

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 32 - ending August 10, 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 August 10, 2019 (Reporting Week 201932)

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	32	0	0	1	1	0	32	1	32	0	0	1	0	0	32	1	32	0	32	5	N.A.	N.A.
Prince Edward Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	13	0	0	0	0	0	13	0	7	0	0	0	0	0	7	0	7	0	7	2	7	0
New Brunswick	49	0	0	0	0	0	49	0	37	0	0	0	0	0	37	1	37	0	37	0	37	0
Atlantic	94	0	0	1	1	0	94	1	76	0	0	1	0	0	76	2	76	0	76	7	44	0
Région Nord-Est	5	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	28	0	0	0	0	0	22	0	35	0	0	0	0	0	35	3	0	0	N.A.	N.A.	34	0
Centre-du-Québec	6	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	346	0	0	2	2	0	362	0	307	1	1	0	0	0	307	8	0	0	N.A.	N.A.	299	1
Ouest du Québec	17	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	422	0	0	2	2	0	431	0	342	1	1	0	0	0	342	11	0	0	N.A.	N.A.	333	1
Ottawa P.H.L.	2	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0
CHEO - Ottawa	53	0	0	0	0	0	53	0	12	0	0	0	0	0	12	1	12	0	12	2	12	0
Kingston P.H.L.	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	5	0	1	0	0	0
UHN / Mount Sinai Hospital	112	0	0	2	2	0	112	1	5	0	0	0	0	0	0	0	5	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	151	0	1	0	1	0	151	0	148	1	0	0	0	0	148	2	137	3	11	0	0	0
Sick Kids Hospital - Toronto	25	0	0	0	0	0	25	0	25	0	0	1	0	0	25	0	25	0	25	4	25	0
Sunnybrook & Women's College HSC	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	3	0	3	0
Sault Ste. Marie P.H.L.	5	0	0	0	0	0	5	0	2	0	0	0	0	0	2	0	2	0	0	0	0	0
Timmins 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
St. Joseph's - London	16	0	0	0	0	0	16	0	16	0	0	0	0	0	16	1	0	0	15	5	15	0
London P.H.L.	24	0	0	0	0	0	24	0	24	0	0	0	0	0	24	0	23	0	1	0	0	0
Orillia P.H.L.	8	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
Thunder Bay 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
Sudbury P.H.L.	8	0	0	0	0	0	7	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
Hamilton P.H.L.	23	0	0	0	0	0	23	0	23	0	0	0	0	0	23	0	23	0	0	0	0	0
Peterborough P.H.L.	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
Province of Ontario	443	0	1	2	3	0	440	1	284	1	0	1	0	0	279	4	254	3	69	11	55	0
Manitoba	117	0	0	0	0	0	117	1	92	1	0	3	0	0	92	1	38	0	92	14	38	0
Regina	148	0	0	1	1	0	148	0	109	0	0	0	0	0	109	1	109	0	109	21	109	0
Saskatoon	55	0	0	0	0	0	55	0	55	1	0	0	0	0	55	2	55	1	55	13	55	0
Province of Saskatchewan	203	0	0	1	1	0	203	0	164	1	0	0	0	0	164	3	164	1	164	34	164	0
Province of Alberta	405	2	1	0	3	0	386	0	386	4	2	3	1	0	386	10	386	3	386	81	386	0
Prairies	725	2	1	1	4	0	706	1	642	6	2	6	1	0	642	14	588	4	642	129	588	0
British Columbia	187	0	11	0	11	0	187	0	109	2	0	2	1	0	109	2	109	0	105	28	105	0
Yukon	1	0	0	0	0	0	1	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	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	4	0	4	0
Nunavut	2	0	0	0	0	0	2	0	2	0	1	0	0	0	2	0	2	0	2	1	2	0
Territories	7	0	0	0	0	0	7	0	6	0	1	0	0	0	6	0	6	0	6	1	6	0
CANADA	1878	2	13	6	21	0	1865	3	1459	10	4	10	2	0	1454	33	1033	7	898	176	1131	1

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 - August 10, 2019 (Reporting Weeks 201835-201932)

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	5535	1	0	1035	1036	13	5535	490	5535	11	59	202	0	0	5535	52	5535	229	5535	383	N.A.	N.A.
Prince Edward Island	1271	221	56	2	279	2	1269	140	91	1	0	2	3	0	86	6	86	3	86	22	86	4
Nova Scotia	4231	0	0	786	786	22	4242	408	636	1	4	39	3	0	636	3	636	11	636	80	636	11
New Brunswick	15257	246	39	2598	2883	366	15256	1237	4031	2	18	137	45	0	4031	142	4031	152	4031	455	4031	179
Atlantic	26294	468	95	4421	4984	403	26302	2275	10293	15	81	380	51	0	10288	203	10288	395	10288	940	4753	194
Région Nord-Est	9674	0	0	1585	1585	68	7632	704	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16713	0	0	3144	3144	83	17030	1585	3750	10	34	106	12	0	3865	142	2888	50	N.A.	N.A.	3021	31
Centre-du-Québec	18968	0	0	3649	3649	225	15307	1592	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	45610	0	0	4688	4688	373	44492	3023	24936	144	165	512	40	0	24936	717	22278	499	N.A.	N.A.	24391	739
Ouest du Québec	13356	0	0	2702	2702	181	12256	1408	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	9505	0	0	1395	1396	54	9093	681	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	113826	0	0	17163	17164	984	105810	8993	28686	154	199	618	52	0	28837	859	25166	549	N.A.	N.A.	27412	770
Ottawa P.H.L.	1012	91	70	22	183	4	1007	88	605	0	3	8	0	0	605	1	566	9	45	0	0	0
CHEO - Ottawa	8931	0	0	863	863	50	8930	939	1071	6	13	29	6	0	1072	31	1071	18	1064	253	1040	41
Kingston P.H.L.	1051	67	71	12	150	16	1051	63	767	0	4	18	0	0	767	1	724	7	118	0	0	0
UHN / Mount Sinai Hospital	13588	6	15	762	783	62	13588	500	779	1	9	17	3	0	0	0	708	8	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	16091	897	720	98	1715	87	15650	543	13119	37	61	187	0	0	13120	75	12687	191	670	0	0	0
Sick Kids Hospital - Toronto	3207	115	47	123	285	40	2791	226	2791	37	37	76	27	0	2791	91	2791	122	2791	681	2791	138
Sunnybrook & Women's College HSC	2832	74	101	11	186	6	2832	62	2832	14	5	33	4	0	2832	1	2832	87	2832	231	2832	100
Sault Ste. Marie P.H.L.	454	47	42	3	92	0	386	18	353	0	3	2	0	0	353	0	343	5	14	0	0	0
Timmins P.H.L.	423	60	10	1	71	0	352	12	350	0	7	6	0	0	350	0	342	1	24	0	0	0
St. Joseph's - London	4896	3	1	530	534	6	4768	361	1811	8	6	43	15	0	1811	41	1780	56	1338	218	1087	21
London P.H.L.	4417	320	205	60	585	18	4379	333	3172	6	23	59	0	0	3172	20	3037	43	249	0	0	0
Orillia P.H.L.	1363	67	78	23	168	2	1361	128	1005	3	2	25	0	0	1005	1	988	19	49	0	0	0
Thunder Bay P.H.L.	477	32	45	8	85	0	383	18	370	1	1	15	0	0	369	7	350	9	31	0	0	0
Sudbury P.H.L.	978	48	22	0	70	0	915	33	886	5	4	9	0	0	886	3	829	13	88	0	0	0
Hamilton P.H.L.	4317	236	225	33	494	14	4218	136	3465	17	15	82	0	0	3465	25	3397	52	182	0	0	0
Peterborough P.H.L.	1308	44	78	22	144	3	1304	50	1058	5	4	14	0	0	1058	1	1035	12	27	0	0	0
Province of Ontario	65345	2107	1730	2571	6408	308	63915	3510	34434	140	197	623	55	0	33656	298	33480	652	9823	1404	8020	310
Manitoba	11918	335	131	727	1193	77	11291	634	5398	11	22	173	13	0	5398	63	3336	89	5398	690	3369	132
Regina	9437	1433	150	182	1765	88	9437	563	10980	4	65	240	38	0	9047	152	9047	183	9047	1667	9047	310
Saskatoon	7187	0	0	889	889	51	7187	446	7187	6	7	56	15	48	7187	73	7187	154	7187	607	7187	103
Province of Saskatchewan	16624	1433	150	1071	2654	139	16624	1009	18167	10	72	296	53	48	16234	225	16234	337	16234	2274	16234	413
Province of Alberta	42008	3647	1390	2225	7262	369	34706	0	34706	100	251	1107	260	0	34706	515	34706	1000	34706	5406	34706	1389
Prairies	70550	5415	1671	4023	11109	585	62621	1643	58271	121	345	1576	326	48	56338	803	54276	1426	56338	8370	54309	1934
British Columbia	28609	3165	1680	1624	6469	242	28572	1586	13106	33	82	516	118	0	13055	182	13056	79	10151	2047	10151	514
Yukon	421	66	33	39	138	0	421	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	823	175	6	0	181	3	818	0	818	6	0	32	4	0	818	27	818	11	818	146	818	47
Nunavut	128	20	0	0	20	0	128	0	128	4	1	4	0	0	128	18	127	0	128	38	127	9
Territories	1372	261	39	39	339	3	1367	18	946	10	1	36	4	0	946	45	945	11	946	184	945	56
CANADA	305996	11416	5215	29841	46473	2525	288587	18025	145736	473	905	3749	606	48	143120	2390	137211	3112	87546	12945	105590	3778

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

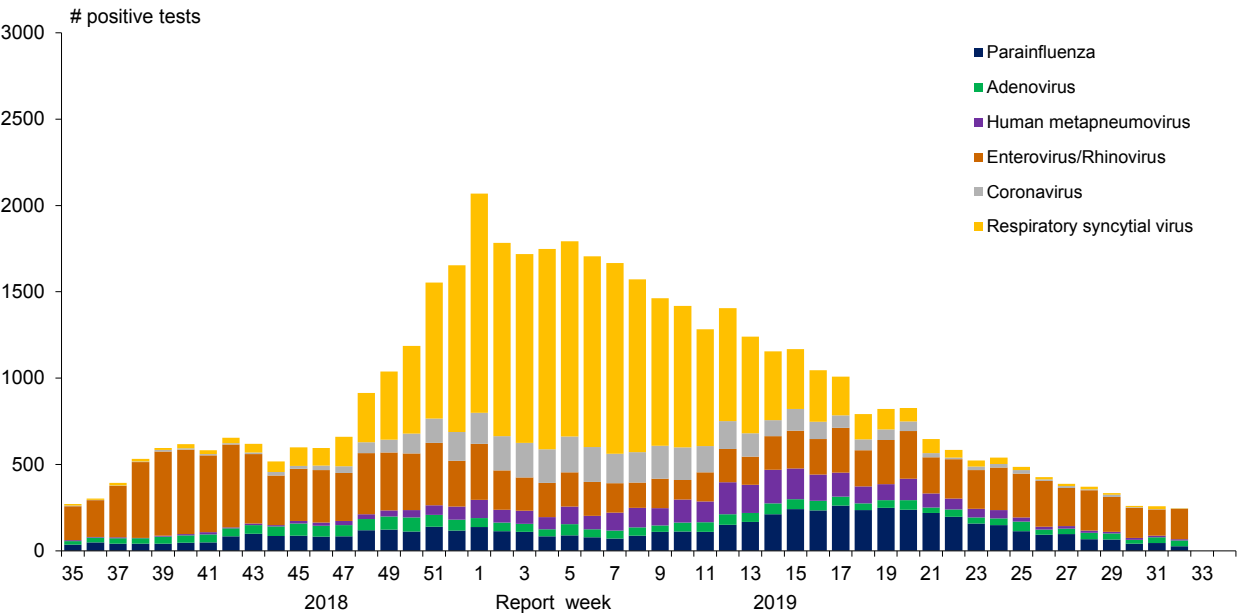


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

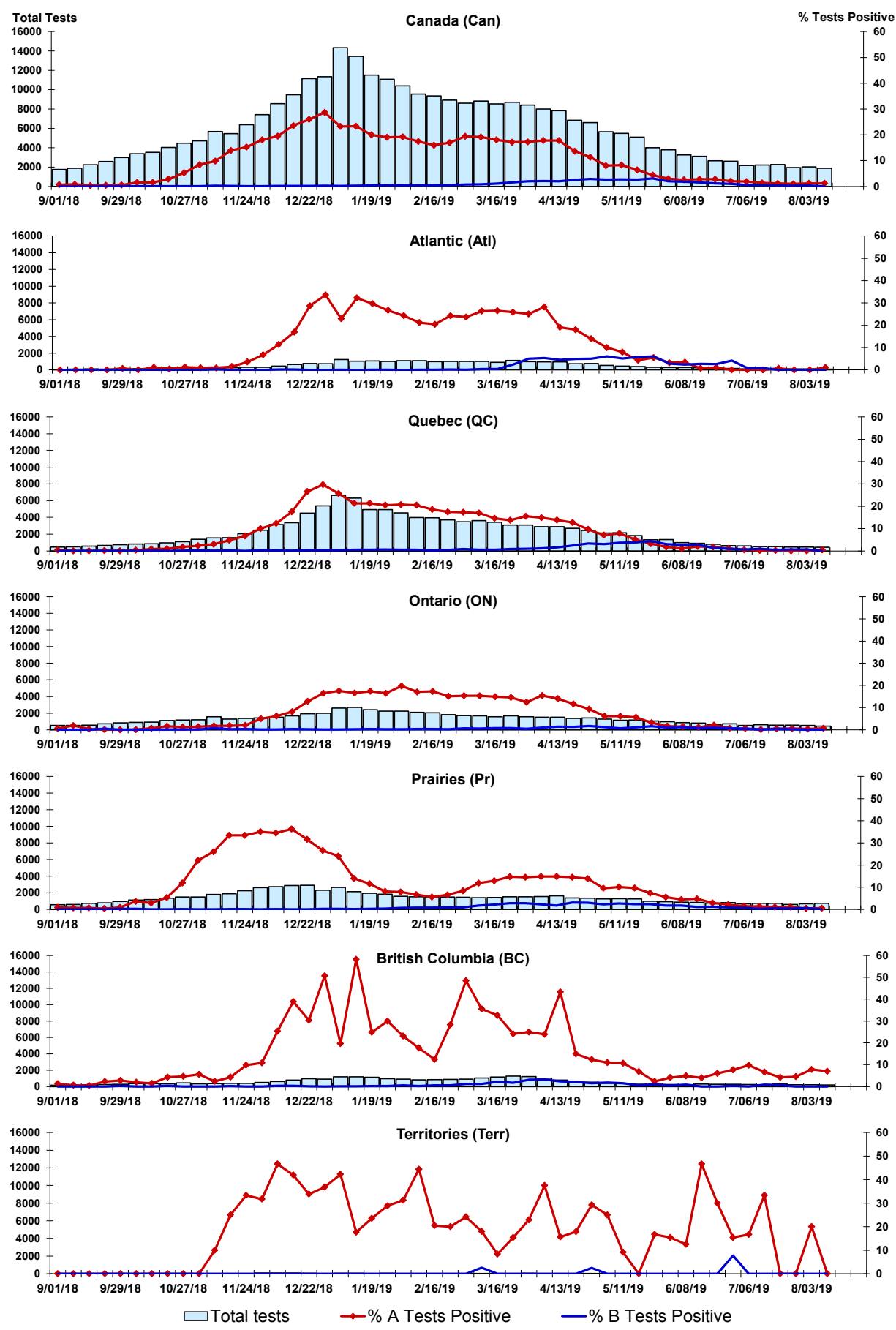


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

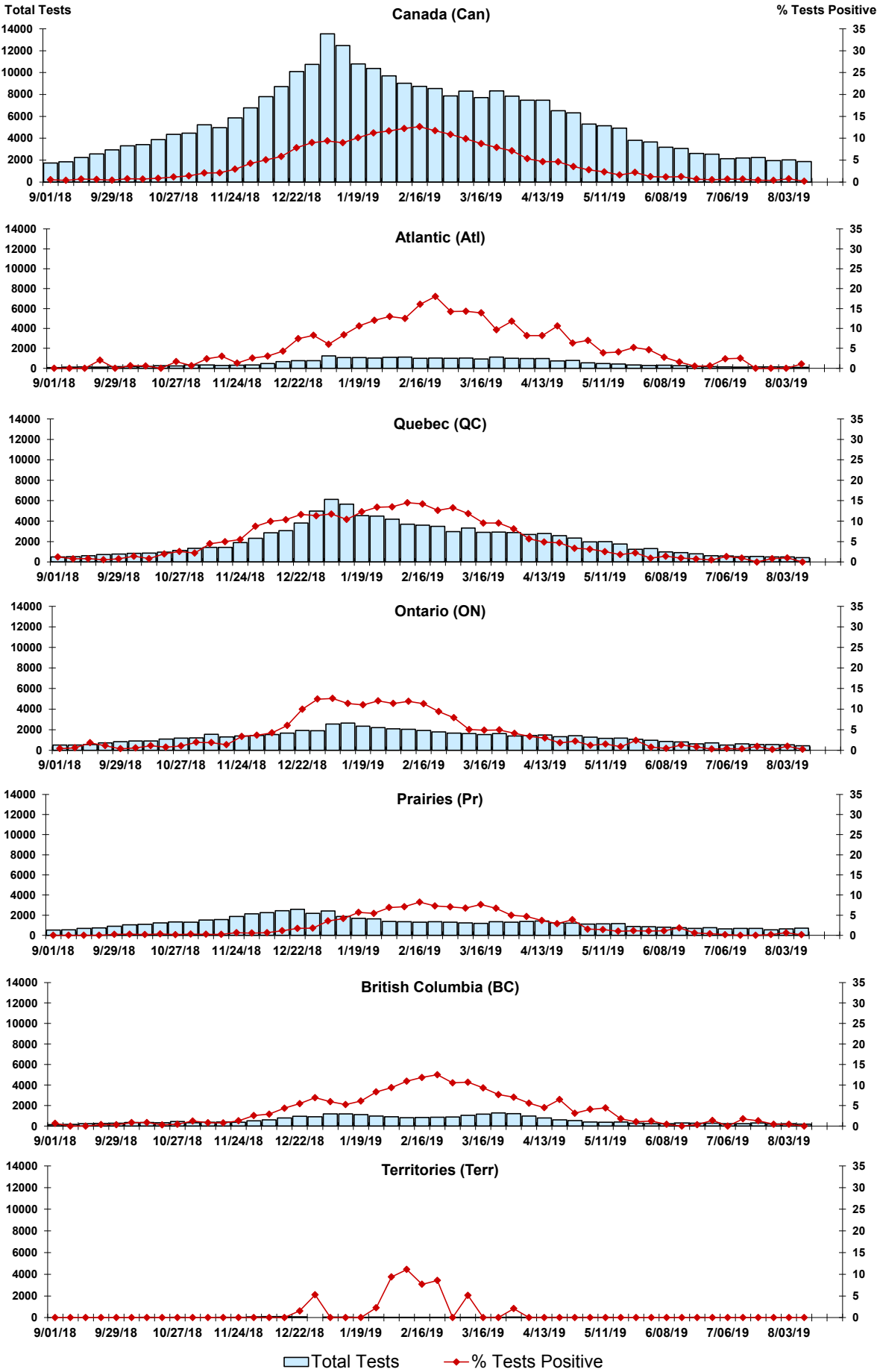


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

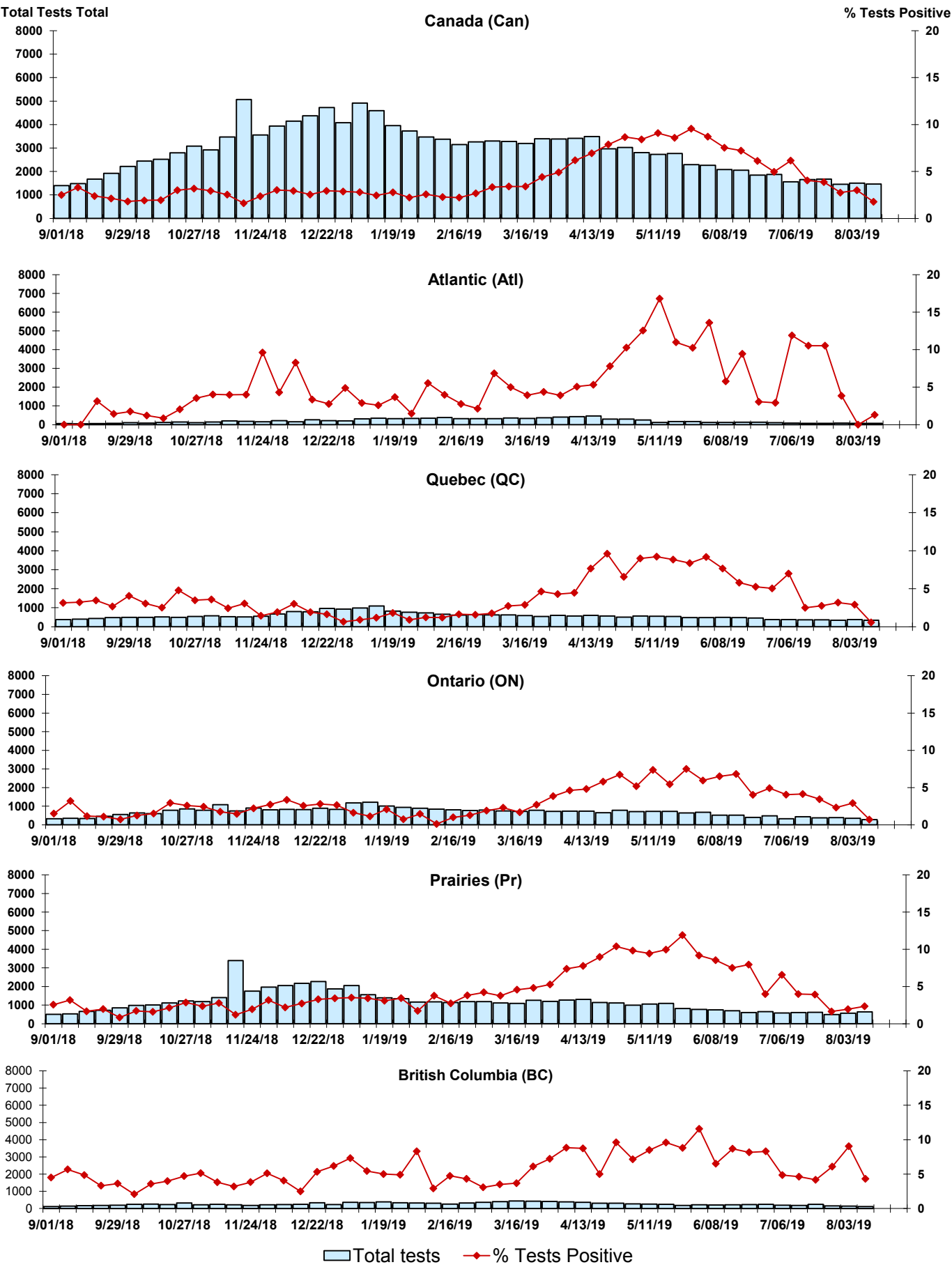


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

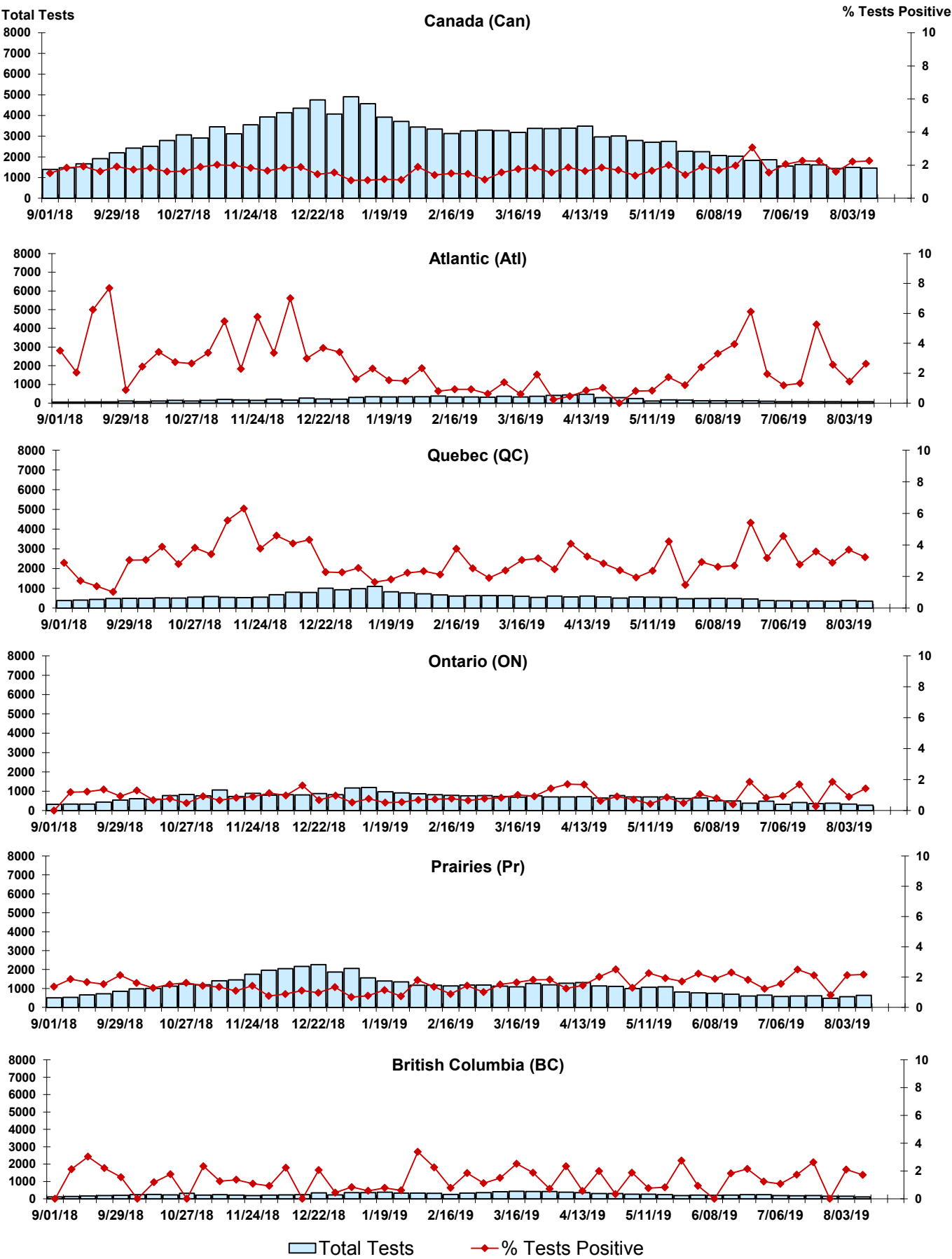
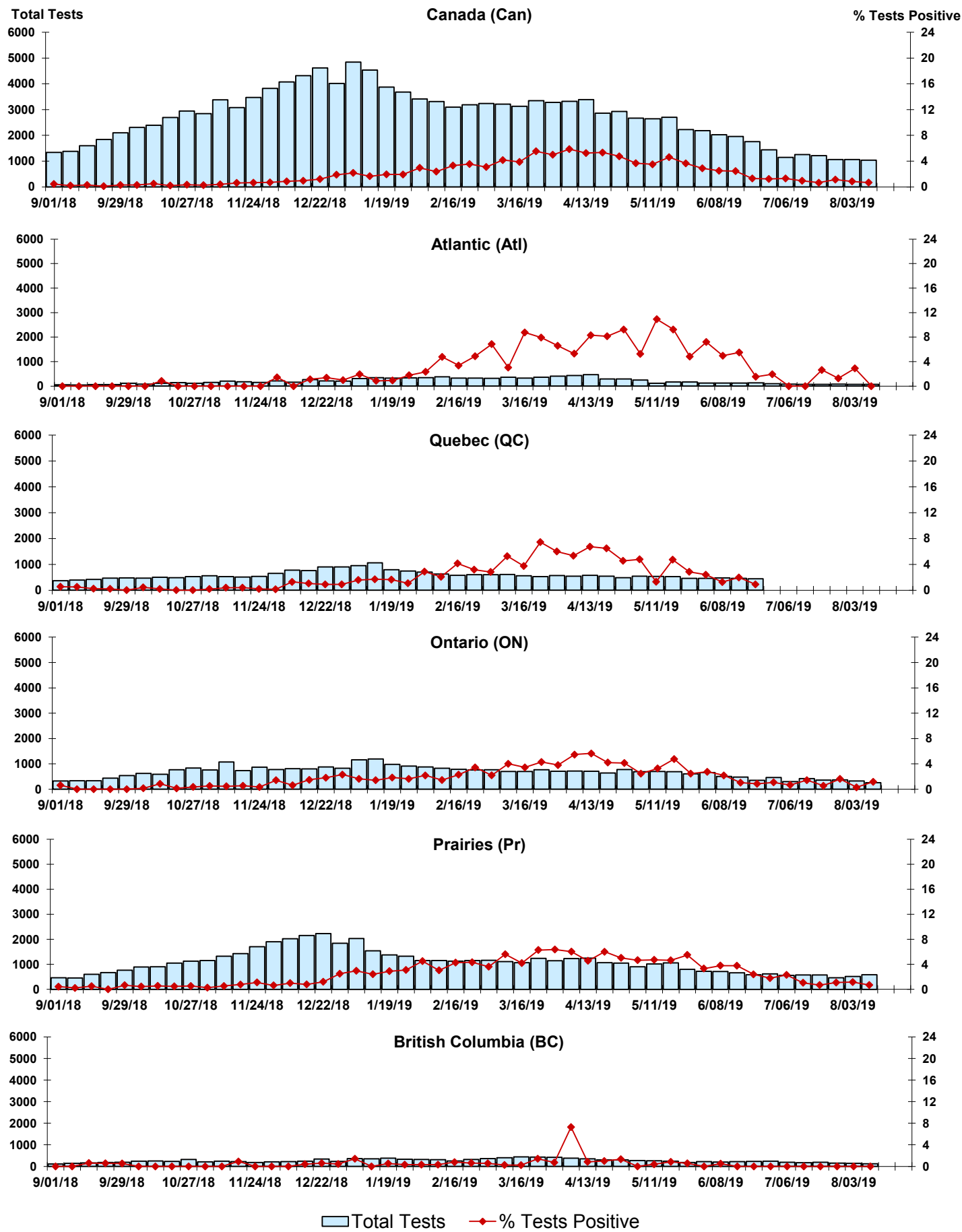


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



■ Total Tests —◆ % Tests Positive

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

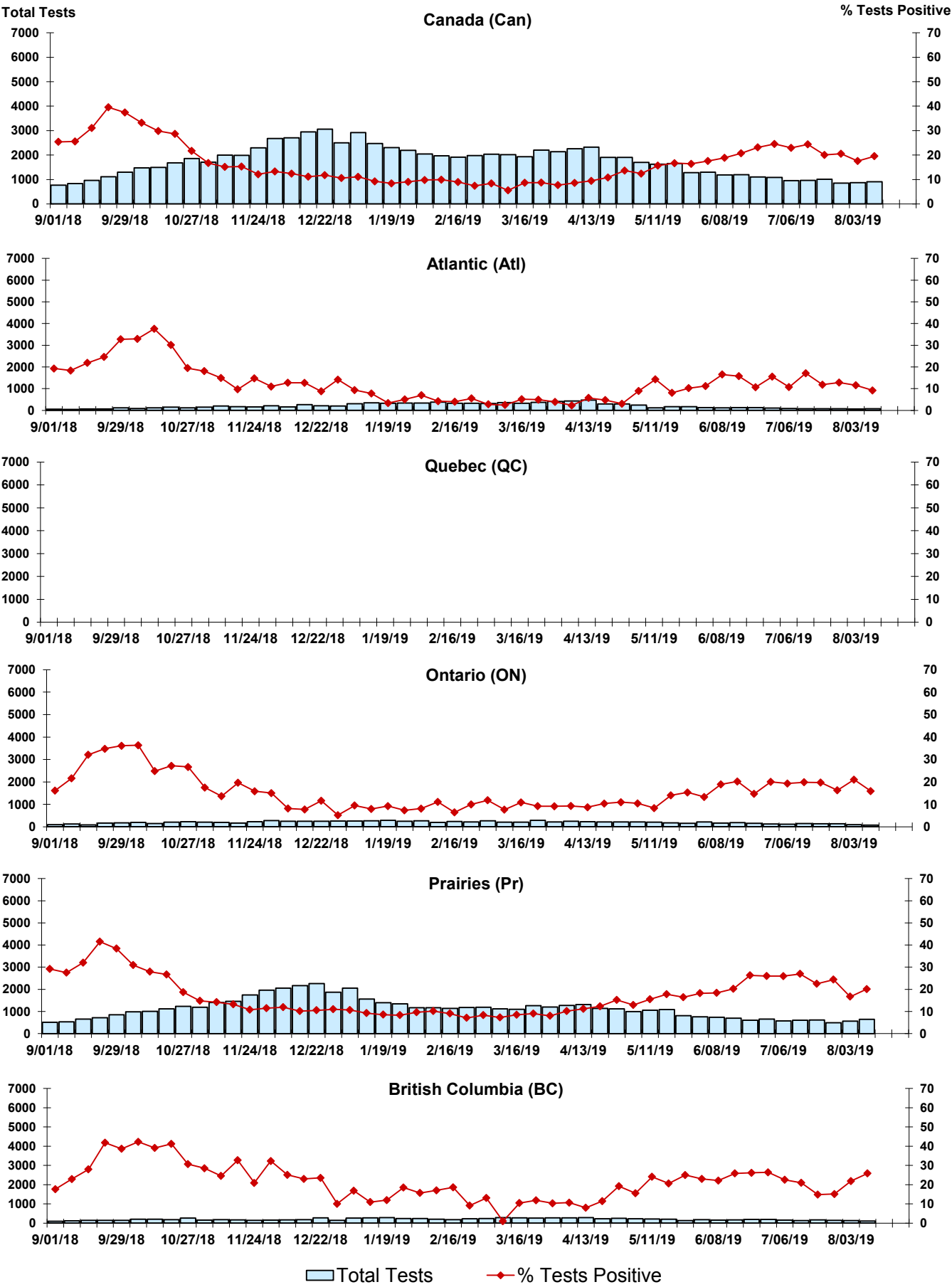
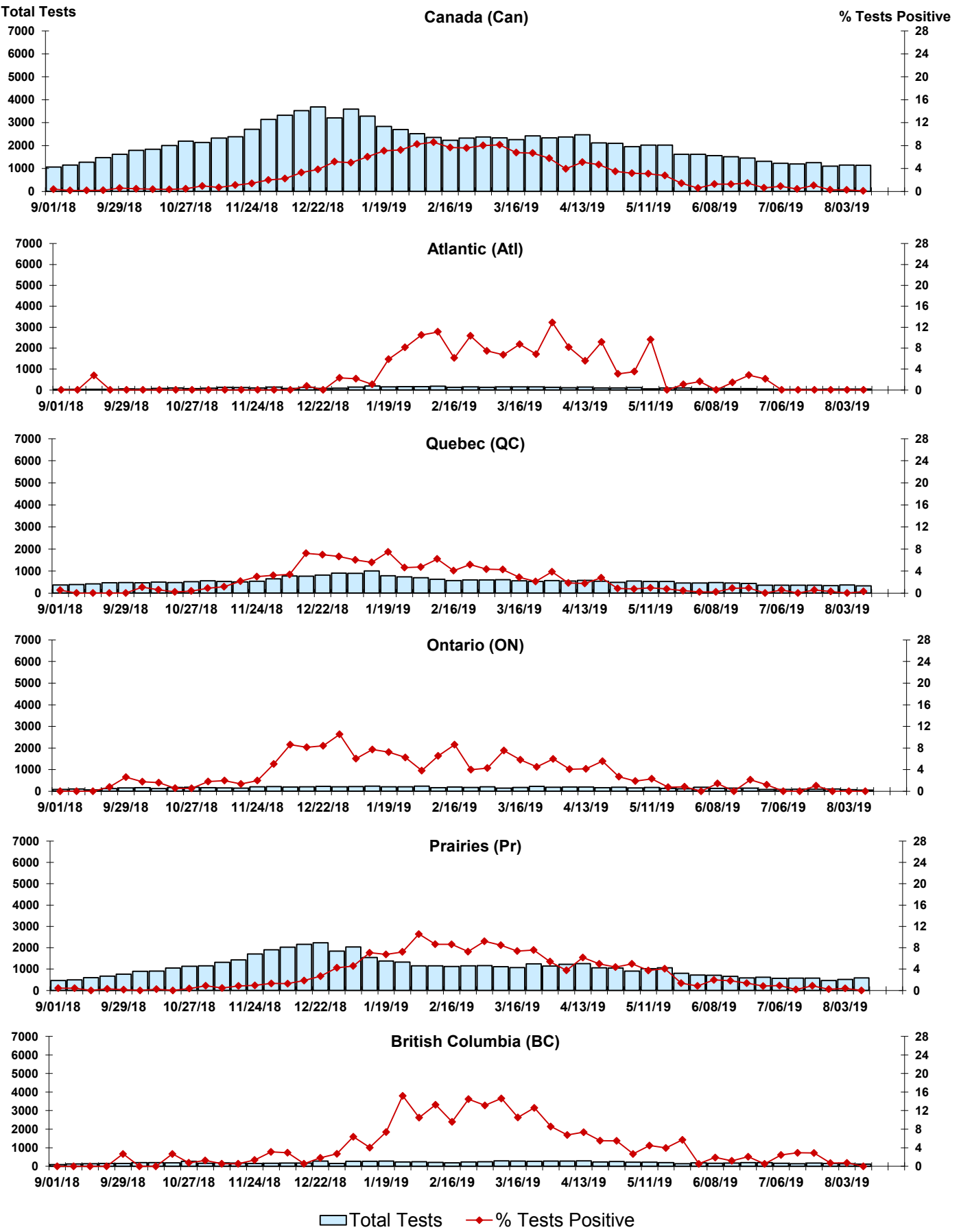


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



Abbreviations:

A(H1N1)pdm09: Influenza A(H1N1)pdm09	HSC: Health Sciences Centre
A(H3): Influenza A(H3N2)	N.A.: Not Applicable
A (UnS): Influenza A (Unsubtyped)	P.H.L.: Public Health Laboratory
Adeno: Adenovirus	P.H.O.L.: Public Health Ontario Laboratory
CHEO: Children's Hospital of Eastern Ontario	PIV: Parainfluenza
Coron: Coronavirus	Rhino: Rhinovirus
Entero: Enterovirus	RSV: Respiratory syncytial virus
hMPV: human metapneumovirus	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.