

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 30 - ending July 28, 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 July 28, 2018 (Reporting Week 201830)

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	21	0	0	0	0	0	21	0	21	0	0	2	0	0	21	1	21	0	21	4	N.A.	N.A.
Prince Edward Island	2	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	1	0	1	1	1	0
Nova Scotia	3	0	0	0	0	0	3	0	3	0	0	2	0	0	3	0	3	0	3	0	3	0
New Brunswick	71	0	0	0	0	0	70	0	32	0	0	2	0	0	32	1	32	0	32	2	32	0
Atlantic	97	0	0	0	0	0	96	0	57	0	0	6	0	0	57	2	57	0	57	7	36	0
Région Nord-Est	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	23	0	0	0	0	0	47	0	45	1	0	3	0	0	46	0	45	0	N.A.	N.A.	45	0
Centre-du-Québec	7	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	310	0	0	3	3	1	331	1	296	3	2	9	0	0	296	9	290	0	N.A.	N.A.	290	1
Ouest du Québec	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	8	0	0	0	0	0	8	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	365	0	0	3	3	1	411	3	341	4	2	12	0	0	342	9	335	0	N.A.	N.A.	335	1
Ottawa P.H.L.	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
CHEO - Ottawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingston P.H.L.	8	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	0	0	0	0
UHN / Mount Sinai Hospital	133	0	0	2	2	0	133	0	18	0	0	2	1	0	0	0	18	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	91	0	1	0	1	0	87	0	87	0	0	0	0	0	87	0	74	0	13	0	0	0
Sick Kids Hospital - Toronto	31	0	0	0	0	0	31	0	31	0	0	0	0	0	31	1	31	0	31	4	31	0
Sunnybrook & Women's College HSC	36	0	0	0	0	0	36	1	36	0	0	1	0	0	36	1	36	0	36	14	36	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.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Joseph's - London	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
London P.H.L.	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	1	0	1	0	0	0
Orillia P.H.L.	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	1	0	1	0	0	0
Thunder Bay P.H.L.	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0
Sudbury P.H.L.	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	0	0	2	0	0	0
Hamilton P.H.L.	9	0	0	2	2	0	5	0	5	0	0	1	0	0	5	0	5	0	0	0	0	0
Peterborough P.H.L.	7	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
Province of Ontario	323	0	1	4	5	0	308	1	193	0	0	4	1	0	175	2	176	1	84	18	67	0
Manitoba	97	0	0	0	0	0	98	1	79	0	1	2	0	0	79	0	36	0	79	11	36	0
Regina	83	0	1	0	1	0	83	0	83	0	1	6	1	0	83	2	83	0	83	29	83	0
Saskatoon	49	0	0	0	0	0	49	0	49	0	0	0	0	0	49	1	49	0	49	10	49	0
Province of Saskatchewan	132	0	1	0	1	0	132	0	132	0	1	6	1	0	132	3	132	0	132	39	132	0
Province of Alberta	249	0	0	0	0	0	229	0	229	1	0	8	2	0	229	4	229	1	229	51	229	0
Prairies	478	0	1	0	1	0	459	1	440	1	2	16	3	0	440	7	397	1	440	101	397	0
British Columbia	82	0	0	0	0	0	82	0	99	0	1	14	1	0	99	1	99	0	86	12	86	2
Yukon	1	0	0	0	0	0	1	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	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	3	2	3	0
Nunavut	2	0	0	0	0	0	2	0	2	0	0	1	0	0	2	0	2	0	2	2	2	0
Territories	6	0	0	0	0	0	6	0	5	0	0	1	0	0	5	0	5	0	5	4	5	0
CANADA	1351	0	2	7	9	1	1362	5	1135	5	5	53	5	0	1118	21	1069	2	672	142	926	3

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 27, 2017 - July 28, 2018 (Reporting Weeks 201735-201830)

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	4585	0	3	476	479	436	4585	243	4585	98	22	60	0	0	4585	49	4586	240	4585	266	N.A.	N.A.
Prince Edward Island	1315	8	134	4	146	171	1347	176	90	1	0	1	2	0	90	4	90	5	90	19	90	7
Nova Scotia	4236	0	0	565	565	302	4288	540	611	5	1	14	1	0	611	9	611	35	611	96	611	17
New Brunswick	12196	36	249	1428	1713	1282	11763	780	3084	26	40	53	15	0	3084	87	3084	142	3084	393	3084	155
Atlantic	22332	44	386	2473	2903	2191	21983	1739	8370	130	63	128	18	0	8370	149	8371	422	8370	774	3085	179
Région Nord-Est	13892	0	0	1846	1846	1404	11969	872	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16623	0	0	2622	2622	2076	16564	1354	3691	45	2	48	19	0	3782	130	3200	37	N.A.	N.A.	3120	26
Centre-du-Québec	19783	0	0	2814	2814	2657	15748	1416	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	50255	0	0	5085	5085	3815	45045	2665	24216	220	45	408	57	0	24388	838	23410	651	N.A.	N.A.	21511	608
Ouest du Québec	13242	0	0	1886	1886	1535	8732	753	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	9416	0	0	1262	1262	865	9274	641	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	123211	0	0	15515	15515	12352	107332	7701	27907	265	47	456	76	0	28170	968	26610	688	N.A.	N.A.	24631	634
Ottawa P.H.L.	1001	4	122	57	183	143	572	12	572	6	1	5	0	0	572	4	543	15	48	6	10	1
CHEO - Ottawa	8968	0	0	795	795	567	8968	711	968	13	1	40	9	0	995	31	1056	24	999	220	998	48
Kingston P.H.L.	1141	5	103	38	146	93	855	27	855	9	0	10	1	0	855	5	791	17	158	7	22	0
UHN / Mount Sinai Hospital	13084	0	2	634	636	567	13084	413	817	7	2	26	9	0	0	0	776	17	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	17473	174	1577	139	1890	1170	13874	271	13876	114	15	156	1	0	13875	128	13408	220	928	48	234	5
Sick Kids Hospital - Toronto	3428	20	59	122	201	177	2780	202	2780	30	9	66	35	0	2780	62	2780	159	2780	685	2780	141
Sunnybrook & Women's College HSC	3337	14	209	3	226	177	3337	76	3337	22	9	35	10	0	3337	2	3337	100	3337	301	3337	102
Sault Ste. Marie P.H.L.	645	1	98	8	107	52	480	11	480	9	0	2	1	0	480	0	466	3	27	3	12	0
Timmins P.H.L.	498	7	84	8	99	36	363	23	363	1	0	3	0	0	363	3	354	2	24	1	2	0
St. Joseph's - London	4551	0	0	416	416	417	4551	373	1414	24	4	12	11	0	1286	33	1231	56	716	150	666	21
London P.H.L.	5000	28	456	112	596	645	3449	193	3449	40	3	42	3	0	3449	18	3336	74	298	21	63	0
Orillia P.H.L.	1605	8	153	65	226	134	1166	53	1166	19	0	6	0	0	1166	10	1143	31	54	4	11	0
Thunder Bay P.H.L.	1181	2	196	22	220	94	851	27	851	12	2	7	0	0	851	6	836	17	19	0	3	0
Sudbury P.H.L.	1253	3	118	7	128	95	1019	11	1019	11	2	3	0	0	1018	7	971	3	67	1	13	0
Hamilton P.H.L.	3700	29	206	99	334	343	2821	132	2820	33	5	34	3	0	2820	33	2735	52	209	21	64	2
Peterborough P.H.L.	1921	6	99	52	157	126	1565	44	1565	21	0	5	0	0	1565	7	1555	34	58	12	44	2
Province of Ontario	68786	301	3482	2577	6360	4836	59735	2579	36332	371	53	452	83	0	35412	349	35318	824	9767	1491	8296	324
Manitoba	12408	22	378	737	1137	640	12157	581	5302	67	18	62	17	0	5302	73	2756	152	5302	581	2756	97
Regina	14568	70	1164	61	1295	1335	14568	867	14568	376	170	176	68	0	14568	249	14568	744	14568	2721	14568	832
Saskatoon	6084	19	0	393	412	348	6084	255	5983	34	7	38	4	0	6084	52	6084	78	5934	535	6084	99
Province of Saskatchewan	20652	89	1164	454	1707	1683	20652	1122	20551	410	177	214	72	0	20652	301	20652	822	20502	3256	20652	931
Province of Alberta	41381	283	4007	1427	5717	3397	33857	0	33857	553	225	530	326	0	33857	577	33857	2012	33857	5153	33857	1450
Prairies	74441	394	5549	2618	8561	5720	66666	1703	59710	1030	420	806	415	0	59811	951	57265	2986	59661	8990	57265	2478
British Columbia	22511	519	1520	447	2486	3021	22330	889	9660	166	57	140	87	0	9660	115	9660	495	7062	1568	7062	405
Yukon	457	7	48	21	76	43	457	46	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	773	4	126	0	130	56	767	0	767	11	2	4	24	0	767	28	767	52	767	101	767	52
Nunavut	432	6	40	0	46	6	419	8	420	7	4	17	7	0	419	29	417	26	245	73	236	14
Territories	1662	17	214	21	252	105	1643	54	1187	18	6	21	31	0	1186	57	1184	78	1012	174	1003	66
CANADA	312943	1275	11151	23651	36077	28225	279689	14665	143166	1980	646	2003	710	0	142609	2589	138408	5493	85872	12997	102042	4086

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, 2017-18

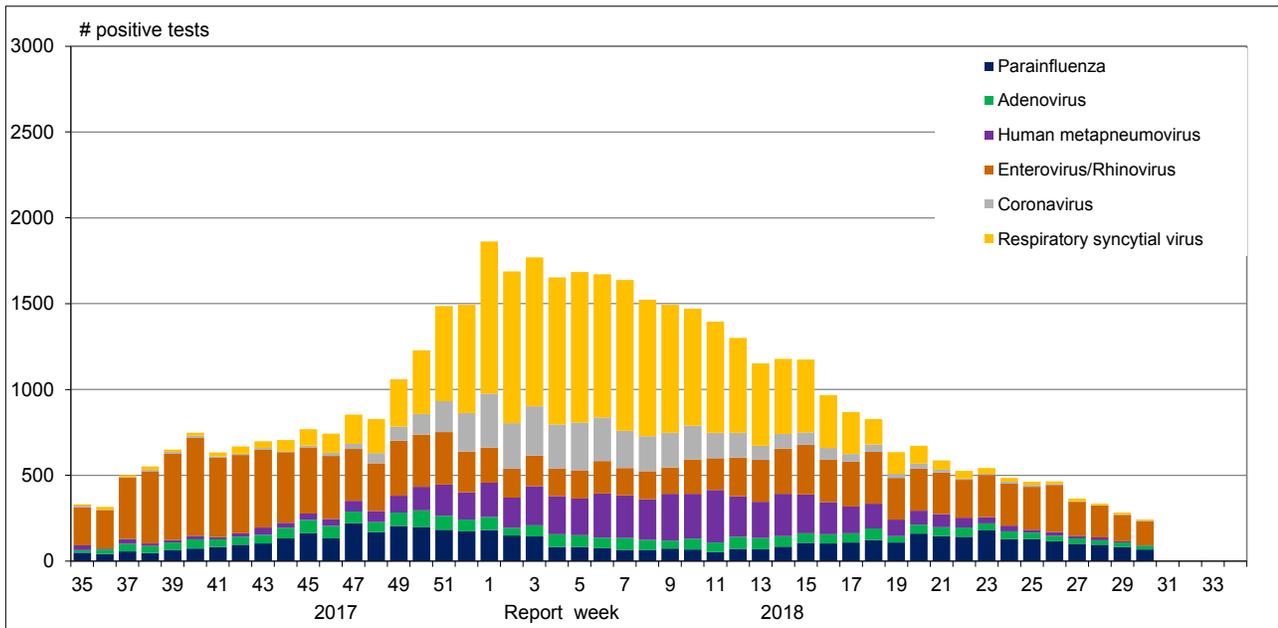


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

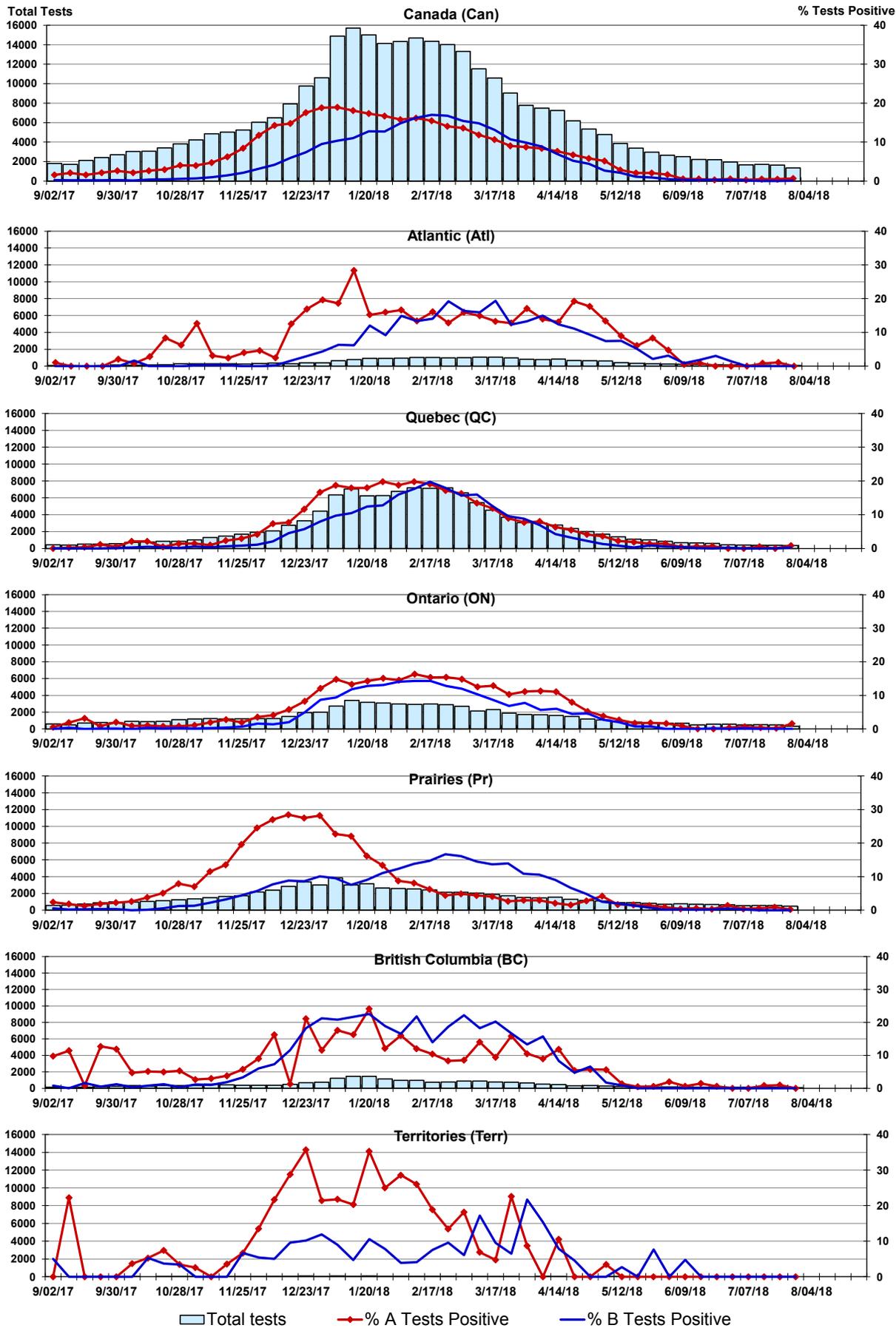


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

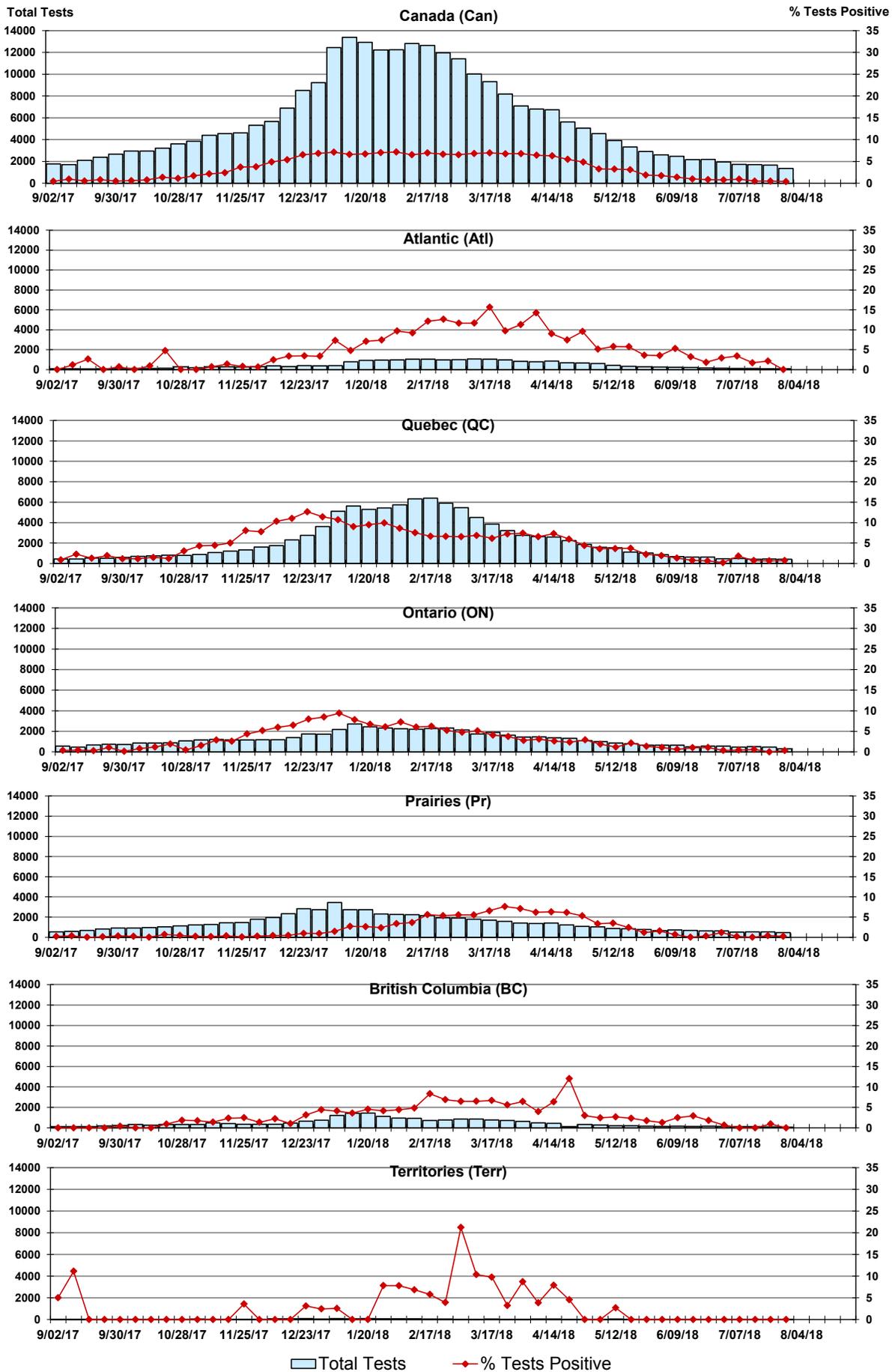


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

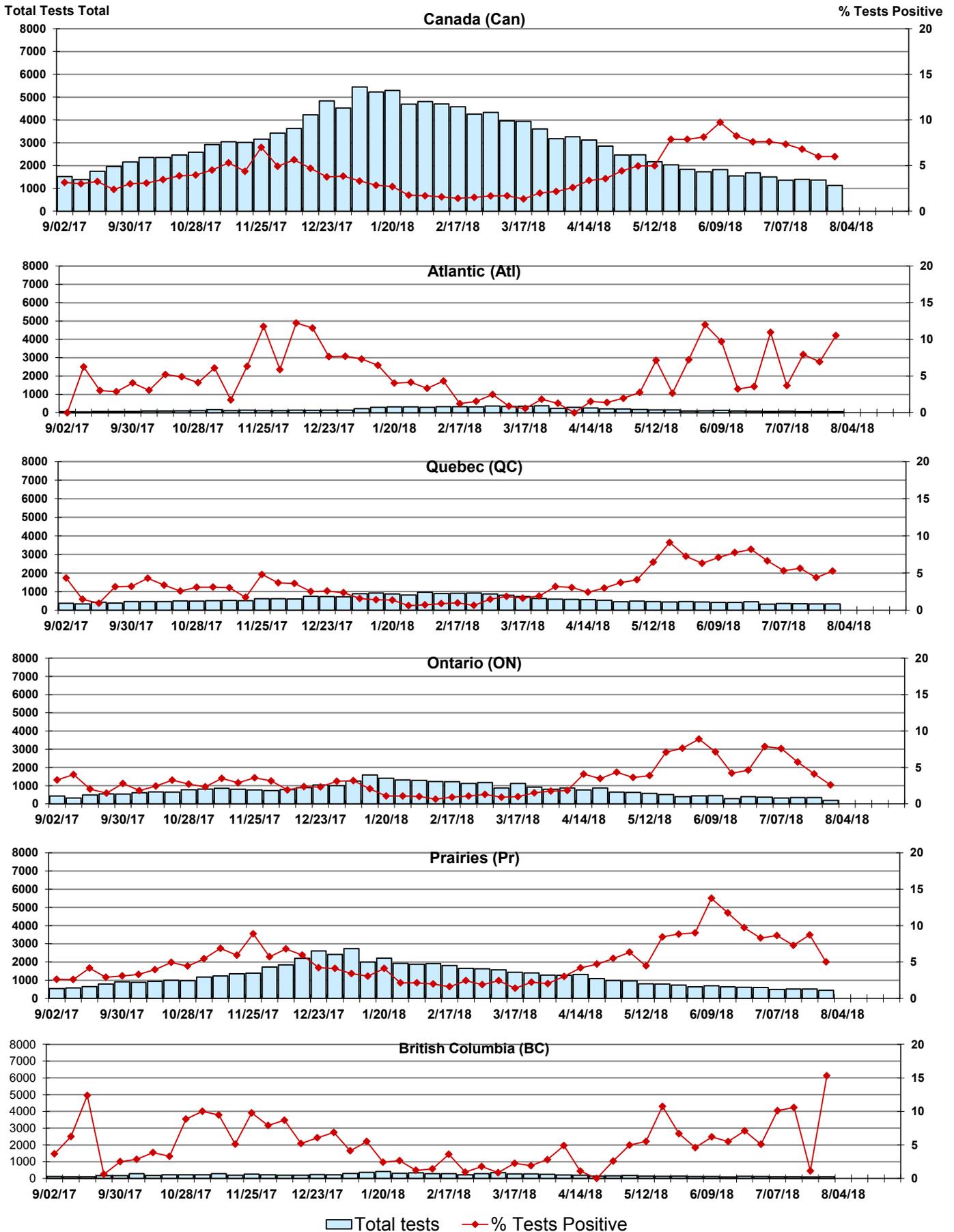


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

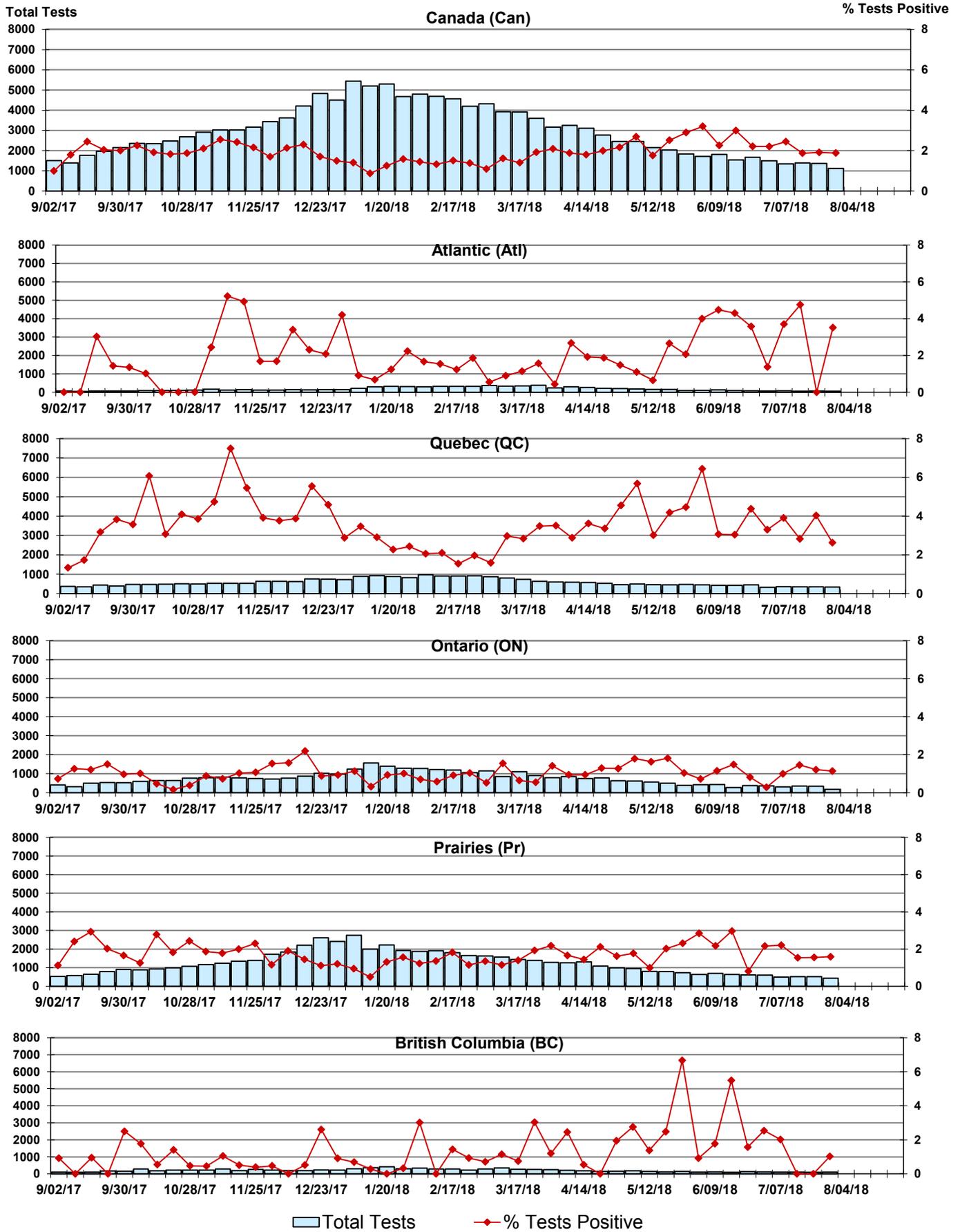


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

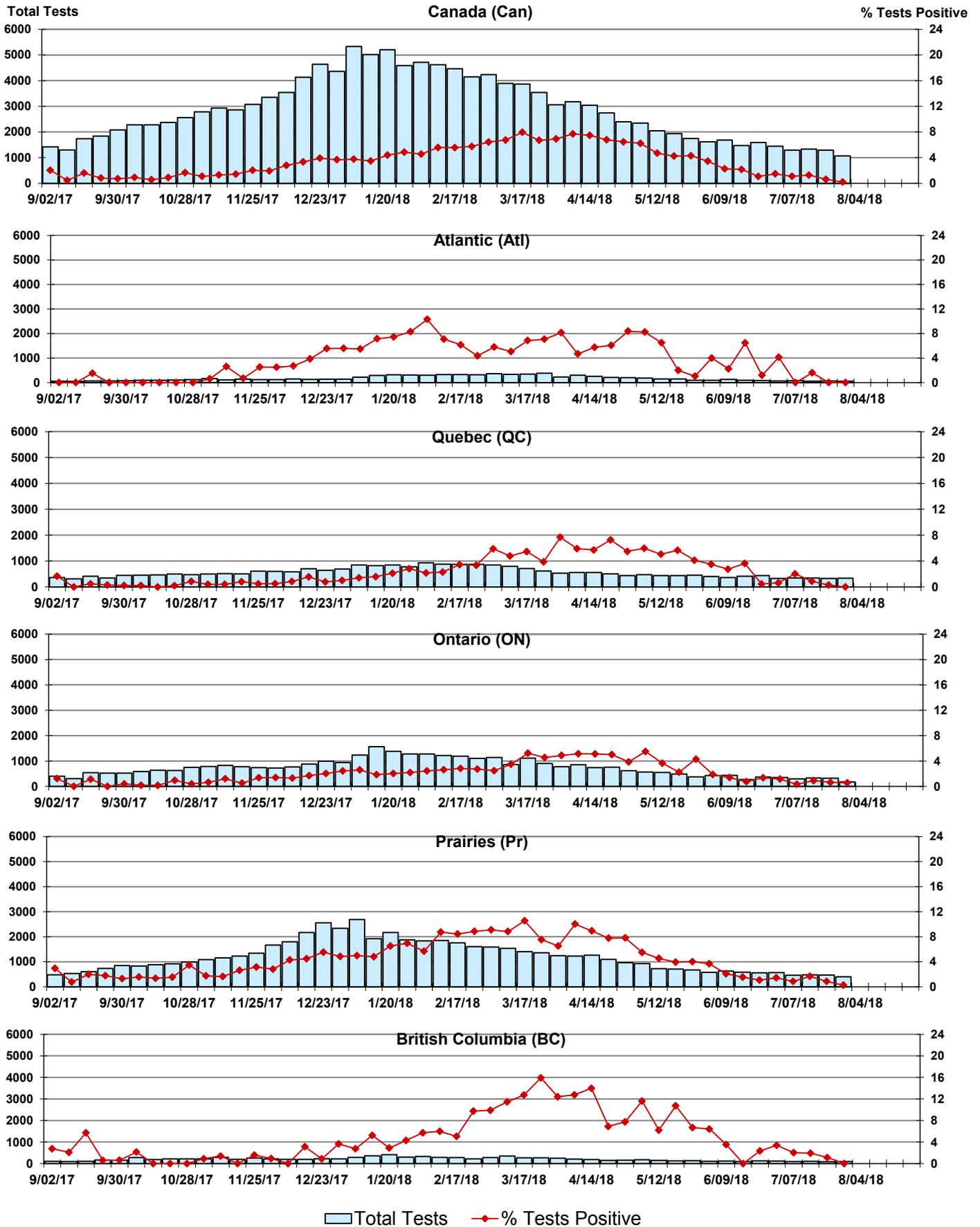


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

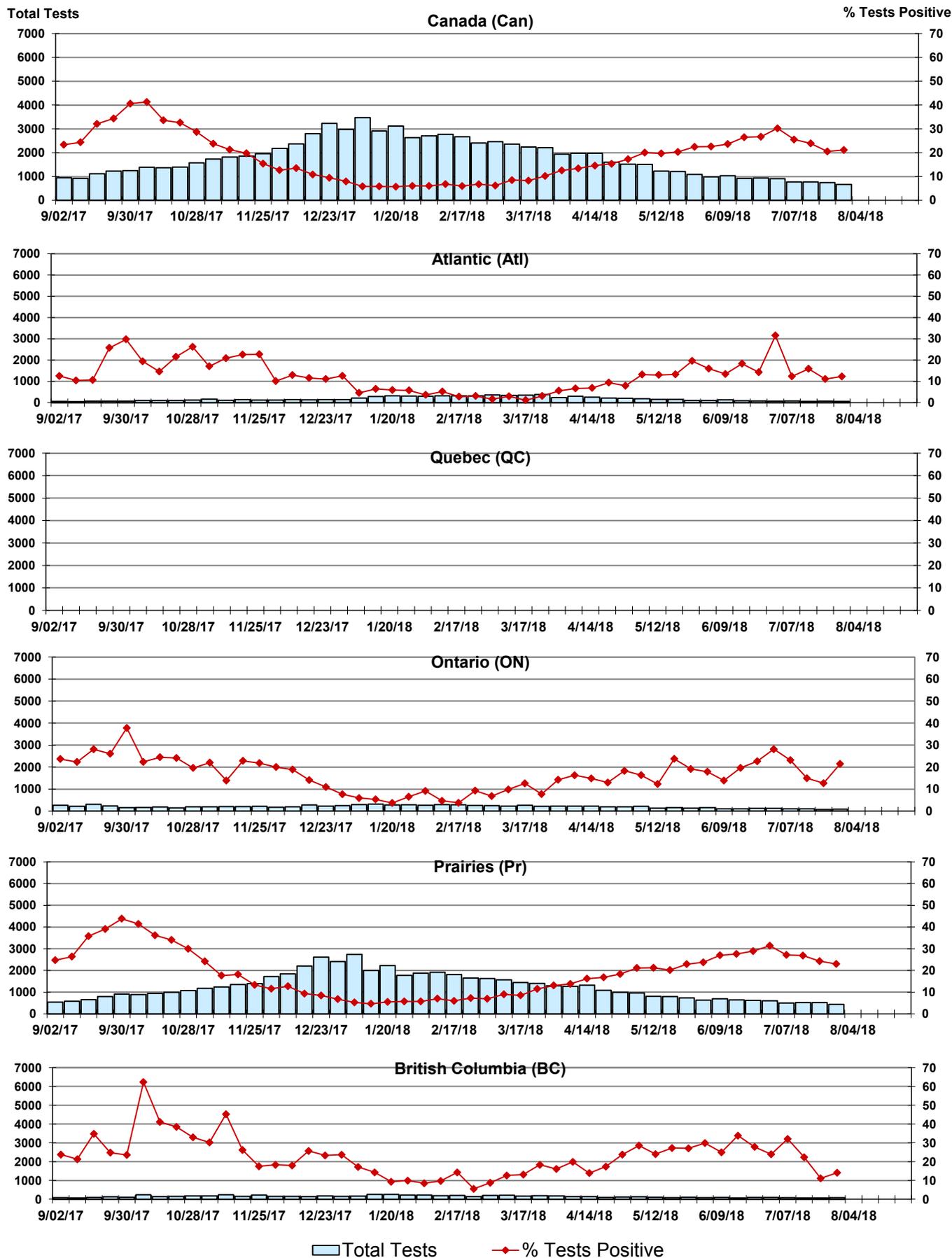
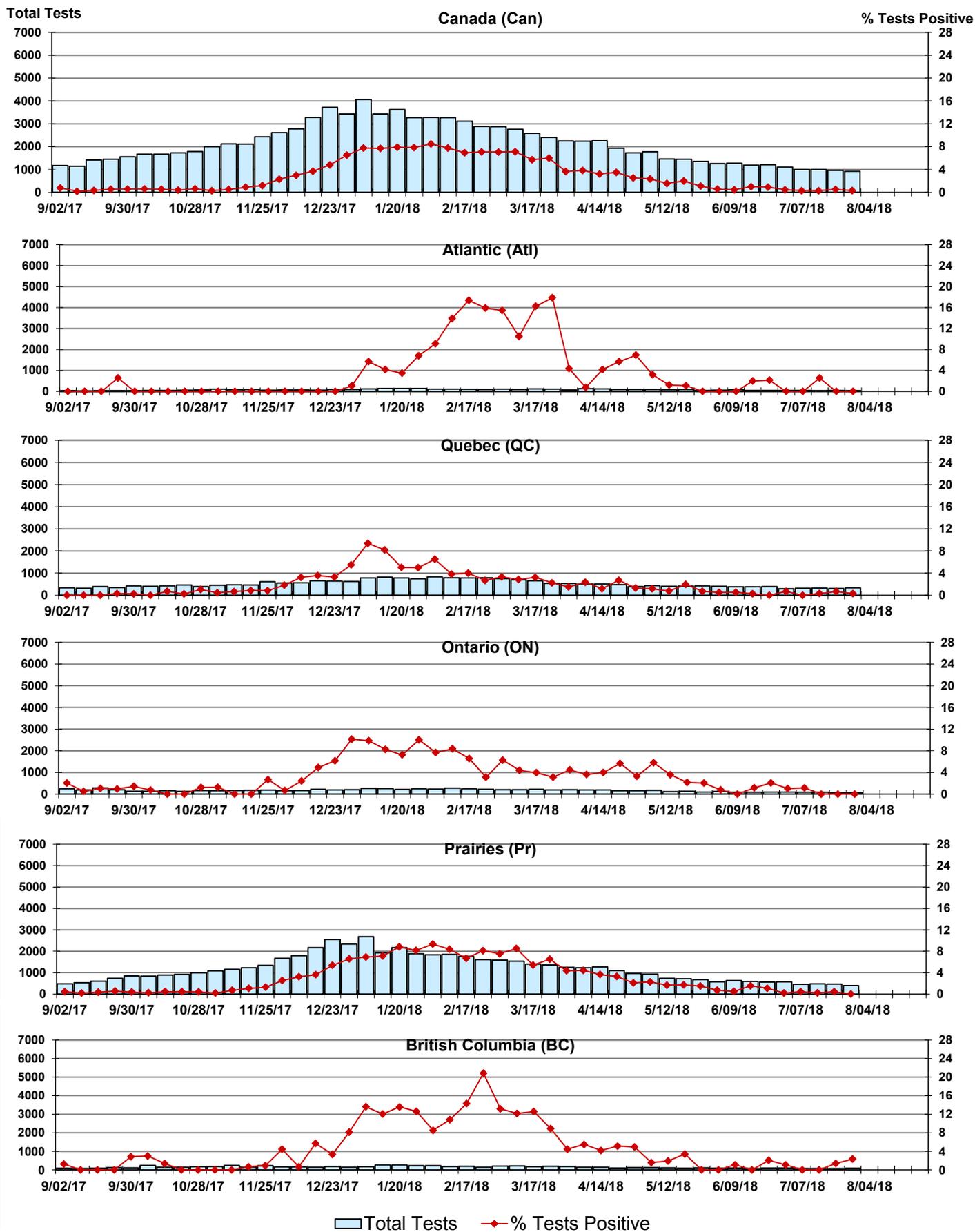


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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