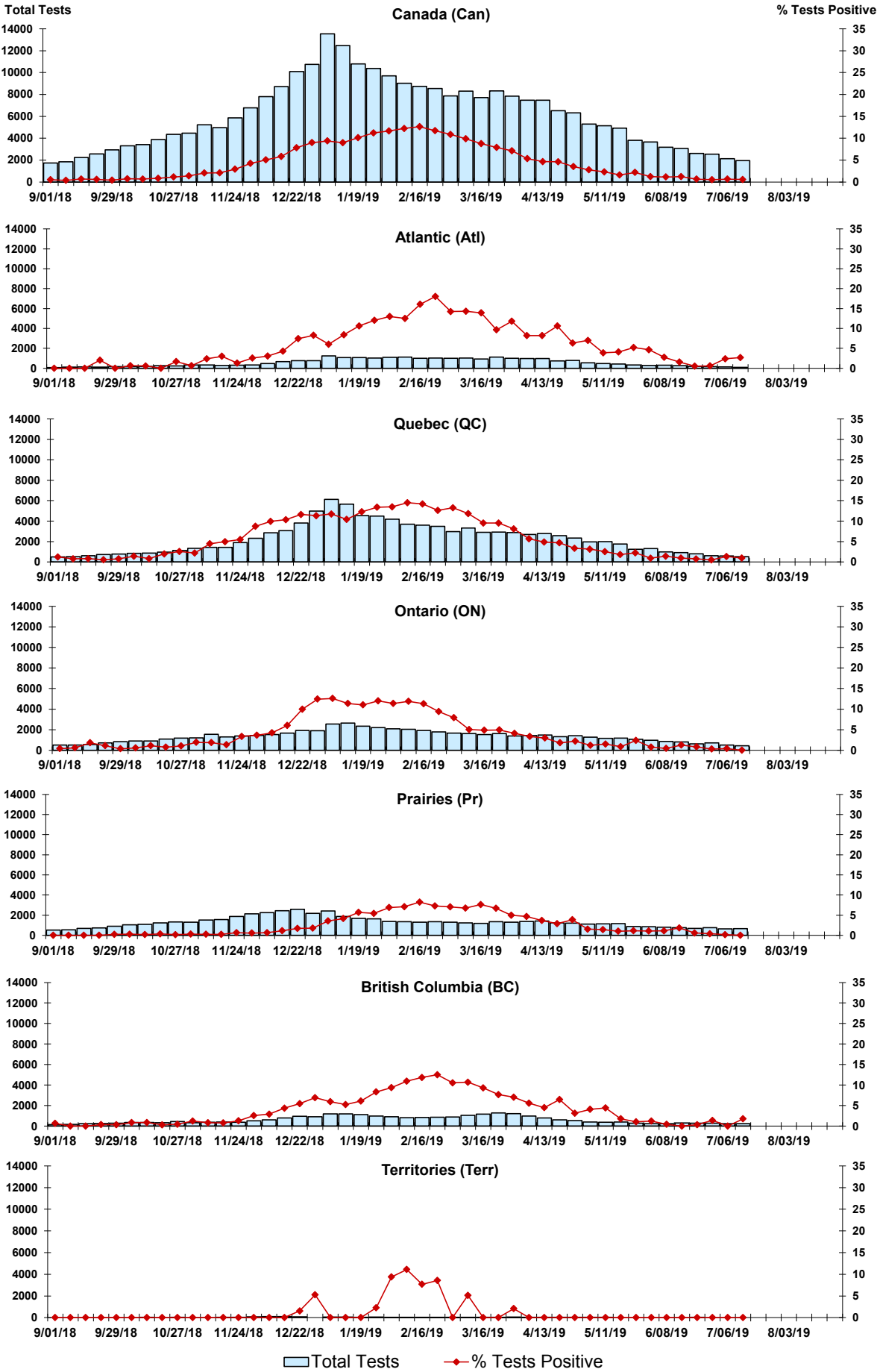


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

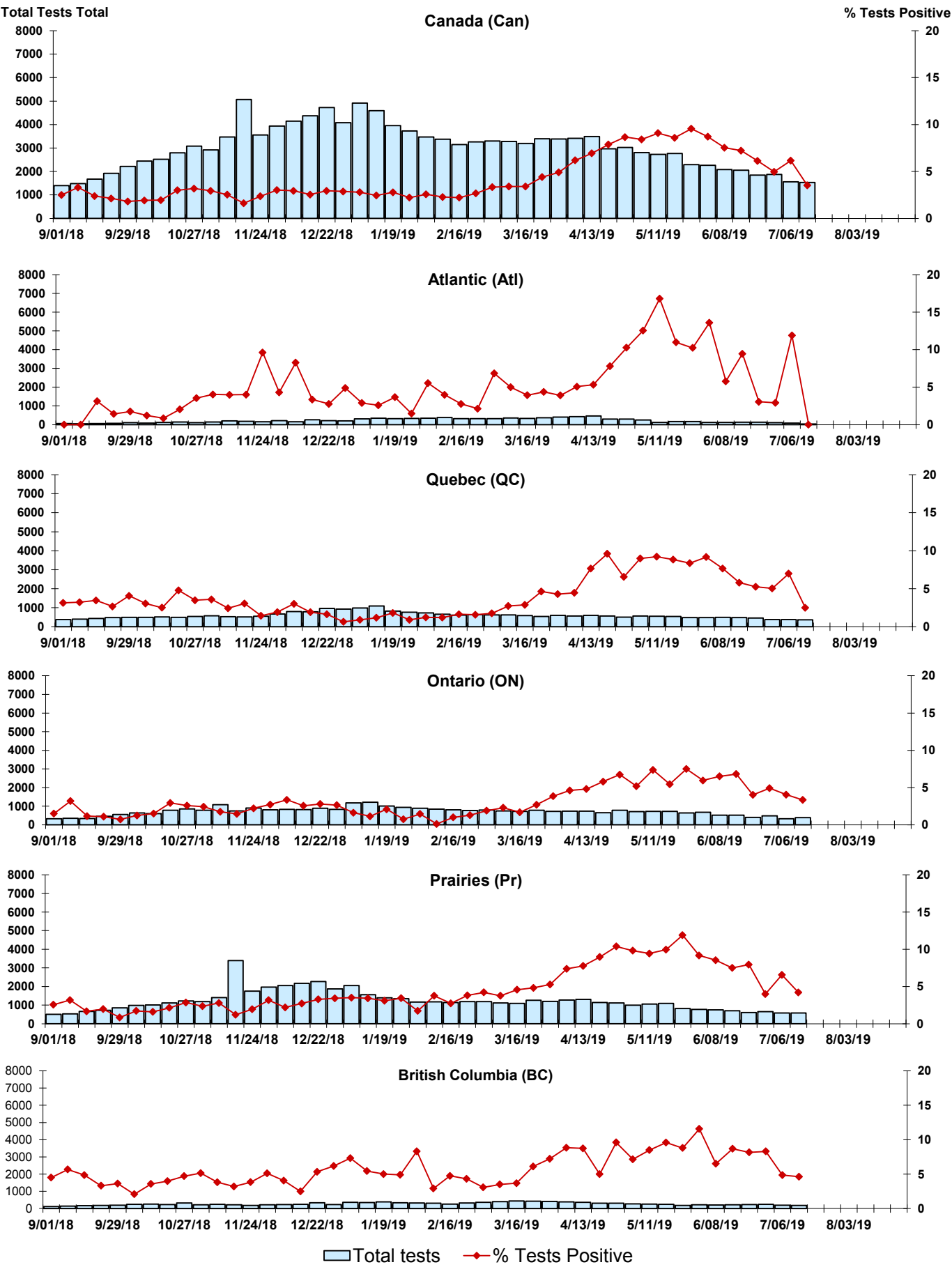


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

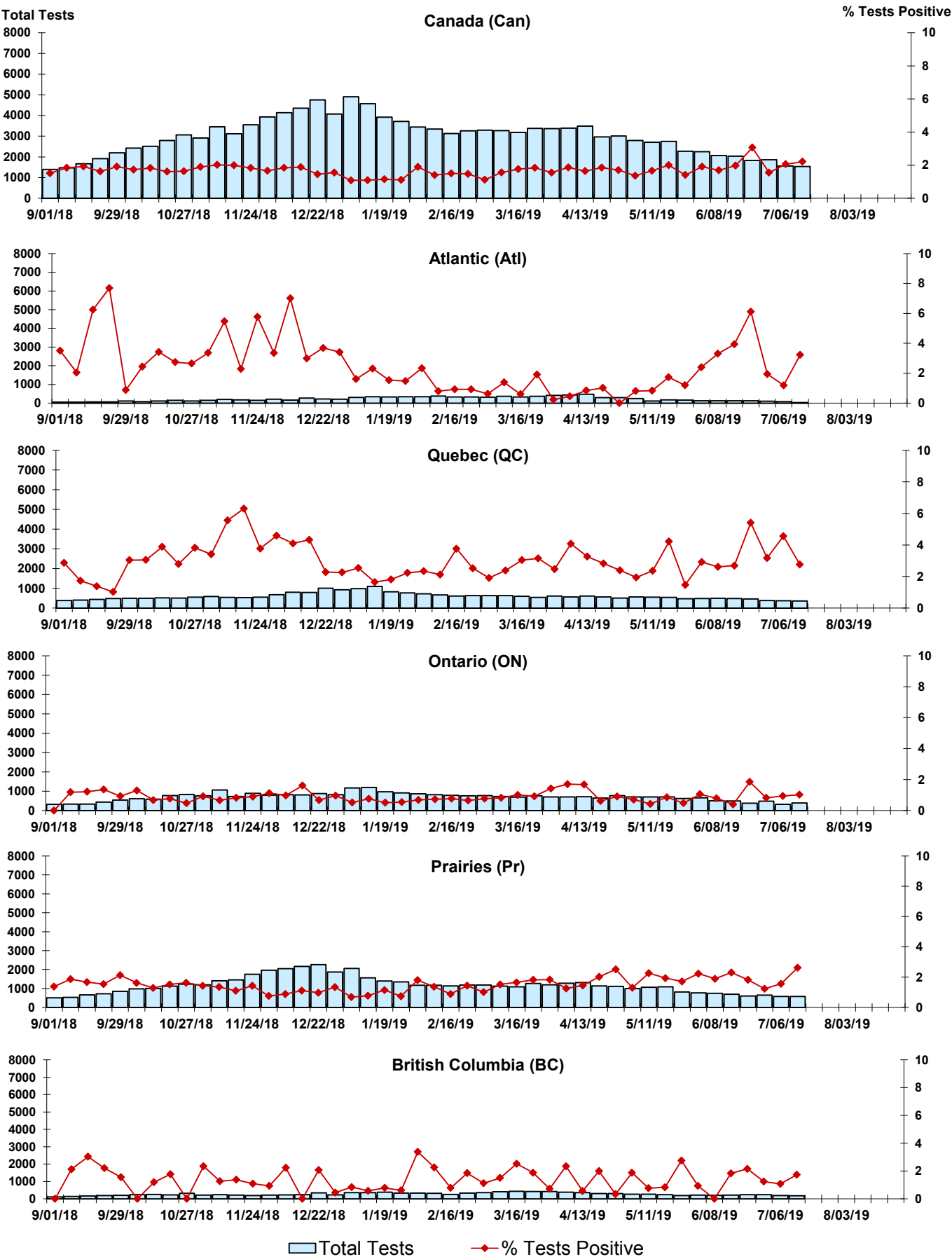
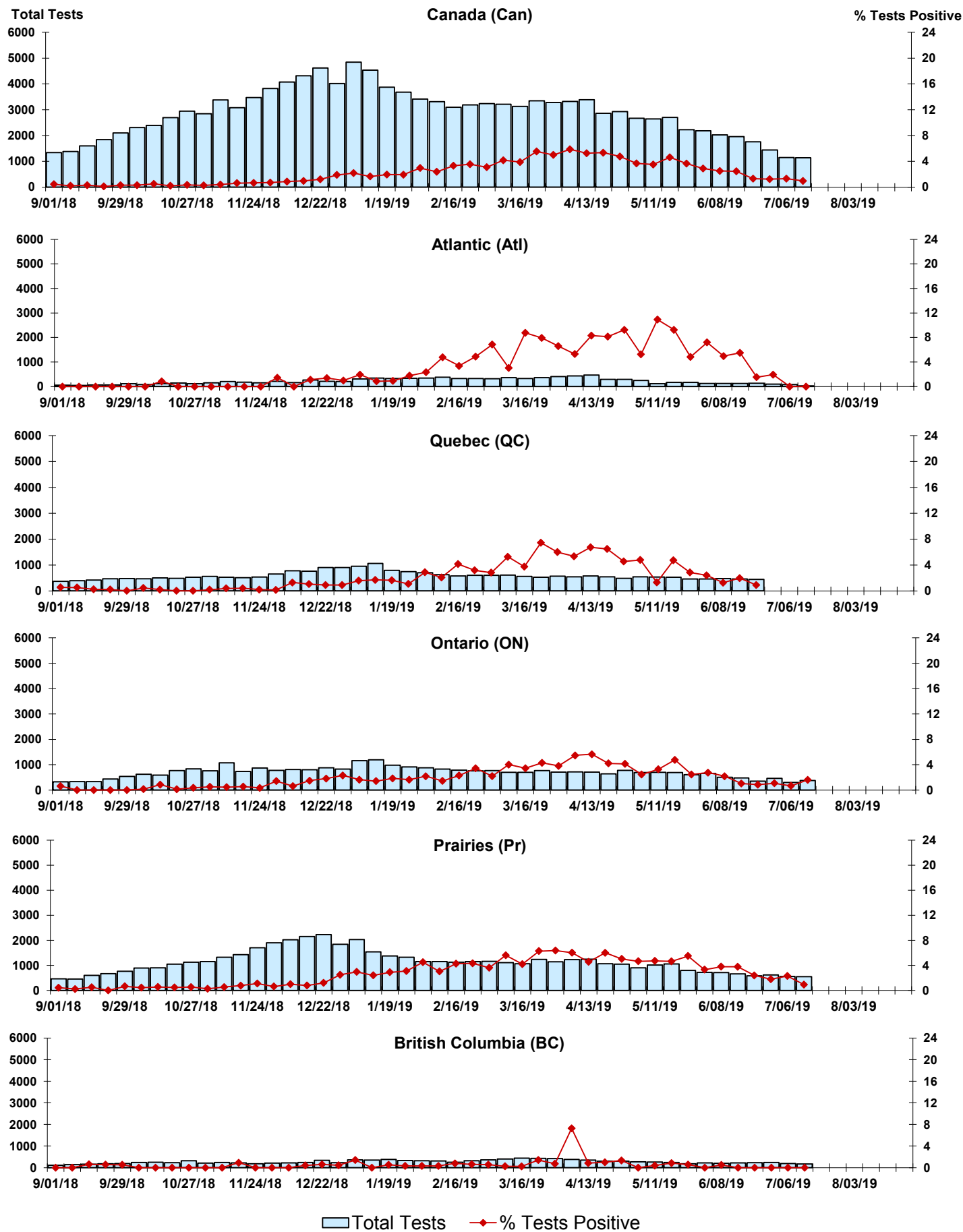


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



■ Total Tests —◆ % Tests Positive

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

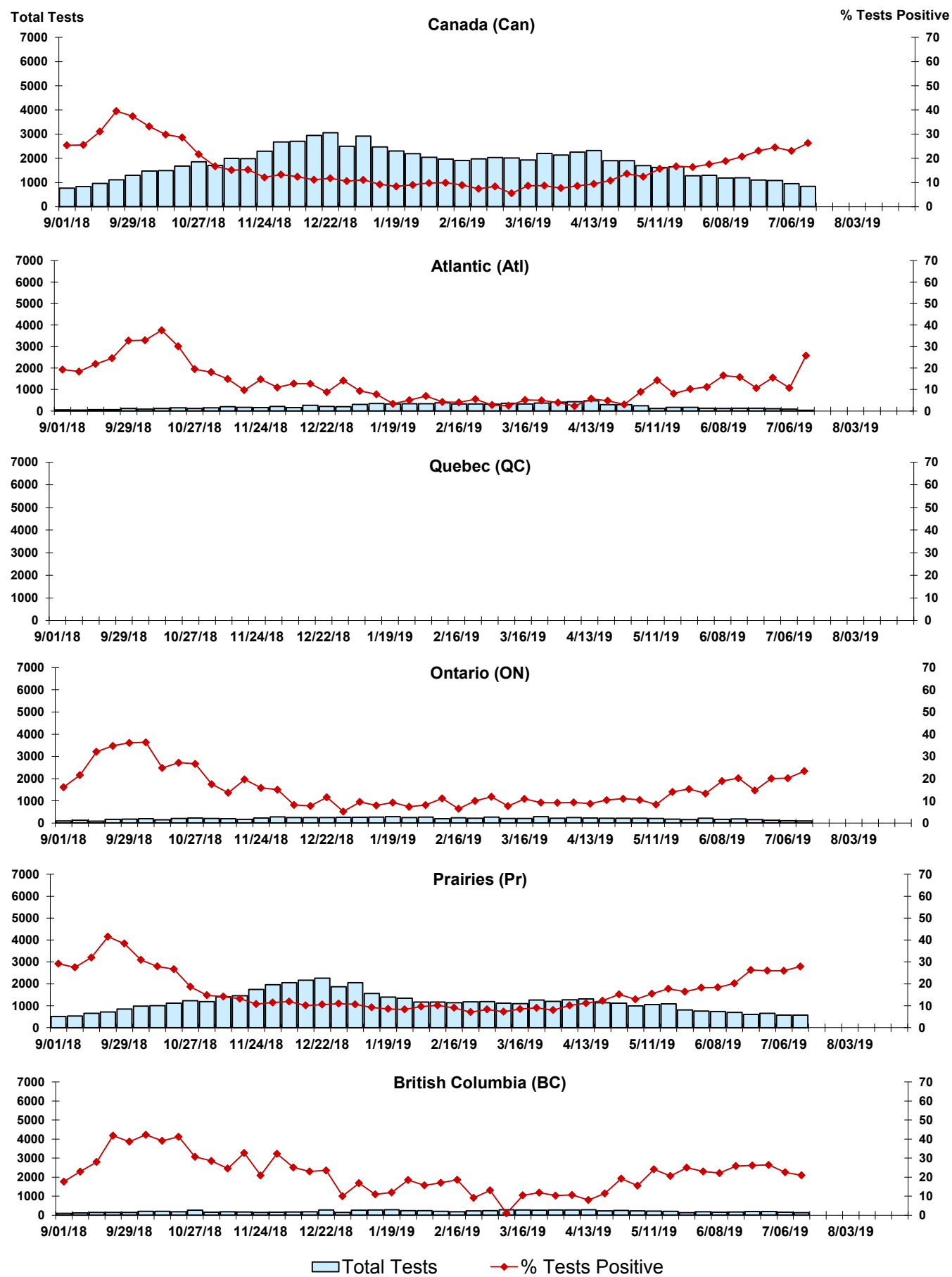
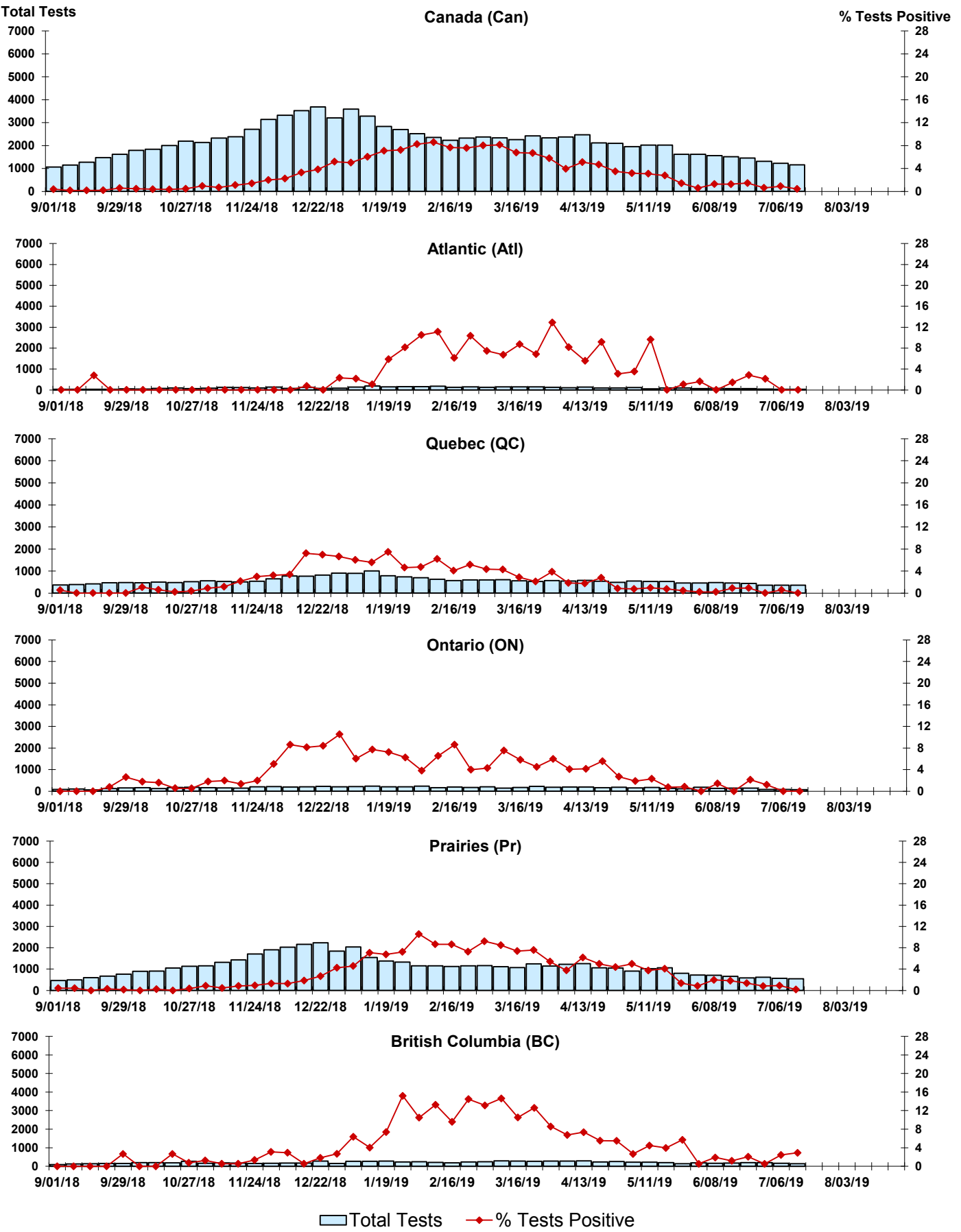


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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