

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 47 - ending November 24, 2018

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 November 24, 2018 (Reporting Week 201847)

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	24	1	0	0	1	0	24	0	5	0	0	0	1	0	5	0	5	0	5	3	5	0
Nova Scotia	50	0	0	1	1	0	51	2	33	0	1	2	0	0	33	0	33	0	33	3	33	0
New Brunswick	171	1	0	6	7	0	173	2	56	0	0	0	5	0	56	9	56	0	56	7	56	0
Atlantic	245	2	0	7	9	0	248	4	94	0	1	2	6	0	94	9	94	0	94	13	94	0
Région Nord-Est	259	0	0	40	40	0	201	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	346	0	0	33	33	0	328	13	59	1	0	1	1	0	63	3	54	0	N.A.	N.A.	53	2
Centre-du-Québec	207	0	0	7	7	0	183	5	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	844	0	0	38	38	0	825	62	494	0	4	1	0	0	494	18	484	1	N.A.	N.A.	484	14
Ouest du Québec	190	0	0	12	12	0	163	12	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	189	0	0	7	7	1	189	12	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2035	0	0	137	137	1	1889	104	553	1	4	2	1	0	557	21	538	1	N.A.	N.A.	537	16
Ottawa P.H.L.	19	1	0	0	1	0	18	0	7	0	0	0	0	0	7	0	6	0	1	0	0	0
CHEO - Ottawa	141	0	0	2	2	2	141	7	17	0	0	0	0	0	17	0	17	0	17	9	17	0
Kingston P.H.L.	8	0	0	0	0	0	8	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
UHN / Mount Sinai Hospital	237	0	0	3	3	0	237	8	15	0	0	0	0	0	0	0	0	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	478	3	2	1	6	2	473	0	404	2	4	0	0	0	404	3	397	1	7	0	0	0
Sick Kids Hospital - Toronto	79	2	0	0	2	0	79	20	79	0	2	2	2	0	79	0	79	0	79	19	79	4
Sunnybrook & Women's College HSC	93	8	0	1	9	0	93	0	93	0	0	2	0	0	93	0	93	2	93	4	93	0
Sault Ste. Marie P.H.L.	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
Timmins P.H.L.	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	0	0	0	0
St. Joseph's - London	69	0	0	0	0	0	69	10	36	1	0	1	0	0	36	3	36	0	14	4	14	0
London P.H.L.	87	3	0	0	3	0	84	0	64	0	2	0	0	0	64	0	64	0	0	0	0	0
Orillia P.H.L.	29	0	0	0	0	0	29	0	12	0	0	0	0	0	12	1	11	0	1	0	0	0
Thunder Bay P.H.L.	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	7	0	1	0	0	0
Sudbury P.H.L.	21	0	0	0	0	0	21	1	21	0	1	0	0	0	21	0	17	0	4	0	0	0
Hamilton P.H.L.	76	0	0	0	0	0	76	0	68	0	0	1	0	0	68	1	68	0	0	0	0	0
Peterborough P.H.L.	28	2	0	0	2	0	26	0	17	0	0	0	0	0	17	0	17	0	0	0	0	0
Province of Ontario	1389	19	2	7	28	4	1378	46	864	3	9	6	2	0	849	8	835	3	217	36	203	4
Manitoba	240	15	0	10	25	0	240	9	118	0	0	0	1	0	118	1	79	2	118	17	79	1
Regina	296	74	2	3	79	0	296	1	296	0	0	2	1	0	296	7	296	4	296	49	296	1
Saskatoon	214	0	0	66	66	0	214	2	214	0	0	0	0	0	214	0	214	0	214	6	214	0
Province of Saskatchewan	510	74	2	69	145	0	510	3	510	0	0	2	1	0	510	7	510	4	510	55	510	1
Province of Alberta	1383	334	8	197	539	3	1026	0	1026	0	4	15	9	0	1026	16	1026	10	1026	103	1026	12
Prairies	2133	423	10	276	709	3	1776	12	1654	0	4	17	11	0	1654	24	1615	16	1654	175	1615	14
British Columbia	387	30	5	16	51	0	387	5	173	1	3	2	1	0	173	2	173	0	138	31	138	2
Yukon	4	0	0	0	0	0	4	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	13	5	0	0	5	0	13	0	13	0	0	0	0	0	13	0	13	0	13	1	13	0
Nunavut	1	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Territories	18	6	0	0	6	0	18	0	14	0	0	0	0	0	14	0	14	0	14	1	14	0
CANADA	6207	480	17	443	940	8	5696	171	3352	5	21	29	21	0	3341	64	3269	20	2117	256	2601	36

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.

Delays in the reporting of data may cause data to change retrospectively.

Table 2: Respiratory Virus Detections/Isolations for the period August 26, 2018 - November 24, 2018 (Reporting Weeks 201835-201847)

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	523	1	0	2	3	1	523	14	523	0	1	12	0	0	523	8	523	0	523	104	N.A.	N.A.
Prince Edward Island	165	4	0	0	4	0	162	0	41	0	0	1	3	0	36	4	36	0	36	15	36	0
Nova Scotia	348	0	0	7	7	0	352	7	233	0	1	4	1	0	233	0	233	1	233	44	233	0
New Brunswick	1484	3	0	9	12	0	1484	9	633	0	8	3	10	0	633	43	633	0	633	148	633	1
Atlantic	2520	8	0	18	26	1	2521	30	1430	0	10	20	14	0	1425	55	1425	1	1425	311	902	1
Région Nord-Est	1320	0	0	99	99	0	1090	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	1311	0	0	84	84	2	1383	43	845	2	21	4	5	0	872	35	770	1	N.A.	N.A.	768	2
Centre-du-Québec	910	0	0	12	12	3	863	19	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	7638	0	0	80	80	4	7721	227	5599	24	100	25	21	0	5599	183	5450	14	N.A.	N.A.	5451	49
Ouest du Québec	992	0	0	30	30	1	834	30	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	1098	0	0	27	27	1	1085	41	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	13269	0	0	332	332	11	12976	360	6444	26	121	29	26	0	6471	218	6220	15	N.A.	N.A.	6219	51
Ottawa P.H.L.	178	1	5	0	6	0	173	0	154	0	0	1	0	0	154	0	144	0	11	0	0	0
CHEO - Ottawa	1611	0	0	18	18	4	1611	25	287	0	6	3	0	0	287	12	287	1	287	105	287	1
Kingston P.H.L.	222	0	0	0	0	0	222	1	217	0	0	0	0	0	217	0	208	0	36	0	0	0
UHN / Mount Sinai Hospital	2646	0	0	22	22	4	2646	35	182	0	2	0	2	0	0	0	167	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	3767	22	29	2	53	16	3720	31	3560	11	36	9	0	0	3560	19	3475	9	166	0	0	0
Sick Kids Hospital - Toronto	657	6	2	0	8	0	657	44	657	2	16	9	12	0	657	15	657	4	657	244	657	14
Sunnybrook & Women's College HSC	623	10	2	1	13	0	623	1	623	0	3	5	1	0	623	0	623	5	623	88	623	8
Sault Ste. Marie P.H.L.	74	0	0	0	0	0	74	1	74	0	0	0	0	0	74	0	73	0	1	0	0	0
Timmins P.H.L.	68	0	0	0	0	0	68	0	68	0	1	2	0	0	68	0	64	0	7	0	0	0
St. Joseph's - London	532	1	0	1	2	0	532	17	364	1	1	4	4	0	364	13	364	4	311	108	301	1
London P.H.L.	764	14	0	0	14	1	745	9	697	0	9	1	0	0	697	3	674	1	40	0	0	0
Orillia P.H.L.	190	0	0	0	0	0	190	1	172	0	0	1	0	0	172	1	169	0	5	0	0	0
Thunder Bay P.H.L.	72	1	0	0	1	0	71	0	71	1	0	2	0	0	71	0	68	0	3	0	0	0
Sudbury P.H.L.	165	0	0	0	0	0	165	2	165	1	1	0	0	0	165	1	147	0	23	0	0	0
Hamilton P.H.L.	776	7	2	1	10	1	764	6	739	1	5	2	0	0	739	5	725	2	28	0	0	0
Peterborough P.H.L.	357	2	1	0	3	0	355	3	340	2	1	0	0	0	340	0	339	0	3	0	0	0
Province of Ontario	12702	64	41	45	150	26	12616	176	8370	19	81	39	19	0	8188	69	8184	28	2201	545	1868	24
Manitoba	2582	79	3	18	100	0	2563	24	1613	0	4	7	8	0	1613	17	755	4	1613	264	789	3
Regina	2266	195	8	13	216	0	2266	3	4199	0	14	16	14	0	2266	42	2266	6	2266	719	2266	2
Saskatoon	1557	0	0	211	211	0	1557	10	1557	1	2	3	1	0	1557	23	1557	1	1557	169	1557	1
Province of Saskatchewan	3823	195	8	224	427	0	3823	13	5756	1	16	19	15	0	3823	65	3823	7	3823	888	3823	3
Province of Alberta	9677	1206	39	716	1961	16	7876	0	7876	8	59	83	74	0	7876	117	7876	57	7876	1834	7876	49
Prairies	16082	1480	50	958	2488	16	14262	37	15245	9	79	109	97	0	13312	199	12454	68	13312	2986	12488	55
British Columbia	4061	78	41	43	162	3	4061	27	2730	4	21	47	38	0	2730	37	2730	5	2230	720	2230	17
Yukon	66	0	0	0	0	0	66	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	128	9	0	0	9	0	126	0	126	0	0	5	0	0	126	6	126	1	126	34	126	2
Nunavut	21	4	0	0	4	0	21	0	21	0	0	0	0	0	21	3	20	0	21	9	20	0
Territories	215	13	0	0	13	0	213	0	147	0	0	5	0	0	147	9	146	1	147	43	146	2
CANADA	48849	1643	132	1396	3171	57	46649	630	34366	58	312	249	194	0	32273	587	31159	118	19315	4605	23853	150

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.

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

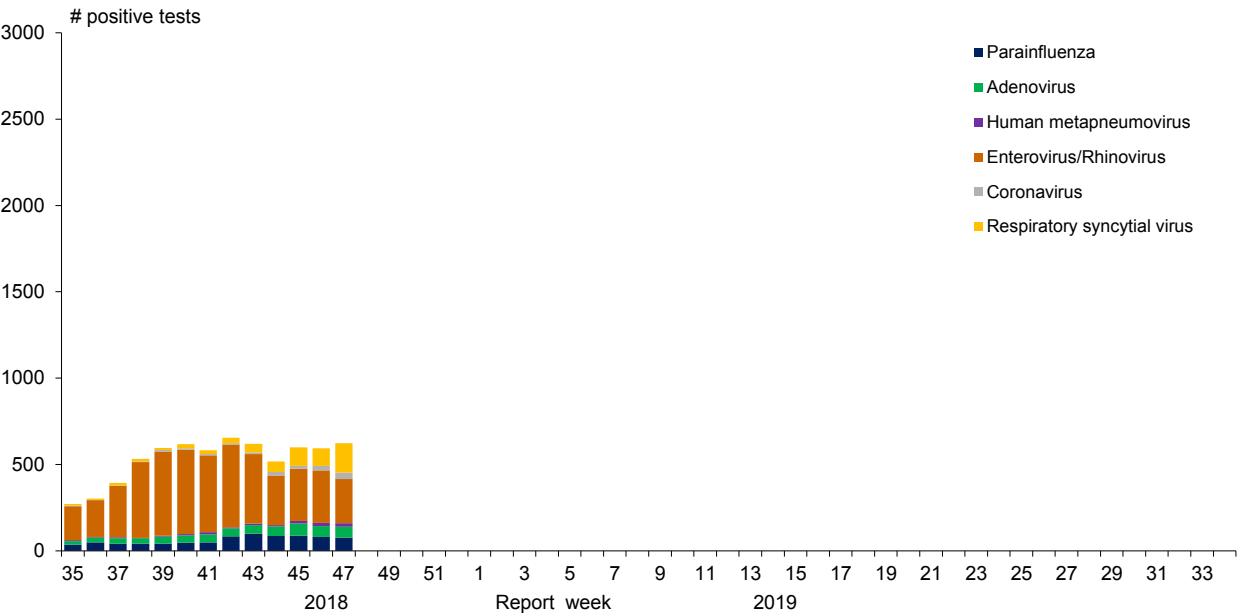


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

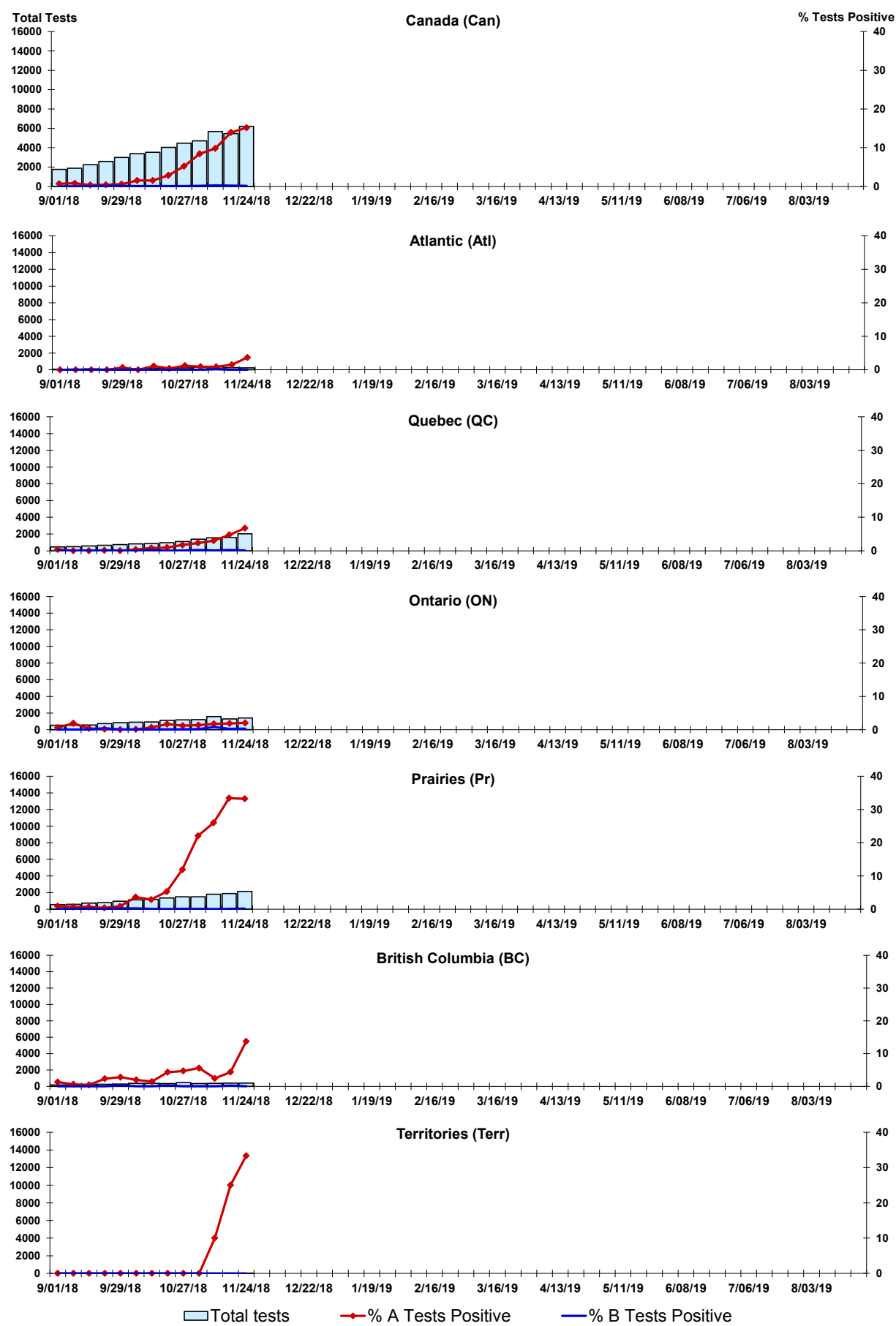


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

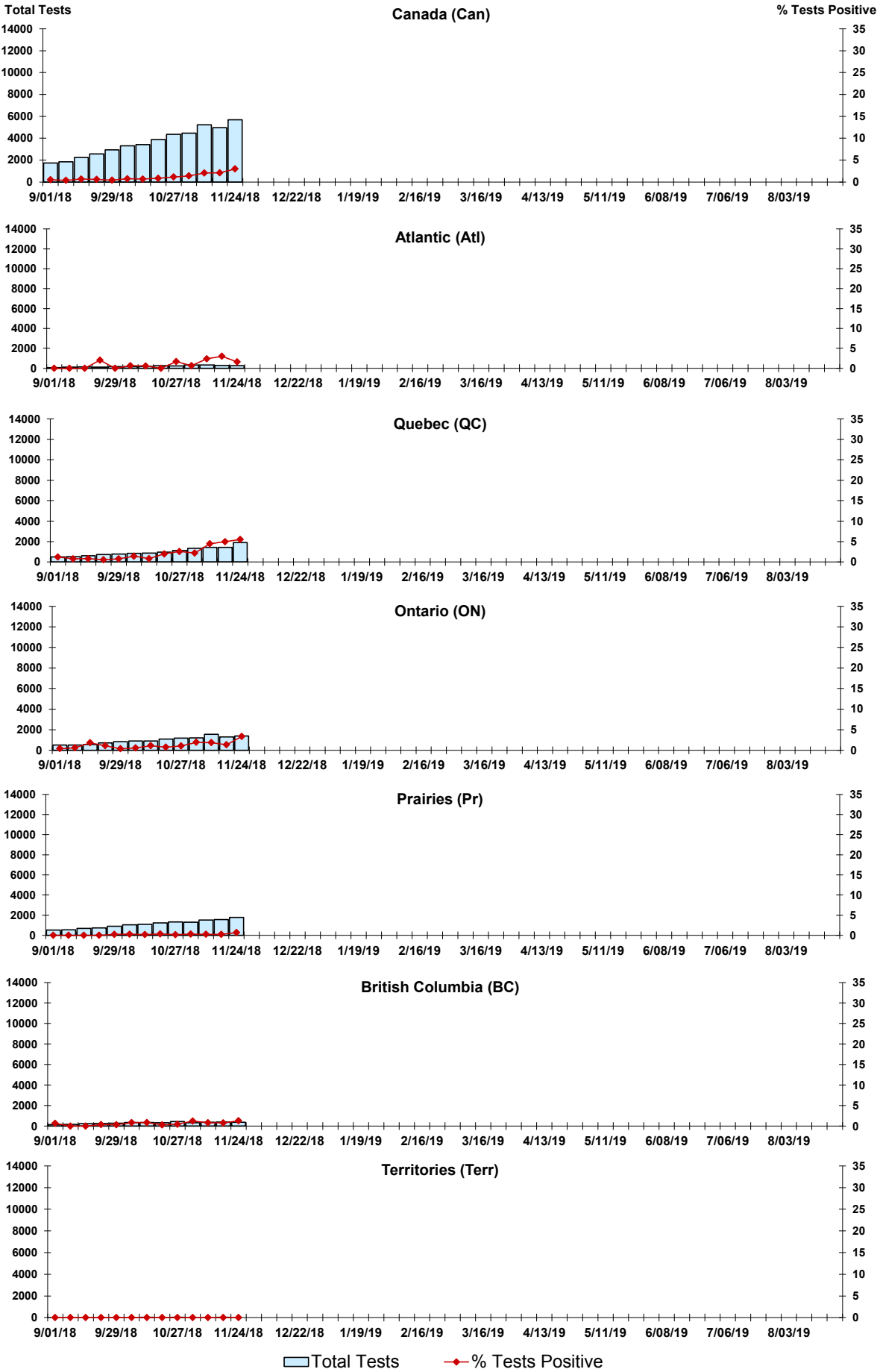


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

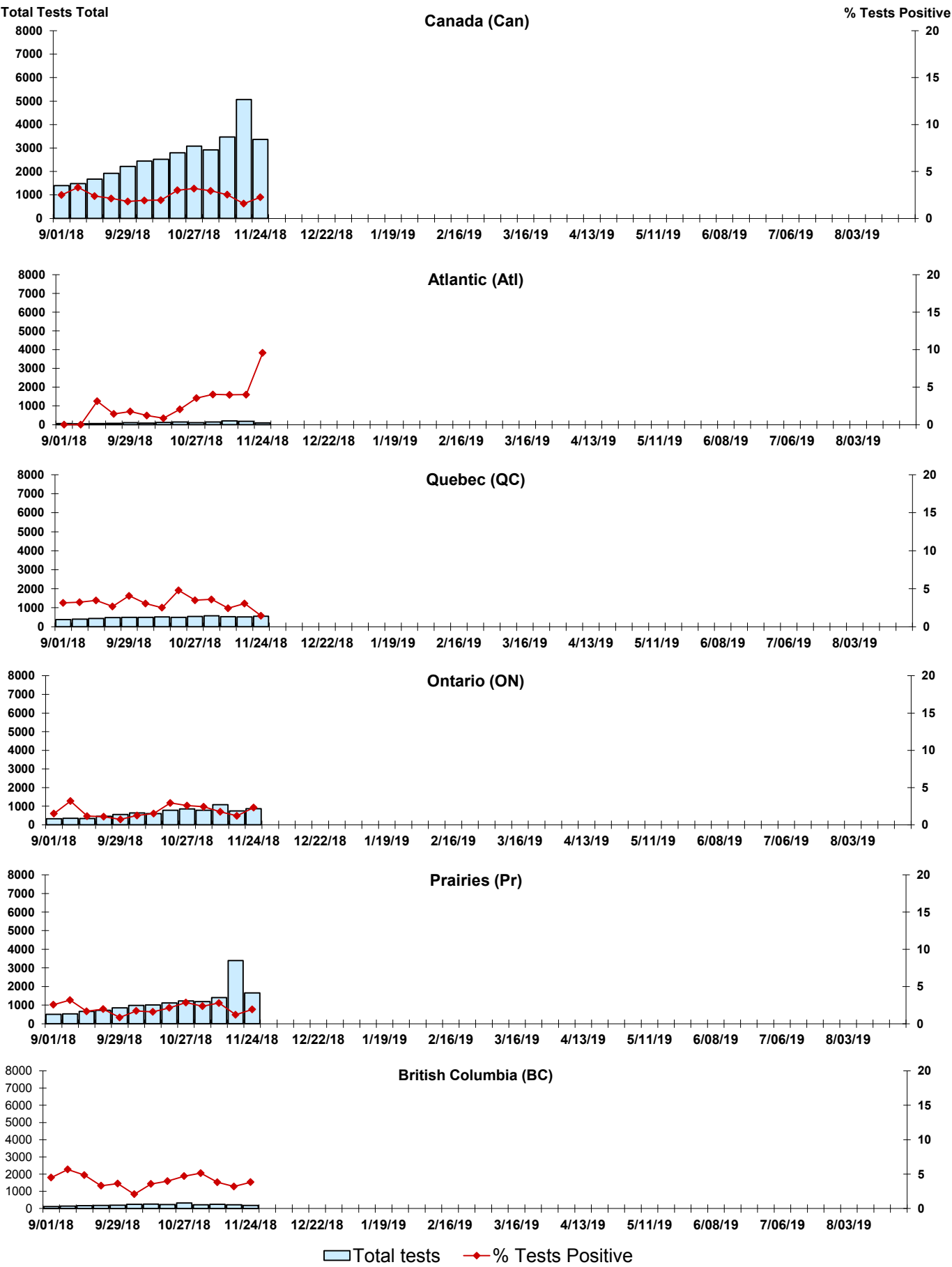


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

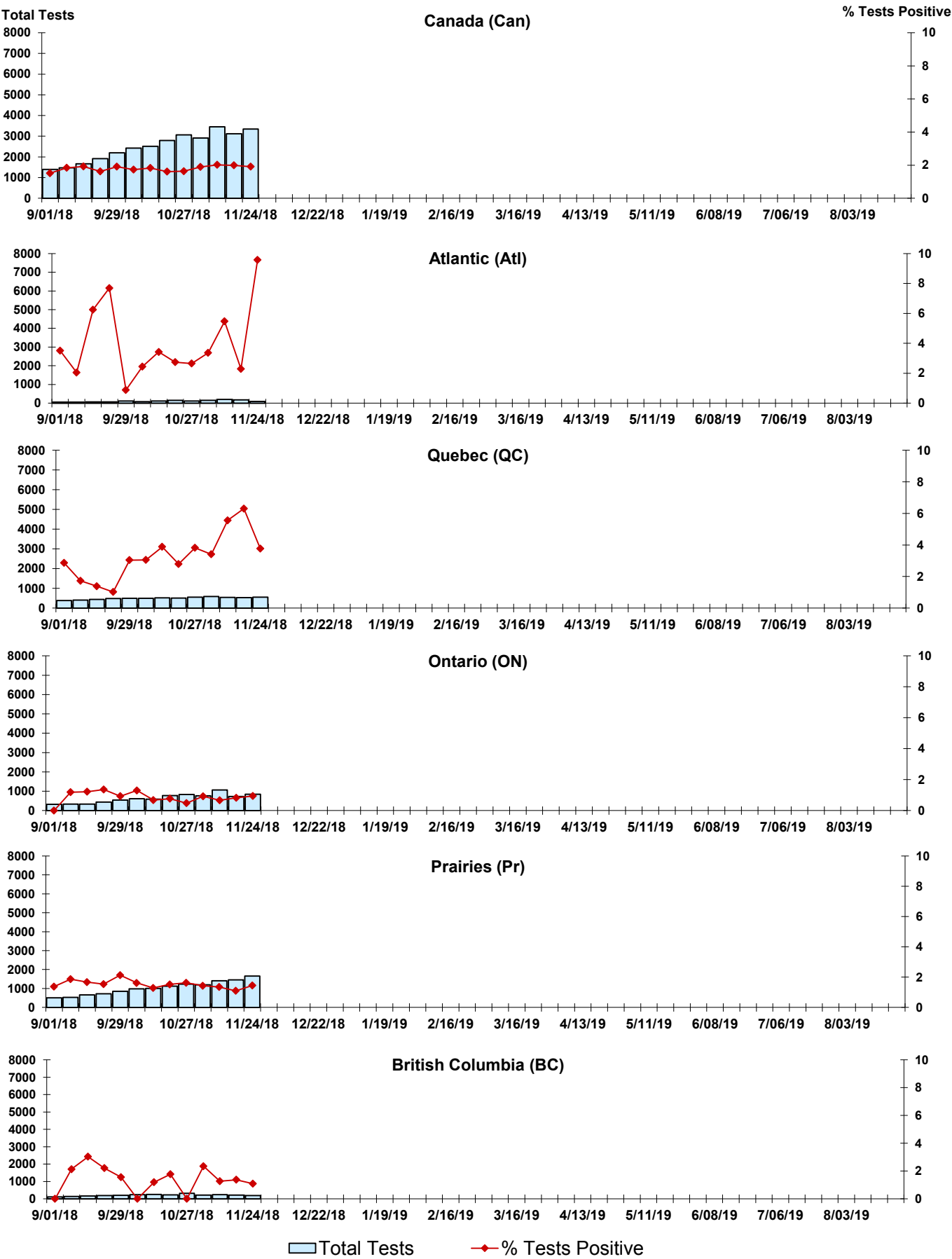


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

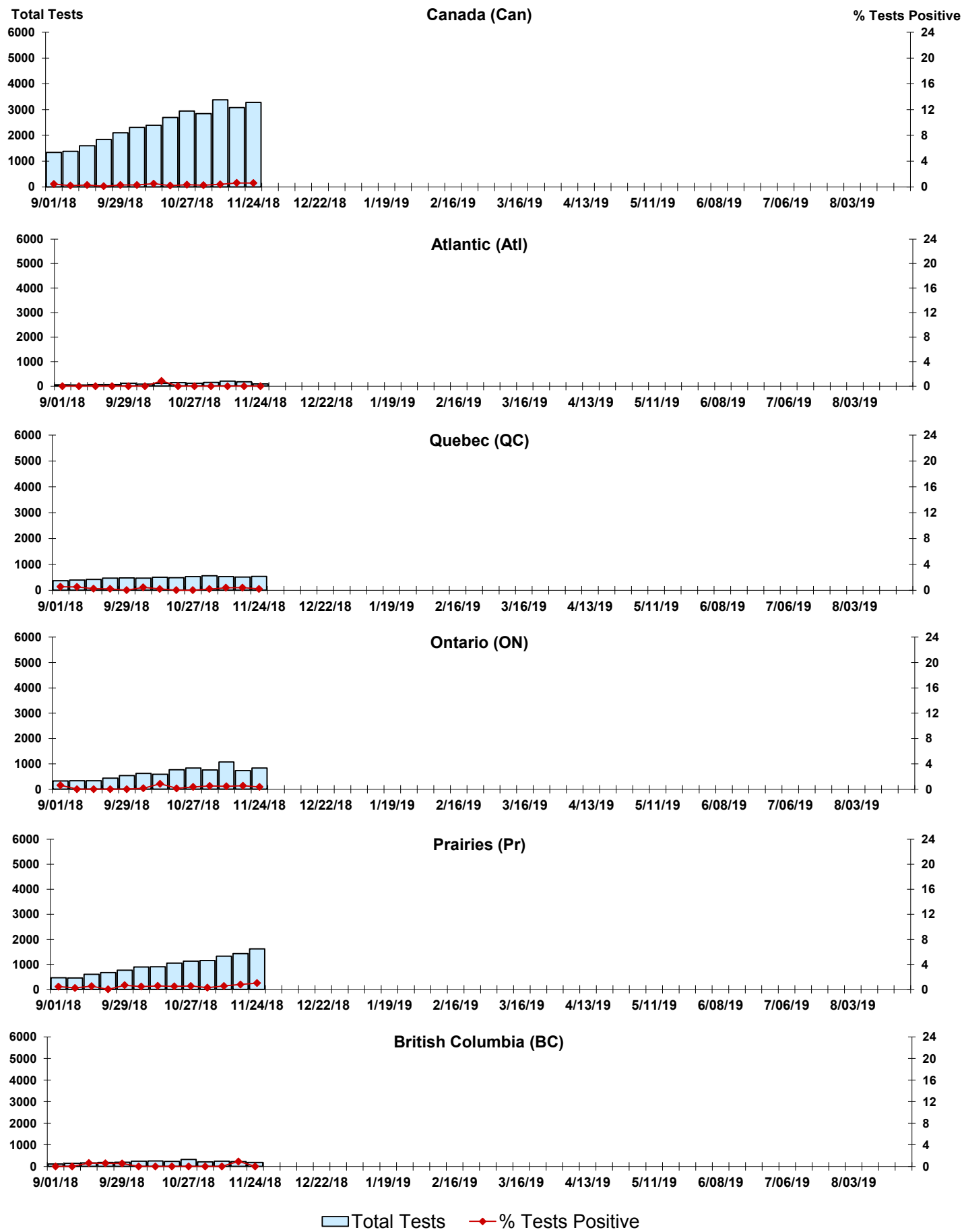


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

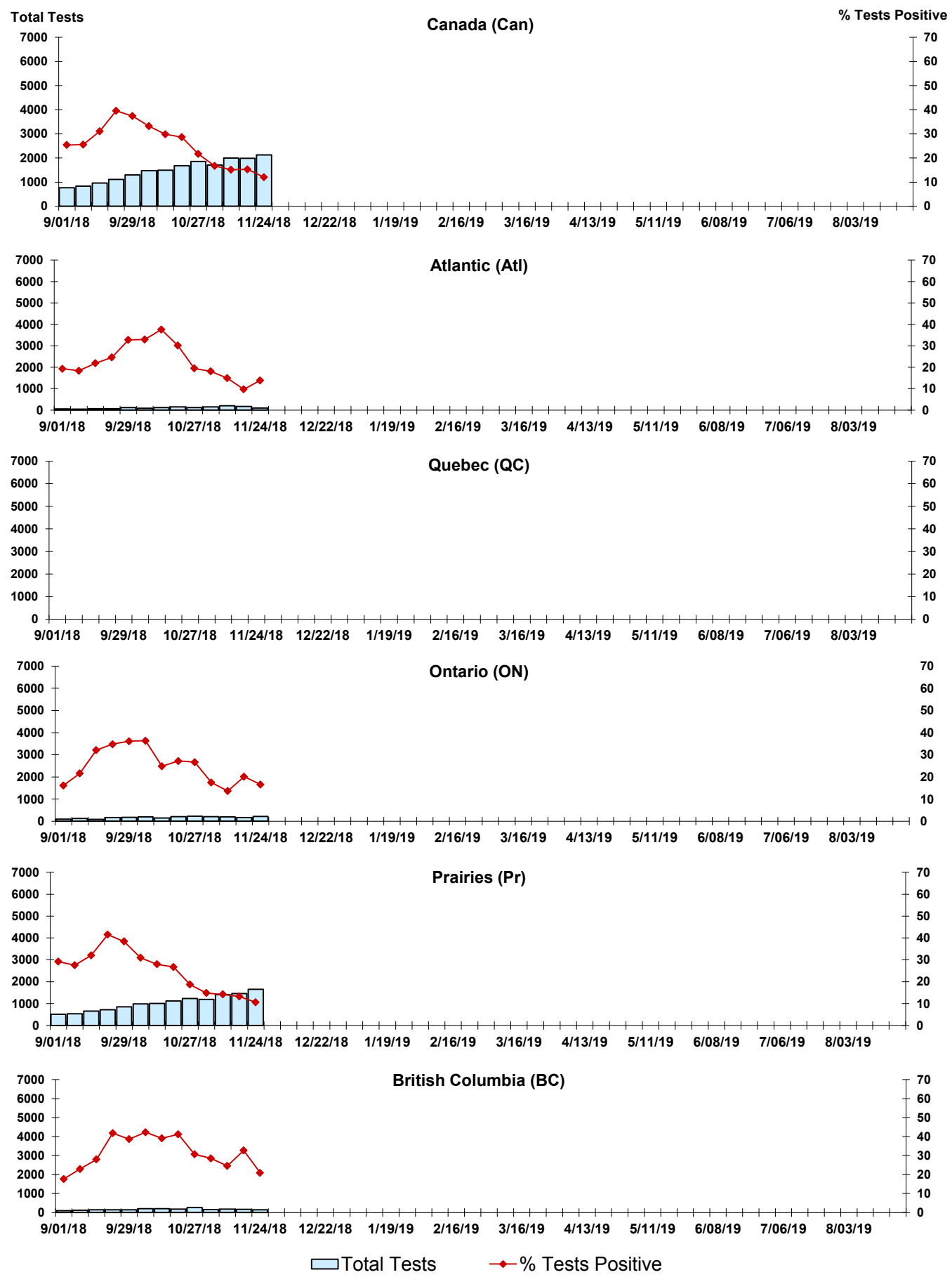
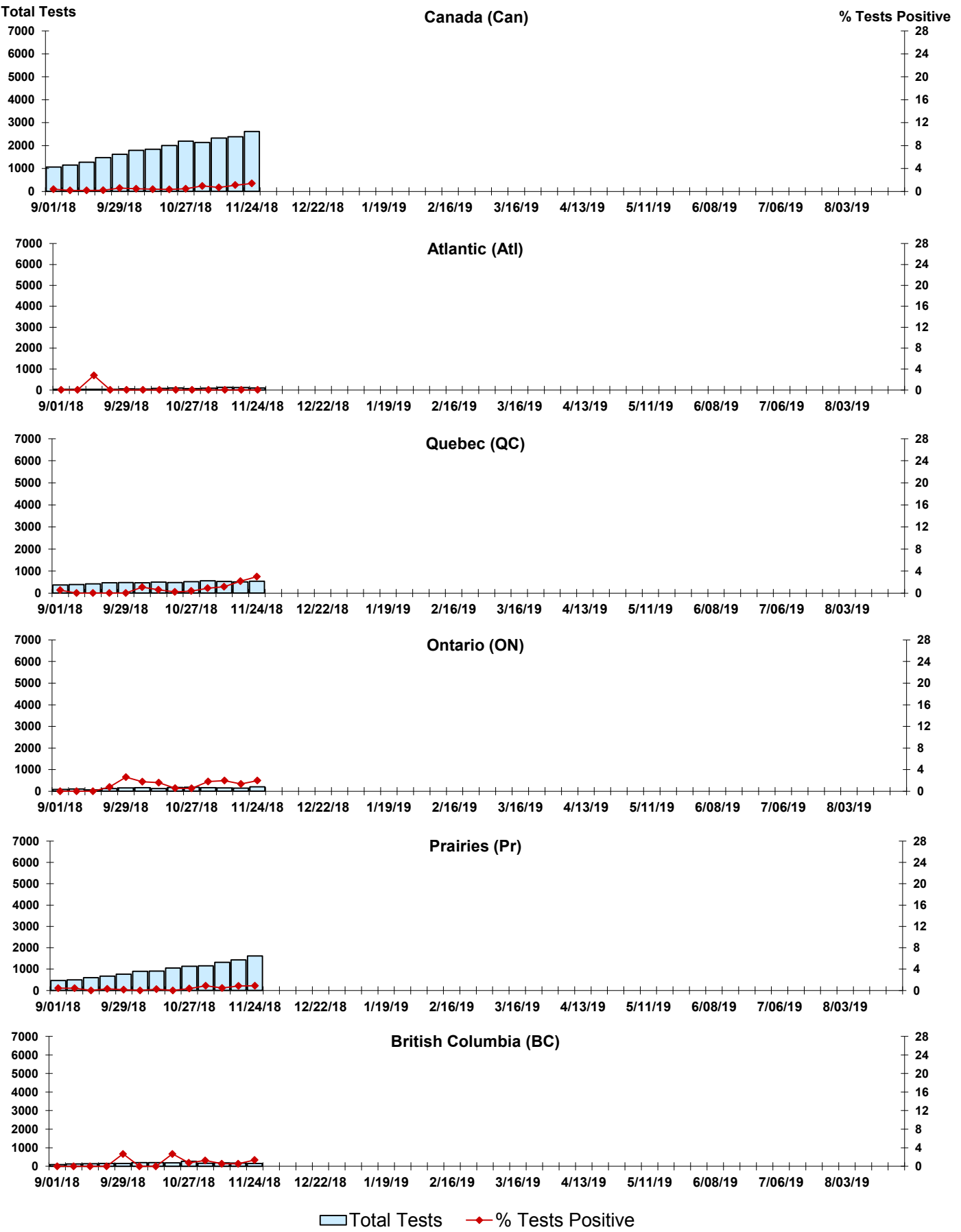


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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.