

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 29 - ending July 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 July 20, 2019 (Reporting Week 201929)

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	38	0	0	0	0	0	38	0	38	0	1	1	0	0	38	3	38	2	38	3	N.A.	N.A.
Prince Edward Island	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	24	0	0	0	0	0	24	0	15	0	0	1	0	0	15	0	15	0	15	1	15	0
New Brunswick	77	0	0	0	0	0	77	0	23	1	0	2	2	0	23	1	23	0	23	5	23	0
Atlantic	140	0	0	1	1	0	140	0	76	1	1	4	2	0	76	4	76	2	76	9	38	0
Région Nord-Est	26	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	39	0	0	0	0	0	43	0	54	0	0	3	1	0	54	3	0	0	N.A.	N.A.	52	0
Centre-du-Québec	34	0	0	0	0	1	34	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	372	0	0	1	1	1	383	0	309	5	0	1	0	0	309	10	0	0	N.A.	N.A.	304	2
Ouest du Québec	33	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	22	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	526	0	0	1	1	2	540	0	363	5	0	4	1	0	363	13	0	0	N.A.	N.A.	356	2
Ottawa P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
CHEO - Ottawa	51	0	0	0	0	1	51	2	21	0	0	0	0	0	21	0	21	0	21	4	20	0
Kingston P.H.L.	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	1	0	0	0
UHN / Mount Sinai Hospital	152	0	0	1	1	1	152	3	17	0	0	0	0	0	0	0	17	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	164	1	0	0	1	0	164	0	159	2	0	1	0	0	159	0	148	0	11	0	0	0
Sick Kids Hospital - Toronto	46	0	1	0	1	0	46	0	46	2	0	1	0	0	46	0	46	1	46	16	46	1
Sunnybrook & Women's College HSC	4	0	0	0	0	0	4	0	4	0	0	0	1	0	4	0	4	0	4	0	4	0
Sault Ste. Marie 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
Timmins P.H.L.	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	0	0	0	0
St. Joseph's - London	27	0	0	0	0	0	27	0	27	0	0	0	0	0	27	0	27	0	27	6	27	0
London P.H.L.	25	0	0	0	0	0	25	0	25	0	0	2	0	0	25	0	24	0	1	0	0	0
Orillia P.H.L.	4	0	0	0	0	0	4	0	4	1	0	0	0	0	4	0	4	1	0	0	0	0
Thunder Bay P.H.L.	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	1	2	0	0	0	0	0
Sudbury 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
Hamilton P.H.L.	29	0	0	0	0	0	29	0	28	1	0	0	0	0	28	0	27	0	1	0	0	0
Peterborough P.H.L.	18	0	0	0	0	0	18	0	18	0	0	0	0	0	18	0	17	0	1	0	0	0
Province of Ontario	545	1	1	1	3	2	545	5	373	6	0	4	1	0	356	1	359	2	113	26	97	1
Manitoba	94	0	0	0	0	0	89	0	69	0	0	2	0	0	69	0	33	0	69	8	33	0
Regina	98	0	0	1	1	0	98	0	45	0	0	1	0	0	45	2	45	0	45	17	45	0
Saskatoon	74	0	0	0	0	0	74	0	74	1	0	1	0	0	74	1	74	0	74	12	74	1
Province of Saskatchewan	172	0	0	1	1	0	172	0	119	1	0	2	0	0	119	3	119	0	119	29	119	1
Province of Alberta	432	0	6	0	6	3	400	0	400	3	5	10	1	0	400	10	400	3	400	97	400	3
Prairies	698	0	6	1	7	3	661	0	588	4	5	14	1	0	588	13	552	3	588	134	552	4
British Columbia	308	0	9	5	14	2	308	4	174	2	3	2	3	0	174	5	174	0	156	25	159	5
Yukon	3	0	0	0	0	0	3	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	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	0	2	1	2	0
Nunavut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Territories	5	0	0	0	0	0	5	0	2	0	0	0	0	0	2	0	2	0	2	1	2	0
CANADA	2222	1	16	9	26	9	2199	9	1576	18	9	28	8	0	1559	36	1163	7	935	195	1204	12

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 - July 20, 2019 (Reporting Weeks 201835-201929)

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	5450	1	0	1034	1035	13	5450	489	5450	11	59	200	0	0	5450	51	5450	228	5450	369	N.A.	N.A.
Prince Edward Island	1271	221	56	2	279	2	1269	140	91	1	0	2	3	0	86	6	86	3	86	22	86	4
Nova Scotia	4198	0	0	786	786	22	4209	408	616	1	4	38	3	0	616	3	616	10	616	76	616	11
New Brunswick	15018	246	39	2598	2883	366	15017	1237	3913	1	18	137	45	0	3913	138	3913	151	3913	448	3913	179
Atlantic	25937	468	95	4420	4983	403	25945	2274	10070	14	81	377	51	0	10065	198	10065	392	10065	915	4615	194
Région Nord-Est	9639	0	0	1585	1585	68	7600	704	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16626	0	0	3144	3144	82	16939	1585	3631	10	33	105	11	0	3744	134	2888	50	N.A.	N.A.	2908	31
Centre-du-Québec	18925	0	0	3649	3649	225	15265	1591	0	0	0	0	0	0	36	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	44538	0	0	4686	4686	368	43361	3017	23989	134	162	504	40	0	23989	690	22278	499	N.A.	N.A.	23459	737
Ouest du Québec	13306	0	0	2702	2702	181	12206	1408	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	9436	0	0	1395	1396	54	9024	679	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	112470	0	0	17161	17162	978	104395	8984	27620	144	195	609	51	0	27769	824	25166	549	N.A.	N.A.	26367	768
Ottawa P.H.L.	990	91	70	22	183	4	985	88	584	0	3	8	0	0	584	1	549	9	41	0	0	0
CHEO - Ottawa	8762	0	0	862	862	50	8761	939	1022	6	13	28	6	0	1023	30	1022	18	1015	245	991	41
Kingston P.H.L.	1034	67	71	12	150	16	1034	63	750	0	4	18	0	0	750	1	710	7	114	0	0	0
UHN / Mount Sinai Hospital	13190	6	15	757	778	61	13190	496	752	1	9	17	3	0	0	0	681	8	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	15610	896	719	98	1713	87	15170	542	12638	36	61	180	0	0	12639	67	12238	187	630	0	0	0
Sick Kids Hospital - Toronto	3093	115	47	123	285	40	2677	225	2677	32	37	75	27	0	2677	90	2677	117	2677	654	2677	138
Sunnybrook & Women's College HSC	2818	74	101	11	186	6	2818	62	2818	13	5	33	4	0	2818	1	2818	87	2818	227	2818	100
Sault Ste. Marie P.H.L.	443	47	42	3	92	0	375	18	345	0	3	2	0	0	345	0	336	5	13	0	0	0
Timmins P.H.L.	419	60	10	1	71	0	348	12	346	0	7	6	0	0	346	0	338	1	23	0	0	0
St. Joseph's - London	4845	3	1	530	534	6	4717	361	1760	6	6	43	15	0	1760	39	1745	55	1288	206	1041	21
London P.H.L.	4341	320	205	60	585	18	4303	333	3098	6	23	58	0	0	3098	20	2971	43	235	0	0	0
Orillia P.H.L.	1339	67	78	23	168	2	1339	128	983	3	2	25	0	0	983	1	968	19	47	0	0	0
Thunder Bay P.H.L.	470	32	45	8	85	0	376	18	363	1	1	15	0	0	362	5	343	9	31	0	0	0
Sudbury P.H.L.	963	48	22	0	70	0	901	33	873	5	4	9	0	0	873	3	816	13	88	0	0	0
Hamilton P.H.L.	4224	236	225	33	494	14	4125	136	3374	17	15	80	0	0	3374	25	3308	52	180	0	0	0
Peterborough P.H.L.	1276	44	78	22	144	3	1272	49	1026	4	4	13	0	0	1026	1	1004	12	26	0	0	0
Province of Ontario	63817	2106	1729	2565	6400	307	62391	3503	33409	130	197	610	55	0	32658	284	32524	642	9475	1348	7783	310
Manitoba	11607	335	131	727	1193	77	10987	632	5178	9	22	168	13	0	5178	60	3244	89	5178	659	3277	132
Regina	9141	1433	150	181	1764	88	9141	560	10799	4	65	240	38	0	8866	148	8866	180	8866	1623	8866	310
Saskatoon	7004	0	0	889	889	49	7004	445	7004	4	7	54	15	48	7004	67	7004	153	7004	575	7004	103
Province of Saskatchewan	16145	1433	150	1070	2653	137	16145	1005	17803	8	72	294	53	48	15870	215	15870	333	15870	2198	15870	413
Province of Alberta	40811	3642	1384	2223	7249	365	33571	0	33571	91	247	1101	256	0	33571	498	33571	988	33571	5167	33571	1385
Prairies	68563	5410	1665	4020	11095	579	60703	1637	56552	108	341	1563	322	48	54619	773	52685	1410	54619	8024	52718	1930
British Columbia	27970	3162	1646	1621	6429	242	27933	1584	12697	28	77	500	117	0	12647	177	12647	79	9753	1965	9756	512
Yukon	417	66	32	39	137	0	417	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	812	175	6	0	181	3	807	0	807	6	0	32	4	0	807	27	807	11	807	145	807	47
Nunavut	126	20	0	0	20	0	126	0	126	4	0	4	0	0	126	18	125	0	126	37	125	9
Territories	1355	261	38	39	338	3	1350	18	933	10	0	36	4	0	933	45	932	11	933	182	932	56
CANADA	300112	11407	5173	29826	46407	2512	282717	18000	141281	434	891	3695	600	48	138691	2301	134019	3083	84845	12434	102171	3770

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

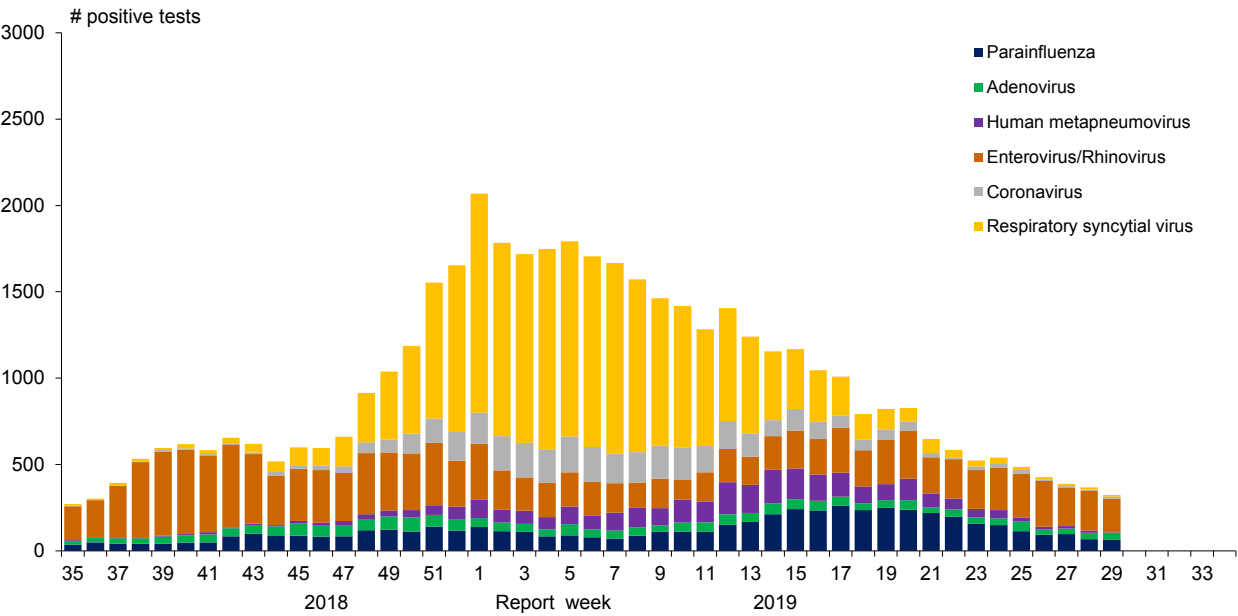


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

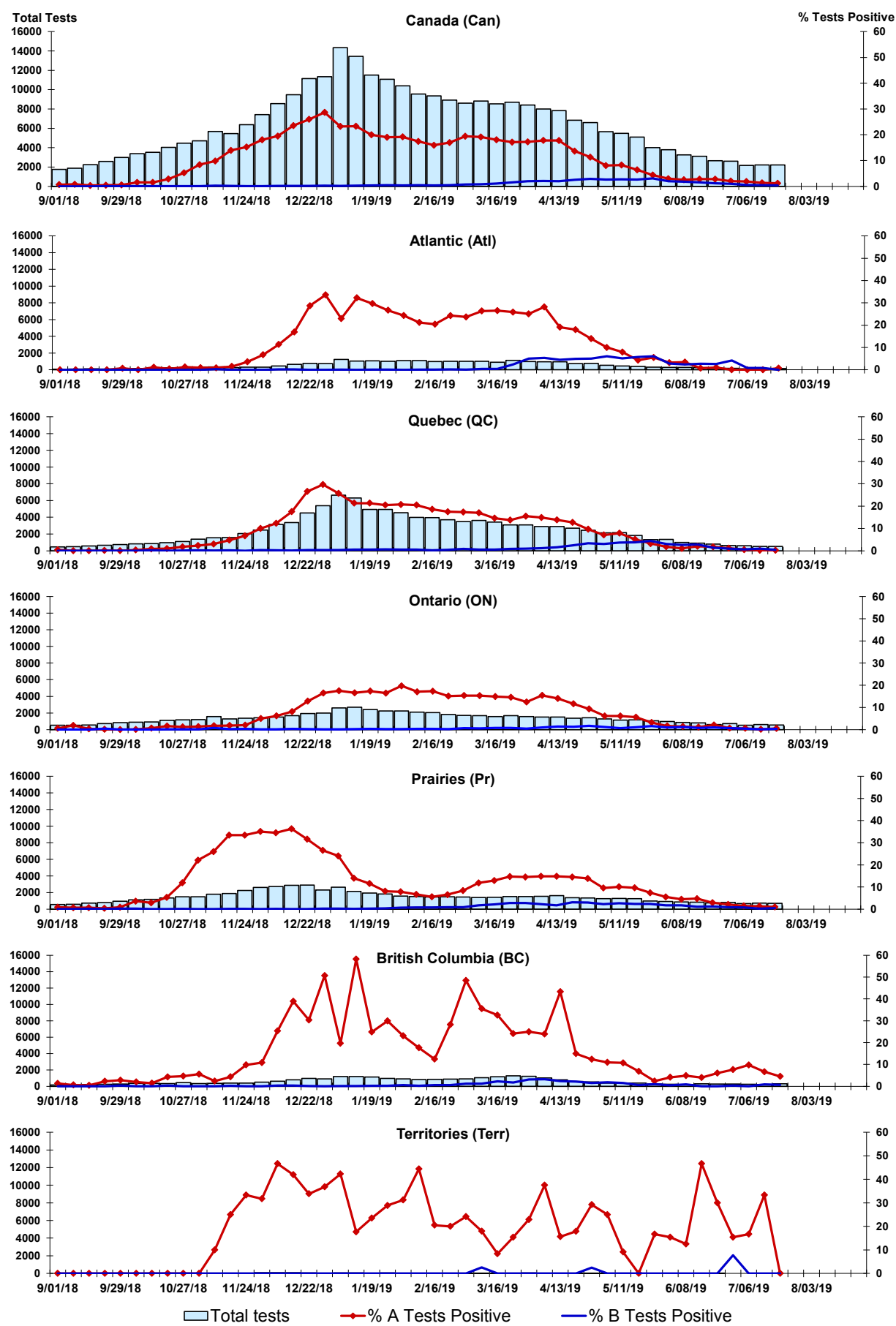


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

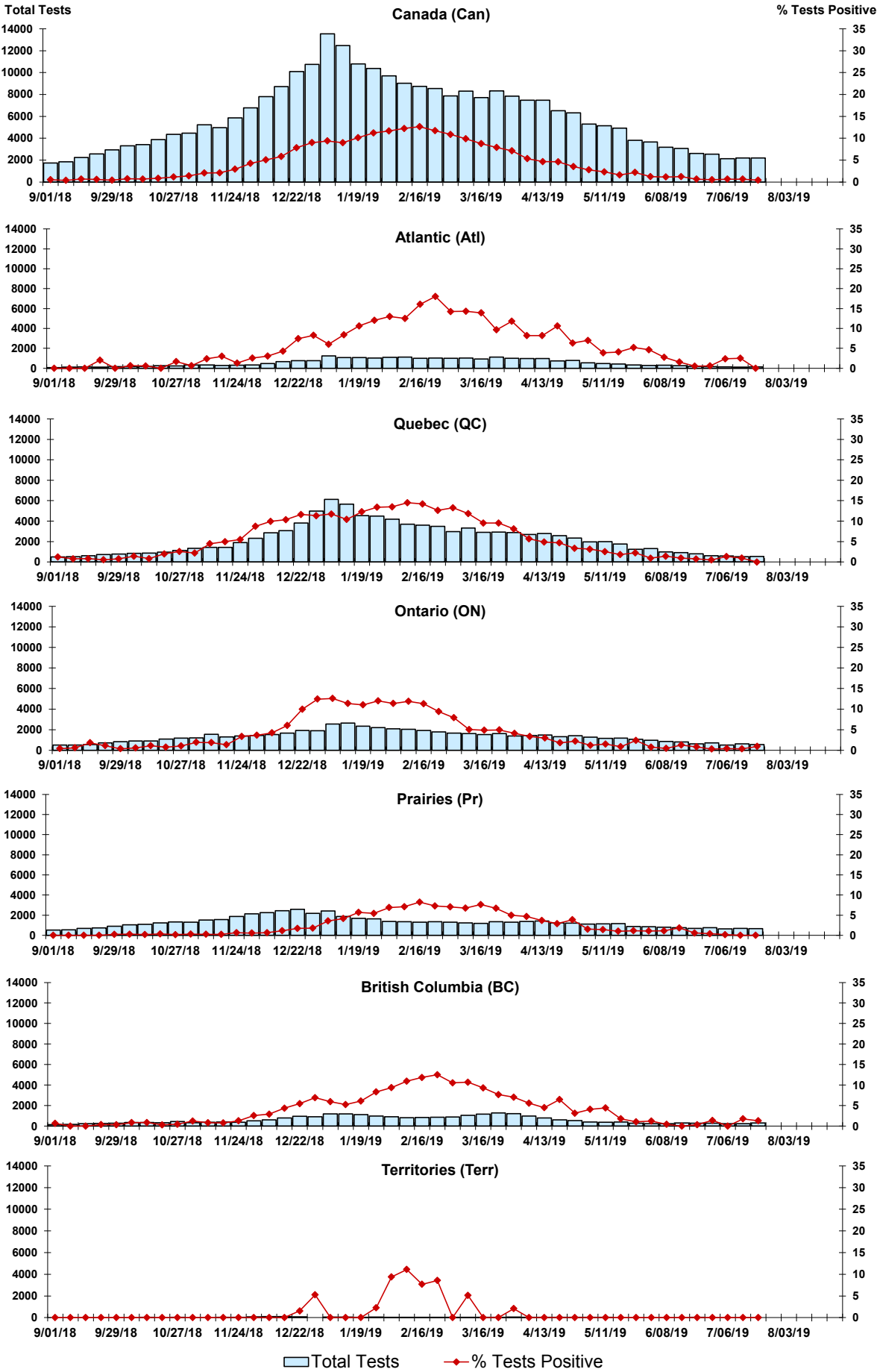


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

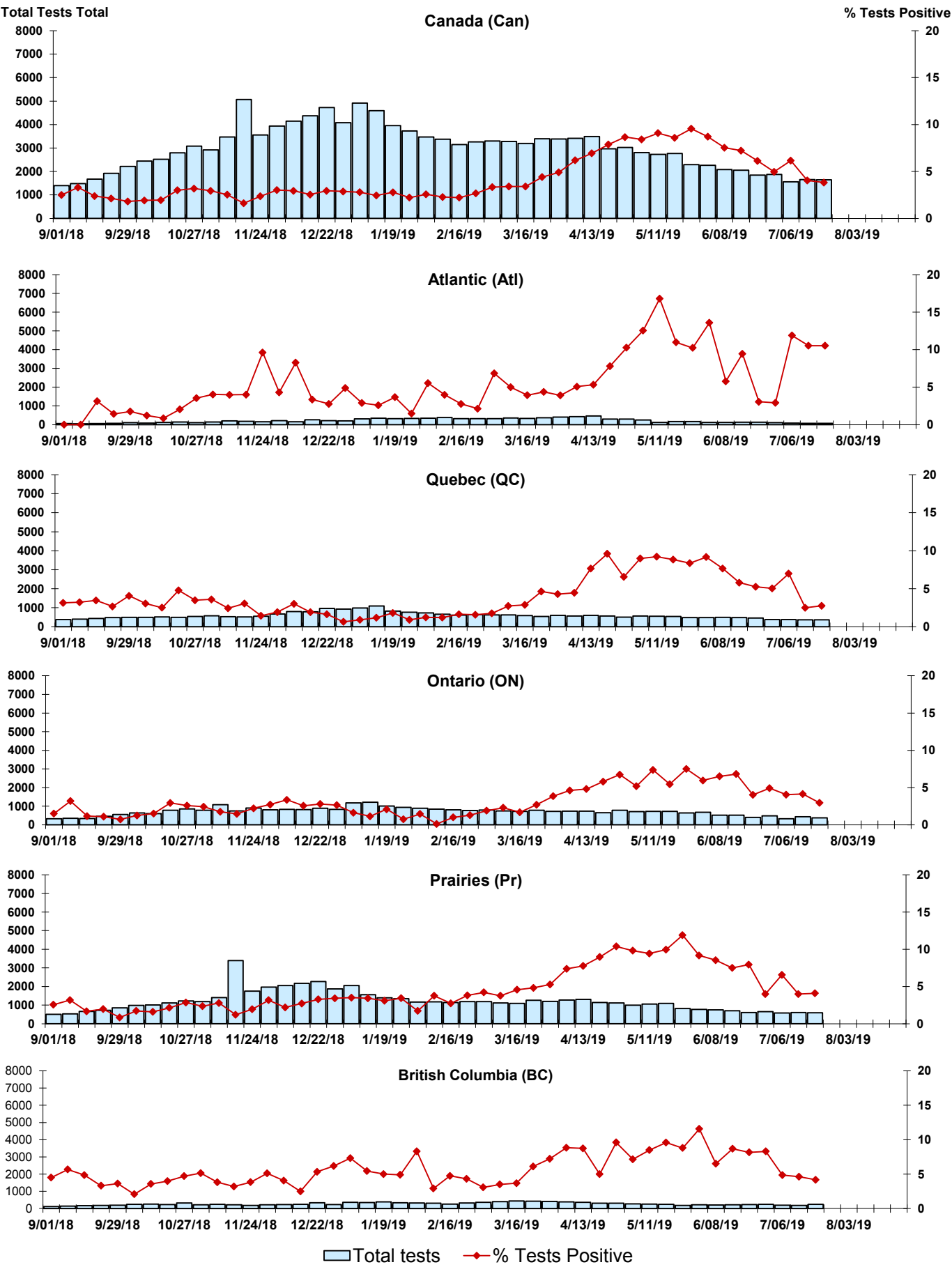


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

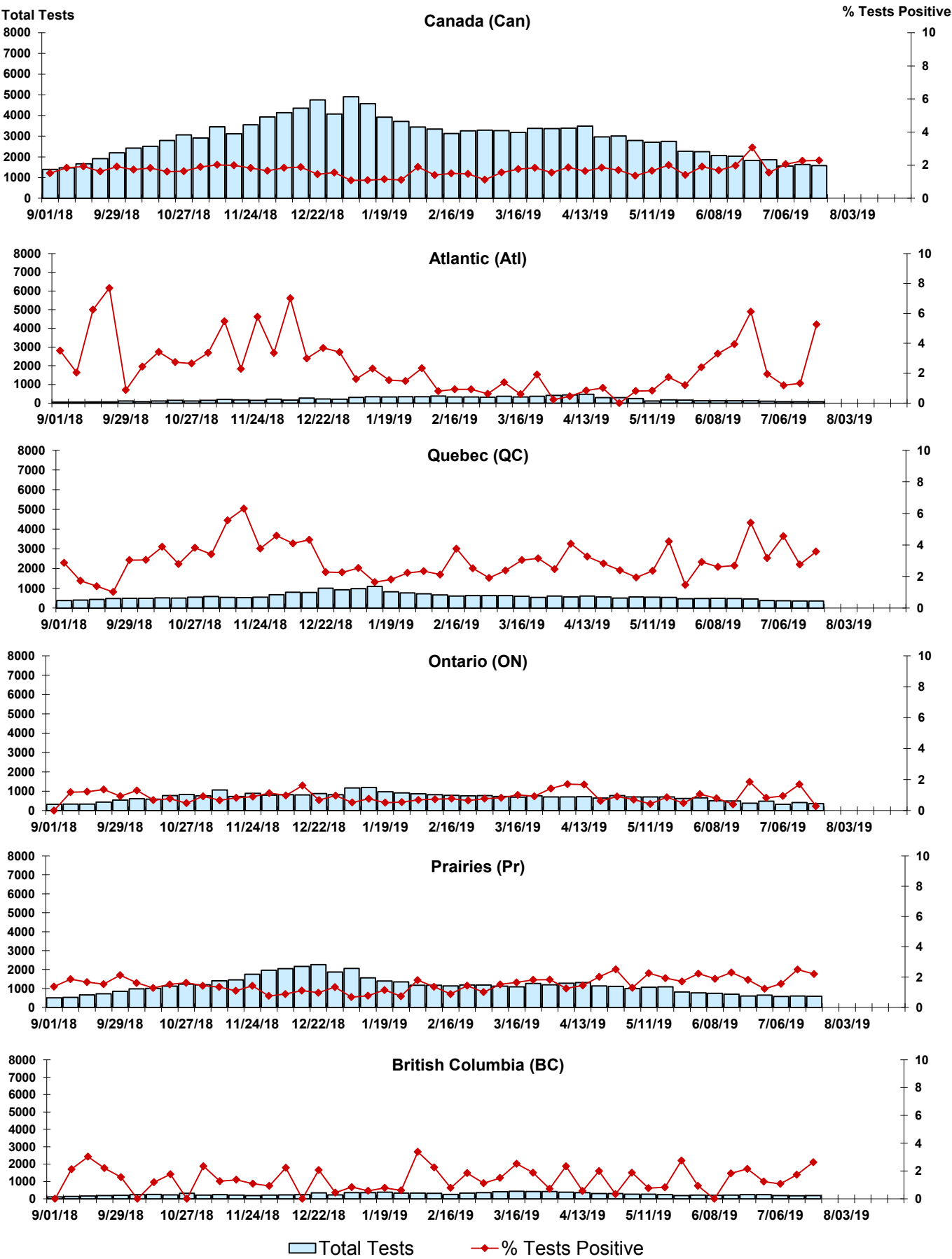
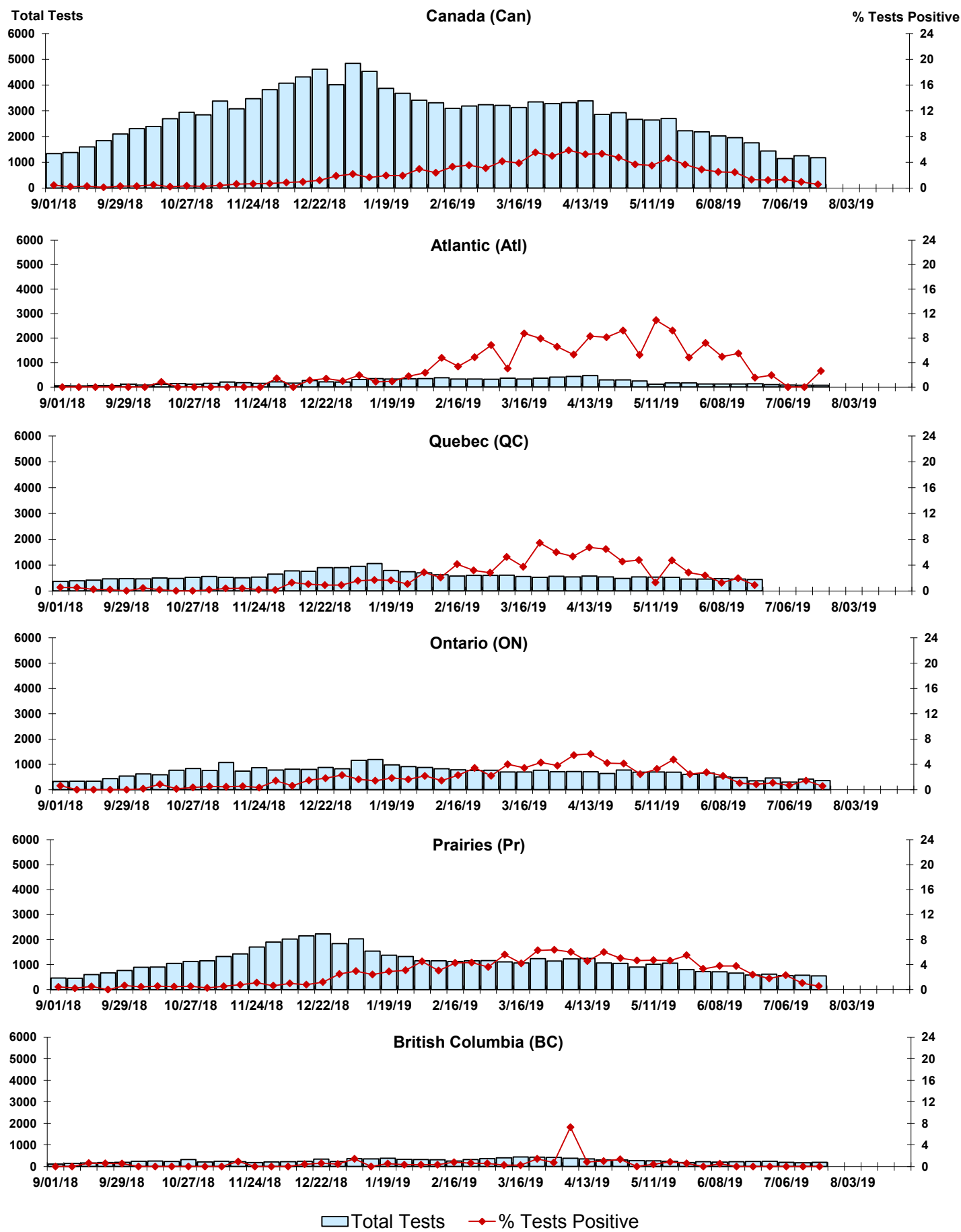


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



■ Total Tests —◆ % Tests Positive

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

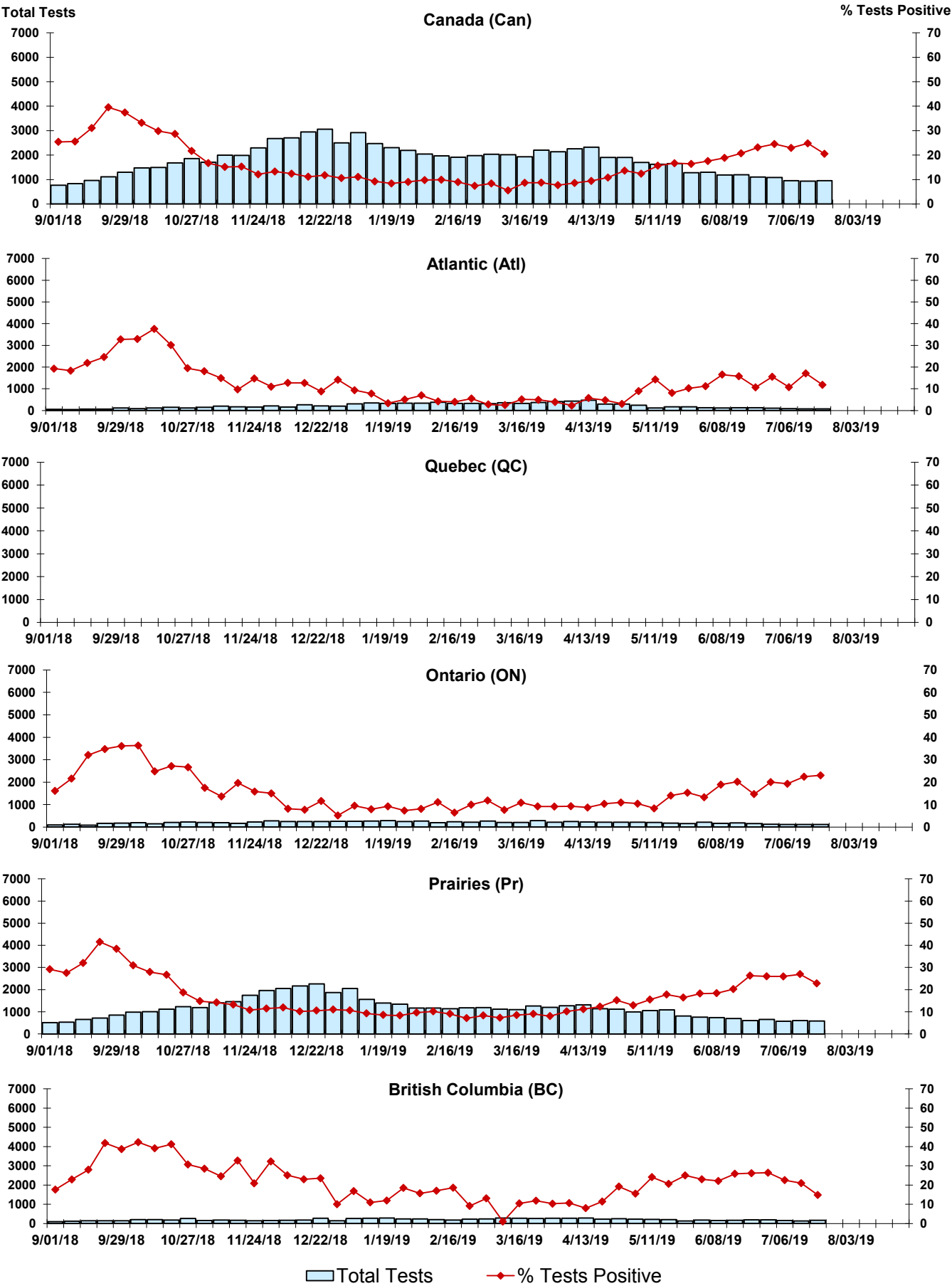
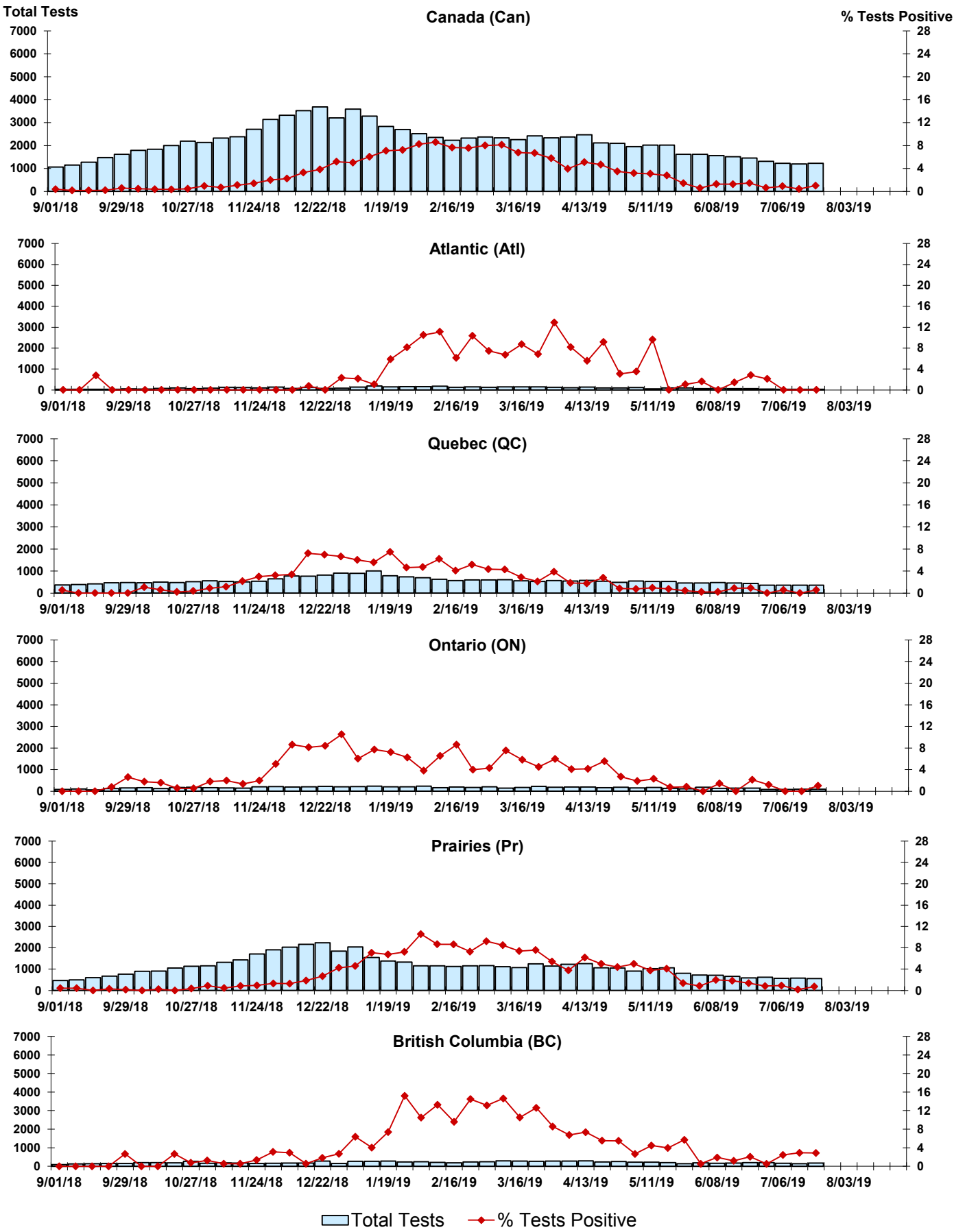


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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