

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 16 - ending April 21, 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 April 21, 2018 (Reporting Week 201816)

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	126	0	0	27	27	11	126	15	126	0	0	0	0	0	126	0	126	7	126	5	N.A.	N.A.
Prince Edward Island	34	0	2	0	2	4	36	2	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	125	0	0	13	13	4	126	11	10	0	0	0	0	0	10	0	10	2	10	2	10	0
New Brunswick	398	0	9	80	89	57	398	23	77	0	1	2	0	0	77	4	77	4	77	13	77	5
Atlantic	683	0	11	120	131	76	686	51	214	0	1	2	0	0	214	4	214	13	214	20	88	5
Région Nord-Est	285	0	0	7	7	13	271	27	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	284	0	0	8	8	7	329	21	83	0	0	1	0	0	84	0	70	2	N.A.	N.A.	70	0
Centre-du-Québec	391	0	0	33	33	13	313	23	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1011	0	0	47	47	26	969	49	452	2	2	10	1	0	452	18	439	35	N.A.	N.A.	409	13
Ouest du Québec	199	0	0	19	19	7	156	11	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	200	0	0	14	14	11	200	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2370	0	0	128	128	77	2238	134	535	2	2	11	1	0	536	18	509	37	N.A.	N.A.	479	13
Ottawa P.H.L.	31	0	4	2	6	2	11	0	11	0	0	0	0	0	11	0	10	1	1	0	0	0
CHEO - Ottawa	206	0	0	10	10	13	206	9	23	0	0	1	0	0	23	2	23	2	23	4	23	1
Kingston P.H.L.	13	0	1	0	1	1	9	0	9	0	0	0	0	0	9	0	8	0	1	0	0	0
UHN / Mount Sinai Hospital	281	0	0	12	12	7	281	9	9	0	0	0	0	0	0	0	9	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	399	8	35	3	46	17	302	0	302	1	1	3	0	0	302	0	296	12	6	0	0	0
Sick Kids Hospital - Toronto	55	0	0	0	0	0	55	0	55	0	1	3	1	0	55	2	55	5	55	12	55	4
Sunnybrook & Women's College HSC	64	0	0	0	0	2	64	0	64	0	0	2	0	0	64	0	64	9	64	5	64	4
Sault Ste. Marie P.H.L.	11	0	1	0	1	0	10	0	10	0	0	0	0	0	10	0	9	0	1	0	0	0
Timmins P.H.L.	11	0	2	1	3	0	8	2	8	0	0	0	0	0	8	0	8	0	0	0	0	0
St. Joseph's - London	120	0	0	10	10	4	120	6	120	0	1	3	0	0	39	2	39	1	17	4	17	0
London P.H.L.	107	3	2	3	8	3	81	1	81	0	0	2	0	0	81	1	77	2	4	0	0	0
Orillia P.H.L.	44	0	4	10	14	4	15	0	15	1	0	0	0	0	15	0	13	3	2	0	0	0
Thunder Bay P.H.L.	9	0	0	0	0	5	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
Sudbury P.H.L.	25	0	0	0	0	4	21	0	21	1	0	0	0	0	21	0	21	0	0	0	0	0
Hamilton P.H.L.	74	0	5	1	6	4	60	0	60	0	0	6	0	0	60	1	57	1	3	0	0	0
Peterborough P.H.L.	26	0	1	0	1	0	17	1	17	0	0	0	0	0	17	1	17	0	0	0	0	0
Province of Ontario	1476	11	55	52	118	66	1264	28	809	3	3	20	1	0	719	9	710	36	177	25	159	9
Manitoba	211	2	0	0	2	16	211	8	76	1	1	3	0	0	76	0	87	8	76	8	87	4
Regina	338	3	1	1	5	21	338	60	338	1	6	6	0	0	338	6	338	23	338	66	338	12
Saskatoon	101	0	0	1	1	6	101	7	101	0	0	0	0	0	101	1	101	0	101	1	101	0
Province of Saskatchewan	439	3	1	2	6	27	439	67	439	1	6	6	0	0	439	7	439	23	439	67	439	12
Province of Alberta	609	7	3	2	12	40	529	0	529	0	5	18	2	0	529	14	529	50	529	95	529	18
Prairies	1259	12	4	4	20	83	1179	75	1044	2	12	27	2	0	1044	21	1055	81	1044	170	1055	34
British Columbia	316	6	9	1	16	15	133	16	146	0	0	0	0	0	146	0	146	11	99	18	99	5
Yukon	7	0	0	0	0	0	7	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	10	0	0	0	0	1	10	0	10	0	1	0	0	0	10	0	10	0	10	0	10	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	1	1	1	0
Territories	18	0	0	0	0	1	18	1	11	0	1	0	1	0	11	0	11	0	11	1	11	0
CANADA	6122	29	79	305	413	318	5518	305	2759	7	19	60	5	0	2670	52	2645	178	1545	234	1891	66

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 - April 21, 2018 (Reporting Weeks 201735-201816)

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	3899	0	3	446	449	403	3899	197	3899	97	18	34	0	0	3899	46	3900	210	3899	196	N.A.	N.A.
Prince Edward Island	1163	7	121	1	129	165	1188	170	66	1	0	0	2	0	66	4	66	3	66	10	66	6
Nova Scotia	3708	0	0	518	518	286	3749	516	473	5	1	2	1	0	473	7	473	23	473	71	473	16
New Brunswick	9850	22	216	1273	1511	1155	9418	665	2388	26	36	14	13	0	2388	54	2388	122	2388	277	2388	143
Atlantic	18620	29	340	2233	2607	2009	18254	1548	6826	129	55	50	16	0	6826	111	6827	358	6826	554	2927	165
Région Nord-Est	12755	0	0	1824	1824	1385	10940	811	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	15283	0	0	2594	2594	2060	14889	1310	2786	40	1	1	19	0	2831	98	2361	18	N.A.	N.A.	2288	21
Centre-du-Québec	18652	0	0	2782	2782	2647	14769	1386	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	43520	0	0	4986	4986	3782	38267	2547	19323	203	29	138	49	0	19495	634	18712	498	N.A.	N.A.	17159	578
Ouest du Québec	12499	0	0	1862	1862	1523	7963	720	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	8470	0	0	1228	1228	853	8328	613	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	111179	0	0	15276	15276	12250	95156	7387	22109	243	30	139	68	0	22326	732	21073	516	N.A.	N.A.	19447	599
Ottawa P.H.L.	892	4	121	55	180	138	465	11	465	4	0	1	0	0	465	4	450	12	33	6	10	1
CHEO - Ottawa	7798	0	0	778	778	553	7797	676	754	13	1	8	8	0	781	24	838	22	780	166	780	40
Kingston P.H.L.	966	4	103	38	145	90	685	26	685	9	0	1	1	0	685	5	638	14	118	7	22	0
UHN / Mount Sinai Hospital	10667	0	2	605	607	551	10667	377	616	7	2	0	8	0	0	0	594	13	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	14807	159	1539	124	1822	1137	11320	261	11321	109	10	46	1	0	11320	98	11001	173	710	48	234	5
Sick Kids Hospital - Toronto	2855	16	58	121	195	171	2207	196	2207	29	4	28	29	0	2207	50	2207	136	2207	514	2207	127
Sunnybrook & Women's College HSC	2745	13	205	3	221	174	2745	72	2745	22	9	11	10	0	2745	1	2745	72	2745	197	2745	96
Sault Ste. Marie P.H.L.	592	1	96	8	105	49	432	8	432	9	0	0	1	0	432	0	421	3	24	3	12	0
Timmins P.H.L.	438	7	81	6	94	34	310	21	310	1	0	0	0	0	310	1	302	1	18	1	2	0
St. Joseph's - London	4422	0	0	409	409	414	4422	368	1359	24	4	11	11	0	1231	32	1204	56	677	144	627	21
London P.H.L.	4511	27	445	112	584	636	3002	185	3002	37	3	20	3	0	3002	13	2921	63	253	21	63	0
Orillia P.H.L.	1445	8	148	64	220	125	1024	52	1024	19	0	2	0	0	1024	6	1008	27	43	4	11	0
Thunder Bay P.H.L.	1114	1	196	19	216	93	794	25	794	12	2	3	0	0	794	5	782	16	15	0	3	0
Sudbury P.H.L.	1112	3	114	6	123	92	886	10	886	9	2	0	0	0	885	6	854	2	51	1	13	0
Hamilton P.H.L.	3291	27	205	93	325	340	2428	129	2427	33	5	15	3	0	2427	26	2356	47	184	21	64	2
Peterborough P.H.L.	1718	6	97	51	154	125	1371	42	1371	21	0	2	0	0	1371	6	1363	31	56	12	44	2
Province of Ontario	59373	276	3410	2492	6178	4722	50555	2459	30398	358	42	148	75	0	29679	277	29684	688	7914	1145	6837	294
Manitoba	10582	18	377	736	1131	613	10346	541	3946	59	14	6	12	0	3946	55	2127	124	3946	362	2127	90
Regina	12605	63	1156	61	1280	1313	12605	755	12605	369	126	39	43	0	12605	205	12605	703	12605	2075	12605	818
Saskatoon	5128	0	0	380	380	343	5128	229	5027	32	4	10	3	0	5128	42	5128	73	4978	402	5128	93
Province of Saskatchewan	17733	63	1156	441	1660	1656	17733	984	17632	401	130	49	46	0	17733	247	17733	776	17583	2477	17733	911
Province of Alberta	35601	226	3988	1403	5617	3319	28645	0	28645	530	175	195	278	0	28645	469	28645	1794	28645	3877	28645	1372
Prairies	63916	307	5521	2580	8408	5588	56724	1525	50223	990	319	250	336	0	50324	771	48505	2694	50174	6716	48505	2373
British Columbia	20088	503	1497	437	2437	2992	19906	843	7973	164	51	47	75	0	7973	77	7973	408	5766	1241	5766	385
Yukon	421	7	47	21	75	43	421	45	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	651	4	126	0	130	56	645	0	645	11	2	1	19	0	645	16	645	41	645	73	645	51
Nunavut	350	6	40	0	46	3	337	8	338	7	4	13	4	0	337	23	335	21	163	42	154	9
Territories	1422	17	213	21	251	102	1403	53	983	18	6	14	23	0	982	39	980	62	808	115	799	60
CANADA	274598	1132	10981	23044	35157	27663	241998	13815	118512	1902	503	648	593	0	118110	2007	115042	4726	71488	9771	84281	3876

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

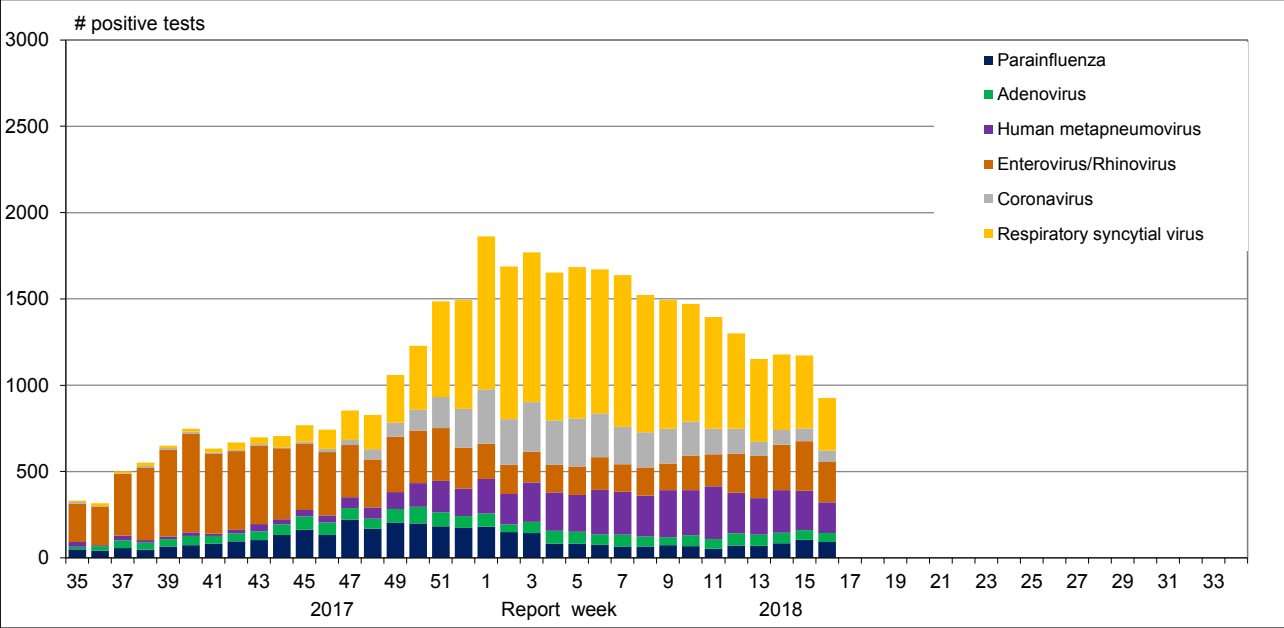


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

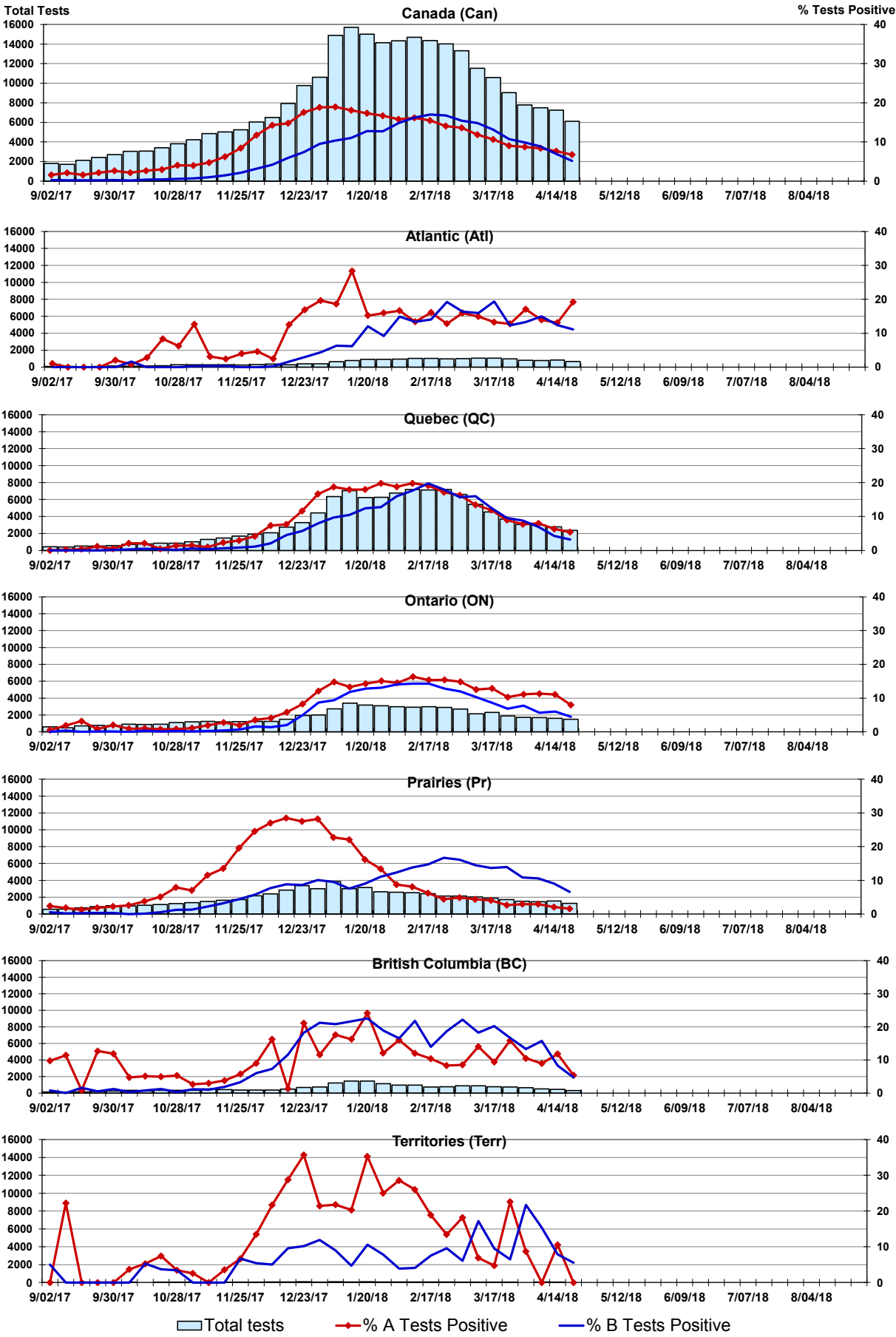


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

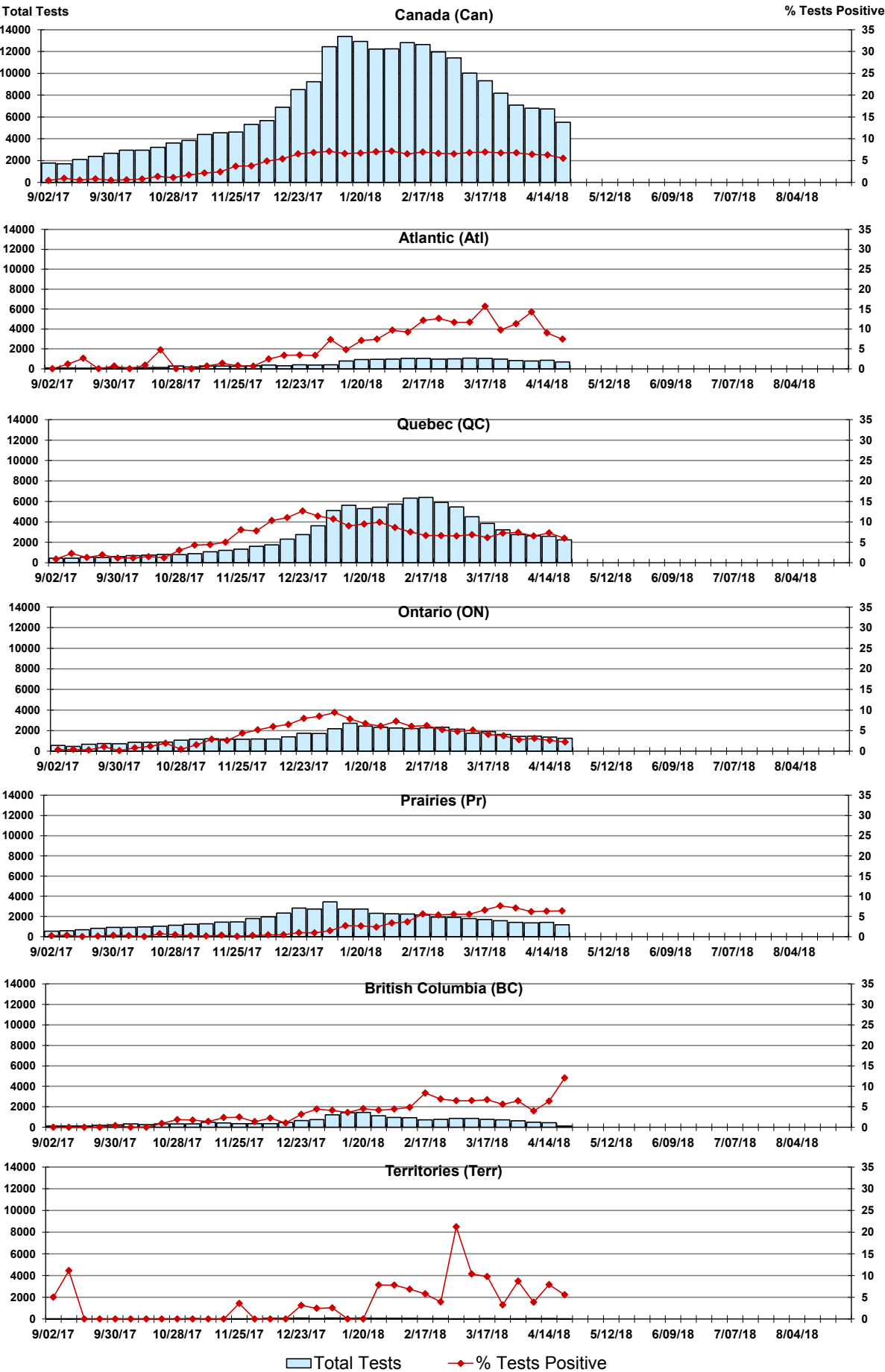


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

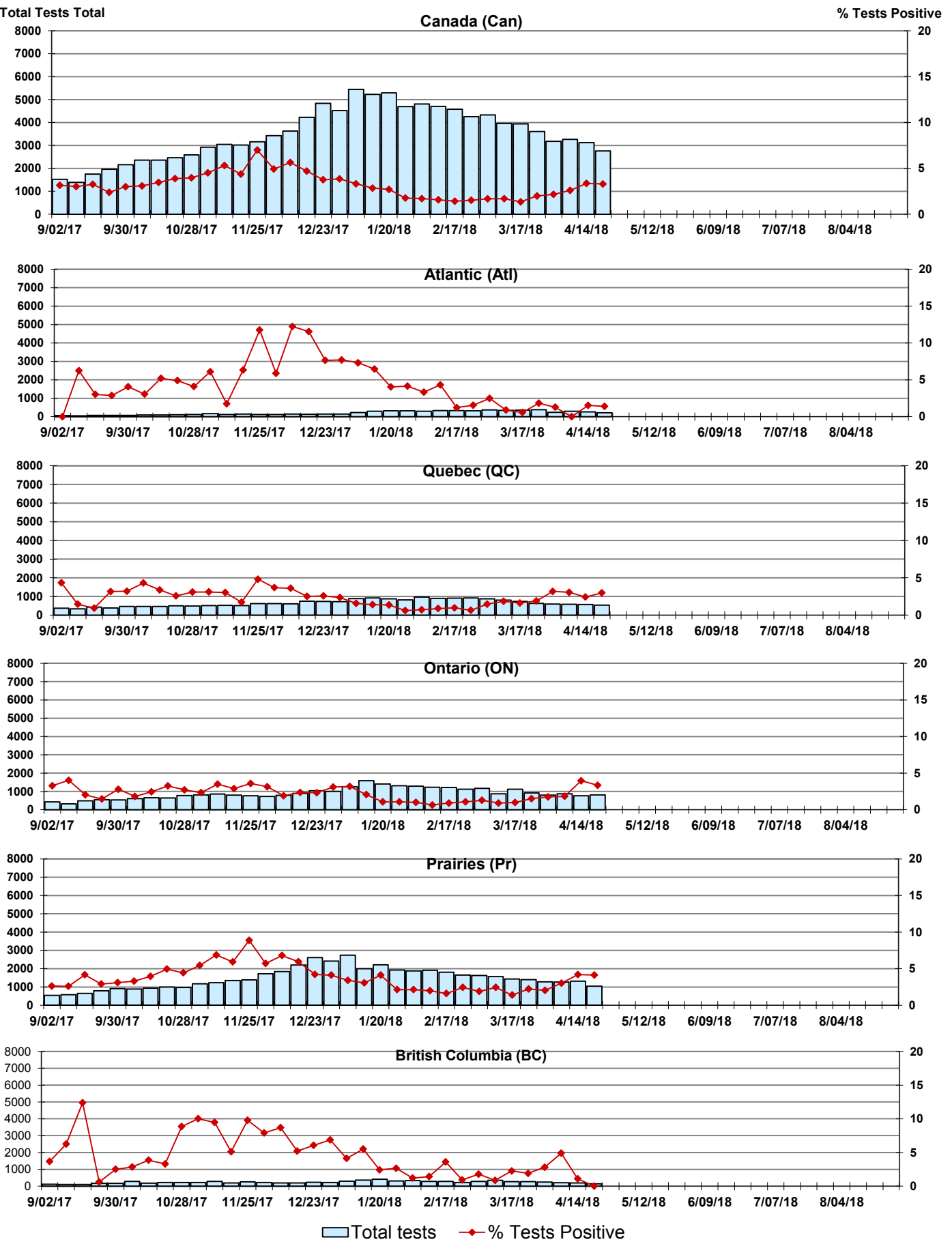


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

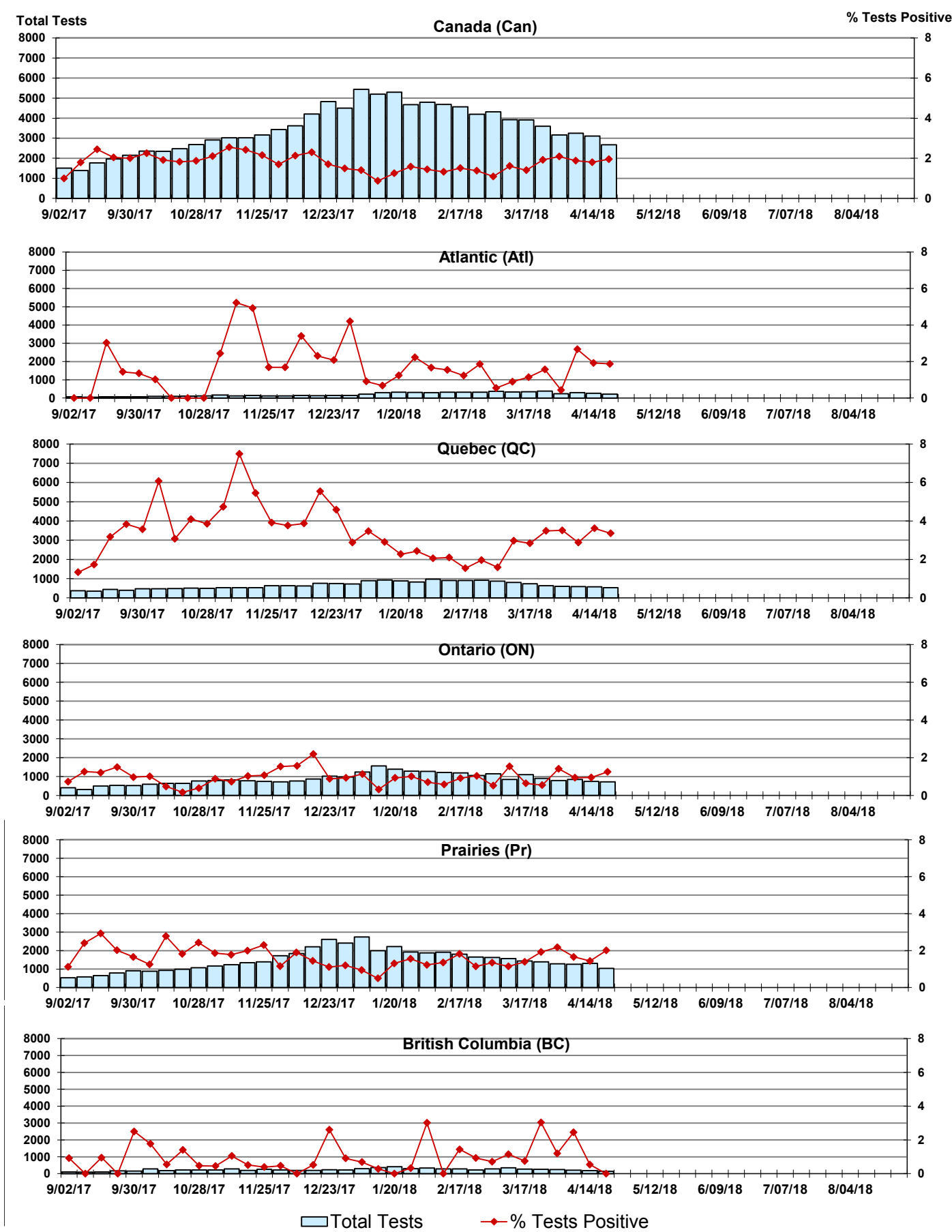


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

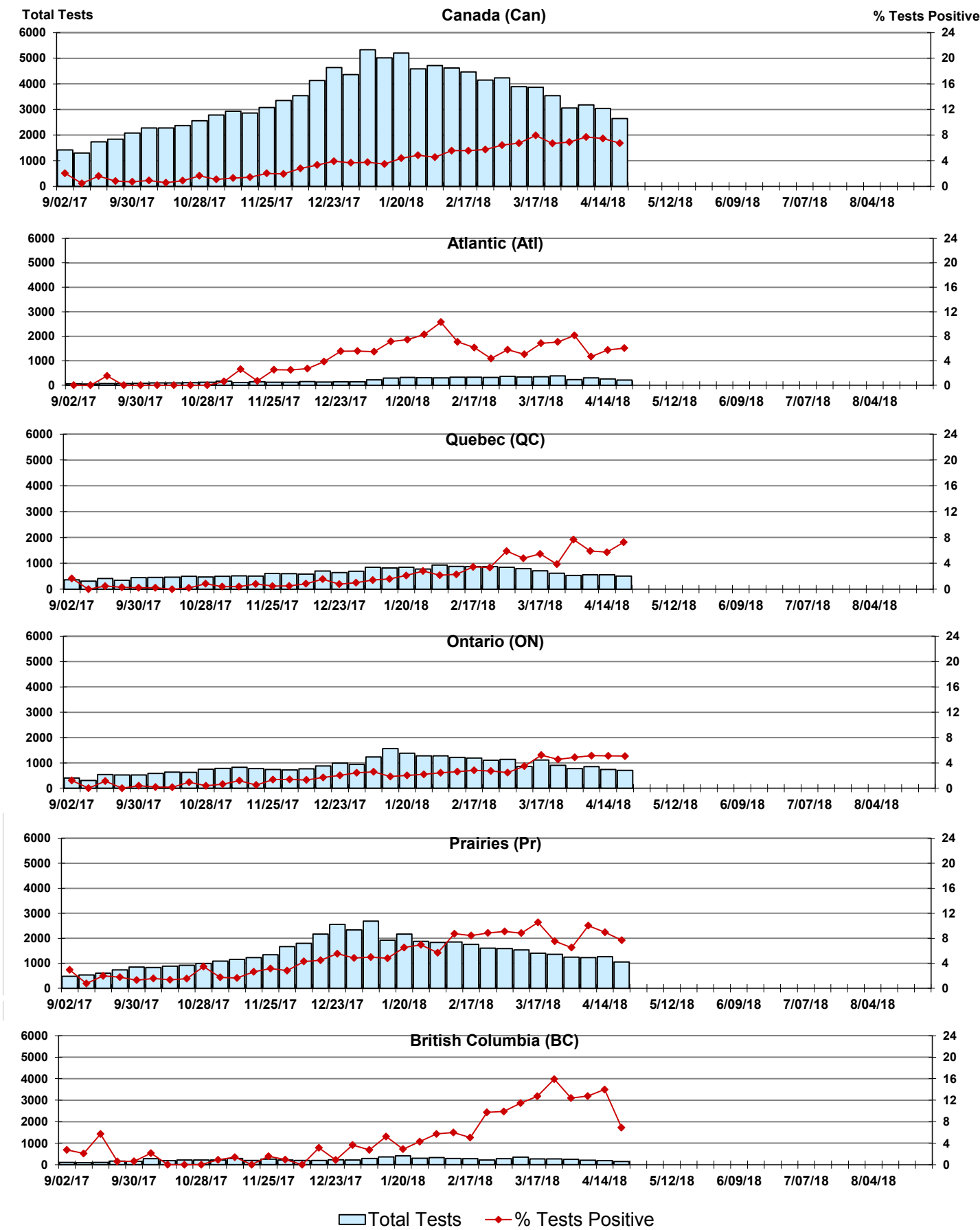


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

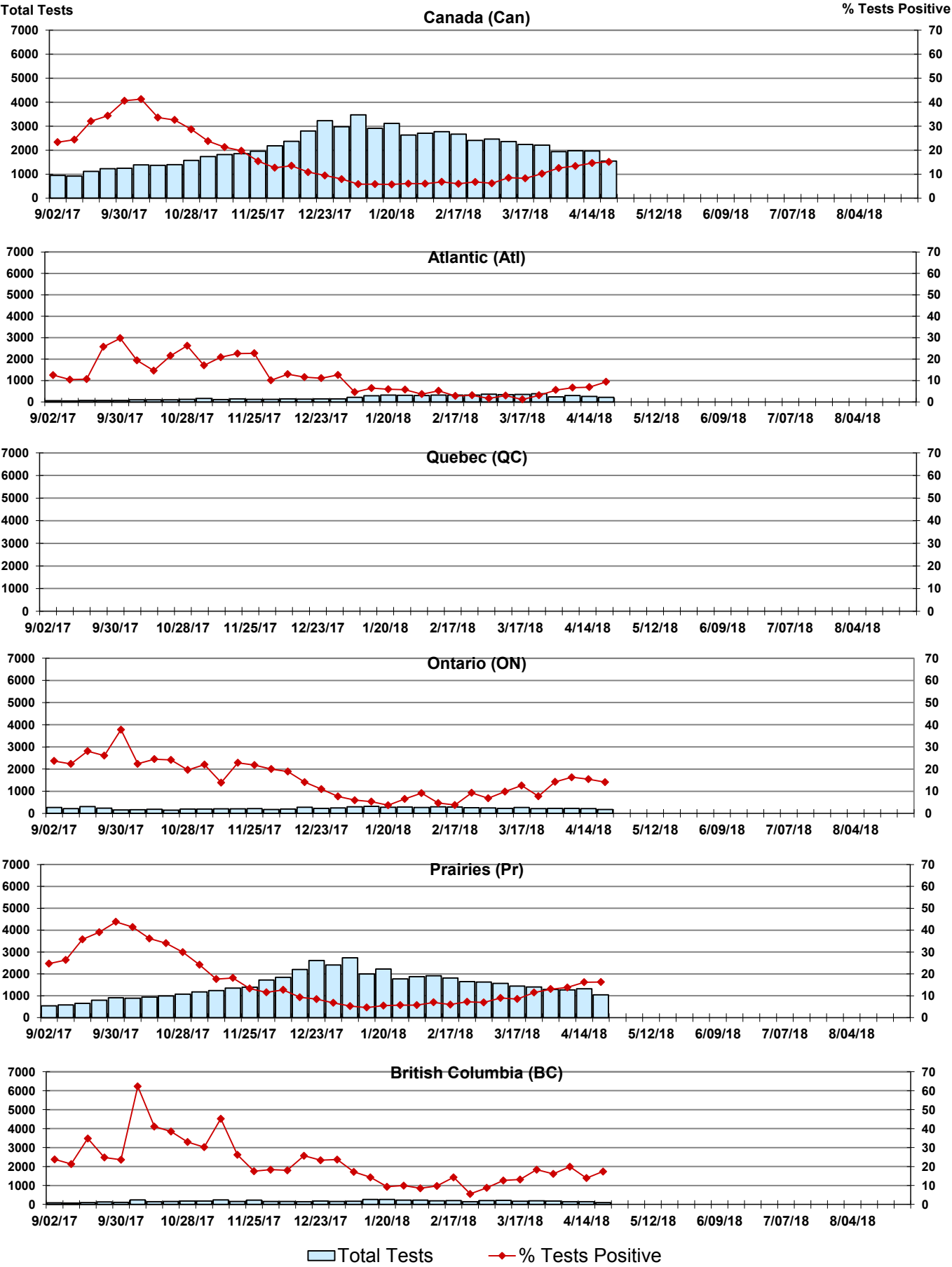
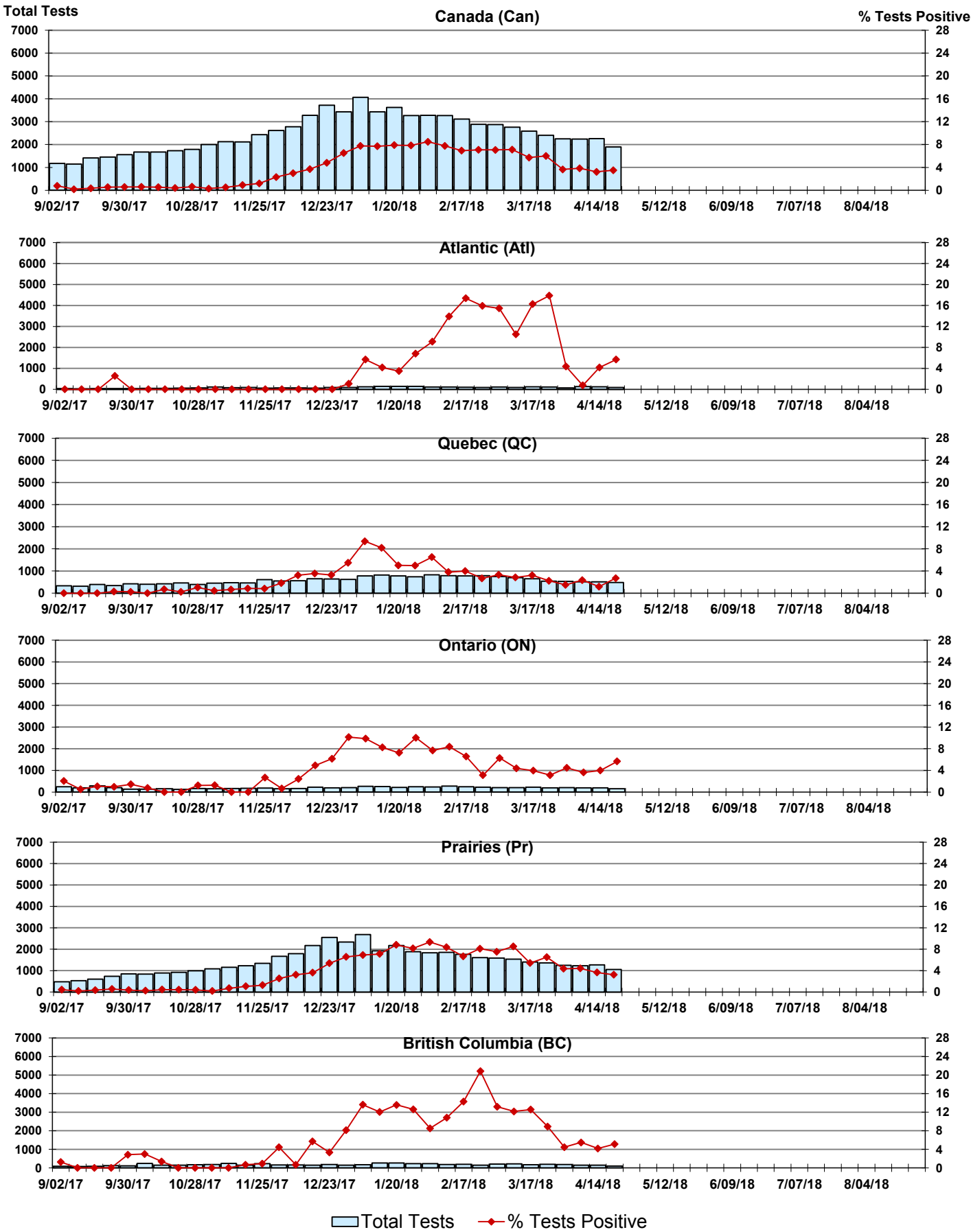


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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