

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 29 - ending July 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 July 21, 2018 (Reporting Week 201829)

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	26	0	0	0	0	0	26	1	26	0	0	0	0	0	26	0	26	0	26	2	N.A.	N.A.
Prince Edward Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	15	0	0	1	1	0	15	0	13	0	0	3	0	0	13	0	13	0	13	4	13	0
New Brunswick	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic	41	0	0	1	1	0	41	1	39	0	0	3	0	0	39	0	39	0	39	6	13	0
Région Nord-Est	9	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	4	0	0	0	0	0	56	0	48	0	0	0	0	0	53	4	45	0	N.A.	N.A.	45	0
Centre-du-Québec	6	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	329	0	0	0	0	0	345	3	294	1	1	13	0	0	294	10	283	1	N.A.	N.A.	260	2
Ouest du Québec	9	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	377	0	0	0	0	0	444	3	342	1	1	13	0	0	347	14	328	1	N.A.	N.A.	305	2
Ottawa P.H.L.	9	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	4	0	2	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.	16	0	0	0	0	0	14	0	14	0	0	1	0	0	14	0	14	0	0	0	0	0
UHN / Mount Sinai Hospital	141	0	0	0	0	0	141	0	10	0	0	2	0	0	0	0	10	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	159	0	0	1	1	0	157	0	157	0	2	5	0	0	157	1	152	0	6	0	0	0
Sick Kids Hospital - Toronto	30	0	0	0	0	0	30	0	30	0	0	0	0	0	30	1	30	1	30	7	30	0
Sunnybrook & Women's College HSC	31	0	0	0	0	0	31	0	31	0	0	1	0	0	31	0	31	0	31	3	31	0
Sault Ste. Marie P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
Timmins P.H.L.	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	1	5	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.	23	0	0	0	0	0	22	0	22	0	0	1	0	0	22	0	19	0	3	0	0	0
Orillia P.H.L.	10	0	0	0	0	0	3	0	3	0	0	1	0	0	3	0	3	0	0	0	0	0
Thunder Bay P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	2	0	1	0	0	0
Sudbury P.H.L.	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	8	0	1	0	0	0
Hamilton P.H.L.	37	0	0	0	0	0	37	0	37	0	0	1	0	0	37	1	32	0	5	0	0	0
Peterborough P.H.L.	13	0	0	0	0	0	10	0	10	0	0	0	0	0	10	0	10	0	0	0	0	0
Province of Ontario	490	0	0	1	1	0	472	0	341	0	2	12	0	0	331	4	324	2	79	10	61	0
Manitoba	98	0	0	0	0	0	98	0	81	0	2	6	2	0	81	2	36	0	81	15	36	0
Regina	101	0	0	0	0	0	101	2	101	0	1	5	1	0	101	2	101	0	101	30	101	0
Saskatoon	48	0	0	2	2	0	48	0	48	0	1	0	0	0	48	0	48	0	48	18	48	0
Province of Saskatchewan	149	0	0	2	2	0	149	2	149	0	2	5	1	0	149	2	149	0	149	48	149	0
Province of Alberta	295	2	1	0	3	0	271	0	271	0	4	19	4	0	271	4	271	4	271	58	271	2
Prairies	542	2	1	2	5	0	518	2	501	0	8	30	7	0	501	8	456	4	501	121	456	2
British Columbia	103	0	0	1	1	0	103	1	89	0	0	1	0	0	89	0	89	1	72	8	72	1
Yukon	0	0	0	0	0	0	0	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	1	0	0	3	0	3	0	3	0	3	0
Nunavut	3	0	0	0	0	0	3	0	3	0	0	1	0	0	3	0	3	0	3	2	3	0
Territories	6	0	0	0	0	0	6	0	6	0	0	2	0	0	6	0	6	0	6	2	6	0
CANADA	1559	2	1	5	8	0	1584	7	1318	1	11	61	7	0	1313	26	1242	8	697	147	913	5

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 21, 2018 (Reporting Weeks 201735-201829)

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	4564	0	3	476	479	436	4564	243	4564	98	22	58	0	0	4564	48	4565	240	4564	262	N.A.	N.A.
Prince Edward Island	1313	8	134	4	146	171	1345	176	89	1	0	1	2	0	89	4	89	5	89	18	89	7
Nova Scotia	4242	0	0	565	565	302	4294	540	608	5	1	12	1	0	608	9	608	35	608	96	608	17
New Brunswick	12071	36	249	1428	1713	1282	11639	779	3019	26	40	49	15	0	3019	86	3019	142	3019	389	3019	155
Atlantic	22190	44	386	2473	2903	2191	21842	1738	8280	130	63	120	18	0	8280	147	8281	422	8280	765	3716	179
Région Nord-Est	13882	0	0	1846	1846	1404	11959	872	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16600	0	0	2622	2622	2076	16517	1354	3646	44	2	45	19	0	3736	130	3155	37	N.A.	N.A.	3075	26
Centre-du-Québec	19774	0	0	2814	2814	2657	15738	1416	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	49945	0	0	5082	5082	3814	44714	2664	23920	217	43	399	57	0	24092	829	23120	651	N.A.	N.A.	21221	607
Ouest du Québec	13235	0	0	1886	1886	1535	8725	753	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	9408	0	0	1262	1262	865	9266	639	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	122844	0	0	15512	15512	12351	106919	7698	27566	261	45	444	76	0	27828	959	26275	688	N.A.	N.A.	24296	633
Ottawa P.H.L.	1000	4	122	57	183	143	571	12	571	6	1	5	0	0	571	4	542	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.	1133	5	103	38	146	93	850	27	850	9	0	10	1	0	850	5	786	17	158	7	22	0
UHN / Mount Sinai Hospital	12951	0	2	632	634	567	12951	413	799	7	2	24	8	0	0	0	758	16	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	17382	174	1576	139	1889	1170	13787	271	13789	114	15	156	1	0	13788	128	13334	220	915	48	234	5
Sick Kids Hospital - Toronto	3397	20	59	122	201	177	2749	202	2749	30	9	66	35	0	2749	61	2749	159	2749	681	2749	141
Sunnybrook & Women's College HSC	3301	14	209	3	226	177	3301	75	3301	22	9	34	10	0	3301	1	3301	100	3301	287	3301	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.	4998	28	456	112	596	645	3447	193	3447	40	3	42	3	0	3447	18	3335	74	297	21	63	0
Orillia P.H.L.	1603	8	153	65	226	134	1164	53	1164	19	0	6	0	0	1164	10	1142	31	53	4	11	0
Thunder Bay P.H.L.	1180	2	196	22	220	94	850	27	850	12	2	7	0	0	850	6	835	17	19	0	3	0
Sudbury P.H.L.	1251	3	118	7	128	95	1017	11	1017	11	2	3	0	0	1016	7	971	3	65	1	13	0
Hamilton P.H.L.	3691	29	206	97	332	343	2816	132	2815	33	5	33	3	0	2815	33	2730	52	209	21	64	2
Peterborough P.H.L.	1914	6	99	52	157	126	1562	44	1562	21	0	5	0	0	1562	7	1552	34	58	12	44	2
Province of Ontario	68463	301	3481	2573	6355	4836	59427	2578	36139	371	53	448	82	0	35237	347	35142	823	9683	1473	8229	324
Manitoba	12311	22	378	737	1137	640	12059	580	5223	67	17	60	17	0	5223	73	2720	152	5223	570	2720	97
Regina	14485	70	1163	61	1294	1335	14485	867	14485	376	169	170	67	0	14485	247	14485	744	14485	2692	14485	832
Saskatoon	6035	19	0	393	412	348	6035	255	5934	34	7	38	4	0	6035	51	6035	78	5885	525	6035	99
Province of Saskatchewan	20520	89	1163	454	1706	1683	20520	1122	20419	410	176	208	71	0	20520	298	20520	822	20370	3217	20520	931
Province of Alberta	41113	283	4007	1427	5717	3397	33613	0	33613	552	225	522	324	0	33613	573	33613	2011	33613	5098	33613	1450
Prairies	73944	394	5548	2618	8560	5720	66192	1702	59255	1029	418	790	412	0	59356	944	56853	2985	59206	8885	56853	2478
British Columbia	22429	519	1520	447	2486	3021	22248	889	9561	166	56	126	86	0	9561	114	9561	495	6976	1556	6976	403
Yukon	456	7	48	21	76	43	456	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	769	4	126	0	130	56	763	0	763	11	2	4	24	0	763	28	763	52	763	99	763	52
Nunavut	430	6	40	0	46	6	417	8	418	7	4	16	7	0	417	29	415	26	243	71	234	14
Territories	1655	17	214	21	252	105	1636	54	1181	18	6	20	31	0	1180	57	1178	78	1006	170	997	66
CANADA	311525	1275	11149	23644	36068	28224	278264	14659	141982	1975	641	1948	705	0	141442	2568	137290	5491	85151	12849	101067	4083

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

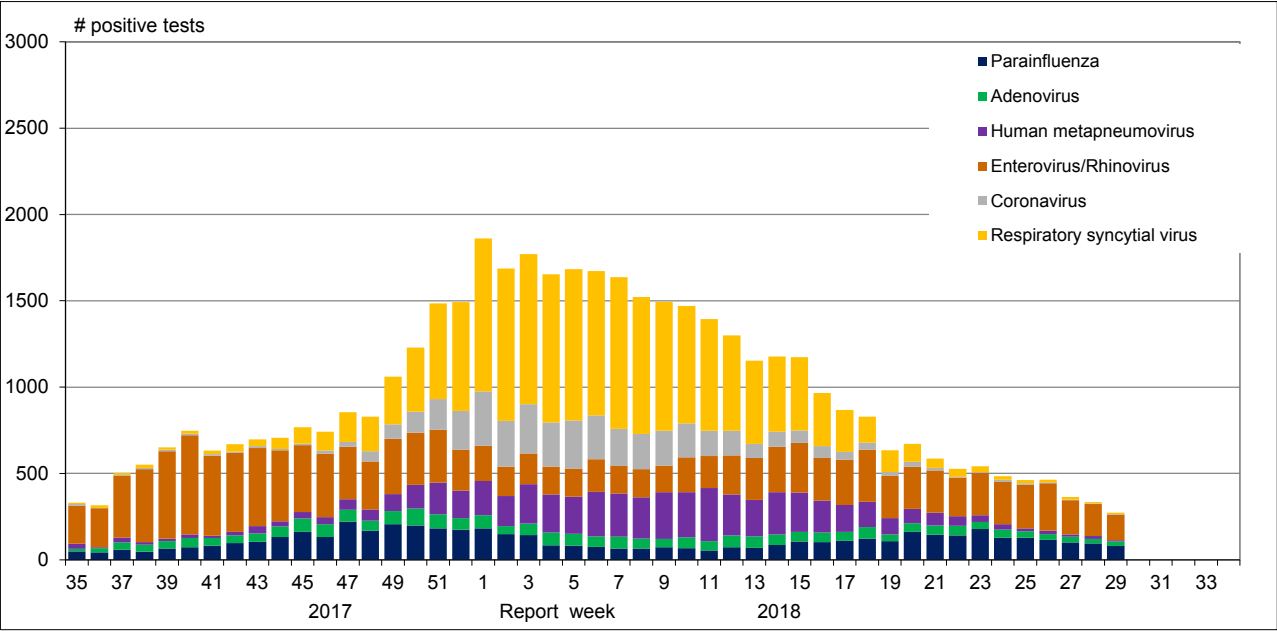


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

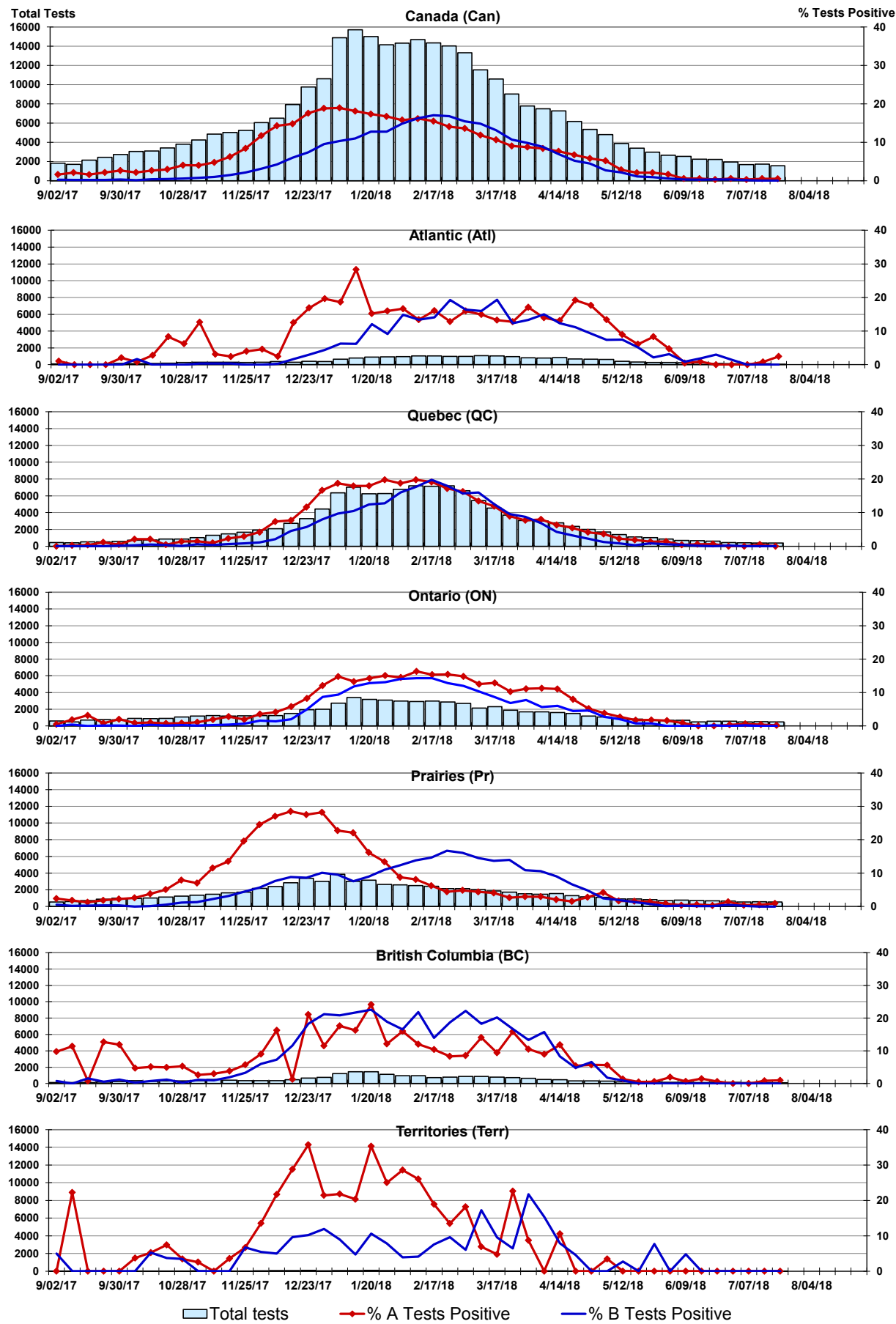


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

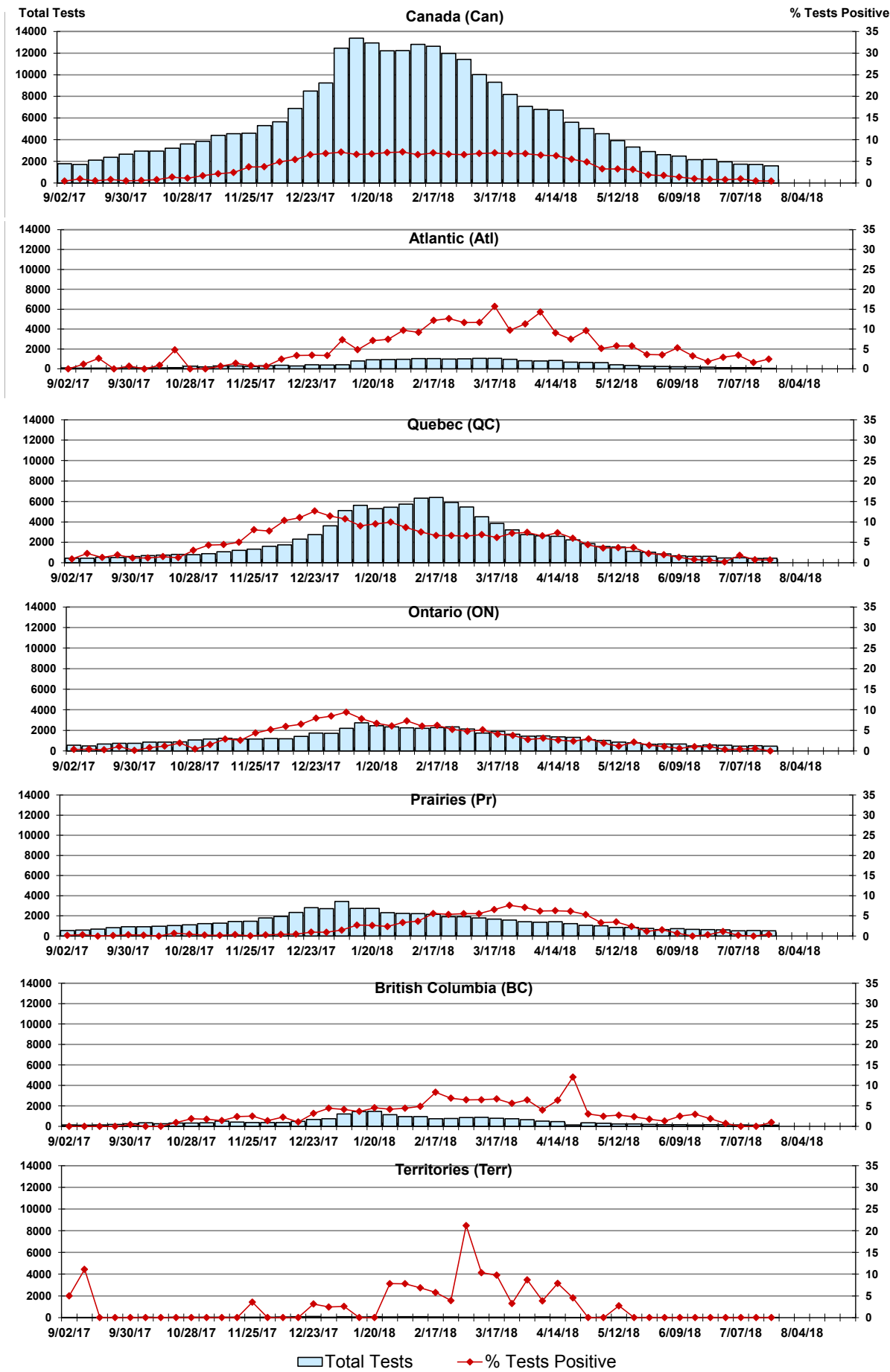


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

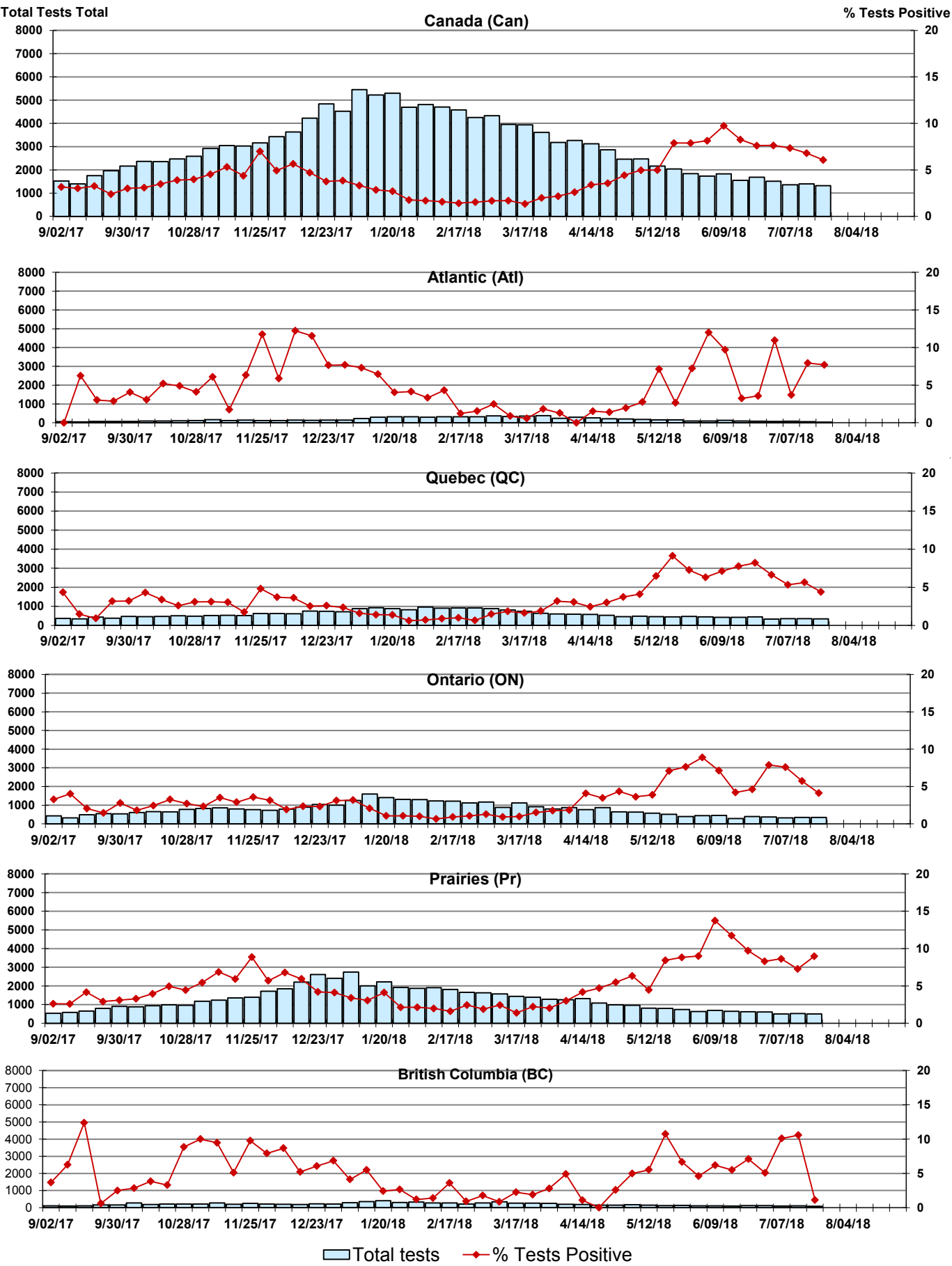


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

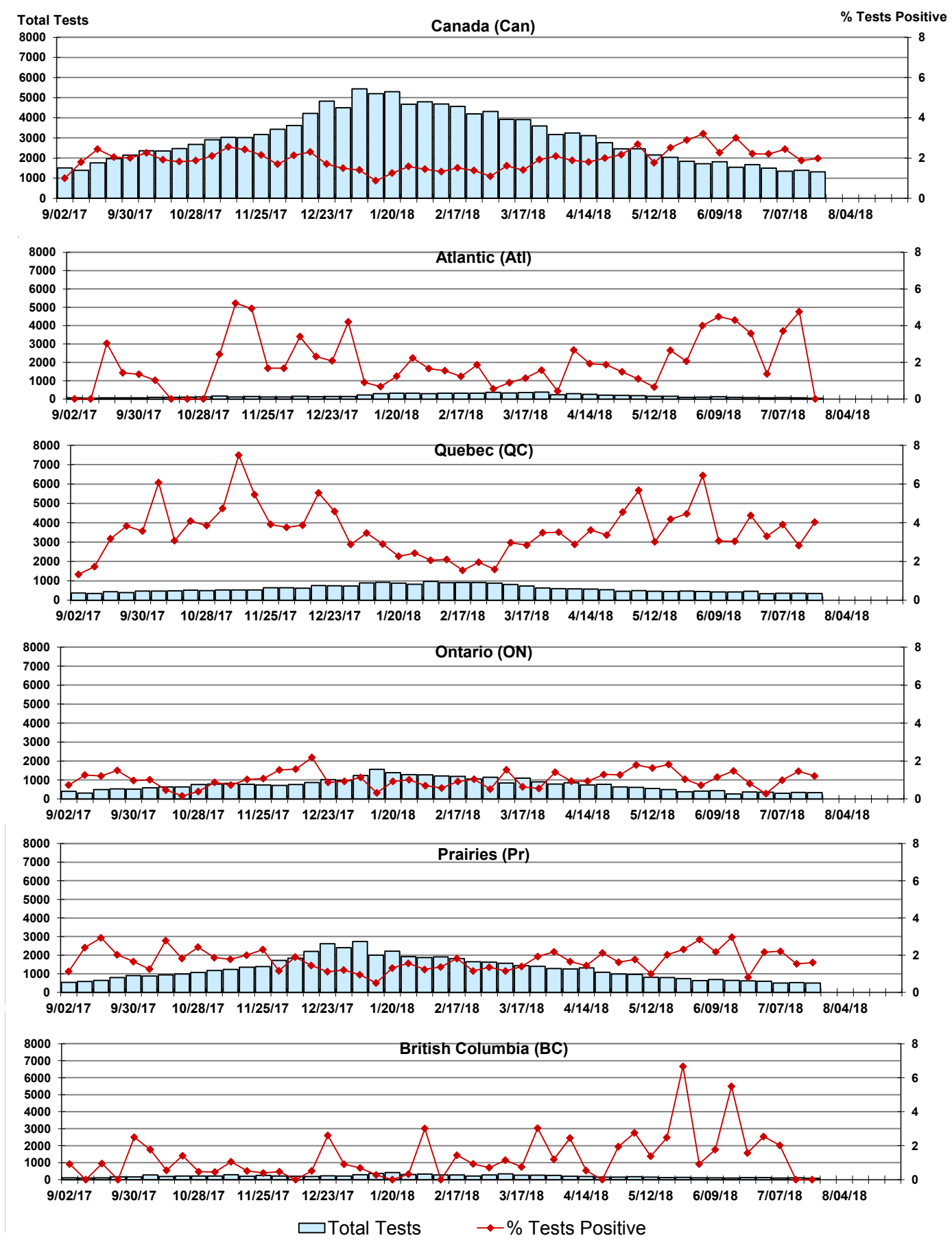


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

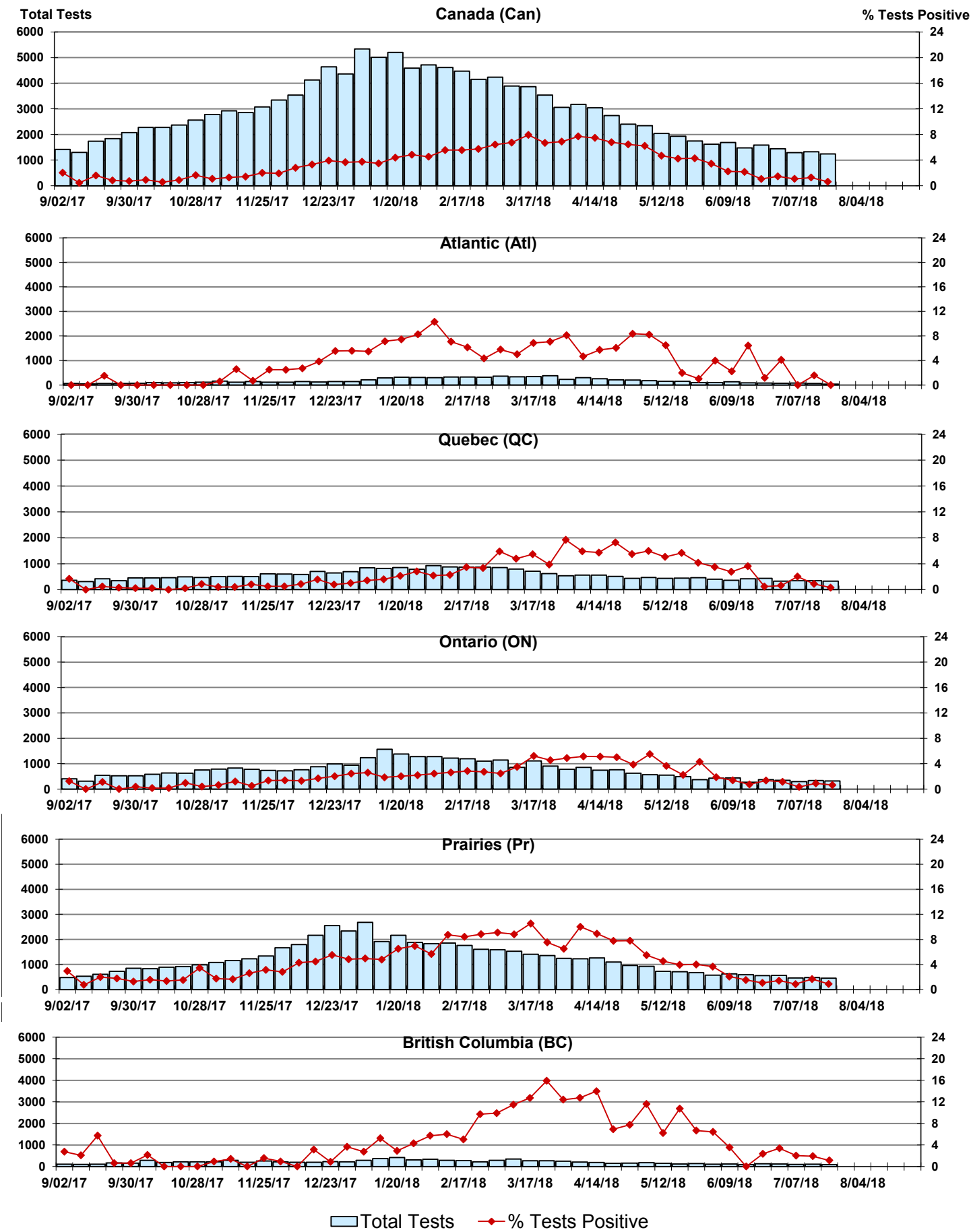


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

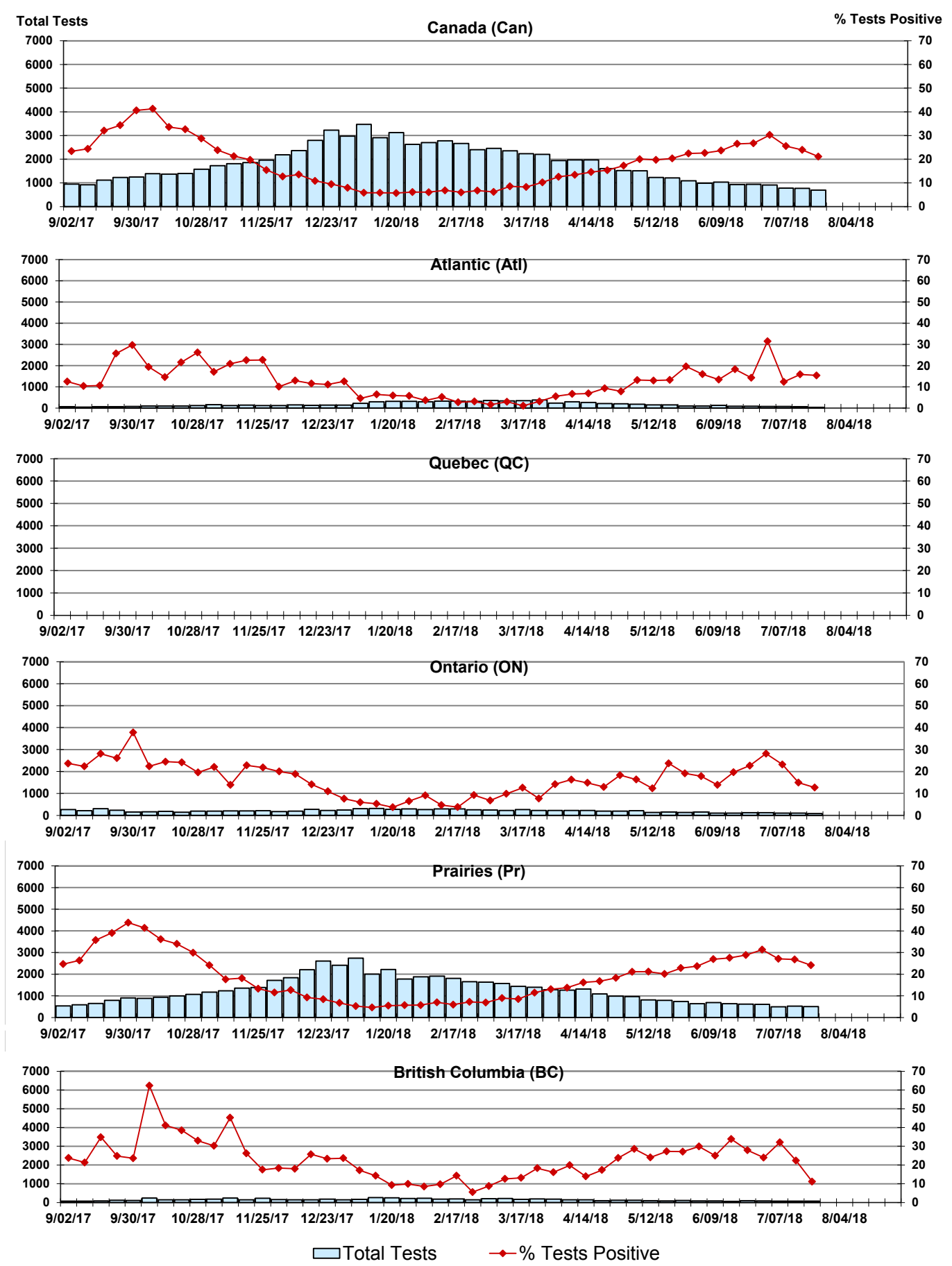
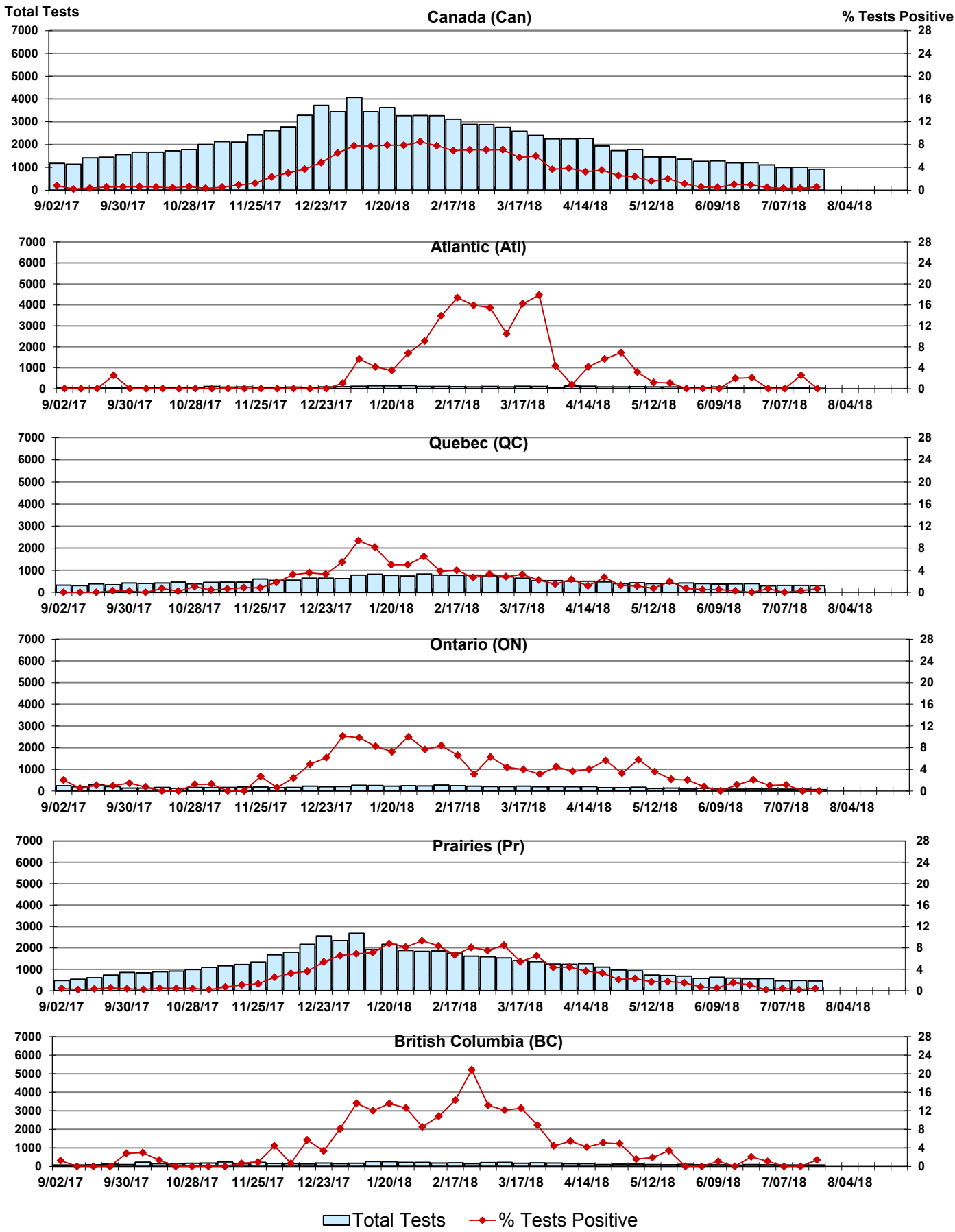


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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.