

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 48 - ending November 30, 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 November 30, 2019 (Reporting Week 201948)

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	79	0	0	0	0	0	79	3	79	3	0	0	0	0	79	3	79	0	79	8	N.A.	N.A.
Prince Edward Island	28	0	0	2	2	0	28	0	2	0	0	0	0	0	2	0	0	0	2	1	2	0
Nova Scotia	60	0	0	0	0	0	60	2	18	0	0	0	0	0	18	1	18	0	18	3	18	0
New Brunswick	274	1	0	2	3	2	274	14	86	1	0	0	1	0	86	7	86	0	86	9	86	0
Atlantic	441	1	0	4	5	2	441	19	185	4	0	0	1	0	185	11	183	0	185	21	106	0
Région Nord-Est	132	0	0	3	3	1	104	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	233	0	0	5	5	0	258	18	69	3	0	0	0	0	68	7	56	0	N.A.	N.A.	56	0
Centre-du-Québec	348	0	0	44	44	5	303	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1108	0	0	72	72	28	1074	72	640	8	0	0	1	0	640	18	628	3	N.A.	N.A.	628	9
Ouest du Québec	275	0	0	10	10	11	268	25	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	251	0	0	11	11	2	251	16	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2347	0	0	145	145	47	2258	143	709	11	0	0	1	0	708	25	684	3	N.A.	N.A.	684	9
P.H.O.L. - Ottawa	26	0	3	0	3	1	26	0	26	0	0	0	0	0	26	0	24	0	26	5	24	0
CHEO - Ottawa	238	0	0	4	4	8	238	25	2	0	0	0	0	0	2	0	2	0	2	0	2	0
P.H.O.L. - Kingston	12	1	0	0	1	0	12	0	12	0	0	0	0	0	12	0	12	0	12	3	12	0
UHN / Mount Sinai Hospital	313	0	0	7	7	2	313	5	17	0	0	0	0	0	0	0	17	0	0	0	N.A.	N.A.
P.H.O.L. - Toronto	324	4	5	0	9	2	324	19	324	0	0	0	0	0	324	6	316	3	324	30	316	0
Sick Kids Hospital - Toronto	54	5	0	0	5	1	54	7	54	0	0	0	2	0	54	3	54	0	54	5	54	1
Sunnybrook & Women's College HSC	34	0	0	0	0	0	34	1	34	0	0	0	0	0	34	0	34	0	34	1	0	0
P.H.O.L. - Sault Ste. Marie	15	0	0	0	0	0	15	0	15	0	0	0	0	0	15	0	15	0	15	0	15	0
P.H.O.L. - Timmins	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	9	0	9	0
St. Joseph's - London	152	0	0	2	2	0	152	11	65	0	0	0	1	0	65	0	65	1	34	7	34	1
P.H.O.L. - London	78	1	0	0	1	0	78	7	78	0	0	0	0	0	78	0	77	1	78	10	77	0
P.H.O.L. - Orillia	37	0	0	0	0	2	37	1	37	0	0	0	0	0	37	0	37	0	37	4	37	0
P.H.O.L. - Thunder Bay	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	13	3	13	0
P.H.O.L. - Sudbury	13	0	0	0	0	0	13	1	13	0	0	0	0	0	13	1	12	0	13	3	12	0
P.H.O.L. - Hamilton	106	6	0	0	6	0	106	8	106	0	0	0	0	0	106	2	105	6	106	13	105	0
P.H.O.L. - Peterborough	21	1	0	0	1	0	21	2	21	0	0	0	0	0	21	0	21	2	21	3	21	0
Province of Ontario	1445	18	8	13	39	16	1445	87	826	0	0	0	3	0	809	12	813	13	778	87	731	2
Manitoba	336	0	4	5	9	28	290	20	123	0	0	0	0	0	123	4	107	6	123	12	107	0
Regina	120	0	0	11	11	2	120	1	74	4	1	0	0	0	74	2	74	0	74	15	74	0
Saskatoon	121	0	0	6	6	3	121	3	121	7	0	1	0	0	121	1	121	0	121	19	121	0
Saskatchewan	241	0	0	17	17	5	241	4	195	11	1	1	0	0	195	3	195	0	195	34	195	0
Alberta	848	17	45	17	79	100	660	0	660	16	2	1	9	0	660	13	660	9	660	99	660	5
Prairies	1425	17	49	39	105	133	1191	24	978	27	3	2	9	0	978	20	962	15	978	145	962	5
Province of British Columbia	735	4	1	3	13	10	638	24	233	9	2	1	0	2	233	1	233	3	222	37	172	1
Yukon	15	0	0	0	0	0	15	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.	0	0
Northwest Territories	10	0	0	0	0	0	10	0	10	1	0	0	0	0	10	0	10	0	10	2	10	2
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	0	1	0
Territories	26	0	0	0	0	0	26	0	11	1	0	0	1	0	11	0	11	0	11	2	11	2
CANADA	6419	40	58	204	307	208	5999	297	2942	52	5	3	15	2	2924	69	2886	34	2174	292	2666	19

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, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Victoria Coastal Health, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

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

For British Columbia, only data from subtyped influenza A specimens are included in the weekly number of influenza detections. The sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

Table 2: Respiratory Virus Detections/Isolations for the period August 25, 2019 - November 30, 2019 (Reporting Weeks 201935-201948)

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	953	0	15	2	17	1	953	4	953	35	0	3	0	0	953	27	953	1	953	214	N.A.	N.A.
Prince Edward Island	187	0	0	3	3	2	187	1	17	0	0	0	0	0	17	0	15	0	17	10	17	0
Nova Scotia	628	0	0	2	2	1	635	4	221	11	1	1	1	0	226	5	226	0	226	52	236	0
New Brunswick	1848	3	2	9	14	4	1789	26	728	27	2	0	3	0	728	28	728	0	728	175	728	0
Atlantic	3616	3	17	16	36	8	3564	35	1919	73	3	4	4	0	1924	60	1922	1	1924	451	981	0
Région Nord-Est	810	0	0	3	3	1	666	8	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	1705	0	0	12	12	2	1930	26	1134	11	3	1	4	0	1160	37	955	2	N.A.	N.A.	960	1
Centre-du-Québec	1597	0	0	60	60	10	1400	22	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	9447	0	0	183	183	64	9410	229	6328	85	3	5	7	0	6328	232	5920	19	N.A.	N.A.	6230	36
Ouest du Québec	2027	0	0	85	85	23	1992	63	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	1547	0	0	33	33	5	1545	66	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	17133	0	0	376	376	105	16943	414	7462	96	6	6	11	0	7488	269	6875	21	N.A.	N.A.	7190	37
P.H.O.L. - Ottawa	268	0	11	0	11	1	266	3	241	2	0	0	0	0	241	1	234	0	85	18	77	0
CHEO - Ottawa	1920	0	0	17	17	18	1920	72	337	1	0	3	6	0	337	6	337	0	340	98	328	1
P.H.O.L. - Kingston	243	1	1	0	2	0	243	1	239	1	0	0	0	0	239	5	236	0	70	14	63	0
UHN / Mount Sinai Hospital	3079	0	0	22	22	9	3079	35	232	3	0	7	2	0	0	0	232	6	0	0	N.A.	N.A.
P.H.O.L. - Toronto	3990	19	35	0	54	9	3984	59	3904	34	0	3	0	0	3904	37	3796	23	1360	139	1232	0
Sick Kids Hospital - Toronto	616	6	1	0	7	2	616	32	616	17	5	1	11	0	616	11	616	7	616	190	616	4
Sunnybrook & Women's College HSC	241	0	0	2	2	0	241	2	241	3	0	0	0	0	241	2	241	1	241	14	120	0
P.H.O.L. - Sault Ste. Marie	90	0	0	0	0	0	90	0	90	1	0	0	0	0	90	0	89	0	39	0	38	0
P.H.O.L. - Timmins	55	0	0	0	0	0	55	0	55	0	0	0	0	0	55	0	55	0	27	0	25	0
St. Joseph's - London	609	0	0	4	4	0	609	21	340	10	1	0	3	0	340	4	340	2	237	62	216	1
P.H.O.L. - London	893	4	2	0	6	0	890	33	875	8	0	0	0	0	875	10	857	2	419	68	389	0
P.H.O.L. - Orillia	347	0	4	0	4	2	347	2	344	4	0	0	0	0	344	2	343	0	153	26	150	0
P.H.O.L. - Thunder Bay	90	0	0	0	0	1	88	0	88	0	0	1	0	0	88	1	80	0	40	8	31	0
P.H.O.L. - Sudbury	123	0	0	0	0	0	122	1	122	0	0	1	0	0	122	4	114	0	50	5	41	0
P.H.O.L. - Hamilton	1066	8	5	0	13	2	1059	22	1036	10	1	0	0	0	1036	11	1023	7	441	76	424	0
P.H.O.L. - Peterborough	359	1	0	0	1	2	356	8	355	3	0	0	0	0	354	3	354	3	100	20	97	0
Province of Ontario	13989	39	59	45	143	46	13965	291	9115	97	7	16	22	0	8882	97	8947	51	4218	738	3847	6
Manitoba	3327	7	17	19	43	58	3263	52	1876	16	1	3	2	0	1876	38	1050	11	1876	364	1050	6
Regina	2721	0	0	53	53	7	2721	9	1545	43	1	1	6	0	1545	32	1468	2	1545	486	1545	3
Saskatoon	1691	0	0	24	24	10	1691	11	1691	69	4	4	1	0	1691	43	1694	1	1691	433	1691	5
Saskatchewan	4412	0	0	77	77	17	4412	20	3236	112	5	5	7	0	3236	75	3162	3	3236	919	3236	8
Alberta	9457	76	185	102	363	261	7977	0	7977	178	18	15	50	0	7977	153	7977	54	7977	2077	7977	39
Prairies	17196	83	202	198	483	336	15652	72	13089	306	24	23	59	0	13089	266	12189	68	13089	3360	12263	53
Province of British Columbia	7548	21	79	64	212	24	7383	128	3040	98	25	16	16	7	3040	24	3014	95	2768	748	2670	19
Yukon	541	0	8	3	11	0	541	1	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	184	4	0	1	5	0	180	0	180	1	0	1	0	0	180	4	180	7	180	77	180	3
Nunavut	34	0	0	0	0	0	32	0	32	0	3	0	2	0	32	4	32	0	32	15	32	0
Territories	7549	4	8	4	16	0	753	1	212	1	3	1	2	0	212	8	212	7	212	92	212	3
CANADA	60241	150	365	703	1266	519	58260	941	34837	671	68	66	114	7	34635	724	33159	243	22211	5389	27163	118

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, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital, Victoria Coastal Health, BCCDC Public Health Laboratory, 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.

For BC, only data from subtyped influenza A specimens are included in the weekly number of influenza detections. The sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2019-2020

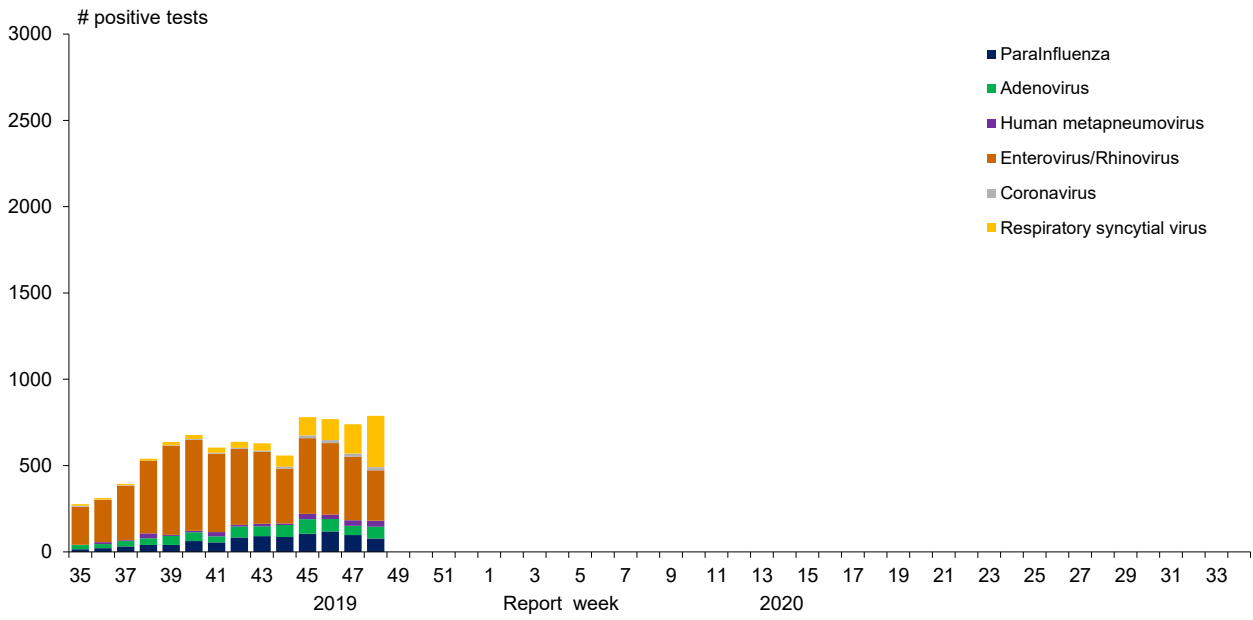


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

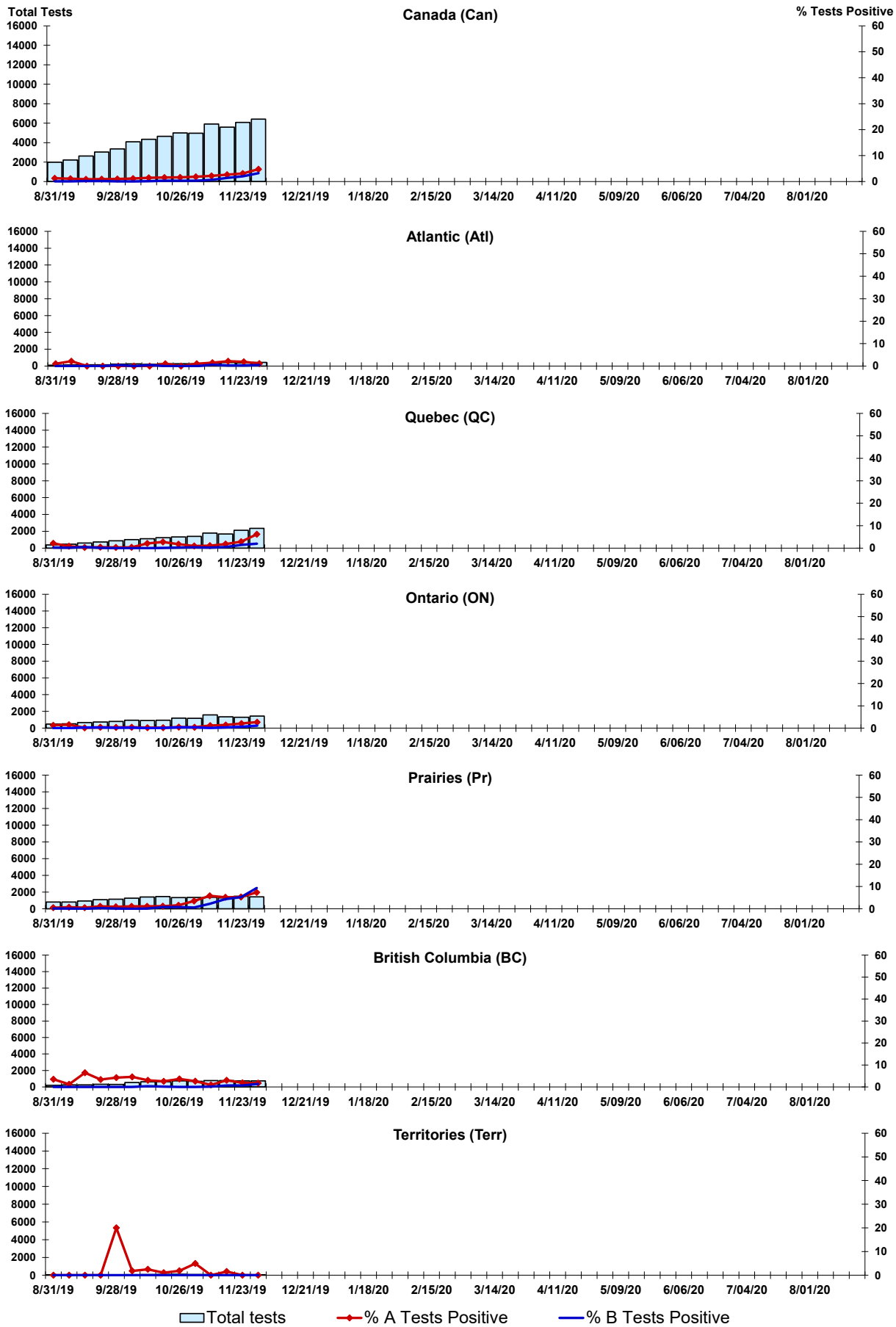


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

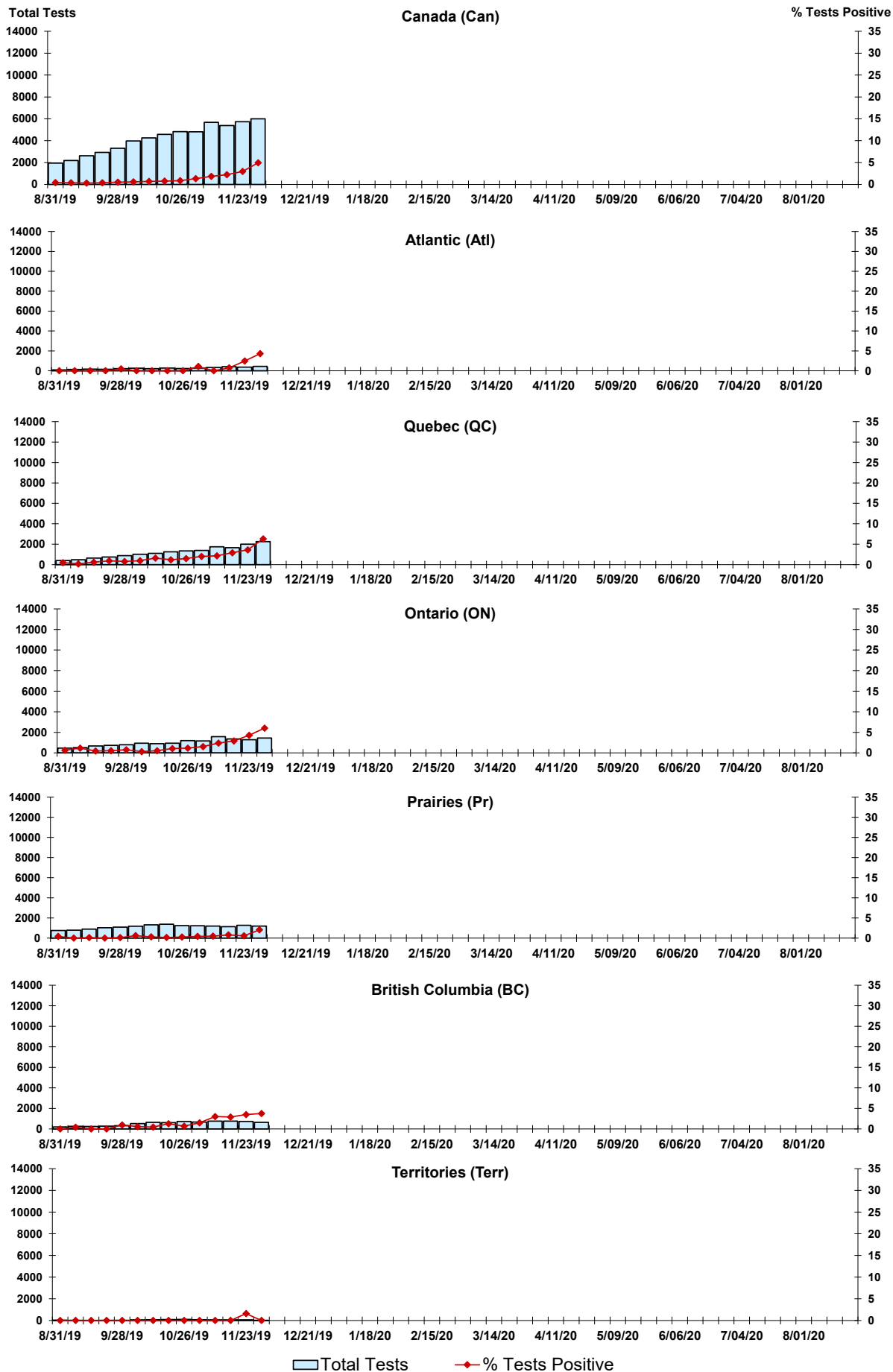


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

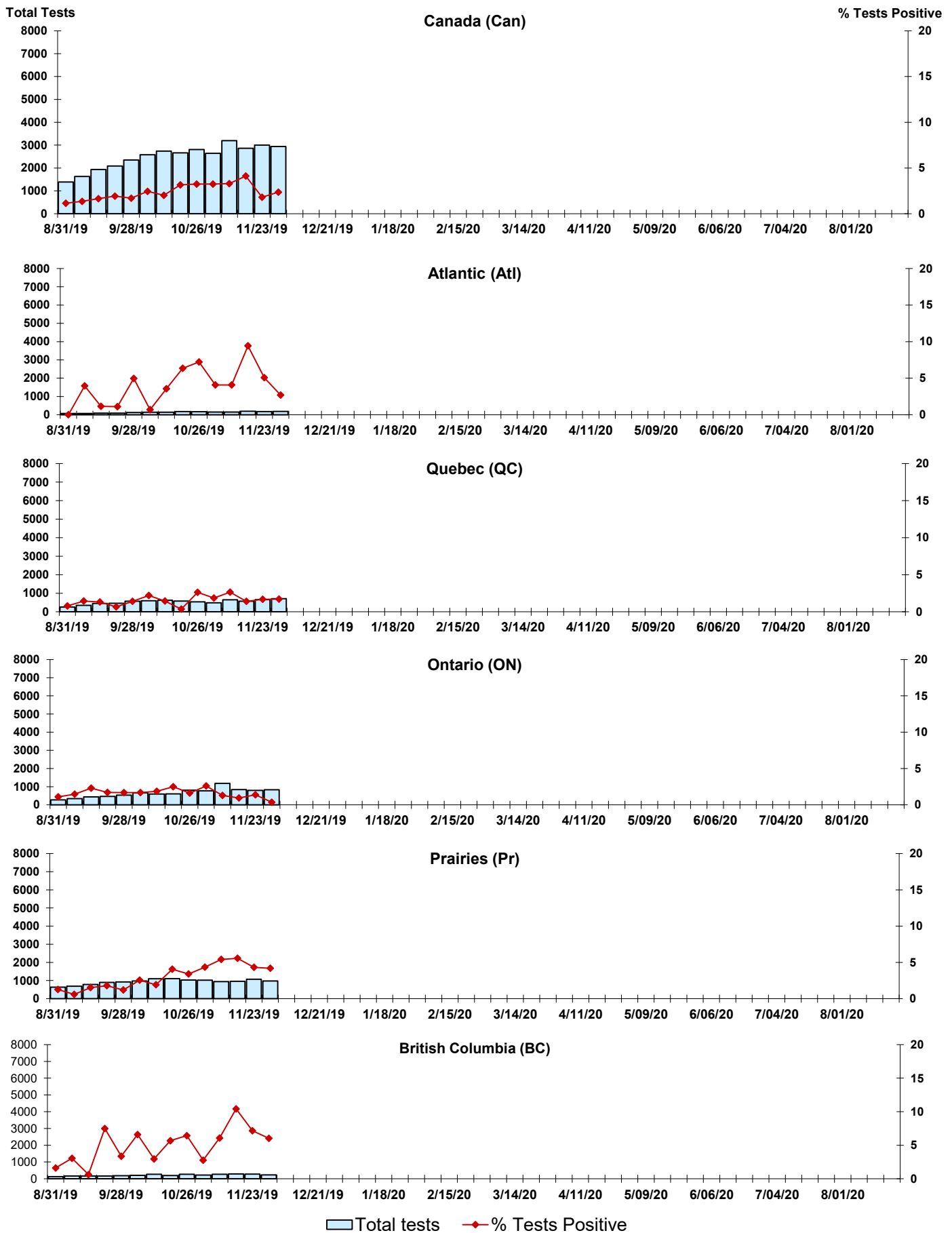


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

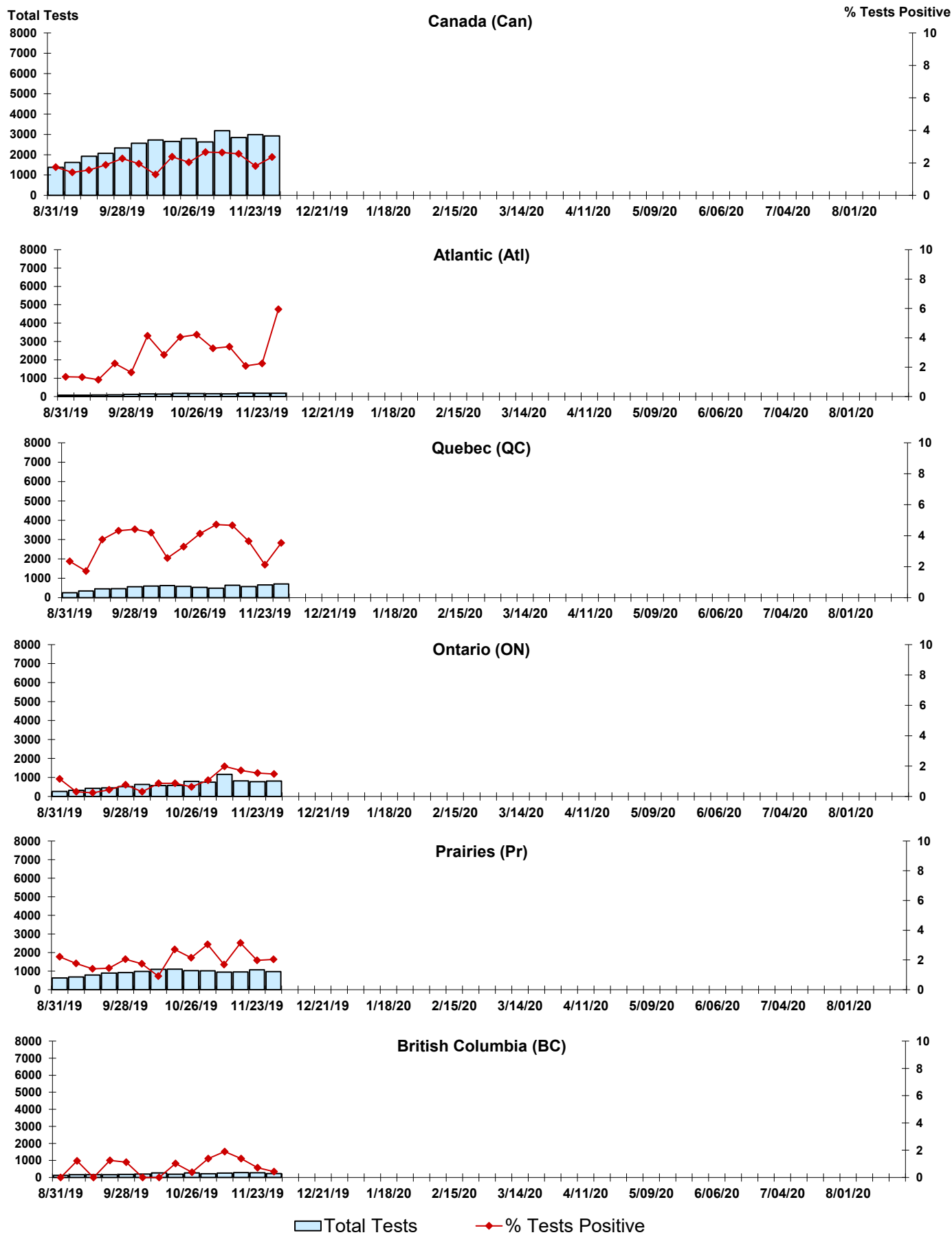


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

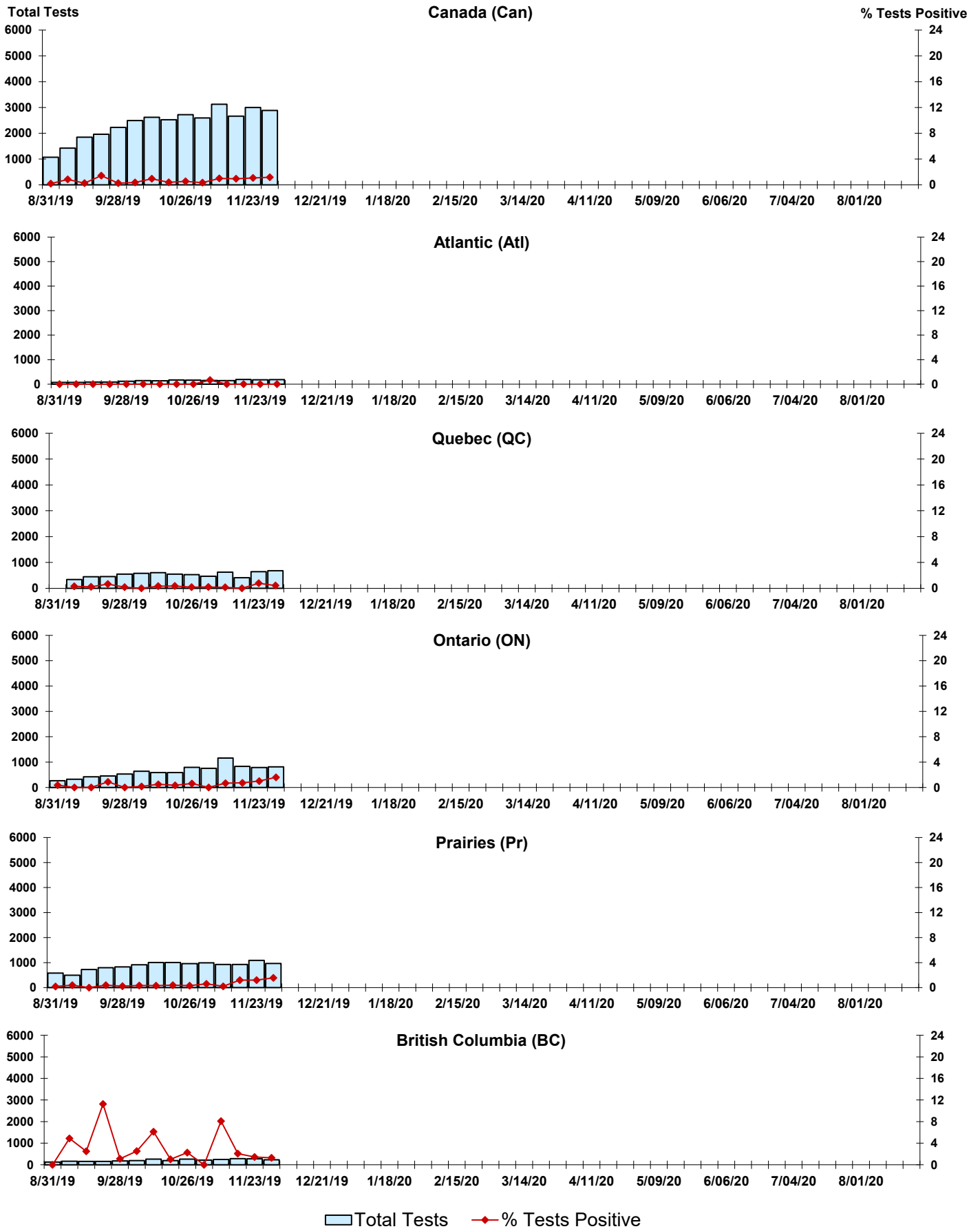


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

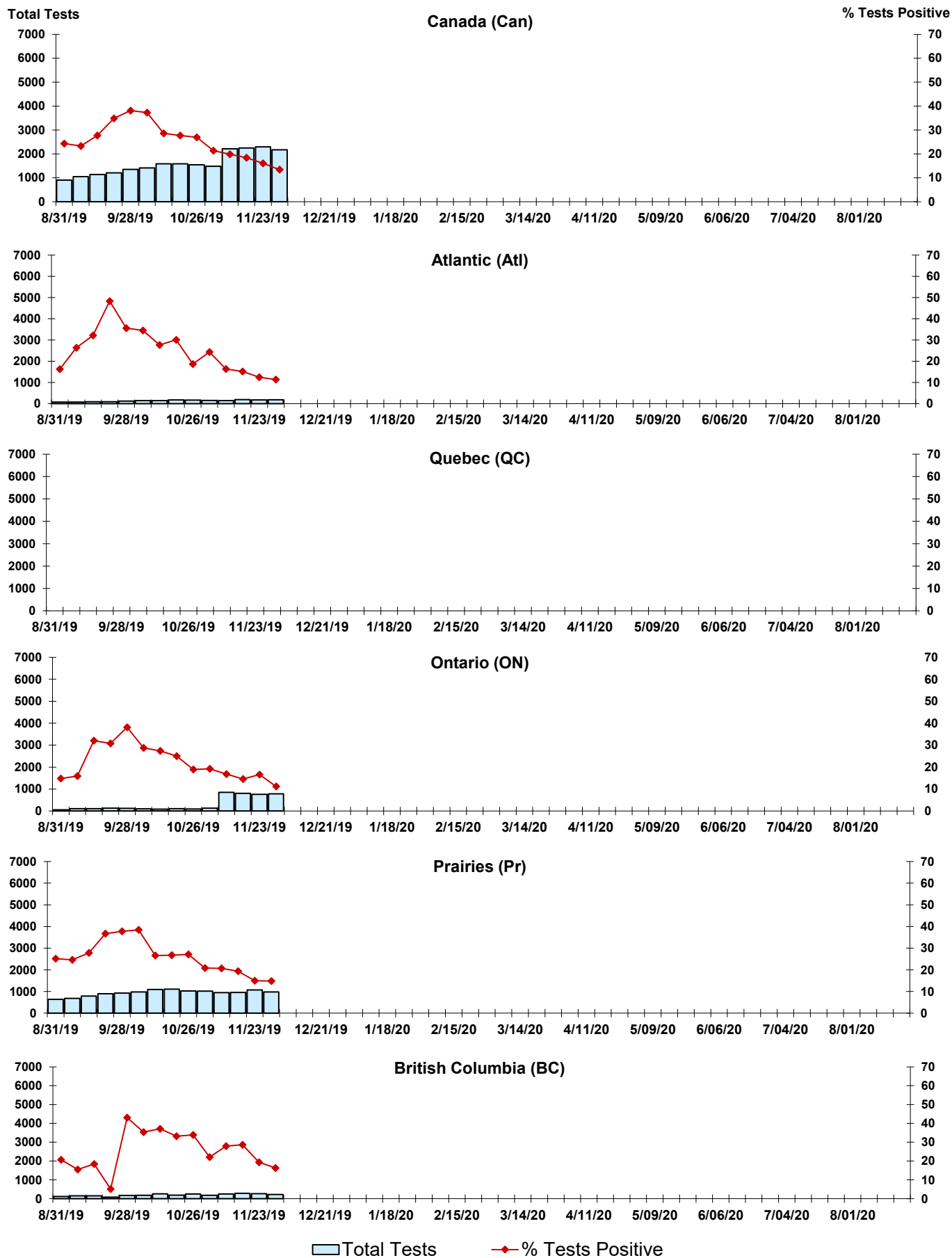
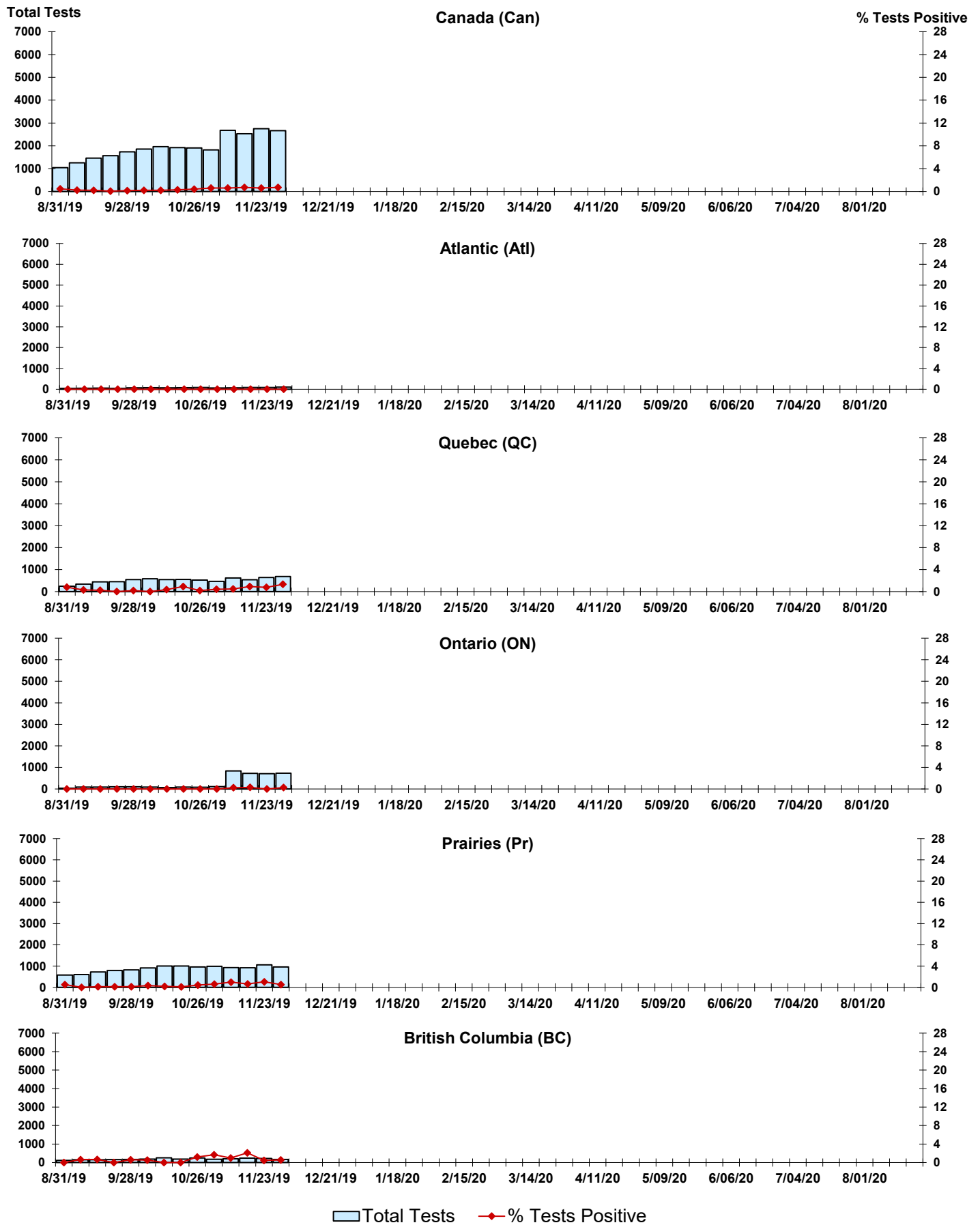


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.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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Due to reporting delays, the sum of weekly report totals do not add up to cumulative totals.