

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 16 - ending April 20, 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 April 20, 2019 (Reporting Week 201916)

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	197	0	0	52	52	1	197	24	197	0	2	9	0	0	197	2	197	17	197	3	N.A.	N.A.
Prince Edward Island	22	0	2	0	2	0	22	2	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	143	0	0	21	21	1	143	15	9	0	0	2	0	0	9	0	9	0	9	0	9	2
New Brunswick	384	0	0	59	59	35	384	38	88	0	2	8	0	0	88	1	88	7	88	11	88	7
Atlantic	746	0	2	132	134	37	746	79	295	0	4	19	0	0	295	3	295	24	295	14	98	9
Région Nord-Est	296	0	0	23	23	7	241	33	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	271	0	0	21	21	6	281	22	83	0	0	7	0	0	89	0	69	1	N.A.	N.A.	67	2
Centre-du-Québec	508	0	0	110	110	12	455	12	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	955	0	0	79	79	22	940	23	479	4	0	43	0	0	479	16	472	34	N.A.	N.A.	472	13
Ouest du Québec	222	0	0	47	47	9	207	8	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	178	0	0	21	21	5	178	7	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2430	0	0	301	301	61	2302	105	562	4	0	50	0	0	568	16	541	35	N.A.	N.A.	539	15
Ottawa P.H.L.	14	0	3	1	4	0	14	0	5	0	0	0	0	0	5	0	5	0	0	0	0	0
CHEO - Ottawa	224	0	0	24	24	3	224	6	19	0	0	1	0	0	19	0	19	1	19	3	19	1
Kingston P.H.L.	18	0	0	0	0	1	18	0	14	0	0	2	0	0	14	0	11	0	3	0	0	0
UHN / Mount Sinai Hospital	283	0	0	17	17	3	283	5	9	0	0	1	0	0	0	0	9	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	252	3	32	1	36	4	238	3	200	0	0	5	0	0	200	1	196	8	4	0	0	0
Sick Kids Hospital - Toronto	81	0	0	2	2	3	60	1	60	3	0	6	0	0	60	0	60	4	60	16	60	2
Sunnybrook & Women's College HSC	60	0	5	1	6	0	60	0	60	0	0	1	0	0	60	0	60	1	60	2	60	5
Sault Ste. Marie P.H.L.	5	0	0	0	0	0	5	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
Timmins P.H.L.	9	0	1	0	1	0	7	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
St. Joseph's - London	125	0	0	9	9	1	125	1	49	1	0	3	0	0	49	1	49	2	49	1	23	2
London P.H.L.	64	0	9	0	9	1	63	4	45	0	0	6	0	0	45	0	45	2	0	0	0	0
Orillia P.H.L.	43	0	10	1	11	0	43	0	17	0	0	0	0	0	17	0	17	2	0	0	0	0
Thunder Bay P.H.L.	19	0	4	0	4	0	14	0	13	0	0	0	0	0	13	0	13	2	0	0	0	0
Sudbury P.H.L.	15	0	2	0	2	0	14	1	12	0	0	0	0	0	12	0	9	0	3	0	0	0
Hamilton P.H.L.	136	0	23	6	29	2	123	1	94	2	0	5	0	0	94	2	92	2	3	0	0	0
Peterborough P.H.L.	27	0	4	1	5	0	27	2	17	0	0	1	0	0	17	0	17	1	0	0	0	0
Province of Ontario	1375	3	93	63	159	18	1318	24	625	6	0	31	0	0	616	4	613	25	201	22	162	10
Manitoba	297	1	6	5	12	5	263	19	160	0	3	10	0	0	160	1	88	2	160	12	88	3
Regina	109	5	9	0	14	7	109	11	109	0	1	9	0	0	109	2	109	6	109	11	109	7
Saskatoon	150	0	0	17	17	7	150	6	150	0	0	3	0	0	150	4	150	12	150	19	150	10
Province of Saskatchewan	259	5	9	17	31	14	259	17	259	0	1	12	0	0	259	6	259	18	259	30	259	17
Province of Alberta	742	10	101	33	144	18	648	0	648	1	1	59	5	0	648	15	648	35	648	80	648	29
Prairies	1298	16	116	55	187	37	1170	36	1067	1	5	81	5	0	1067	22	995	55	1067	122	995	49
British Columbia	602	17	48	52	117	13	602	39	278	0	0	12	0	0	278	6	278	1	212	27	212	13
Yukon	8	0	0	4	4	0	8	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	11	1	0	0	1	0	10	0	10	0	0	0	0	0	10	0	10	0	10	3	10	0
Nunavut	7	0	0	0	0	0	7	0	7	1	0	1	0	0	7	1	7	0	7	0	7	0
Territories	26	1	0	4	5	0	25	0	17	1	0	1	0	0	17	1	17	0	17	3	17	0
CANADA	6477	37	259	607	903	166	6163	283	2844	12	9	194	5	0	2841	52	2739	140	1792	188	2023	96

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 - April 20, 2019 (Reporting Weeks 201835-201916)

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	4495	1	0	970	971	4	4495	451	4495	0	58	130	0	0	4495	37	4495	151	4495	300	N.A.	N.A.
Prince Edward Island	1179	220	52	1	273	0	1177	135	82	1	0	2	3	0	77	5	77	3	77	22	77	3
Nova Scotia	3636	0	0	759	759	15	3642	364	497	0	4	23	2	0	497	0	497	8	497	63	497	11
New Brunswick	12541	230	34	2458	2722	209	12540	1153	3156	0	18	56	40	0	3156	120	3156	125	3156	336	3156	162
Atlantic	21851	451	86	4188	4725	228	21854	2103	8230	1	80	211	45	0	8225	162	8225	287	8225	721	3730	176
Région Nord-Est	8418	0	0	1533	1533	37	6632	623	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	14251	0	0	3031	3031	34	14457	1503	2699	5	32	42	9	0	2804	89	2267	32	N.A.	N.A.	2098	27
Centre-du-Québec	16838	0	0	3489	3489	165	13516	1555	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	36550	0	0	4364	4364	161	35432	2930	18887	74	150	230	36	0	18887	552	18518	394	N.A.	N.A.	18467	708
Ouest du Québec	11862	0	0	2602	2602	74	10834	1384	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	8089	0	0	1326	1327	31	7679	665	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	96008	0	0	16345	16346	502	88550	8660	21586	79	182	272	45	0	21727	641	20785	426	N.A.	N.A.	20565	735
Ottawa P.H.L.	892	91	65	20	176	3	887	87	493	0	3	4	0	0	493	1	474	9	24	0	0	0
CHEO - Ottawa	7333	0	0	802	802	21	7333	909	781	3	10	16	6	0	782	23	781	15	774	193	756	38
Kingston P.H.L.	863	66	63	11	140	11	863	61	598	0	4	10	0	0	598	1	571	6	82	0	0	0
UHN / Mount Sinai Hospital	10580	5	15	717	737	37	10580	471	569	1	9	9	3	0	0	0	526	4	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	12347	865	624	91	1580	55	11928	513	9617	14	60	61	0	0	9618	47	9336	127	455	0	0	0
Sick Kids Hospital - Toronto	2405	111	40	120	271	28	2011	217	2011	17	35	38	25	0	2011	76	2011	76	2011	475	2011	128
Sunnybrook & Women's College HSC	2324	71	89	11	171	6	2324	62	2324	5	5	11	1	0	2324	1	2324	68	2324	187	2324	93
Sault Ste. Marie P.H.L.	398	47	38	3	88	0	331	14	304	0	3	0	0	0	304	0	298	5	10	0	0	0
Timmins P.H.L.	345	57	7	1	65	0	279	6	279	0	7	3	0	0	279	0	272	1	15	0	0	0
St. Joseph's - London	4122	3	0	510	513	4	3990	353	1354	5	6	23	15	0	1354	30	1354	45	985	153	750	21
London P.H.L.	3703	318	180	58	556	13	3665	324	2528	4	22	22	0	0	2528	18	2443	34	154	0	0	0
Orillia P.H.L.	1064	66	54	22	142	1	1064	127	735	2	2	11	0	0	735	1	722	12	34	0	0	0
Thunder Bay P.H.L.	408	29	42	8	79	0	319	13	309	1	1	11	0	0	308	4	293	9	25	0	0	0
Sudbury P.H.L.	797	47	15	0	62	0	741	31	716	3	4	1	0	0	716	3	674	9	69	0	0	0
Hamilton P.H.L.	3459	232	177	36	445	8	3357	131	2670	12	14	38	0	0	2670	20	2624	38	119	0	0	0
Peterborough P.H.L.	1019	44	60	22	126	3	1016	49	793	2	4	3	0	0	793	0	784	10	12	0	0	0
Province of Ontario	52059	2052	1469	2432	5953	190	50688	3368	26081	69	189	261	50	0	25513	225	25487	468	7297	1018	6052	290
Manitoba	9302	312	71	724	1107	25	8918	558	3903	3	16	69	12	0	3903	38	2440	75	3903	414	2474	118
Regina	7852	1427	121	153	1701	68	7852	514	9785	4	61	177	35	0	7852	114	7852	135	7852	1370	7852	234
Saskatoon	5920	0	0	844	844	29	5920	423	5920	2	7	25	13	48	5920	41	5920	108	5920	360	5920	79
Province of Saskatchewan	13772	1427	121	997	2545	97	13772	937	15705	6	68	202	48	48	13772	155	13772	243	13772	1730	13772	313
Province of Alberta	32911	3598	903	2095	6596	228	26577	0	26577	27	223	549	237	0	26577	376	26577	724	26577	3883	26577	1257
Prairies	55985	5337	1095	3816	10248	350	49267	1495	46185	36	307	820	297	48	44252	569	42789	1042	44252	6027	42823	1688
British Columbia	23852	3124	1426	1610	6160	208	23815	1507	9691	13	67	307	100	0	9691	138	9691	70	7280	1426	7280	442
Yukon	328	54	12	33	99	0	328	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	728	173	2	0	175	1	723	0	723	2	0	28	4	0	723	21	723	6	723	122	723	46
Nunavut	97	20	0	0	20	0	97	0	97	3	0	3	0	0	97	13	96	0	97	23	96	9
Territories	1153	247	14	33	294	1	1148	18	820	5	0	31	4	0	820	34	819	6	820	145	819	55
CANADA	250908	11211	4090	28424	43726	1479	235322	17151	112593	203	825	1902	541	48	110228	1769	107796	2299	67874	9337	81269	3386

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

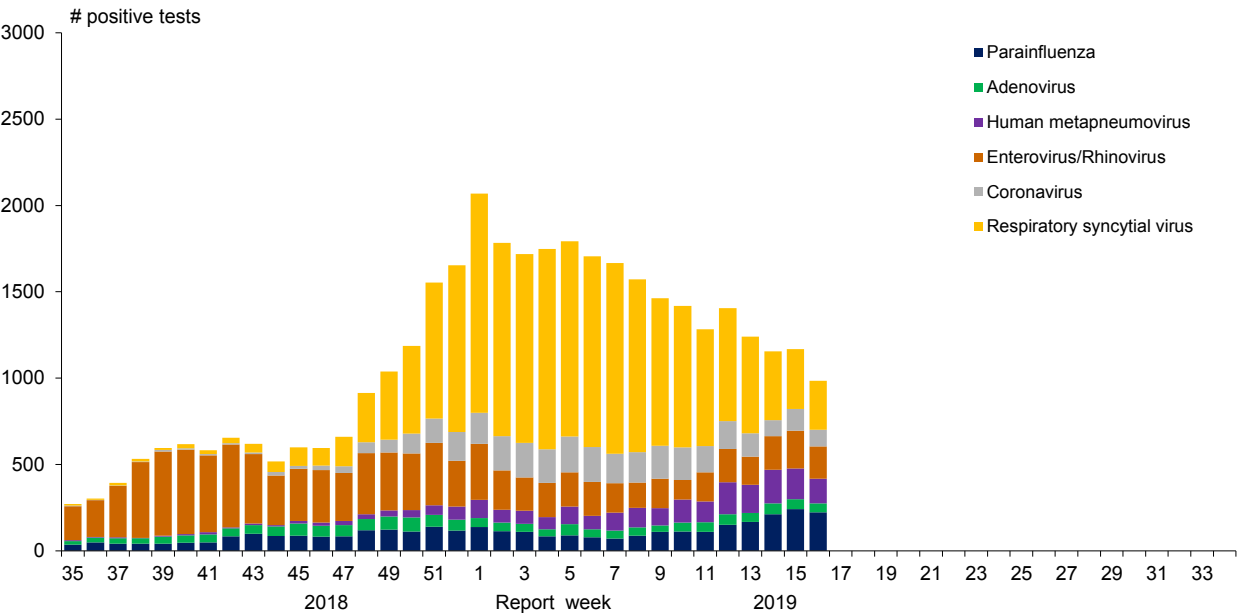


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

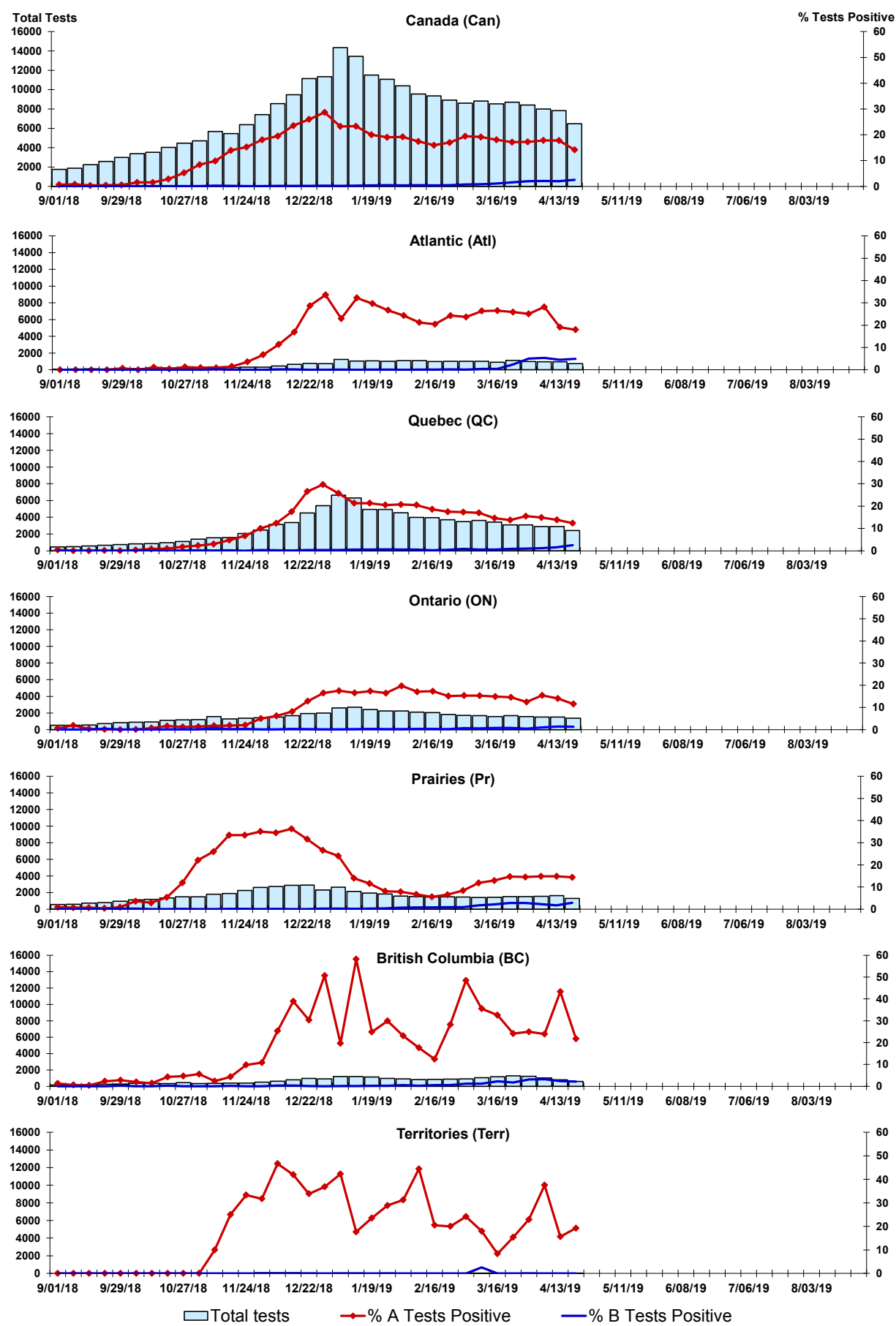


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

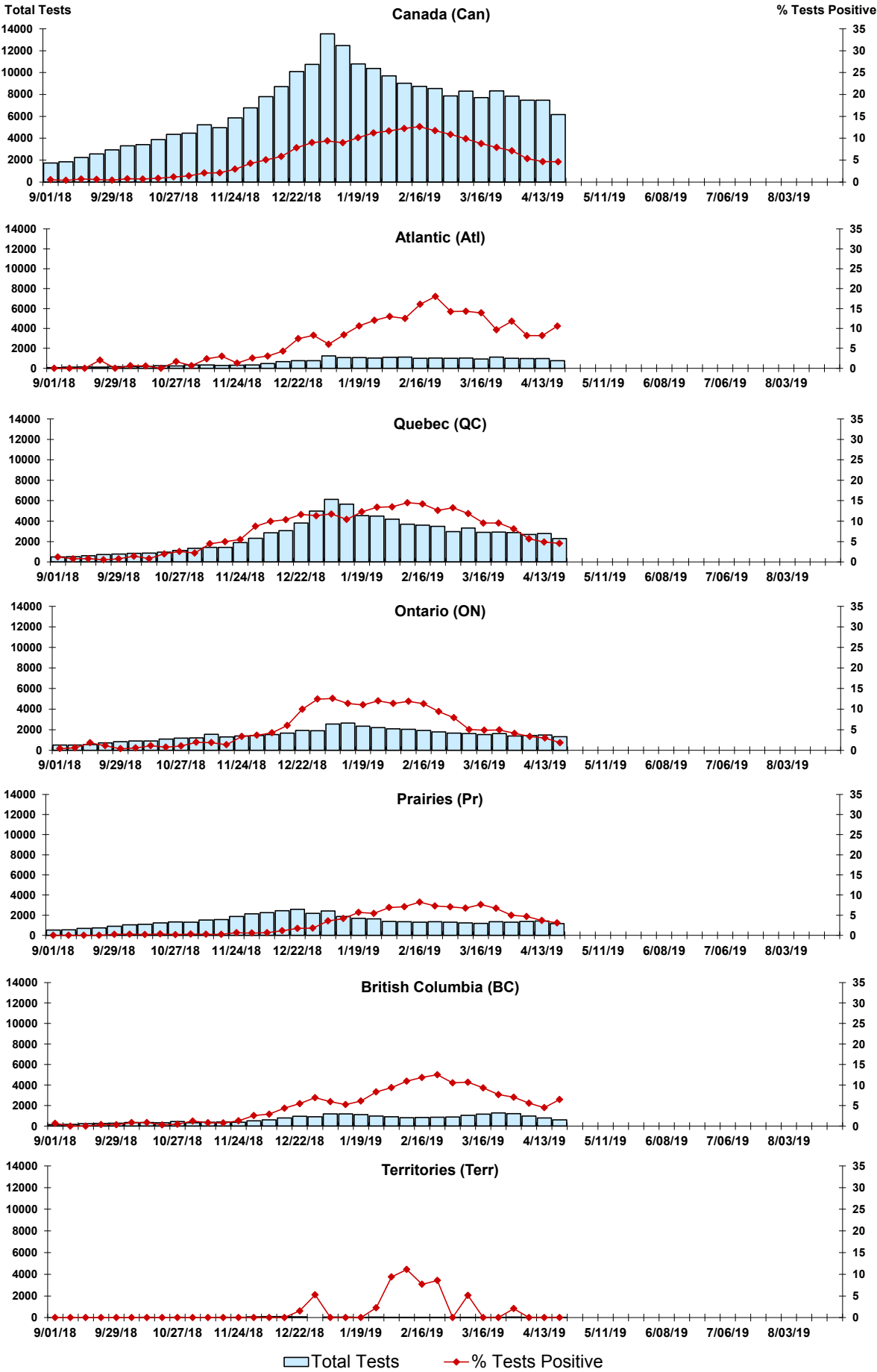


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

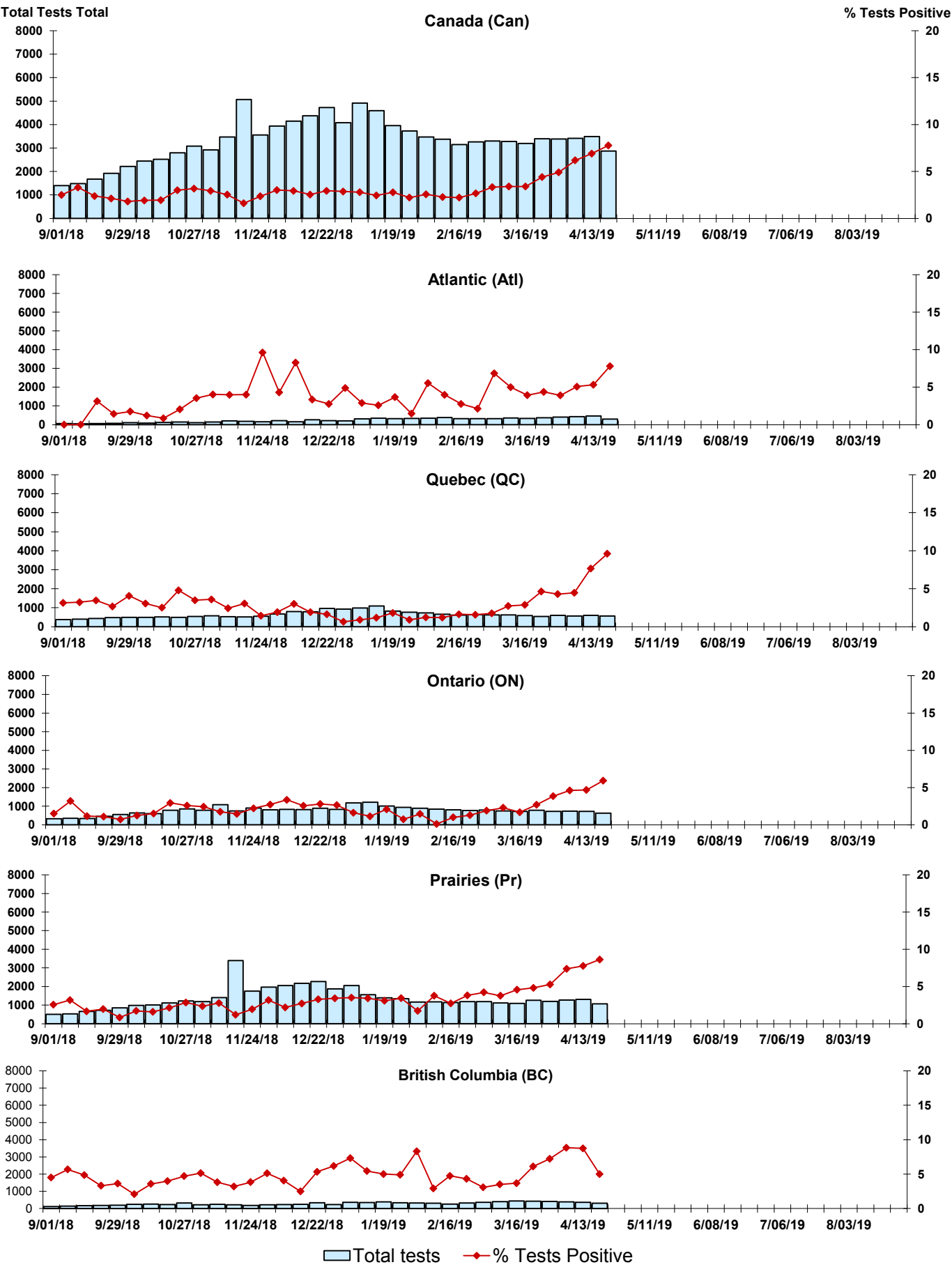


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

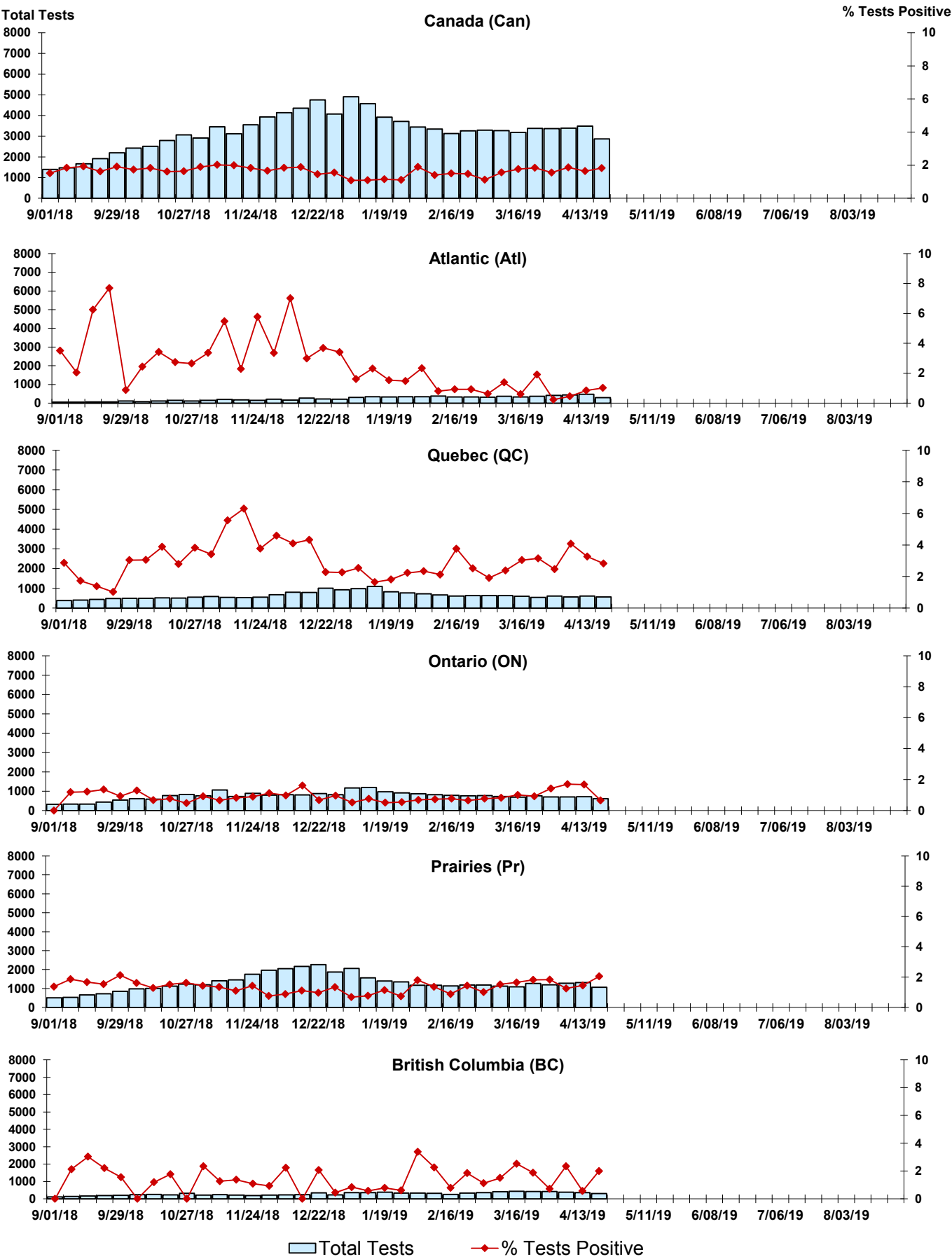
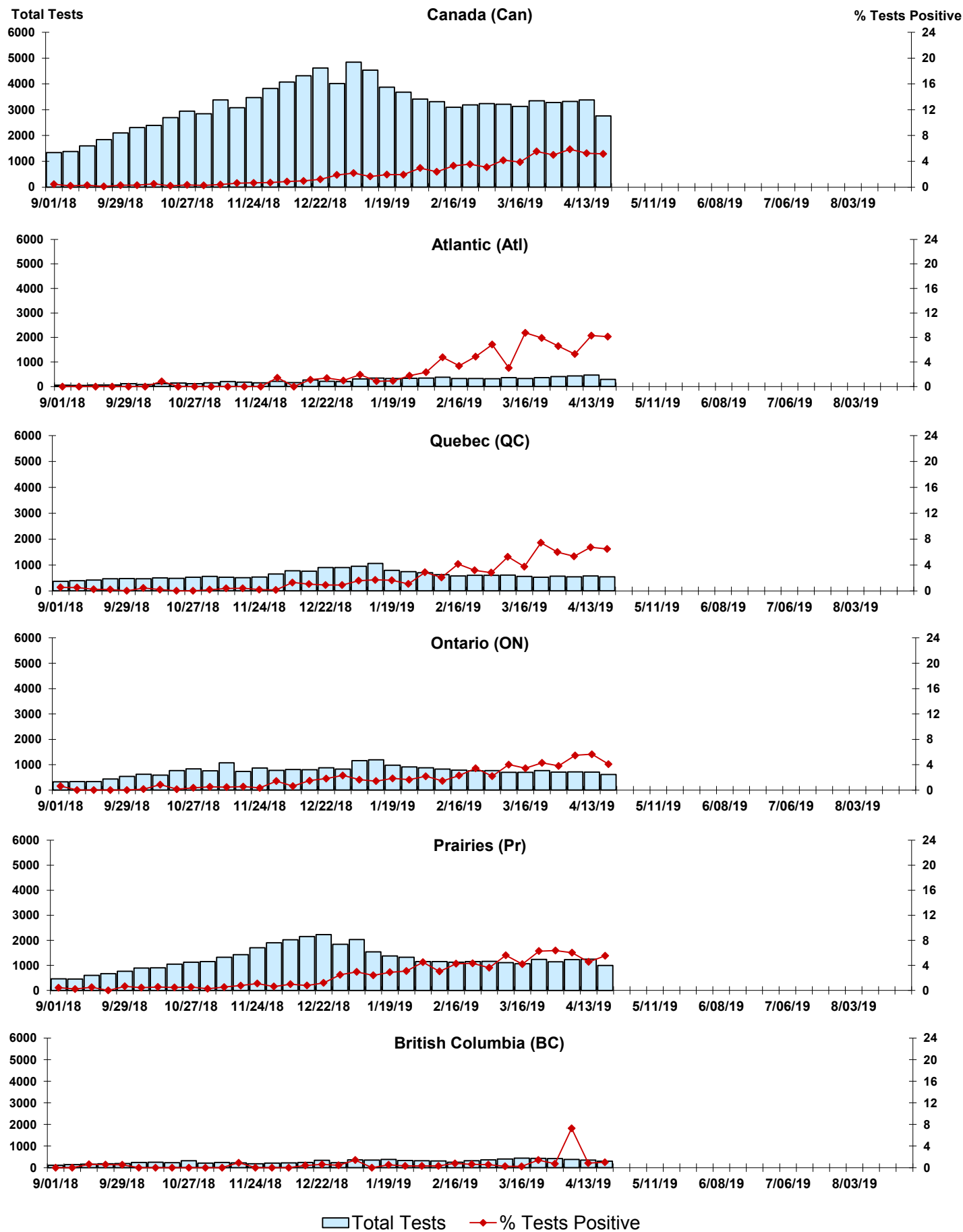


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



■ Total Tests —◆ % Tests Positive

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

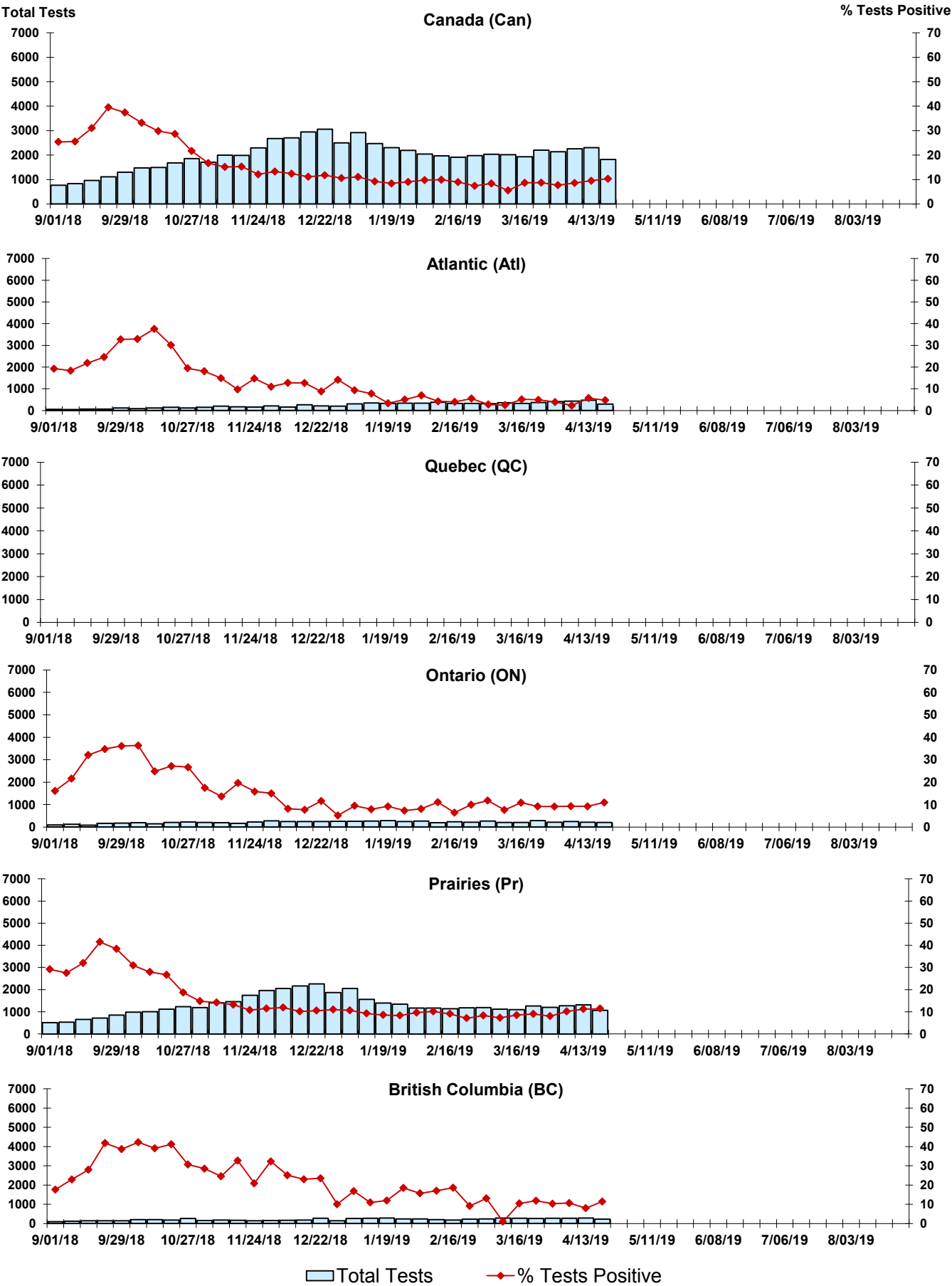
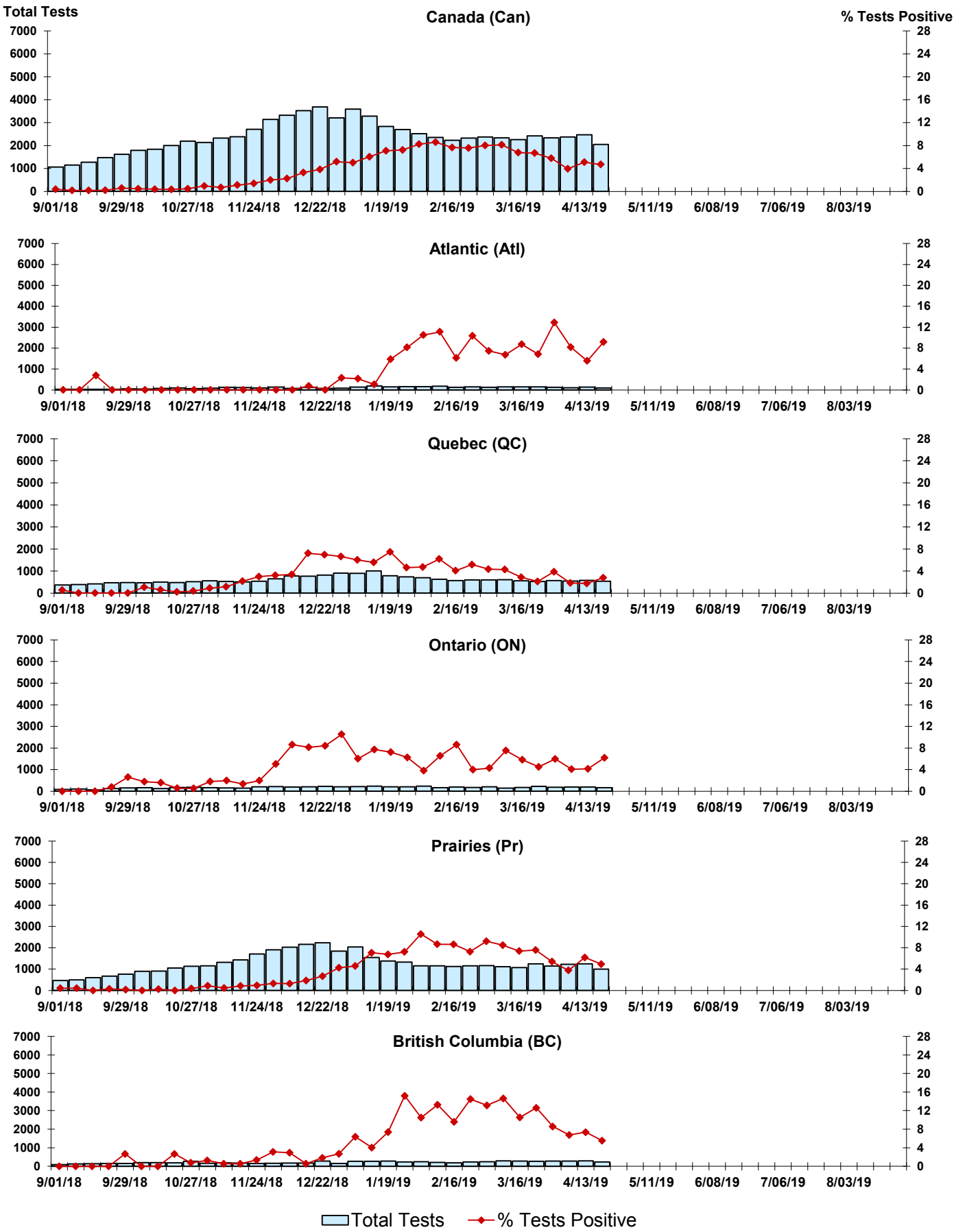


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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