

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 19 - ending May 11, 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 May 11, 2019 (Reporting Week 201919)

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	67	0	0	9	9	0	67	4	67	0	0	4	0	0	67	0	67	7	67	2	N.A.	N.A.
Prince Edward Island	13	0	0	0	0	0	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	75	0	0	2	2	1	75	3	9	0	0	2	0	0	9	0	9	0	9	1	9	0
New Brunswick	313	1	0	25	26	23	313	9	43	0	0	14	0	0	43	1	43	6	43	14	43	5
Atlantic	468	1	0	36	37	24	468	18	119	0	0	20	0	0	119	1	119	13	119	17	52	5
Région Nord-Est	202	0	0	19	19	7	125	13	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	305	0	0	6	6	8	313	11	85	1	0	5	0	0	83	4	73	0	N.A.	N.A.	71	2
Centre-du-Québec	343	0	0	25	25	7	234	5	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	903	0	0	80	80	32	901	15	468	4	1	38	2	0	468	9	460	7	N.A.	N.A.	460	3
Ouest du Québec	218	0	0	27	27	21	217	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	190	0	0	14	14	4	190	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2161	0	0	171	171	79	1980	50	553	5	1	43	2	0	551	13	533	7	N.A.	N.A.	531	5
Ottawa P.H.L.	7	0	0	0	0	0	7	0	4	0	0	0	0	0	4	0	2	0	2	0	0	0
CHEO - Ottawa	122	0	0	7	7	1	121	3	22	0	0	3	0	0	22	1	22	1	22	2	20	0
Kingston P.H.L.	29	0	0	0	0	0	29	1	21	0	0	3	0	0	21	0	18	0	3	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	250	7	16	1	24	0	245	4	213	1	0	5	0	0	213	2	209	4	4	0	0	0
Sick Kids Hospital - Toronto	62	0	0	0	0	3	62	0	62	2	2	7	0	0	62	0	62	5	62	11	62	2
Sunnybrook & Women's College HSC	73	0	3	0	3	0	73	0	73	0	0	2	0	0	73	0	73	5	73	3	73	2
Sault Ste. Marie P.H.L.	10	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
Timmins P.H.L.	7	0	0	0	0	0	6	1	6	0	0	2	0	0	6	0	6	0	0	0	0	0
St. Joseph's - London	118	0	0	5	5	0	118	2	44	0	0	6	0	0	44	0	44	1	19	1	19	0
London P.H.L.	70	0	5	1	6	0	70	0	62	1	0	2	0	0	62	0	59	1	3	0	0	0
Orillia P.H.L.	36	0	4	1	5	0	36	1	19	0	0	7	0	0	19	0	19	0	0	0	0	0
Thunder Bay P.H.L.	9	1	0	0	1	0	2	0	2	0	0	1	0	0	2	0	2	0	0	0	0	0
Sudbury P.H.L.	36	1	4	0	5	0	29	0	27	0	0	3	0	0	27	0	26	2	1	0	0	0
Hamilton P.H.L.	100	0	12	1	13	1	100	0	84	0	0	3	0	0	84	0	81	2	3	0	0	0
Peterborough P.H.L.	14	0	0	0	0	0	13	0	9	0	0	0	0	0	9	0	9	0	0	0	0	0
Province of Ontario	943	9	44	16	69	5	915	12	652	4	2	44	0	0	652	3	636	21	192	17	174	4
Manitoba	224	0	5	6	11	6	204	4	120	0	1	5	0	0	120	1	78	1	120	17	78	0
Regina	107	3	7	2	12	2	107	6	107	0	0	6	0	0	107	4	107	7	107	13	107	8
Saskatoon	101	0	0	5	5	3	101	1	101	0	0	4	0	0	101	2	101	4	101	13	101	9
Province of Saskatchewan	208	3	7	7	17	5	208	7	208	0	0	10	0	0	208	6	208	11	208	26	208	17
Province of Alberta	785	15	62	18	95	21	662	0	662	7	2	69	1	0	662	11	662	26	662	101	662	20
Prairies	1217	18	74	31	123	32	1074	11	990	7	3	84	1	0	990	18	948	38	990	144	948	37
British Columbia	390	3	30	25	58	6	390	17	236	1	0	20	0	0	236	1	236	0	201	52	201	10
Yukon	6	0	1	0	1	0	6	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	10	0	1	0	1	0	10	0	10	1	0	0	0	0	10	1	10	0	10	2	10	0
Nunavut	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	3	0	3	0
Territories	19	0	2	0	2	0	19	0	13	1	0	0	0	0	13	1	13	0	13	2	13	0
CANADA	5198	31	150	279	460	146	4846	108	2563	18	6	211	3	0	2561	37	2485	79	1515	232	1919	61

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 - May 11, 2019 (Reporting Weeks 201835-201919)

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	4890	1	0	1024	1025	4	4890	477	4890	8	58	160	0	0	4890	37	4890	189	4890	314	N.A.	N.A.
Prince Edward Island	1232	221	56	1	278	1	1230	139	83	1	0	2	3	0	78	5	78	3	78	22	78	3
Nova Scotia	3896	0	0	784	784	18	3904	388	517	0	4	27	2	0	517	0	517	8	517	65	517	11
New Brunswick	13604	231	34	2571	2836	300	13603	1203	3398	0	18	94	41	0	3398	123	3398	140	3398	368	3398	174
Atlantic	23622	453	90	4380	4923	323	23627	2207	8888	9	80	283	46	0	8883	165	8883	340	8883	769	3993	188
Région Nord-Est	9066	0	0	1574	1574	53	7129	680	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	15541	0	0	3119	3119	59	15786	1564	2948	8	32	59	9	0	3051	101	2477	40	N.A.	N.A.	2304	29
Centre-du-Québec	18031	0	0	3628	3628	192	14490	1581	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	39142	0	0	4579	4579	254	37918	2970	20261	82	152	332	39	0	20261	576	19871	441	N.A.	N.A.	19820	719
Ouest du Québec	12520	0	0	2674	2674	129	11470	1399	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	8729	0	0	1373	1374	43	8319	673	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	103029	0	0	16947	16948	730	95112	8867	23209	90	184	391	48	0	23348	677	22348	481	N.A.	N.A.	22124	748
Ottawa P.H.L.	939	91	68	22	181	4	934	88	532	0	3	8	0	0	532	1	508	9	29	0	0	0
CHEO - Ottawa	7814	0	0	842	842	29	7813	920	841	4	10	20	6	0	842	26	841	17	834	203	813	39
Kingston P.H.L.	948	67	71	12	150	14	948	62	660	0	4	17	0	0	660	1	626	7	96	0	0	0
UHN / Mount Sinai Hospital	11125	5	15	735	755	47	11125	473	590	1	9	10	3	0	0	0	547	5	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	13180	881	670	95	1646	61	12744	529	10344	19	61	81	0	0	10345	52	10043	146	488	0	0	0
Sick Kids Hospital - Toronto	2593	112	43	122	277	35	2177	218	2177	20	37	56	25	0	2177	80	2177	91	2177	510	2177	135
Sunnybrook & Women's College HSC	2530	72	99	11	182	6	2530	62	2530	5	5	16	1	0	2530	1	2530	79	2530	194	2530	96
Sault Ste. Marie P.H.L.	421	47	40	3	90	0	347	17	318	0	3	0	0	0	318	0	312	5	10	0	0	0
Timmins P.H.L.	371	58	9	1	68	0	302	10	300	0	7	5	0	0	300	0	293	1	15	0	0	0
St. Joseph's - London	4477	3	0	527	530	5	4349	359	1492	5	6	37	15	0	1492	31	1492	47	1079	164	826	21
London P.H.L.	3943	319	198	60	577	15	3905	328	2728	5	23	36	0	0	2728	19	2633	38	175	0	0	0
Orillia P.H.L.	1181	66	69	23	158	2	1181	128	832	2	2	19	0	0	832	1	819	15	35	0	0	0
Thunder Bay P.H.L.	442	31	45	8	84	0	343	16	330	1	1	14	0	0	329	4	314	9	25	0	0	0
Sudbury P.H.L.	870	48	21	0	69	0	804	32	779	3	4	5	0	0	779	3	733	13	73	0	0	0
Hamilton P.H.L.	3798	234	216	33	483	13	3700	135	2964	12	15	59	0	0	2964	21	2913	46	146	0	0	0
Peterborough P.H.L.	1093	44	78	22	144	3	1089	49	846	2	4	5	0	0	846	0	836	12	13	0	0	0
Province of Ontario	55725	2078	1642	2516	6236	234	54291	3426	28263	79	194	388	50	0	27674	240	27617	540	7943	1082	6571	301
Manitoba	10130	322	100	730	1152	50	9665	593	4361	4	18	99	12	0	4361	43	2696	80	4361	478	2730	126
Regina	8201	1431	144	155	1730	78	8201	542	10134	4	63	198	35	0	8201	124	8201	156	8201	1426	8201	269
Saskatoon	6303	0	0	885	885	40	6303	441	6303	2	7	42	13	48	6303	52	6303	133	6303	416	6303	102
Province of Saskatchewan	14504	1431	144	1040	2615	118	14504	983	16437	6	70	240	48	48	14504	176	14504	289	14504	1842	14504	371
Province of Alberta	35408	3633	1136	2169	6938	295	28697	0	28697	38	229	776	242	0	28697	414	28697	824	28697	4192	28697	1329
Prairies	60042	5386	1380	3939	10705	463	52866	1576	49495	48	317	1115	302	48	47562	633	45897	1193	47562	6512	45931	1826
British Columbia	25175	3153	1529	1608	6290	229	25138	1557	10518	14	68	372	103	0	10518	146	10518	75	7984	1564	7984	472
Yukon	365	65	15	35	115	0	365	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	761	175	4	0	179	2	756	0	756	3	0	28	4	0	756	25	756	7	756	128	756	47
Nunavut	113	20	0	0	20	0	113	0	113	4	0	3	0	0	113	17	112	0	113	29	112	9
Territories	1239	260	19	35	314	2	1234	18	869	7	0	31	4	0	869	42	868	7	869	157	868	56
CANADA	268832	11330	4660	29425	45416	1981	252268	17651	121242	247	843	2580	553	48	118854	1903	116131	2636	73241	10084	87471	3591

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

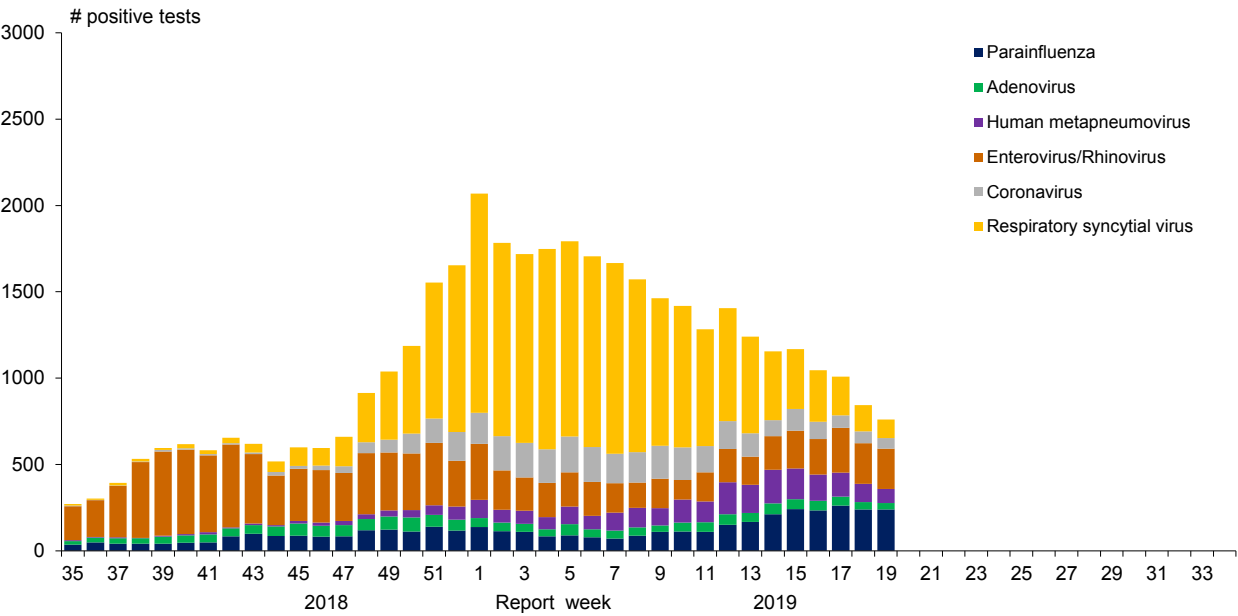


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

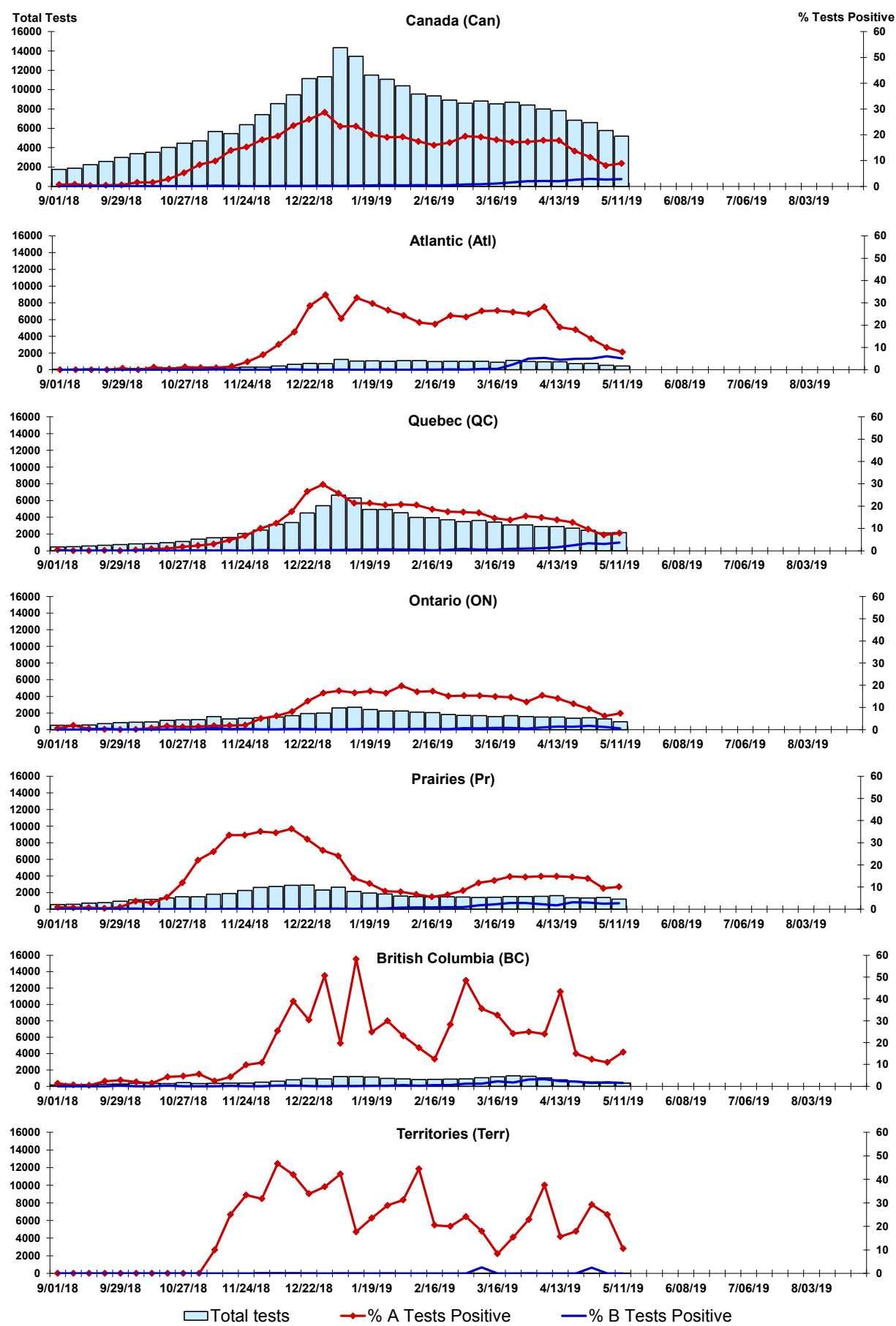


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

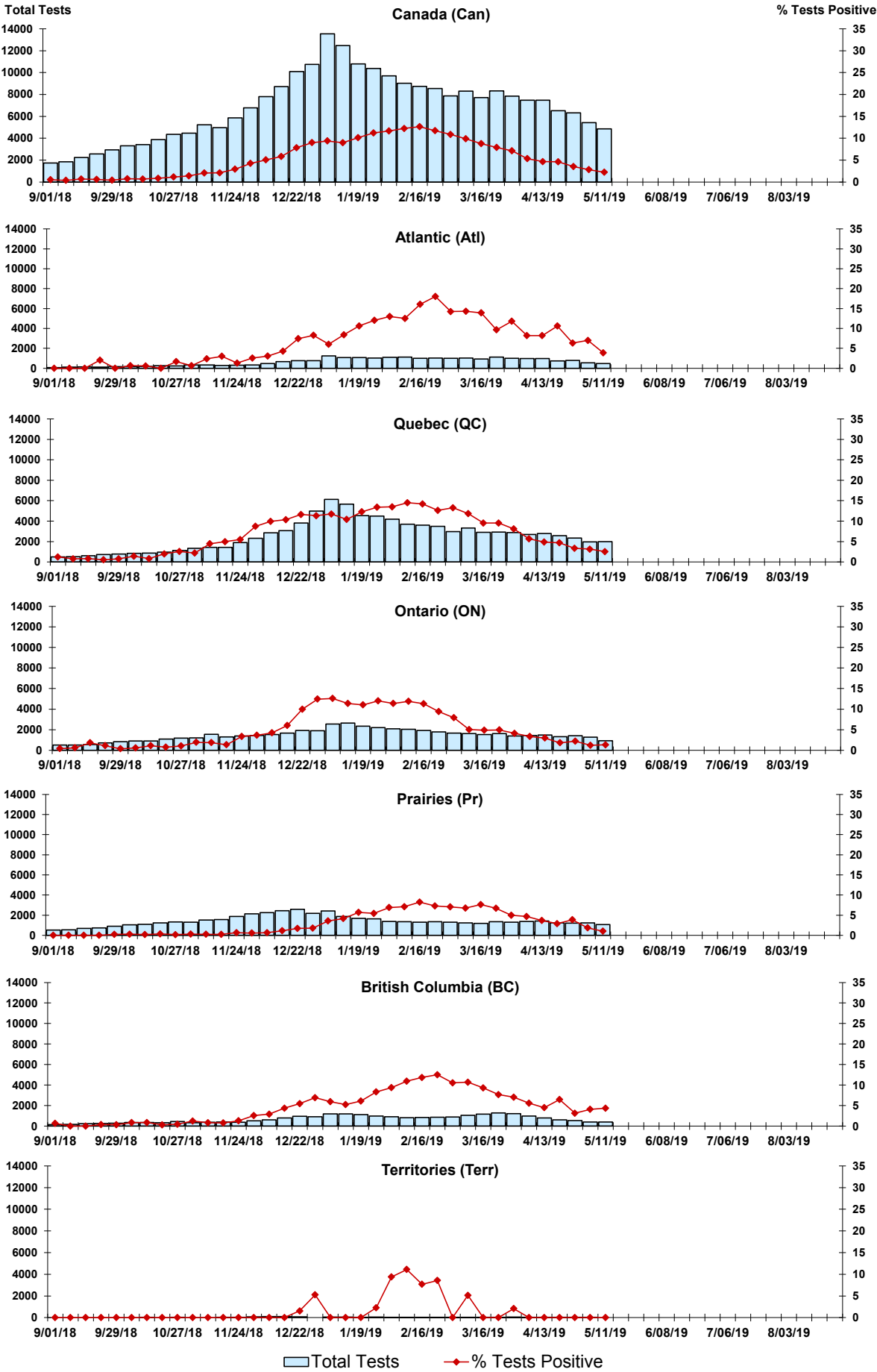


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

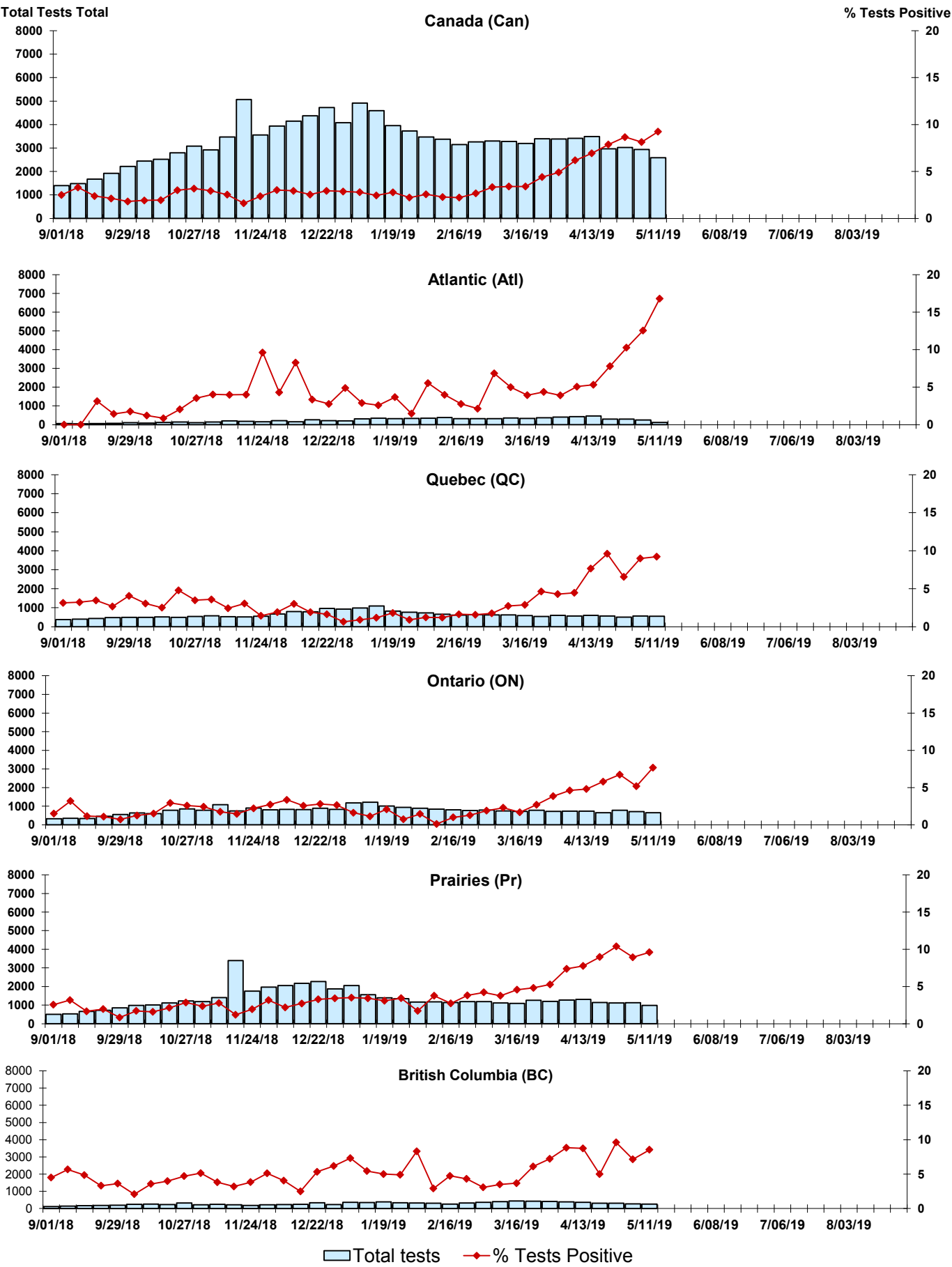


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

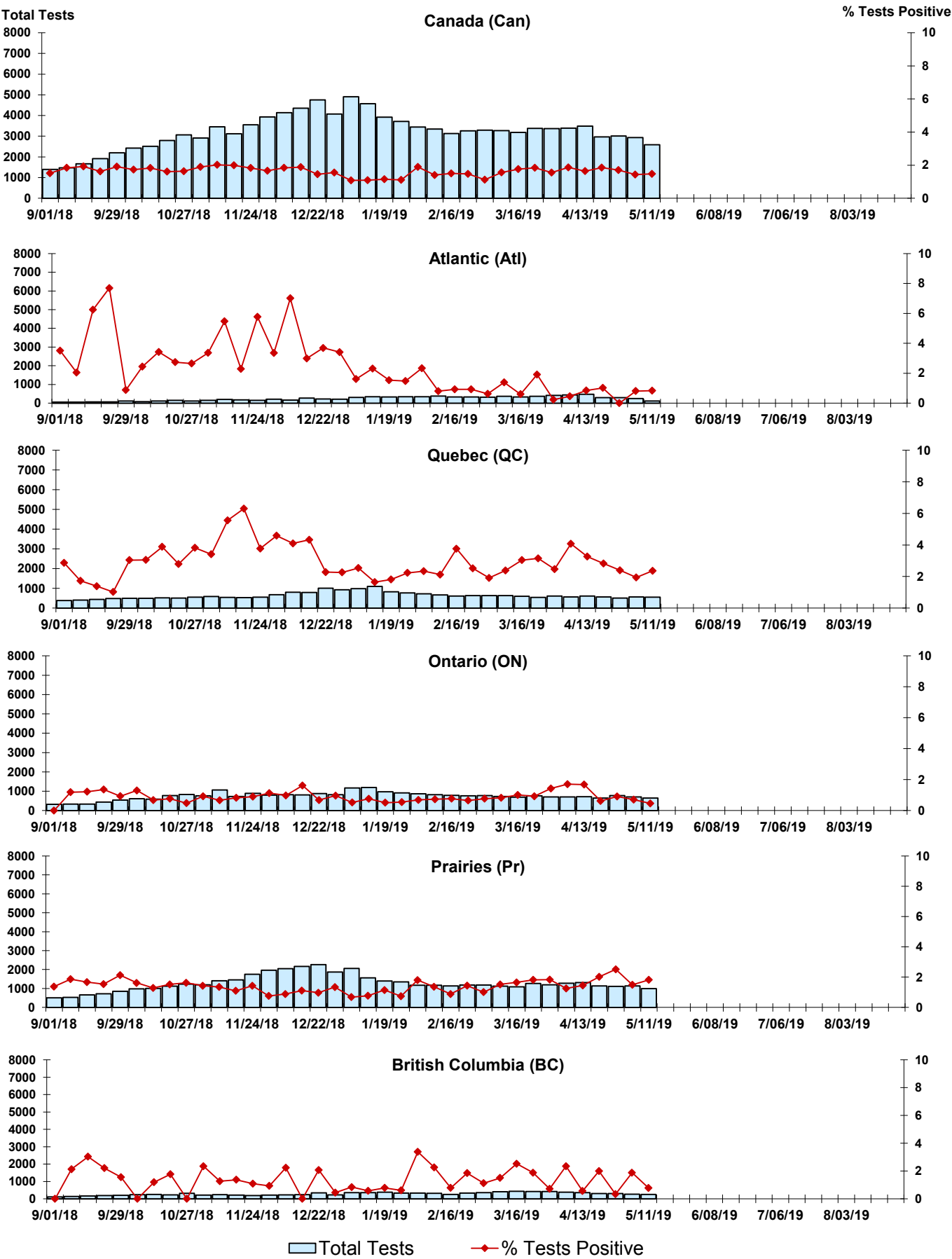
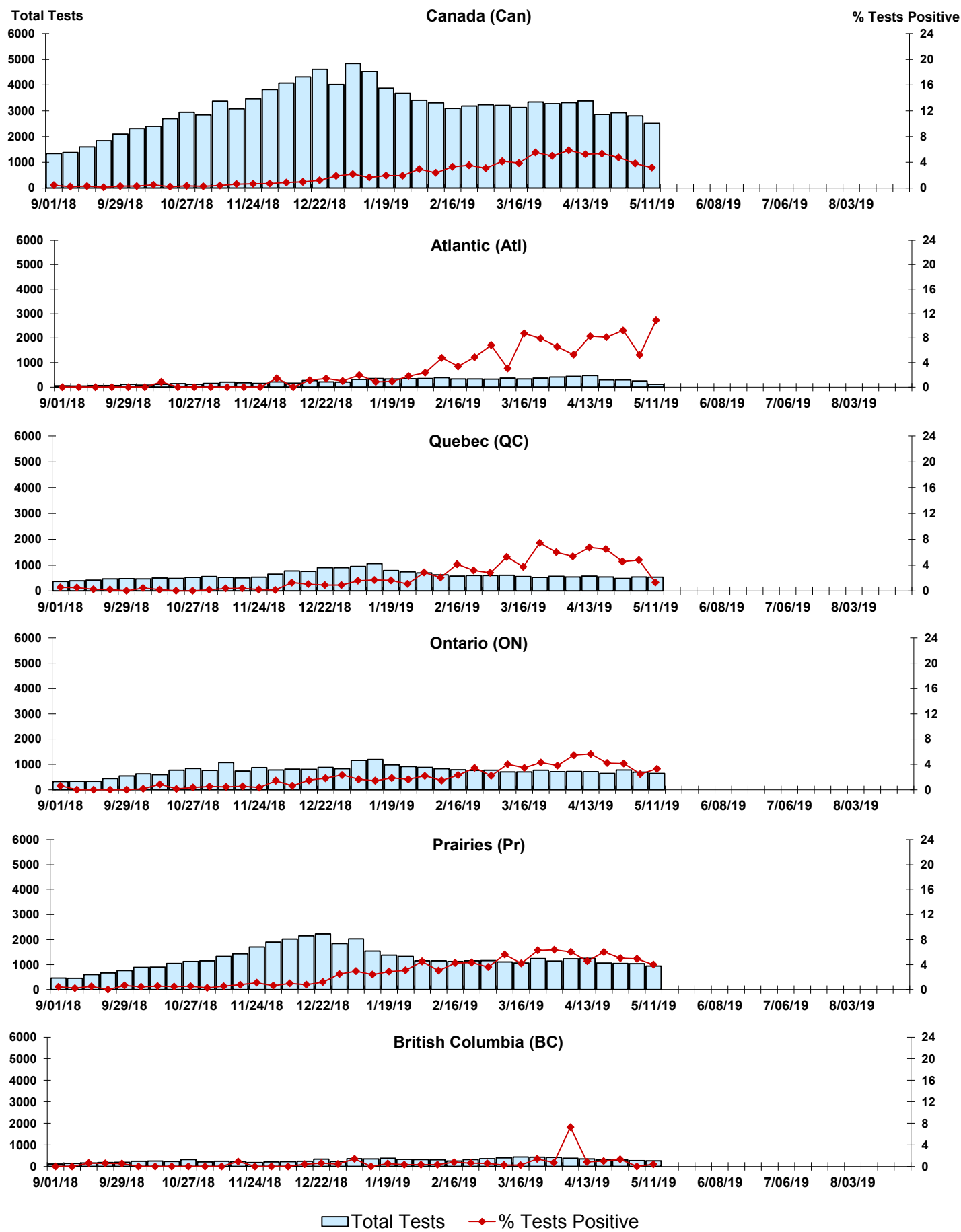


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



■ Total Tests —◆ % Tests Positive

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

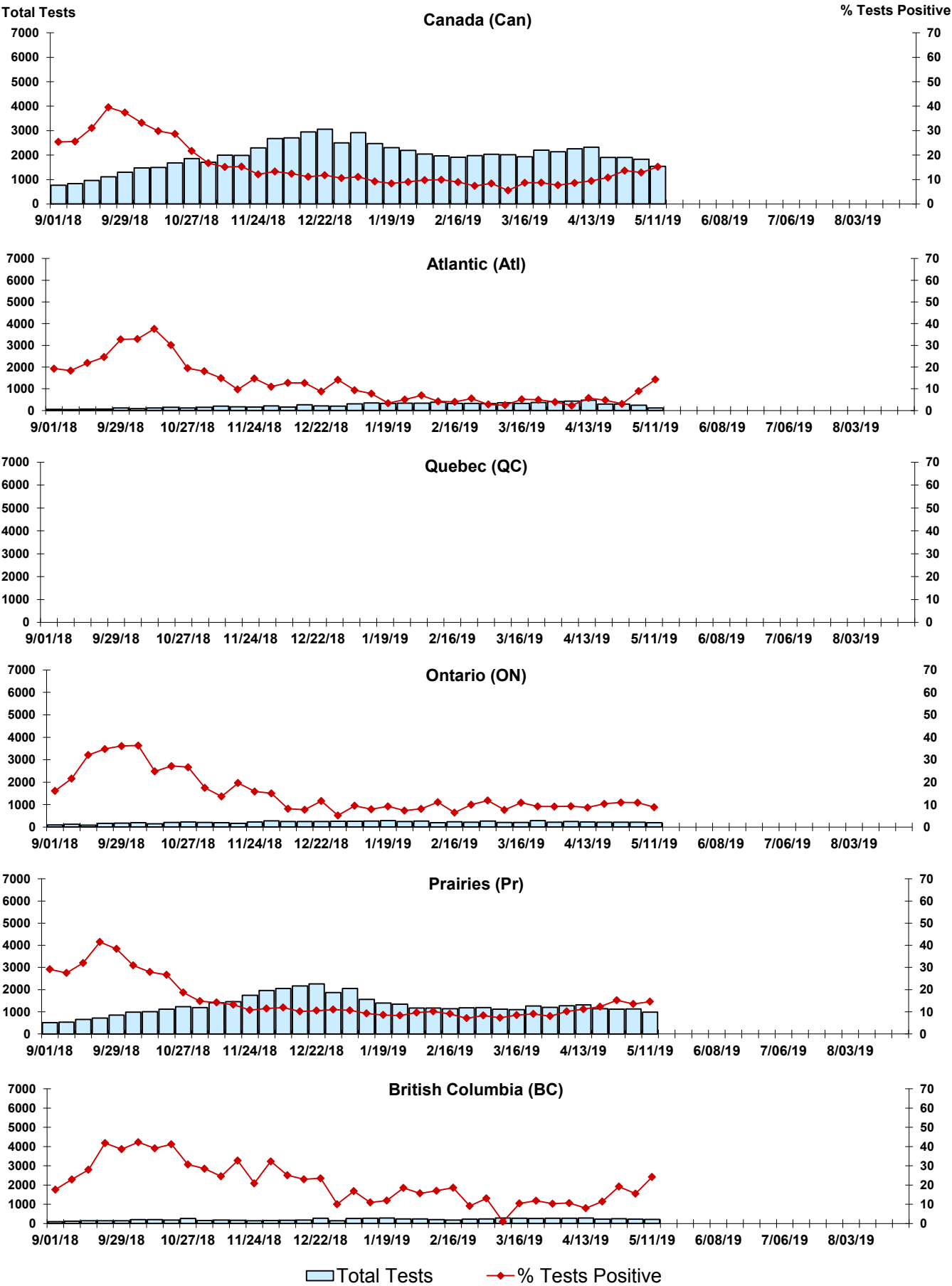
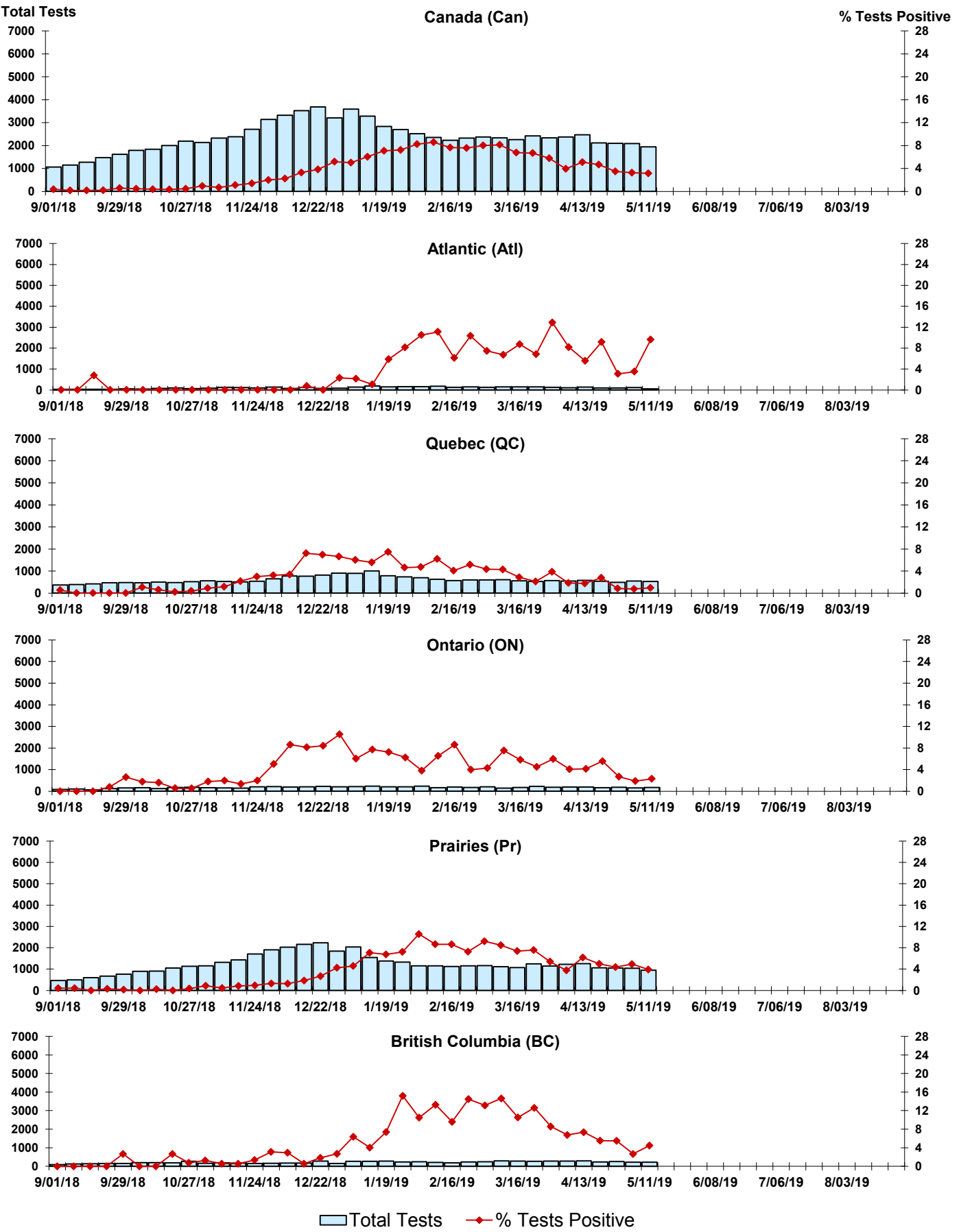


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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