

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 25 - ending June 22, 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 June 22, 2019 (Reporting Week 201925)

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	60	0	0	0	0	1	60	0	60	0	0	3	0	0	60	1	60	1	60	5	N.A.	N.A.
Prince Edward Island	5	0	0	0	0	0	5	0	3	0	0	0	0	0	3	1	3	0	3	0	3	1
Nova Scotia	25	0	0	0	0	0	25	0	16	0	0	1	0	0	16	2	16	0	16	1	16	0
New Brunswick	101	0	0	2	2	4	101	1	52	0	0	0	0	0	52	4	52	1	52	8	52	1
Atlantic	191	0	0	2	2	5	191	1	131	0	0	4	0	0	131	8	131	2	131	14	71	2
Région Nord-Est	46	0	0	0	0	0	37	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	74	0	0	0	0	0	78	0	68	0	0	4	0	0	73	7	63	1	N.A.	N.A.	63	0
Centre-du-Québec	46	0	0	2	2	0	41	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	517	0	0	9	9	8	537	4	389	6	0	14	0	0	389	18	376	3	N.A.	N.A.	376	4
Ouest du Québec	58	0	0	2	2	2	57	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	51	0	0	1	1	1	51	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	792	0	0	14	14	11	801	6	457	6	0	18	0	0	462	25	439	4	N.A.	N.A.	439	4
Ottawa P.H.L.	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	3	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.	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
UHN / Mount Sinai Hospital	174	0	0	3	3	1	174	4	19	0	0	1	0	0	0	0	0	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	144	0	1	1	2	2	144	1	143	3	0	6	0	0	143	3	137	1	6	0	0	0
Sick Kids Hospital - Toronto	61	0	0	1	1	1	61	0	61	0	0	0	0	0	61	1	61	1	61	10	61	2
Sunnybrook & Women's College HSC	16	1	1	0	2	0	16	0	16	0	0	0	0	0	16	0	16	0	16	0	16	0
Sault Ste. Marie P.H.L.	2	0	2	0	2	0	2	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	48	0	0	0	0	0	48	0	48	1	0	0	0	0	48	2	33	0	33	4	41	0
London P.H.L.	27	0	0	0	0	0	27	0	25	0	0	1	0	0	25	0	25	1	0	0	0	0
Orillia P.H.L.	8	0	0	0	0	0	8	0	2	0	0	0	0	0	2	0	2	0	0	0	0	0
Thunder Bay P.H.L.	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	4	0	1	0	0	0
Sudbury P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
Hamilton P.H.L.	19	0	0	1	1	0	19	0	19	0	0	1	0	0	19	0	18	0	1	0	0	0
Peterborough P.H.L.	20	0	0	0	0	0	20	0	14	0	0	2	0	0	14	1	14	0	0	0	0	0
Province of Ontario	534	1	4	6	11	4	534	5	362	4	0	11	0	0	343	7	318	3	120	14	118	2
Manitoba	103	1	0	1	2	2	90	0	59	1	1	5	0	0	59	4	39	2	59	14	39	0
Regina	108	0	0	2	2	0	108	4	52	0	0	3	0	0	52	2	52	3	52	21	52	2
Saskatoon	78	0	0	0	0	1	78	0	78	0	0	2	1	0	78	0	78	1	78	18	78	0
Province of Saskatchewan	186	0	0	2	2	1	186	4	130	0	0	5	1	0	130	2	130	4	130	39	130	2
Province of Alberta	439	0	15	2	17	5	398	0	398	7	0	23	1	0	398	5	398	8	398	100	398	6
Prairies	728	1	15	5	21	8	674	4	587	8	1	33	2	0	587	11	567	14	587	153	567	8
British Columbia	282	0	12	3	15	0	282	1	224	0	0	13	5	0	224	5	224	0	186	53	186	4
Yukon	10	0	5	1	6	0	10	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	6	0	0	0	0	0	6	0	6	1	0	1	0	0	6	0	6	0	6	4	6	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Territories	17	0	5	1	6	0	17	0	7	1	0	1	0	0	7	0	7	0	7	4	7	0
CANADA	2544	2	36	31	69	28	2499	17	1768	19	1	80	7	0	1754	56	1686	23	1031	238	1388	20

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 - June 22, 2019 (Reporting Weeks 201835-201925)

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	5266	1	0	1034	1035	5	5266	486	5266	10	58	188	0	0	5266	46	5266	225	5266	343	N.A.	N.A.
Prince Edward Island	1266	221	56	1	278	2	1264	140	89	1	0	2	3	0	84	6	84	3	84	22	84	4
Nova Scotia	4122	0	0	786	786	22	4133	408	573	0	4	35	3	0	573	3	573	9	573	69	573	11
New Brunswick	14729	246	39	2598	2883	365	14728	1233	3803	0	18	129	43	0	3803	135	3803	151	3803	434	3803	178
Atlantic	25383	468	95	4419	4982	394	25391	2267	9731	11	80	354	49	0	9726	190	9726	388	9726	868	4460	193
Région Nord-Est	9539	0	0	1585	1585	67	7511	704	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16452	0	0	3142	3142	80	16752	1583	3424	9	33	96	9	0	3534	124	2888	50	N.A.	N.A.	2714	31
Centre-du-Québec	18817	0	0	3649	3649	221	15158	1589	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	42945	0	0	4679	4679	361	41732	3006	22723	114	161	473	40	0	22723	648	22278	499	N.A.	N.A.	22227	733
Ouest du Québec	13185	0	0	2701	2701	180	12089	1407	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	9292	0	0	1393	1394	52	8880	679	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	110230	0	0	17149	17150	961	102122	8968	26147	123	194	569	49	0	26293	772	25166	549	N.A.	N.A.	24941	764
Ottawa P.H.L.	976	91	70	22	183	4	971	88	570	0	3	8	0	0	570	1	539	9	37	0	0	0
CHEO - Ottawa	8416	0	0	860	860	43	8415	936	924	5	11	27	6	0	925	28	924	18	917	219	896	39
Kingston P.H.L.	1002	67	71	12	150	16	1002	63	718	0	4	18	0	0	718	1	681	7	104	0	0	0
UHN / Mount Sinai Hospital	12572	6	15	754	775	56	12572	489	703	1	9	16	3	0	0	0	632	8	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	14819	893	714	99	1706	87	14382	541	11861	27	61	163	0	0	11862	62	11497	185	574	0	0	0
Sick Kids Hospital - Toronto	2913	115	46	123	284	40	2497	225	2497	24	37	67	26	0	2497	86	2497	106	2497	599	2497	137
Sunnybrook & Women's College HSC	2795	74	101	11	186	6	2795	62	2795	13	5	32	2	0	2795	1	2795	87	2795	221	2795	100
Sault Ste. Marie P.H.L.	441	47	42	3	92	0	373	18	341	0	3	2	0	0	341	0	335	5	10	0	0	0
Timmins P.H.L.	402	60	10	1	71	0	331	12	329	0	7	6	0	0	329	0	321	1	21	0	0	0
St. Joseph's - London	4760	3	0	530	533	6	4632	361	1676	6	6	42	15	0	1676	36	1661	54	1211	187	964	21
London P.H.L.	4241	320	205	60	585	18	4203	333	2999	6	23	52	0	0	2999	20	2878	43	221	0	0	0
Orillia P.H.L.	1300	67	78	23	168	2	1300	128	942	2	2	25	0	0	942	1	928	18	42	0	0	0
Thunder Bay P.H.L.	459	32	45	8	85	0	365	18	352	1	1	15	0	0	351	4	335	9	27	0	0	0
Sudbury P.H.L.	942	48	22	0	70	0	880	33	853	5	4	9	0	0	853	3	800	13	84	0	0	0
Hamilton P.H.L.	4103	236	224	34	494	14	4004	136	3254	14	15	78	0	0	3254	25	3197	52	168	0	0	0
Peterborough P.H.L.	1197	44	78	22	144	3	1193	49	942	3	4	11	0	0	942	1	927	12	18	0	0	0
Province of Ontario	61338	2103	1721	2562	6386	295	59915	3492	31756	107	195	571	52	0	31054	269	30947	627	8975	1242	7408	307
Manitoba	11189	334	131	728	1193	73	10604	631	4912	8	21	156	12	0	4912	57	3083	89	4912	603	3117	132
Regina	8723	1433	150	169	1752	83	8723	558	10600	4	64	229	35	0	8667	143	8667	179	8667	1550	8667	309
Saskatoon	6716	0	0	887	887	48	6716	444	6716	3	7	51	15	48	6716	60	6716	150	6716	503	6716	102
Province of Saskatchewan	15439	1433	150	1056	2639	131	15439	1002	17316	7	71	280	50	48	15383	203	15383	329	15383	2053	15383	411
Province of Alberta	38990	3642	1356	2220	7218	357	31888	0	31888	72	239	1051	251	0	31888	468	31888	959	31888	4747	31888	1372
Prairies	65618	5409	1637	4004	11050	561	57931	1633	54116	87	331	1487	313	48	52183	728	50354	1377	52183	7403	50388	1915
British Columbia	26902	3159	1592	1603	6354	237	26865	1572	11827	18	72	470	114	0	11827	164	11827	79	9056	1817	9056	498
Yukon	399	65	28	38	131	0	399	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	799	175	6	0	181	2	794	0	794	6	0	32	4	0	794	26	794	11	794	140	794	47
Nunavut	121	20	0	0	20	0	121	0	121	4	0	4	0	0	121	18	120	0	121	34	120	9
Territories	1319	260	34	38	332	2	1314	18	915	10	0	36	4	0	915	44	914	11	915	174	914	56
CANADA	290790	11399	5079	29775	46254	2450	273538	17950	134492	356	872	3487	581	48	131998	2167	128934	3031	80855	11504	97167	3733

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

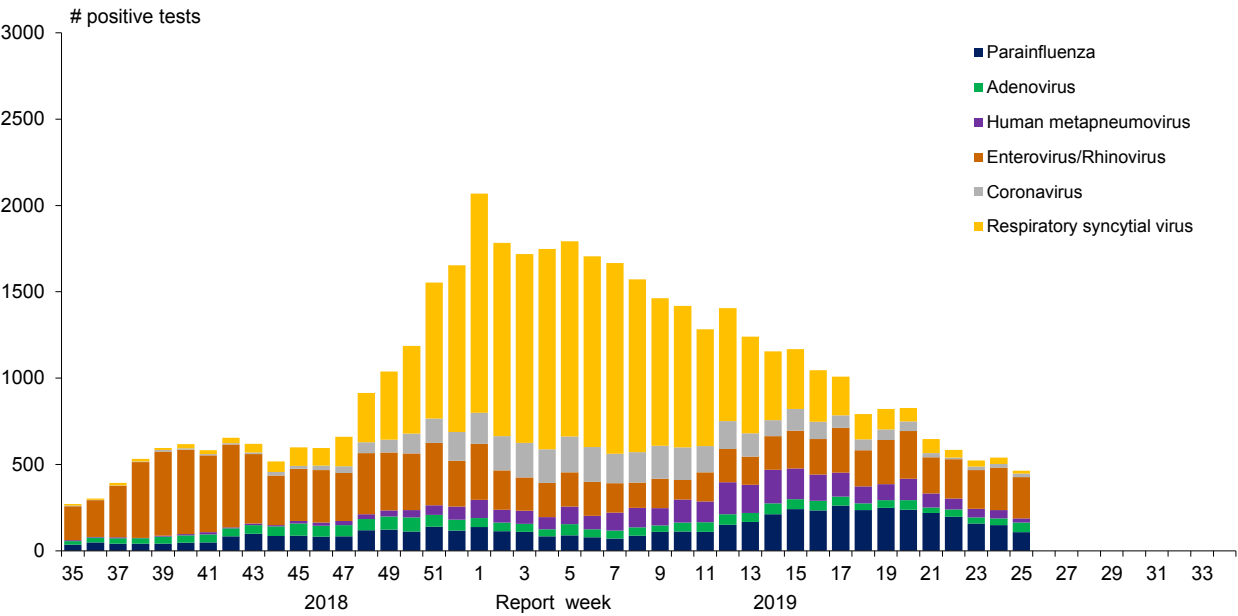


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

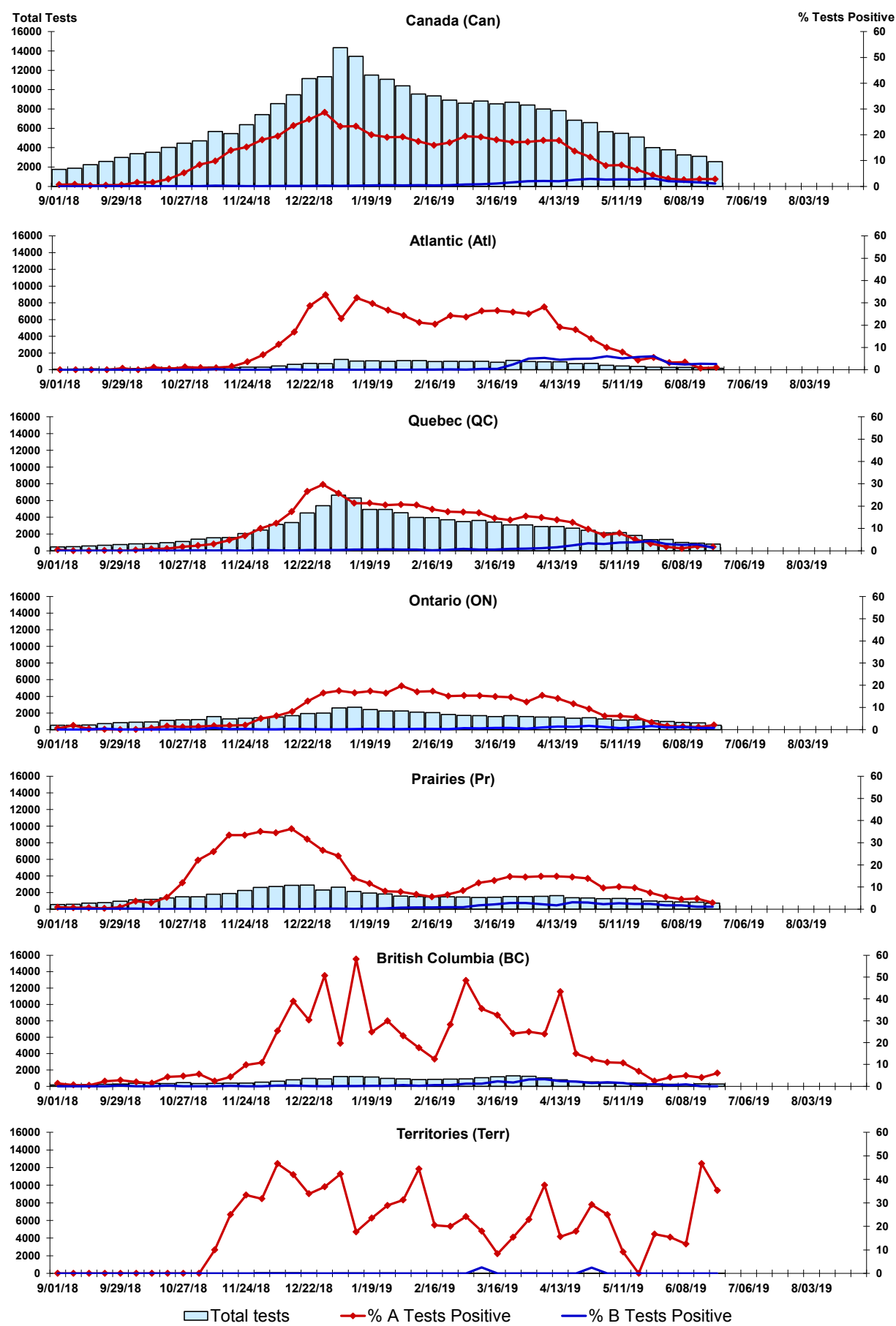


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

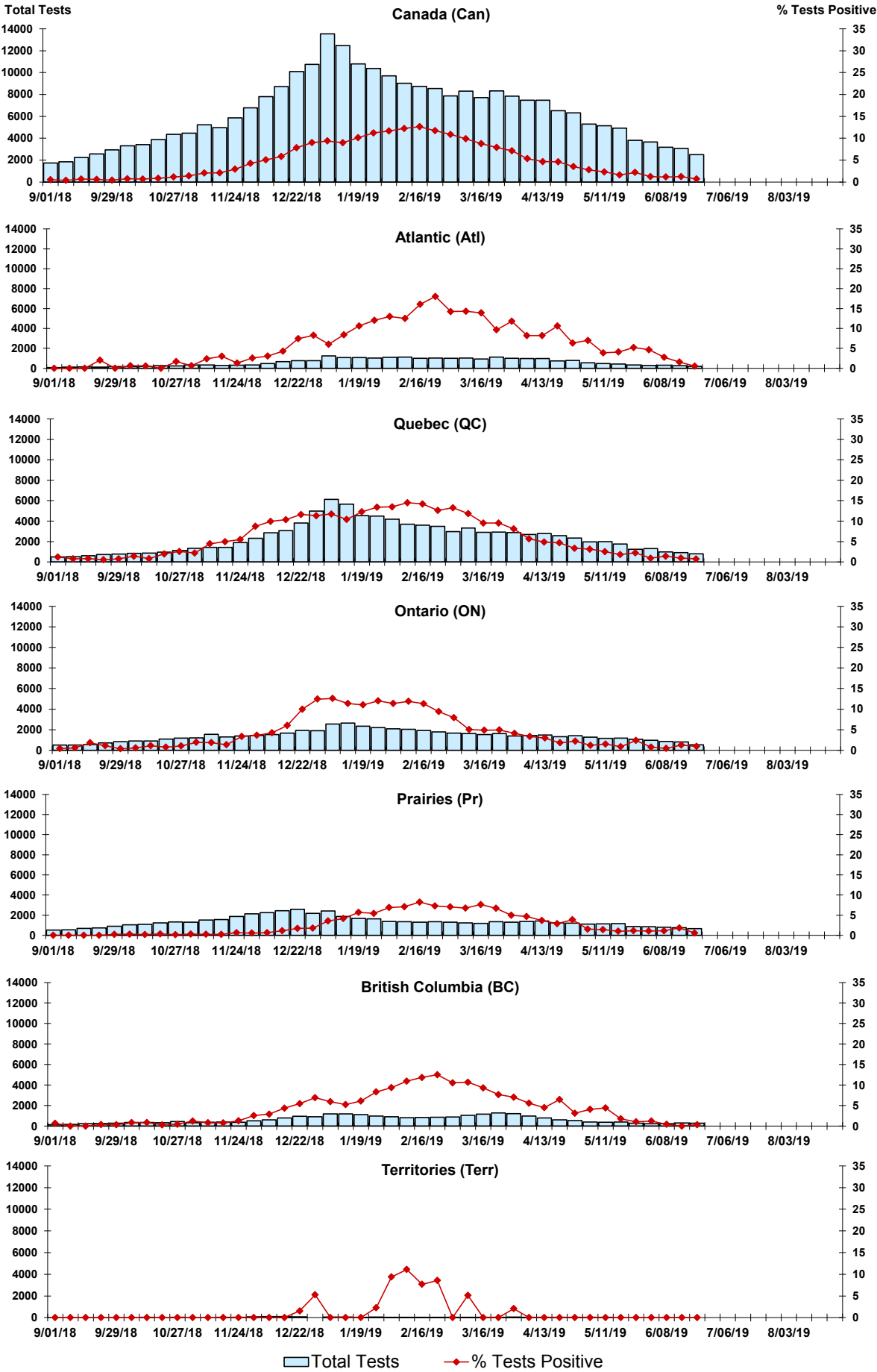


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

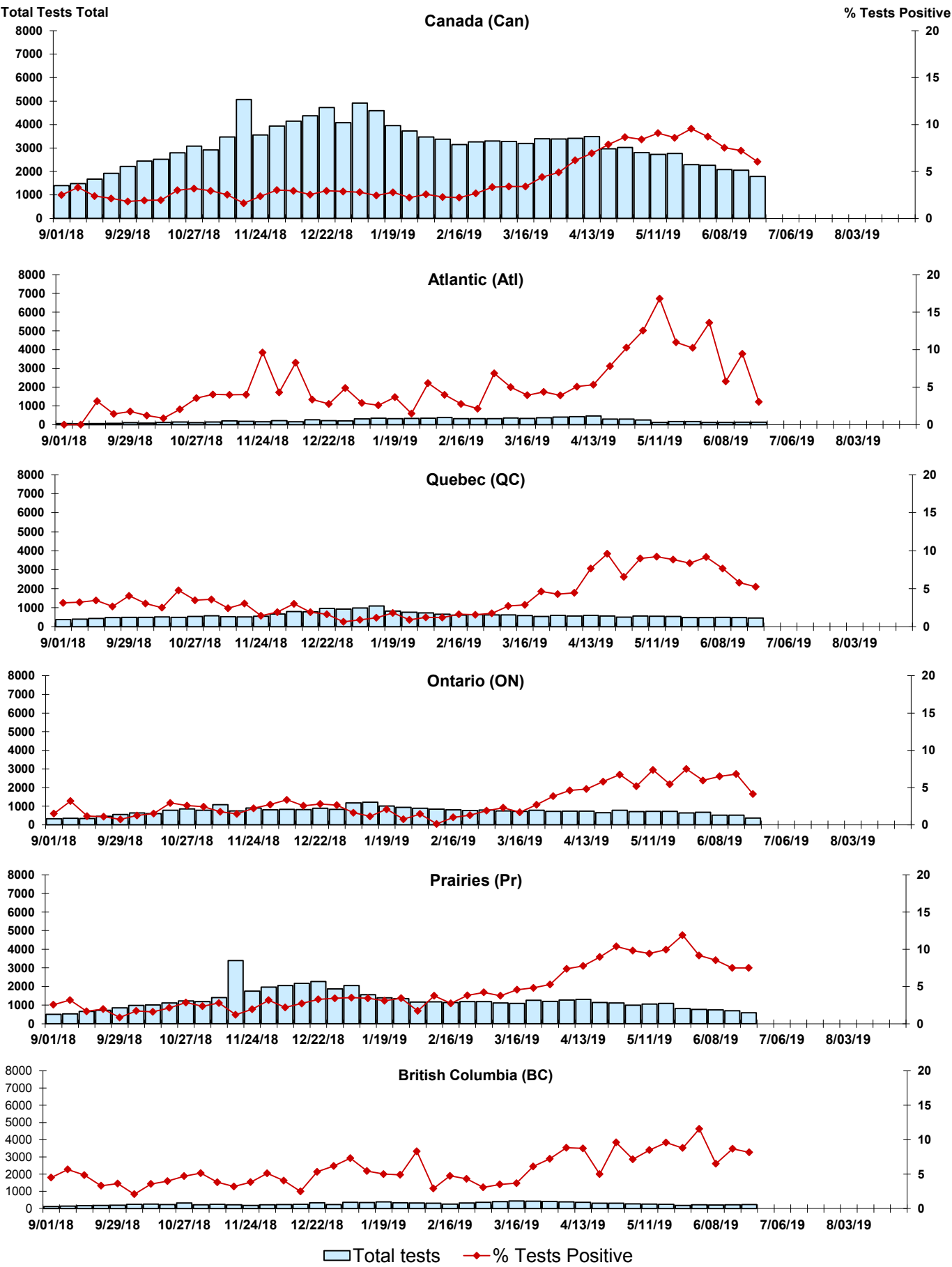


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

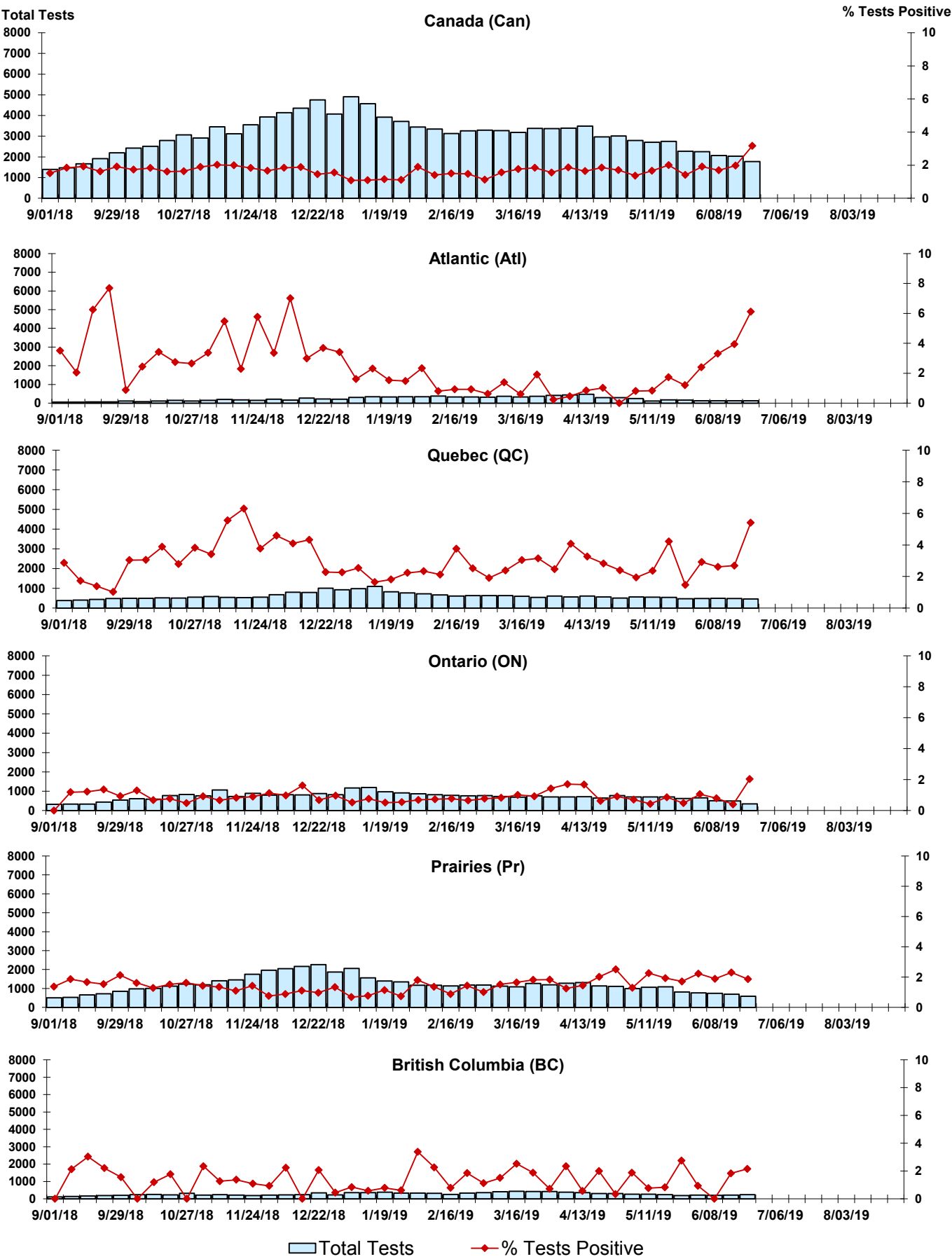
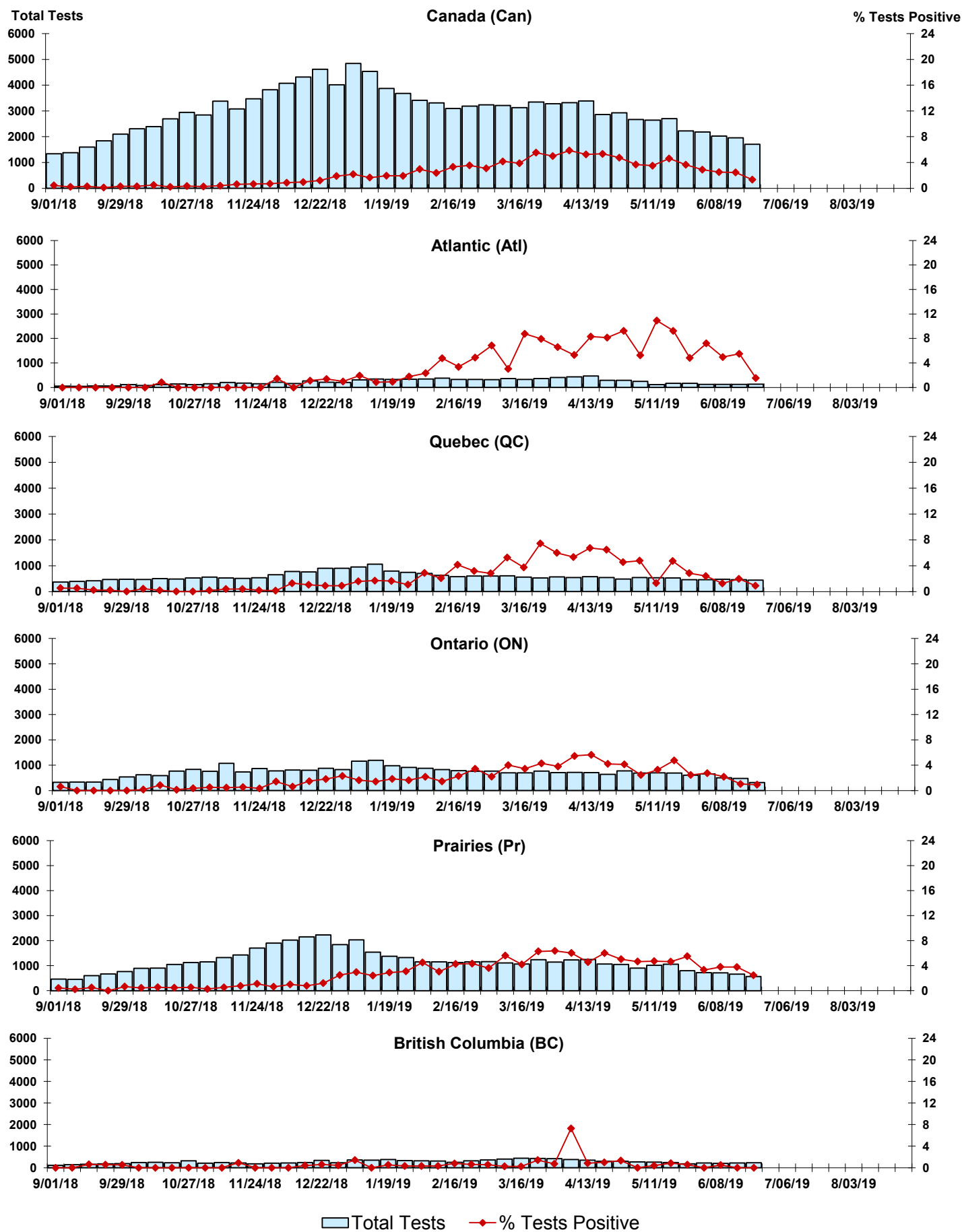


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



■ Total Tests —◆— % Tests Positive

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

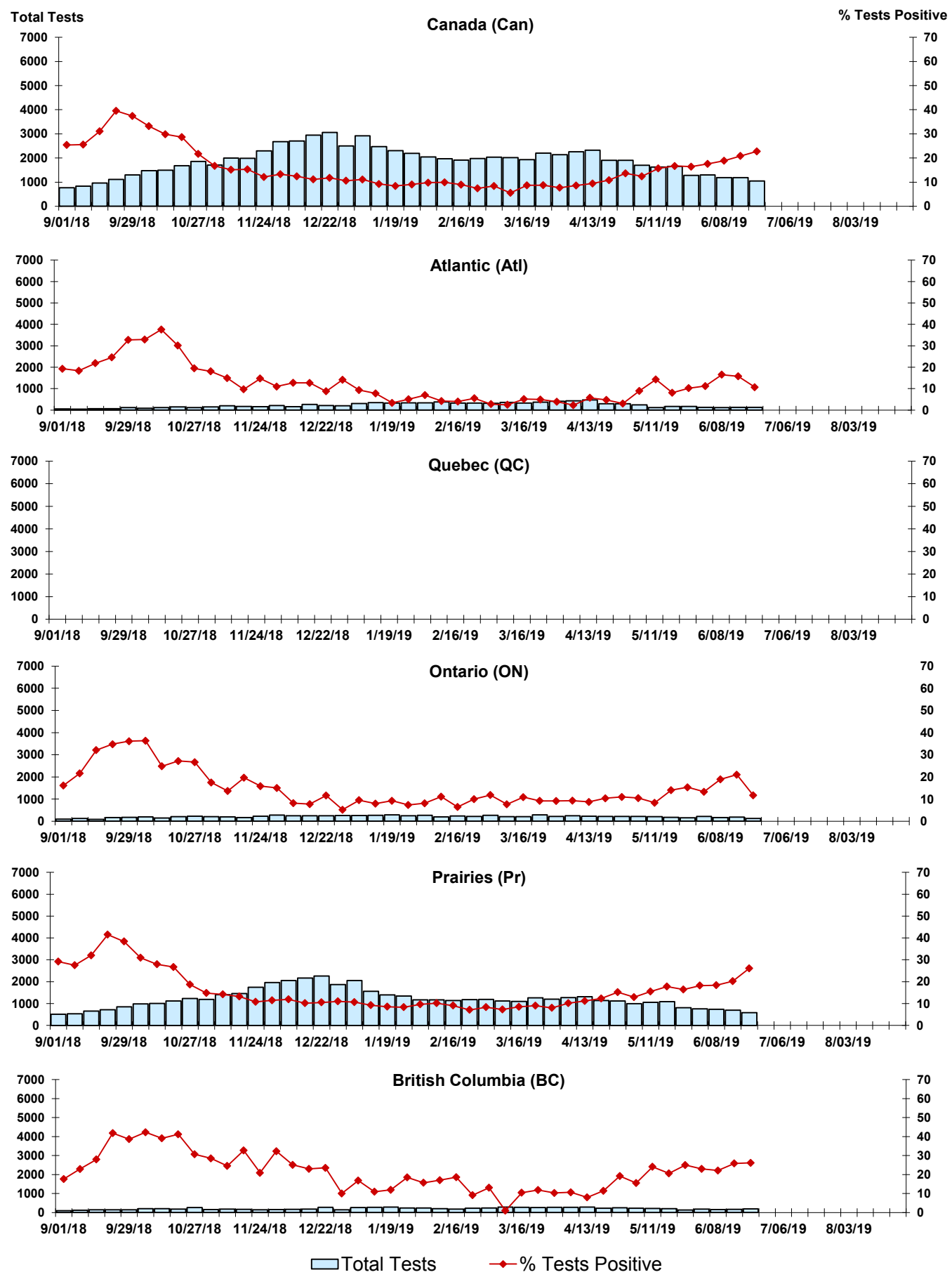
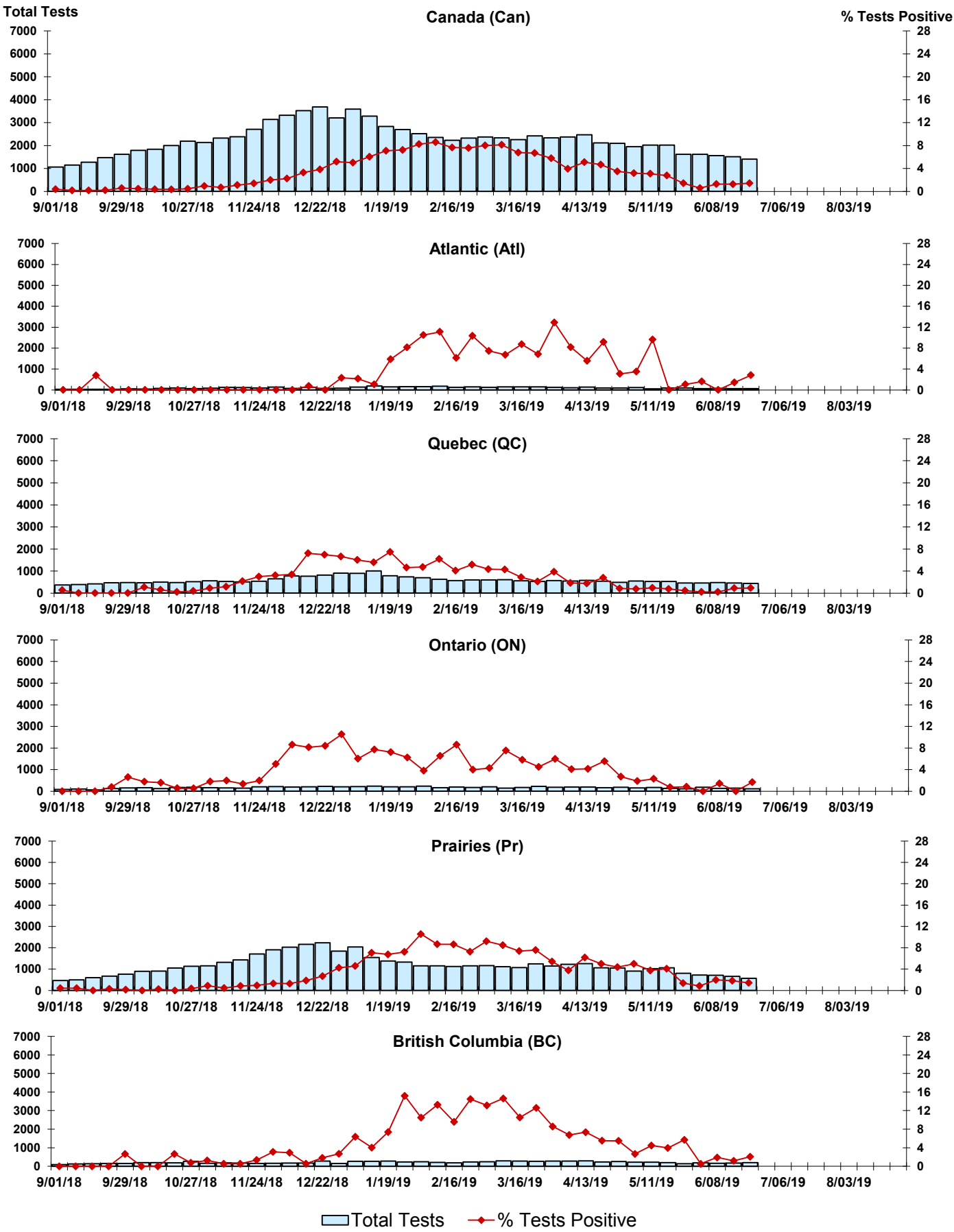


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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