

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 31 - ending August 4, 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 August 4, 2018 (Reporting Week 201831)

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	37	0	0	0	0	0	37	1	37	0	0	4	0	0	37	2	37	0	37	2	N.A.	N.A.
Prince Edward Island	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	9	0	0	2	2	0	9	0	8	0	0	2	0	0	8	0	8	0	8	0	8	0
New Brunswick	69	0	0	0	0	0	72	1	22	0	0	1	0	0	22	0	22	0	22	3	22	0
Atlantic	116	0	0	2	2	0	119	2	68	0	0	7	0	0	68	2	68	0	68	5	31	0
Région Nord-Est	21	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	33	0	0	0	0	2	40	0	58	0	1	1	0	0	58	1	55	0	N.A.	N.A.	54	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	235	0	0	0	0	0	246	3	210	1	2	8	0	0	210	7	204	0	N.A.	N.A.	204	0
Ouest du Québec	10	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	6	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	312	0	0	0	0	2	327	3	268	1	3	9	0	0	268	8	259	0	N.A.	N.A.	258	0
Ottawa P.H.L.	6	0	0	0	0	0	6	0	6	0	0	2	0	0	6	0	5	0	1	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	8	0	8	0	0	0	0	0	8	0	6	0	2	0	0	0
UHN / Mount Sinai Hospital	128	0	0	0	0	0	128	1	15	0	0	1	0	0	0	0	0	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	133	0	0	0	0	0	131	1	131	0	1	2	0	0	131	1	116	0	16	0	0	0
Sick Kids Hospital - Toronto	43	0	0	0	0	0	43	0	43	0	0	1	0	0	43	0	43	0	43	11	43	2
Sunnybrook & Women's College HSC	25	0	0	0	0	0	25	0	25	0	0	1	0	0	25	0	25	3	25	3	25	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.	24	0	0	0	0	0	24	0	24	0	0	0	0	0	24	0	21	0	3	0	0	0
Orillia 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
Thunder Bay 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
Sudbury 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
Hamilton P.H.L.	25	0	0	0	0	0	25	0	25	0	0	2	0	0	25	0	23	0	2	0	0	0
Peterborough P.H.L.	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	12	0	1	0	0	0
Province of Ontario	414	0	0	0	0	0	412	2	299	0	1	9	0	0	284	1	260	3	93	14	68	2
Manitoba	80	0	0	0	0	0	78	0	57	0	1	0	1	0	57	0	25	0	57	8	25	0
Regina	92	0	0	0	0	0	92	2	92	0	1	6	0	0	92	1	92	0	92	33	92	0
Saskatoon	78	0	0	1	1	0	78	0	78	0	2	1	0	0	78	3	78	0	78	18	78	0
Province of Saskatchewan	170	0	0	1	1	0	170	2	170	0	3	7	0	0	170	4	170	0	170	51	170	0
Province of Alberta	310	0	1	0	1	0	291	0	291	1	4	12	3	0	291	9	291	2	291	62	291	1
Prairies	560	0	1	1	2	0	539	2	518	1	8	19	4	0	518	13	486	2	518	121	486	1
British Columbia	154	2	1	0	3	1	154	0	153	1	2	7	0	0	153	0	153	2	140	23	140	2
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	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	1	5	0	5	2	5	0
Nunavut	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	5	2	5	0
Territories	10	0	0	0	0	0	10	0	10	0	0	0	0	0	10	1	10	0	10	4	10	0
CANADA	1566	2	2	3	7	3	1561	9	1316	3	14	51	4	0	1301	25	1236	7	829	167	993	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 - August 4, 2018 (Reporting Weeks 201735-201831)

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	4622	0	3	476	479	436	4622	244	4622	98	22	64	0	0	4622	51	4623	240	4622	268	N.A.	N.A.	
Prince Edward Island	1316	8	134	4	146	171	1348	176	91	1	0	1	2	0	91	4	91	5	91	19	91	7	
Nova Scotia	4245	0	0	567	567	302	4297	540	619	5	1	16	1	0	619	9	619	35	619	96	619	17	
New Brunswick	12265	36	249	1428	1713	1282	11835	781	3106	26	40	54	15	0	3106	87	3106	142	3106	396	3106	155	
Atlantic	22448	44	386	2475	2905	2191	22102	1741	8438	130	63	135	18	0	8438	151	8439	422	8438	779	3816	179	
Région Nord-Est	13914	0	0	1846	1846	1404	11989	872	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0	
Québec-Chaudière-Appalaches	16656	0	0	2622	2622	2078	16604	1354	3749	45	3	49	19	0	3840	131	3255	37	N.A.	N.A.	3174	26	
Centre-du-Québec	19790	0	0	2814	2814	2657	15756	1416	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0	
Montréal-Laval	50490	0	0	5085	5085	3815	45291	2668	24426	221	47	416	57	0	24598	845	23614	651	N.A.	N.A.	21715	608	
Ouest du Québec	13252	0	0	1886	1886	1535	8740	753	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0	
Montréal	9433	0	0	1262	1262	865	9291	641	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0	
Province of Québec	123535	0	0	15515	15515	12354	107671	7704	28175	266	50	465	76	0	28438	976	26869	688	N.A.	N.A.	24889	634	
Ottawa P.H.L.	1011	4	122	57	183	143	585	12	585	6	1	7	0	0	585	4	554	15	50	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.	1151	5	103	38	146	93	870	27	870	9	0	10	1	0	870	5	804	17	170	7	22	0	
UHN / Mount Sinai Hospital	13212	0	2	634	636	567	13212	414	832	7	2	27	9	0	0	0	776	17	N.A.	N.A.	N.A.	N.A.	
P.H.O.L. - Toronto	17672	174	1577	139	1890	1170	14075	272	14077	114	16	161	1	0	14076	131	13589	220	955	48	234	5	
Sick Kids Hospital - Toronto	3471	20	59	122	201	177	2823	202	2823	30	9	67	35	0	0	2823	62	2823	159	2823	696	2823	143
Sunnybrook & Women's College HSC	3362	14	209	3	226	177	3362	76	3362	22	9	36	10	0	3362	2	3362	103	3362	304	3362	102	
Sault Ste. Marie P.H.L.	648	1	98	8	107	52	482	12	483	9	0	2	1	0	483	0	469	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.	5055	28	456	112	596	645	3504	193	3504	40	3	42	3	0	3504	18	3388	74	303	21	63	0	
Orillia P.H.L.	1615	8	153	65	226	134	1183	53	1183	19	0	6	0	0	1183	11	1159	31	55	4	11	0	
Thunder Bay P.H.L.	1186	2	196	22	220	94	856	27	856	12	2	7	0	0	856	6	841	17	19	0	3	0	
Sudbury P.H.L.	1256	3	118	7	128	95	1022	11	1022	11	2	3	0	0	1021	7	974	3	67	1	13	0	
Hamilton P.H.L.	3735	29	208	97	334	343	2860	132	2859	33	5	36	3	0	2859	33	2771	52	212	21	64	2	
Peterborough P.H.L.	1942	6	99	52	157	126	1593	44	1593	21	0	5	0	0	1593	7	1582	34	59	12	44	2	
Province of Ontario	69333	301	3484	2575	6360	4836	60309	2582	36794	371	54	464	83	0	35859	353	35733	827	9886	1505	8364	326	
Manitoba	12488	22	378	737	1137	640	12235	581	5359	67	19	62	18	0	5359	73	2781	152	5359	589	2781	97	
Regina	14660	70	1164	61	1295	1335	14660	869	14660	376	171	182	68	0	14660	250	14660	744	14660	2754	14660	832	
Saskatoon	6162	19	0	394	413	348	6162	255	6061	34	9	39	4	0	6162	55	6162	78	6012	553	6162	99	
Province of Saskatchewan	20822	89	1164	455	1708	1683	20822	1124	20721	410	180	221	72	0	20822	305	20822	822	20672	3307	20822	931	
Province of Alberta	41713	283	4008	1427	5718	3397	34168	0	34168	554	229	542	330	0	34168	588	34168	2015	34168	5219	34168	1451	
Prairies	75023	394	5550	2619	8563	5720	67225	1705	60248	1031	428	825	420	0	60349	966	57771	2989	60199	9115	57771	2479	
British Columbia	22829	521	1521	447	2489	3022	22648	889	9823	167	59	147	87	0	9823	115	9823	498	7212	1594	7212	407	
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	780	4	126	0	130	56	774	0	774	11	2	4	24	0	774	29	774	52	774	103	774	52	
Nunavut	437	6	40	0	46	6	424	8	425	7	4	17	7	0	424	29	422	26	250	75	241	14	
Territories	1674	17	214	21	252	105	1655	54	1199	18	6	21	31	0	1198	58	1196	78	1024	178	1015	66	
CANADA	314842	1277	11155	23652	36084	28228	281610	14675	144677	1983	660	2057	715	0	144105	2619	139831	5502	86759	13171	103067	4091	

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

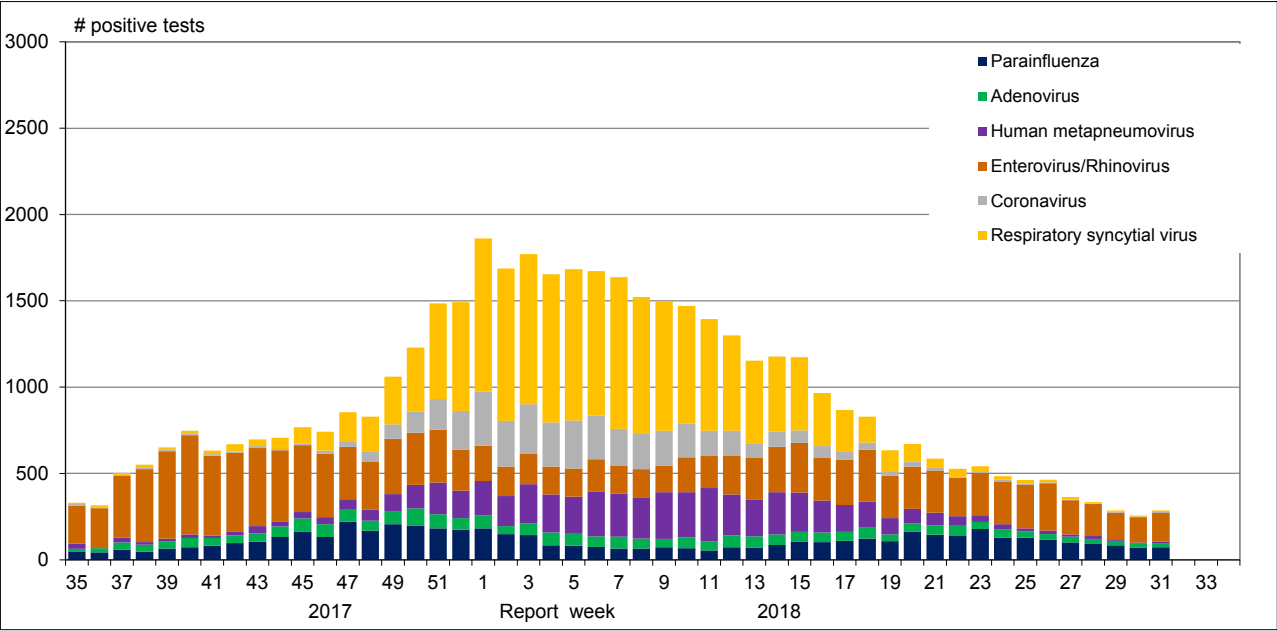


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

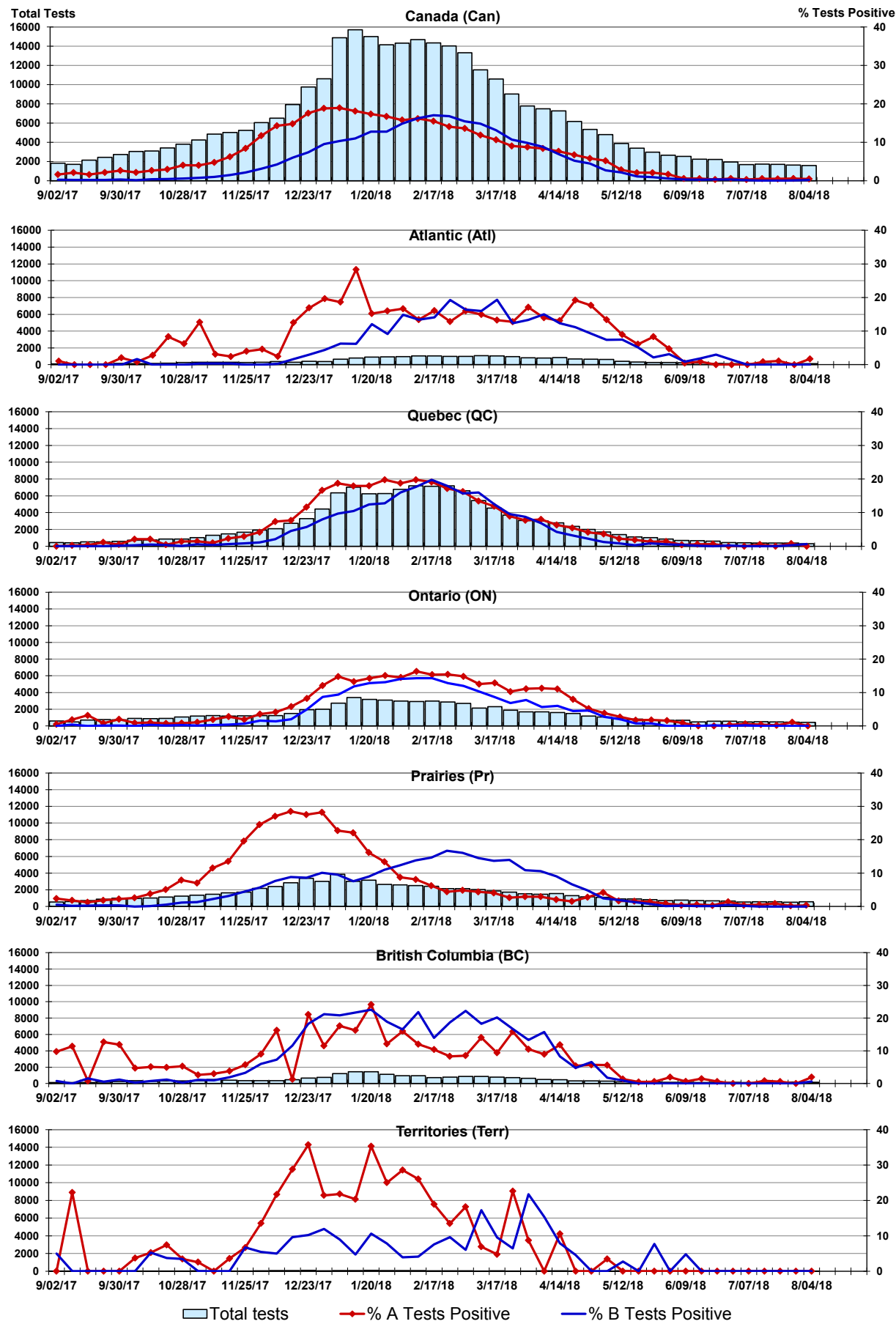


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

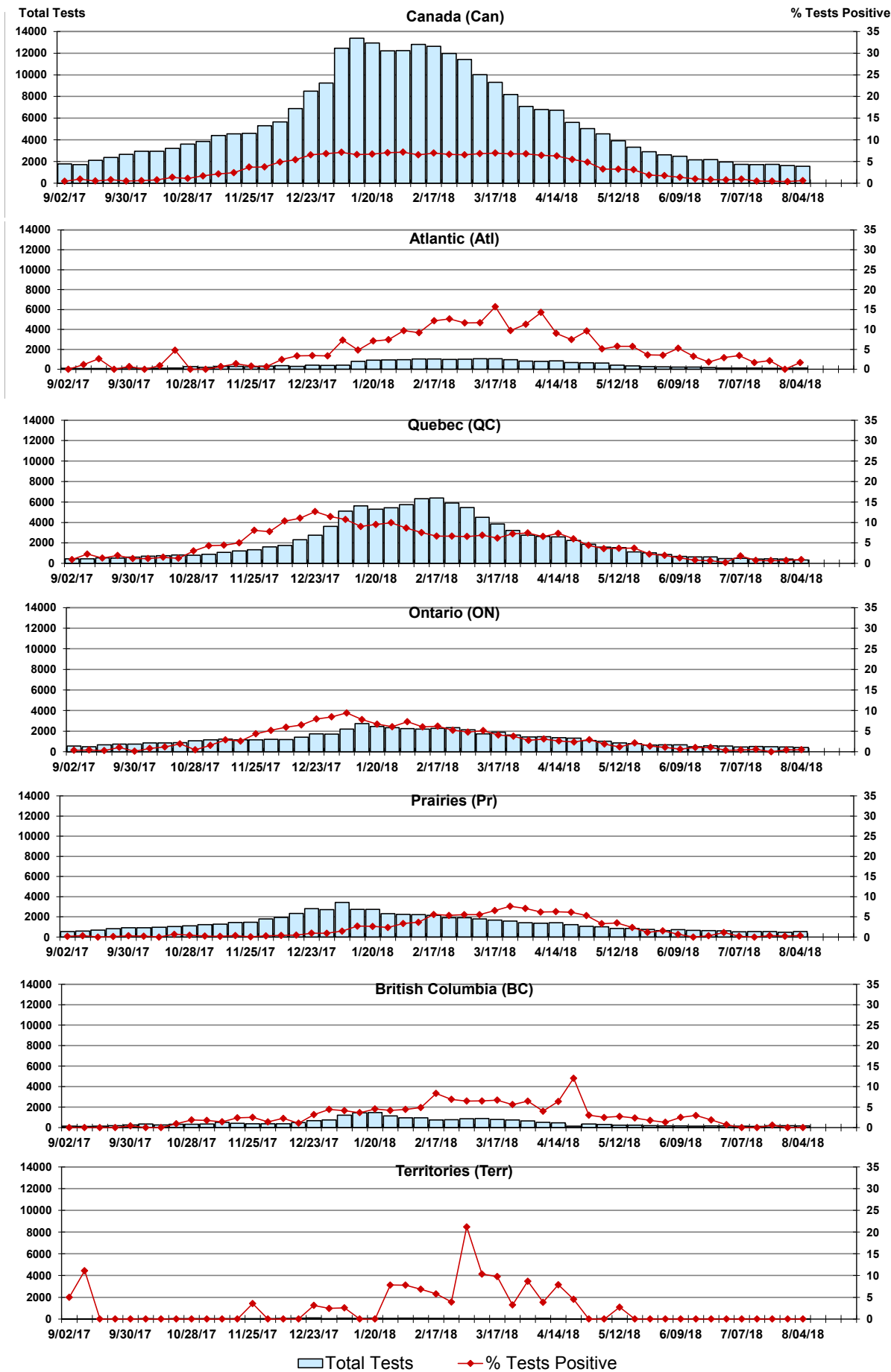


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

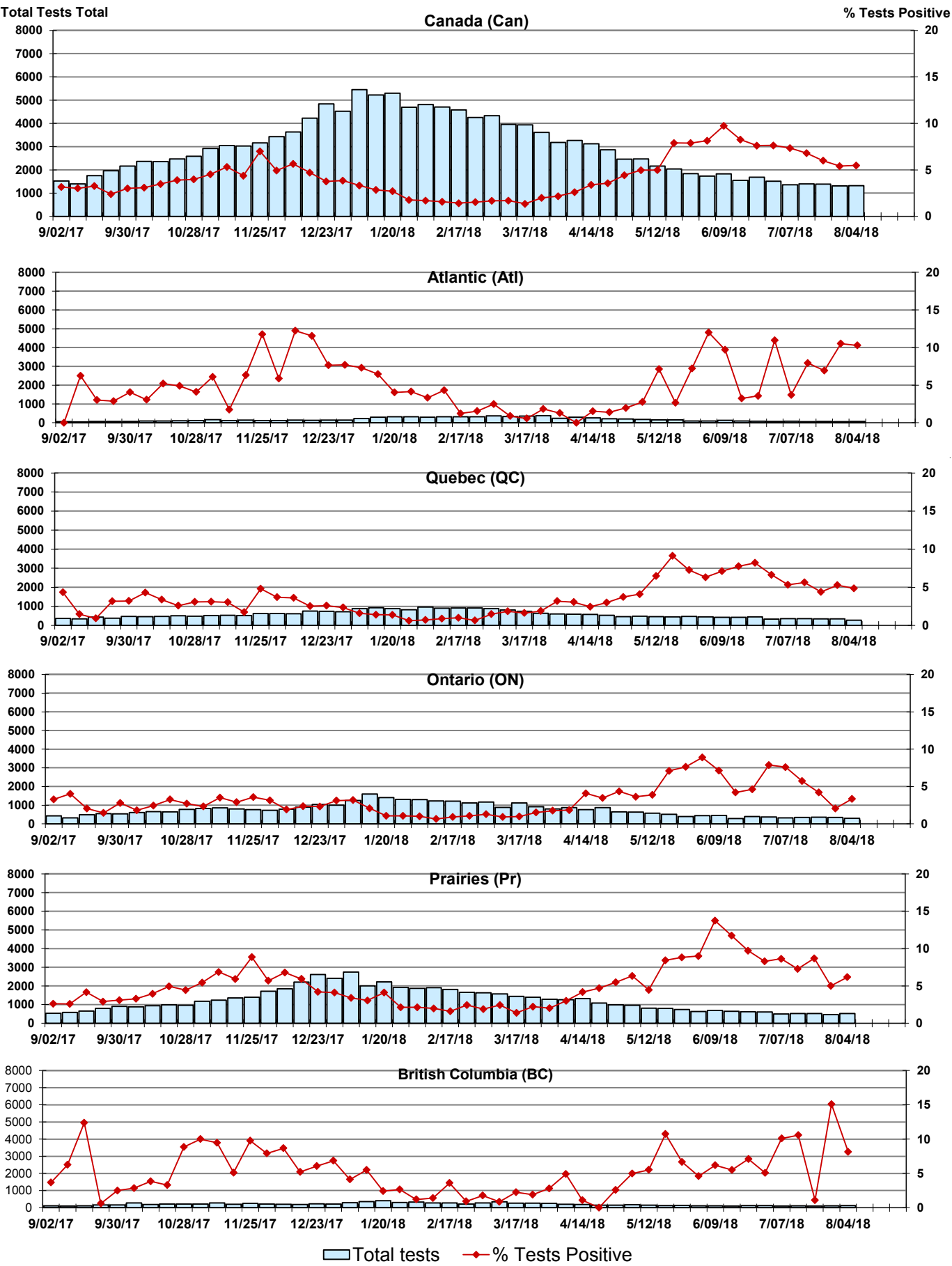


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

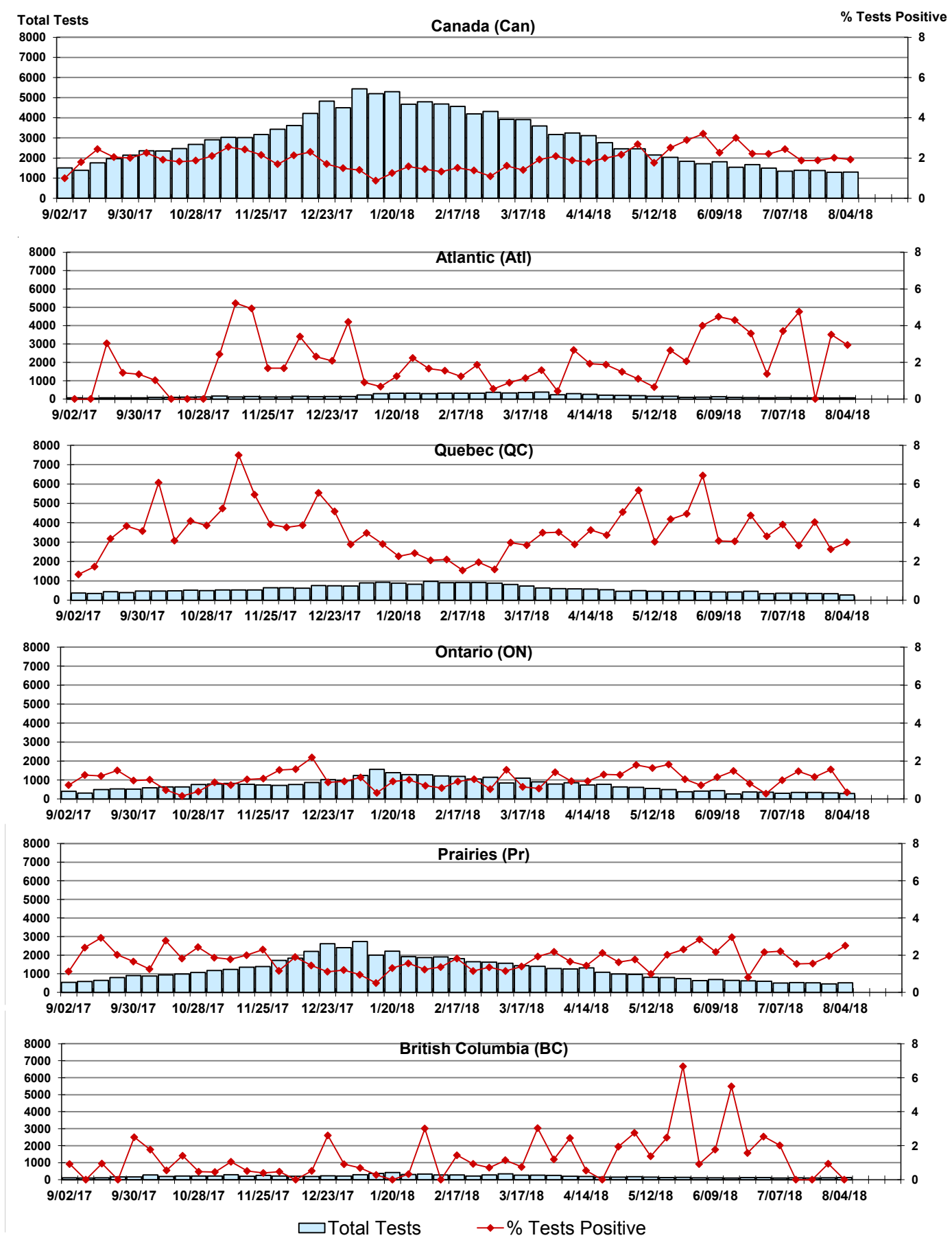


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

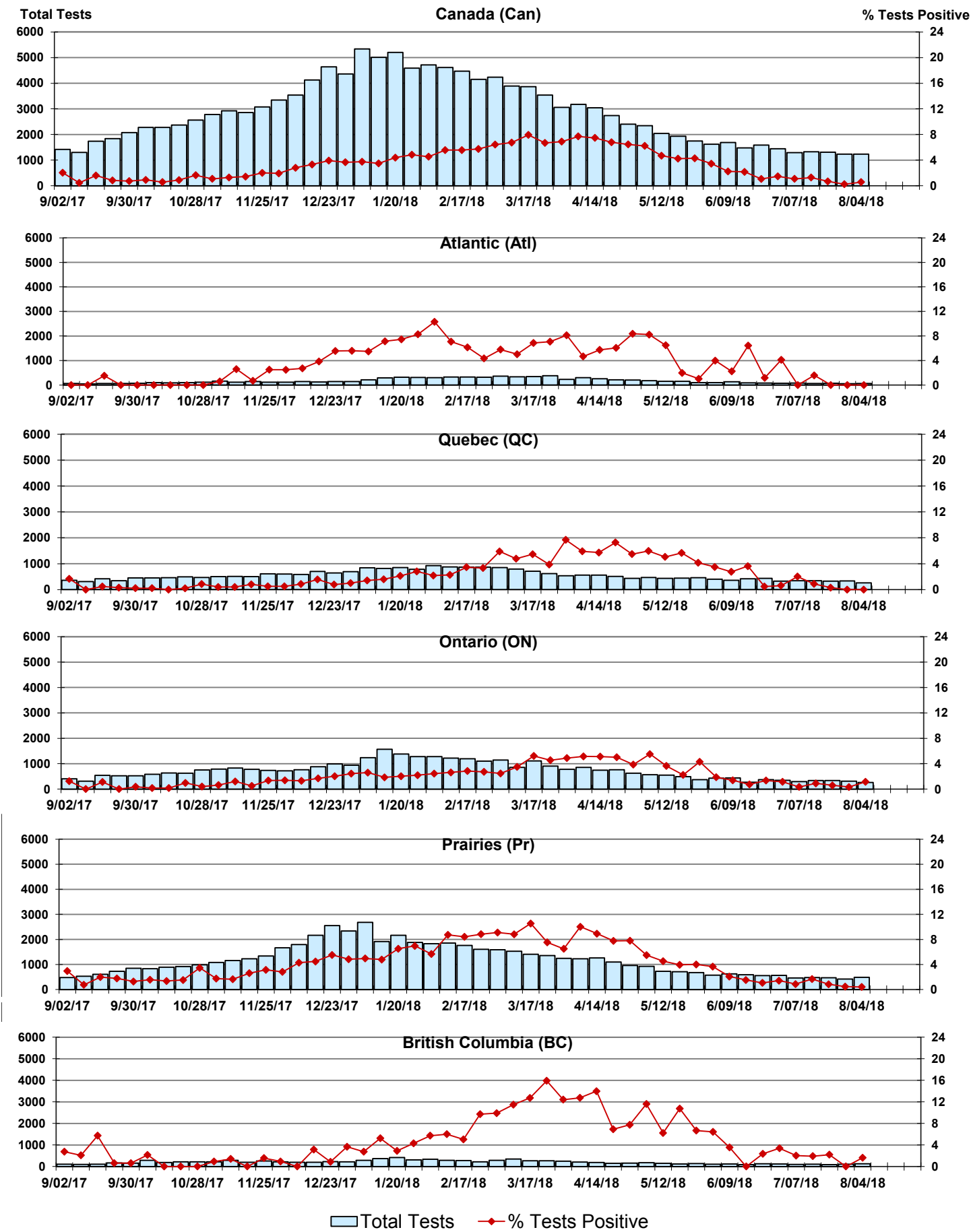


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

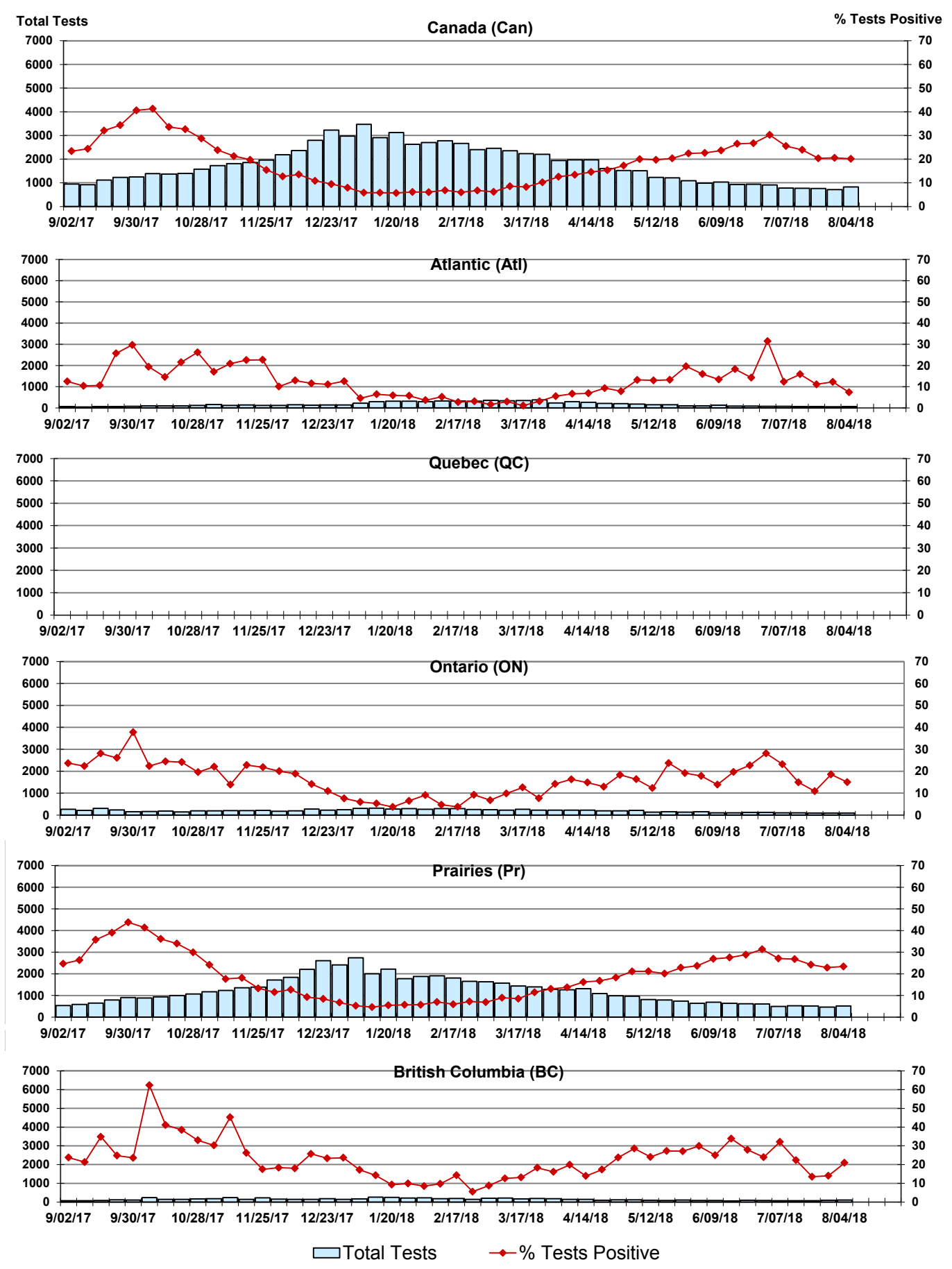
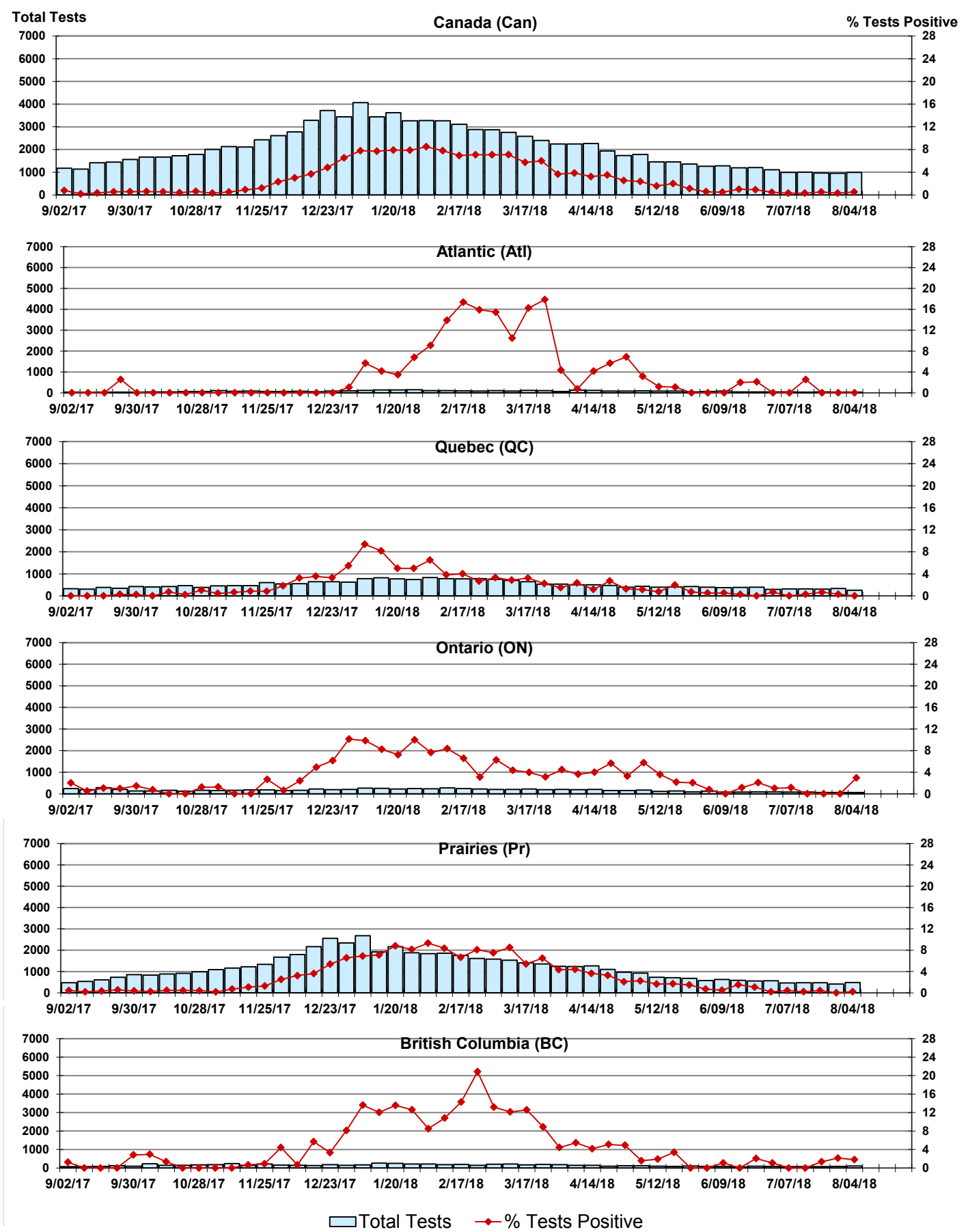


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.