

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 19 - ending May 12, 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 May 12, 2018 (Reporting Week 201819)

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	71	0	0	5	5	4	71	6	71	0	0	2	0	0	71	0	71	4	71	5	N.A.	N.A.
Prince Edward Island	27	0	0	0	0	1	27	1	2	0	0	0	0	0	2	0	2	0	2	0	2	0
Nova Scotia	75	0	0	2	2	7	85	2	7	0	0	1	0	0	7	0	7	0	7	1	7	0
New Brunswick	243	3	5	22	30	19	243	15	75	0	1	5	2	0	75	1	75	6	75	14	75	1
Atlantic	416	3	5	29	37	31	426	24	155	0	1	8	2	0	155	1	155	10	155	20	84	1
Région Nord-Est	128	0	0	3	3	4	110	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	201	0	0	1	1	1	222	14	84	0	0	3	0	0	85	4	68	1	N.A.	N.A.	67	1
Centre-du-Québec	208	0	0	7	7	0	171	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	596	0	0	13	13	2	601	20	380	1	1	24	1	0	380	10	368	21	N.A.	N.A.	333	2
Ouest du Québec	119	0	0	2	2	3	282	6	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	144	0	0	5	5	2	144	4	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1396	0	0	31	31	12	1530	56	464	1	1	27	1	0	465	14	436	22	N.A.	N.A.	400	3
Ottawa P.H.L.	11	0	0	1	1	0	4	0	4	0	0	0	0	0	4	0	4	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.	22	0	0	0	0	1	13	0	13	0	0	0	0	0	13	0	12	1	1	0	0	0
UHN / Mount Sinai Hospital	204	0	0	2	2	4	204	3	15	0	0	1	0	0	0	0	15	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	291	0	1	10	11	5	256	1	256	0	0	7	0	0	256	5	247	7	9	0	0	0
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunnybrook & Women's College HSC	51	0	0	0	0	0	51	2	51	0	0	3	0	0	51	0	51	7	51	3	51	1
Sault Ste. Marie P.H.L.	7	0	0	0	0	1	6	0	6	0	0	1	0	0	6	0	6	0	0	0	0	0
Timmins 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
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.	44	0	0	1	1	2	40	0	40	0	0	1	0	0	40	0	39	2	1	0	0	0
Orillia P.H.L.	15	0	0	0	0	1	9	0	9	0	0	0	0	0	9	0	9	0	0	0	0	0
Thunder Bay P.H.L.	10	0	0	2	2	1	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
Sudbury P.H.L.	17	0	0	0	0	0	17	0	17	1	0	0	0	0	17	0	16	0	1	0	0	0
Hamilton P.H.L.	38	0	0	1	1	0	37	0	37	0	0	2	0	0	37	0	37	1	0	0	0	0
Peterborough P.H.L.	20	0	0	0	0	0	15	0	15	0	0	0	0	0	15	0	15	0	0	0	0	0
Province of Ontario	732	0	1	17	18	15	660	6	471	1	0	15	0	0	456	6	459	18	63	3	51	1
Manitoba	179	0	0	0	0	3	179	6	131	2	0	3	0	0	131	0	52	4	131	17	52	0
Regina	175	1	0	0	1	5	175	18	175	0	4	8	0	0	175	2	175	5	175	52	175	2
Saskatoon	119	0	0	7	7	1	119	6	119	0	0	3	0	0	119	1	119	1	119	0	119	0
Province of Saskatchewan	294	1	0	7	8	6	294	24	294	0	4	11	0	0	294	3	294	6	294	52	294	2
Province of Alberta	413	5	0	2	7	9	367	0	367	0	2	10	1	0	367	5	367	23	367	85	367	9
Prairies	886	6	0	9	15	18	840	30	792	2	6	24	1	0	792	8	713	33	792	154	713	11
British Columbia	223	1	1	0	2	2	223	6	145	0	0	7	1	0	145	2	145	9	104	25	104	2
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	12	0	0	0	0	0	12	0	12	0	0	0	0	0	12	3	12	0	12	4	12	0
Nunavut	8	0	0	0	0	1	8	0	8	0	0	0	1	0	8	0	8	1	8	1	8	1
Territories	27	0	0	0	0	1	27	1	20	0	0	0	1	0	20	3	20	1	20	5	20	1
CANADA	3680	10	7	86	103	79	3706	123	2047	4	8	81	6	0	2033	34	1928	93	1134	207	1372	19

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 - May 12, 2018 (Reporting Weeks 201735-201819)

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	4173	0	3	473	476	433	4173	217	4173	97	19	40	0	0	4173	47	4174	227	4173	209	N.A.	N.A.
Prince Edward Island	1258	8	134	4	146	171	1284	175	77	1	0	0	2	0	77	4		5	77	13	77	7
Nova Scotia	3960	0	0	551	551	300	4015	531	495	5	1	3	1	0	495	7	495	29	495	74	495	16
New Brunswick	10920	31	240	1399	1670	1243	10488	744	2621	26	37	23	15	0	2621	59	2621	139	2621	318	2621	152
Atlantic	20311	39	377	2427	2843	2147	19960	1667	7366	129	57	63	18	0	7366	117	7367	400	7366	614	3193	175
Région Nord-Est	13315	0	0	1832	1832	1394	11441	850	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	15993	0	0	2615	2615	2076	15640	1342	3009	41	1	9	19	0	3065	111	2551	20	N.A.	N.A.	2475	23
Centre-du-Québec	19394	0	0	2810	2810	2657	15389	1408	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	45622	0	0	5057	5057	3806	40336	2610	20510	206	31	189	51	0	20682	684	19865	570	N.A.	N.A.	18196	589
Ouest du Québec	12960	0	0	1881	1881	1532	8497	742	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	8980	0	0	1257	1257	864	8838	630	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	116264	0	0	15452	15452	12329	100141	7582	23519	247	32	198	70	0	23747	795	22416	590	N.A.	N.A.	20671	612
Ottawa P.H.L.	933	4	122	57	183	143	501	11	501	6	0	1	0	0	501	4	485	15	34	6	10	1
CHEO - Ottawa	8132	0	0	786	786	565	8131	693	798	13	1	12	8	0	825	27	882	22	824	179	824	46
Kingston P.H.L.	1030	4	103	38	145	92	742	26	742	9	0	1	1	0	742	5	691	16	129	7	22	0
UHN / Mount Sinai Hospital	11364	0	2	622	624	564	11364	391	665	7	2	3	8	0	0	0	624	14	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	15681	168	1563	138	1869	1164	12117	266	12118	109	11	66	1	0	12117	108	11751	204	772	48	234	5
Sick Kids Hospital - Toronto	2979	16	58	121	195	176	2331	197	2331	29	4	38	30	0	2331	54	2331	142	2331	554	2331	133
Sunnybrook & Women's College HSC	2914	13	209	3	225	176	2914	75	2914	22	9	19	10	0	2914	1	2914	92	2914	211	2914	100
Sault Ste. Marie P.H.L.	616	1	98	8	107	52	451	10	451	9	0	1	1	0	451	0	440	3	24	3	12	0
Timmins P.H.L.	460	7	84	8	99	36	325	22	325	1	0	0	0	0	325	2	317	1	22	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.	4693	27	456	112	595	645	3154	189	3154	38	3	29	3	0	3154	16	3066	72	264	21	63	0
Orillia P.H.L.	1513	8	153	64	225	134	1081	53	1081	19	0	4	0	0	1081	9	1062	27	48	4	11	0
Thunder Bay P.H.L.	1136	2	196	21	219	94	809	27	809	12	2	3	0	0	809	5	798	16	15	0	3	0
Sudbury P.H.L.	1169	3	118	6	127	95	936	11	936	10	2	1	0	0	935	6	902	2	53	1	13	0
Hamilton P.H.L.	3416	29	206	93	328	341	2548	131	2547	33	5	21	3	0	2547	27	2473	49	195	21	64	2
Peterborough P.H.L.	1766	6	98	51	155	126	1419	44	1419	21	0	2	0	0	1419	6	1411	32	56	12	44	2
Province of Ontario	62353	288	3466	2544	6298	4820	53374	2519	32205	362	43	213	76	0	31437	303	31378	763	8397	1218	7213	310
Manitoba	11096	19	378	736	1133	635	10862	565	4267	61	14	12	12	0	4267	57	2311	141	4267	413	2311	96
Regina	13220	70	1162	61	1293	1332	13220	834	13220	371	140	61	49	0	13220	213	13220	727	13220	2239	13220	827
Saskatoon	5501	19	0	389	408	348	5501	247	5400	32	4	17	3	0	5501	44	5501	74	5351	409	5501	97
Province of Saskatchewan	18721	89	1162	450	1701	1680	18721	1081	18620	403	144	78	52	0	18721	257	18721	801	18571	2648	18721	924
Province of Alberta	37289	253	3994	1420	5667	3378	30118	0	30118	536	186	264	289	0	30118	500	30118	1915	30118	4204	30118	1407
Prairies	67106	361	5534	2606	8501	5693	59701	1646	53005	1000	344	354	353	0	53106	814	51150	2857	52956	7265	51150	2427
British Columbia	20927	516	1515	444	2475	3021	20746	866	8454	165	52	60	81	0	8454	87	8454	450	6118	1331	6118	395
Yukon	436	7	48	21	76	43	436	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	692	4	126	0	130	56	686	0	686	11	2	1	24	0	686	24	686	42	686	82	686	52
Nunavut	376	6	40	0	46	4	363	8	364	7	4	13	7	0	363	23	361	26	189	46	180	12
Territories	1504	17	214	21	252	103	1485	54	1050	18	6	14	31	0	1049	47	1047	68	875	128	866	64
CANADA	288465	1221	11106	23494	35821	28113	255407	14334	125599	1921	534	905	629	0	125159	2163	121812	5128	75712	10556	89211	3983

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

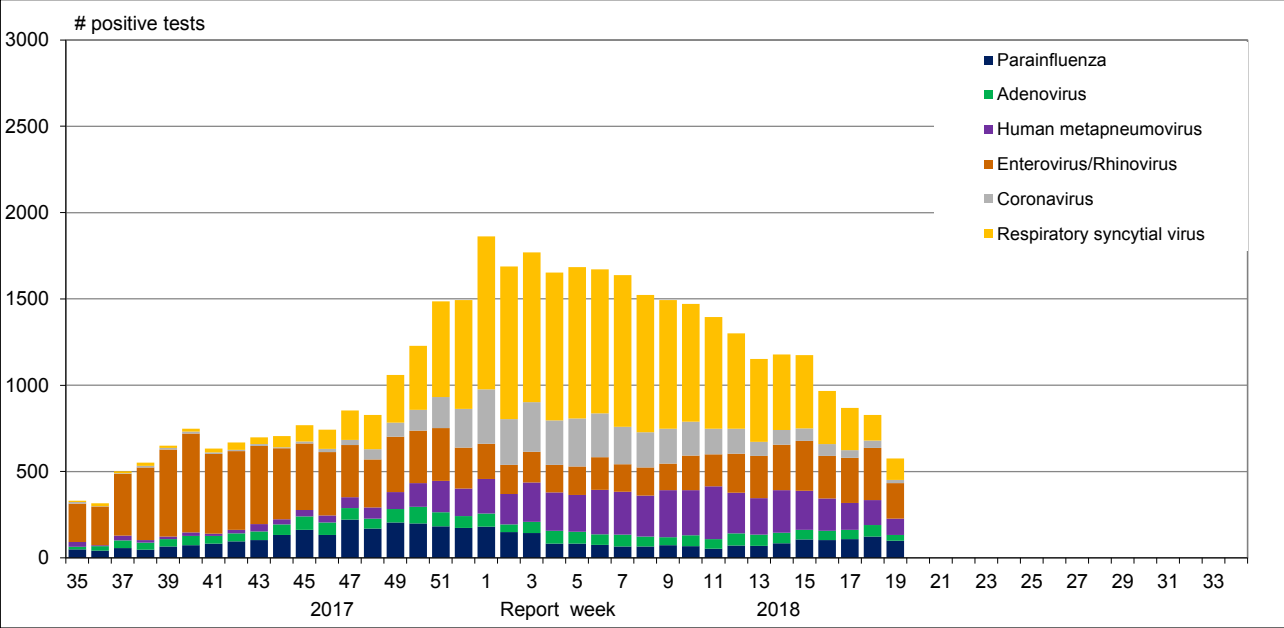


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

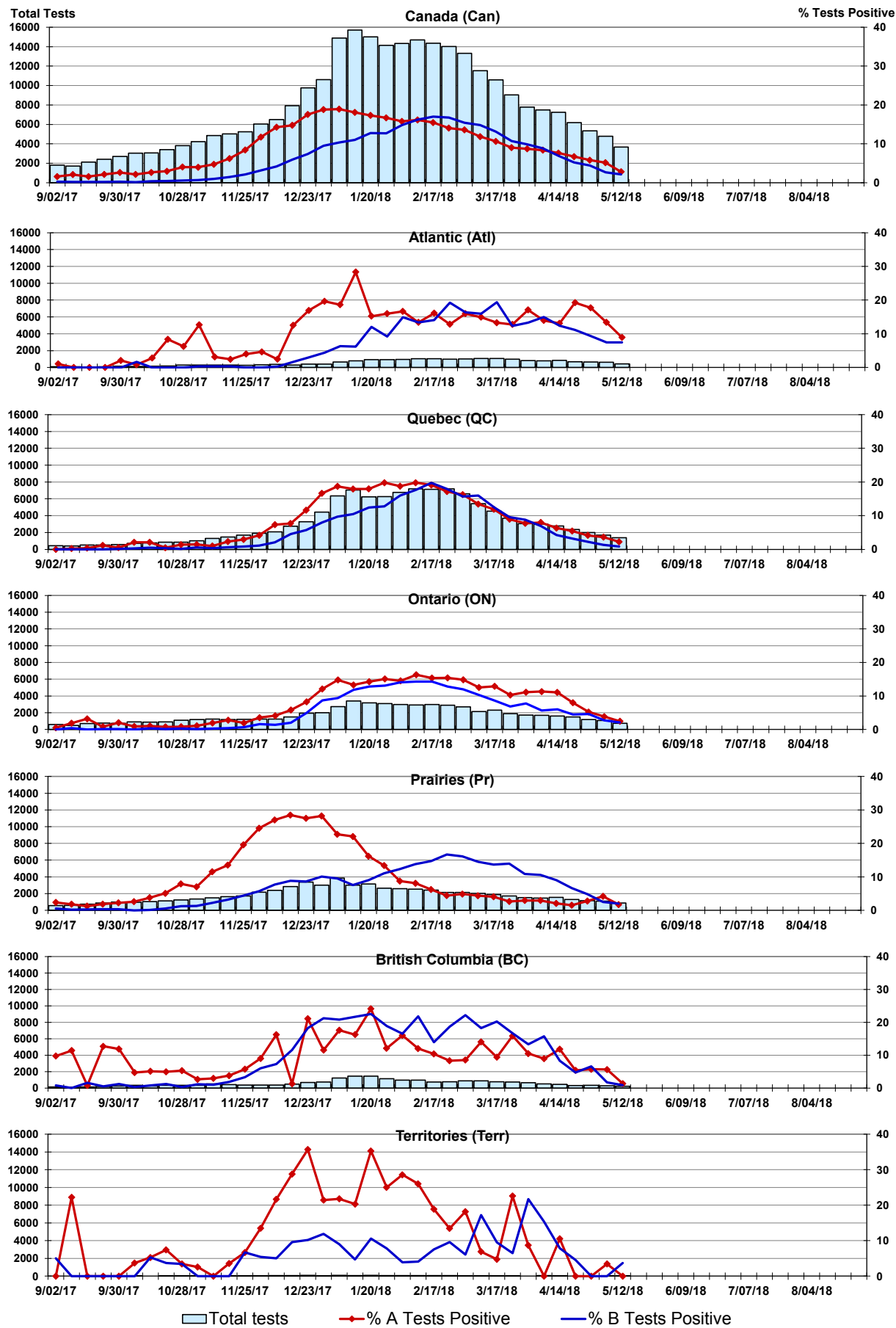


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

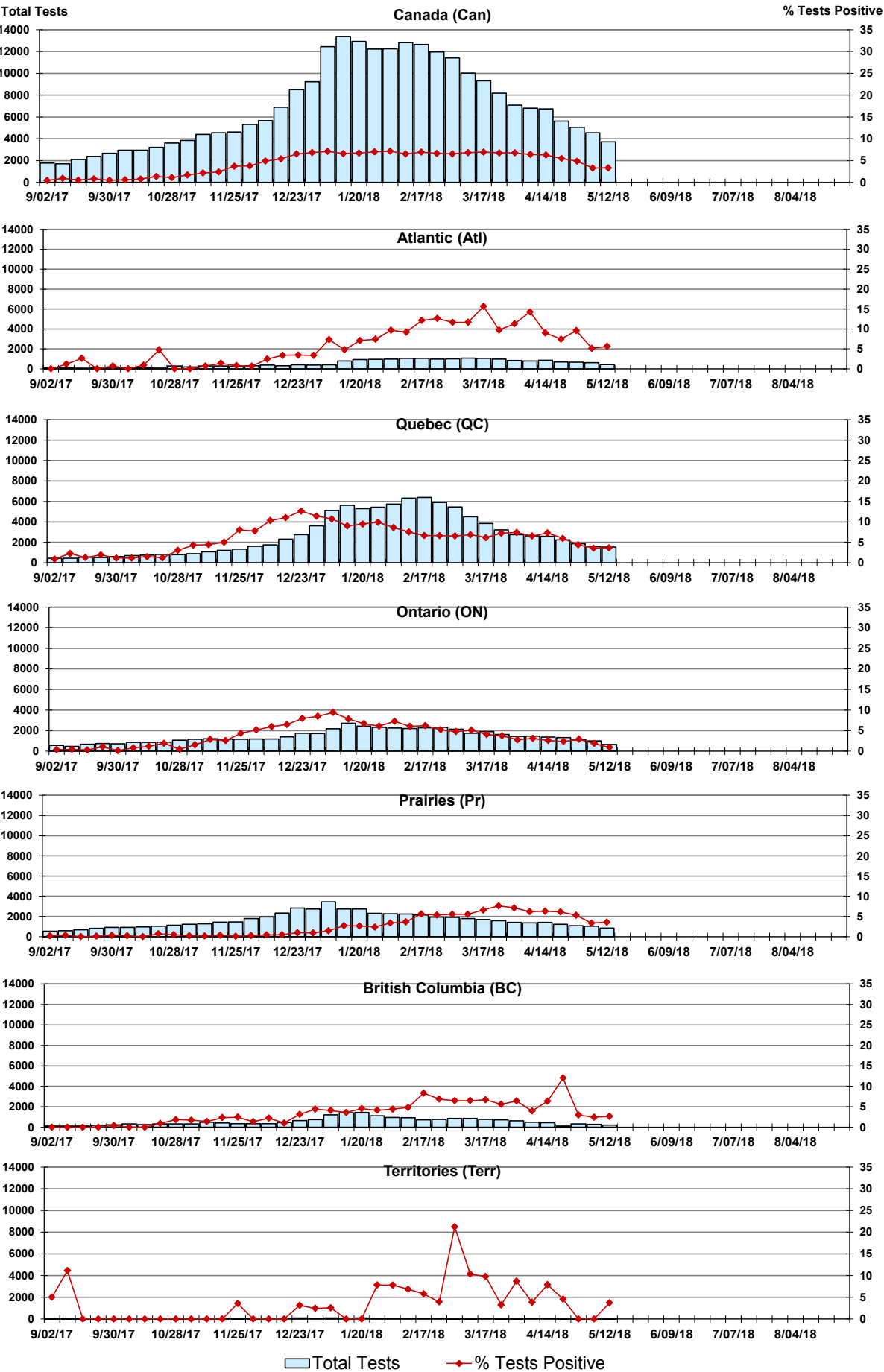


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

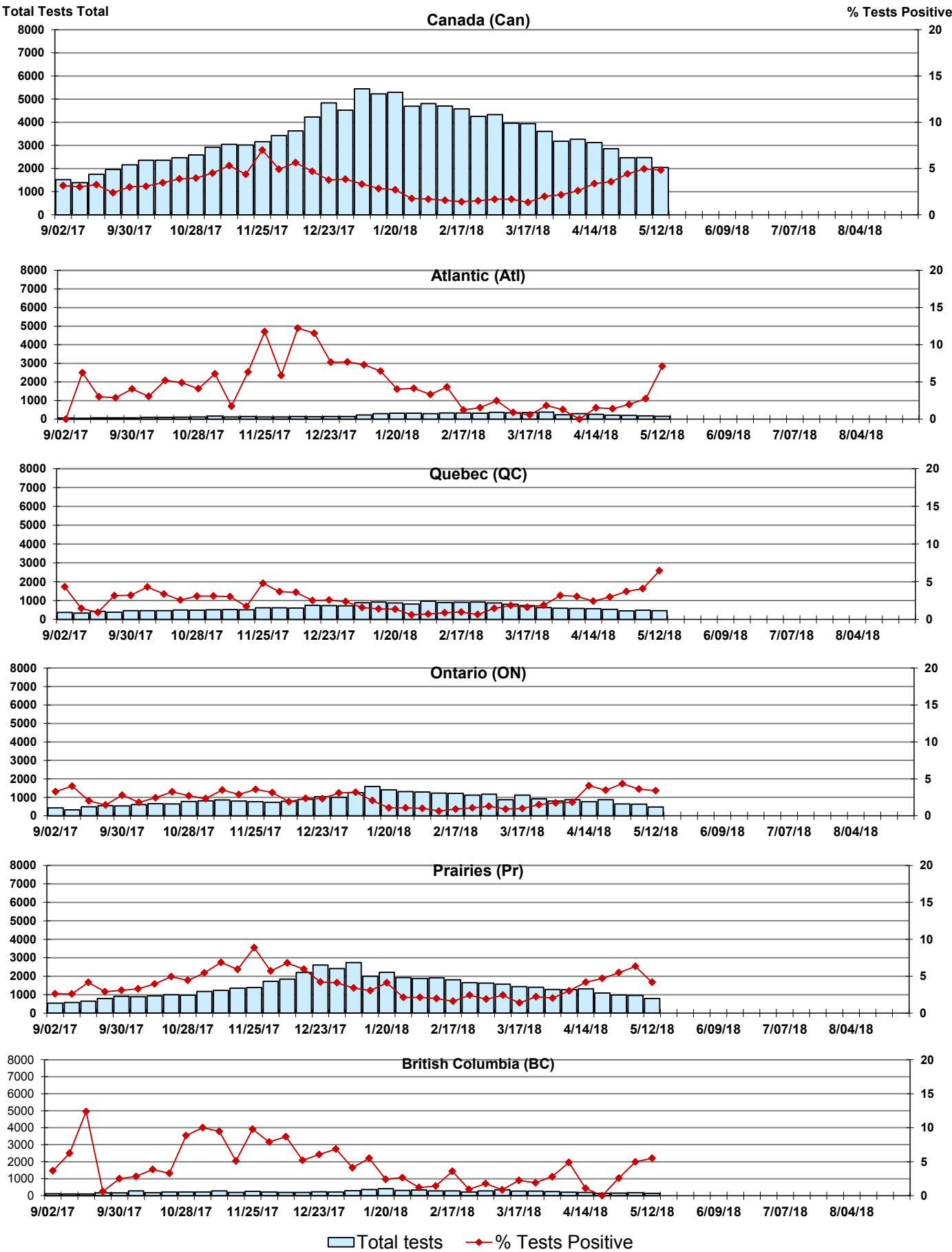


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

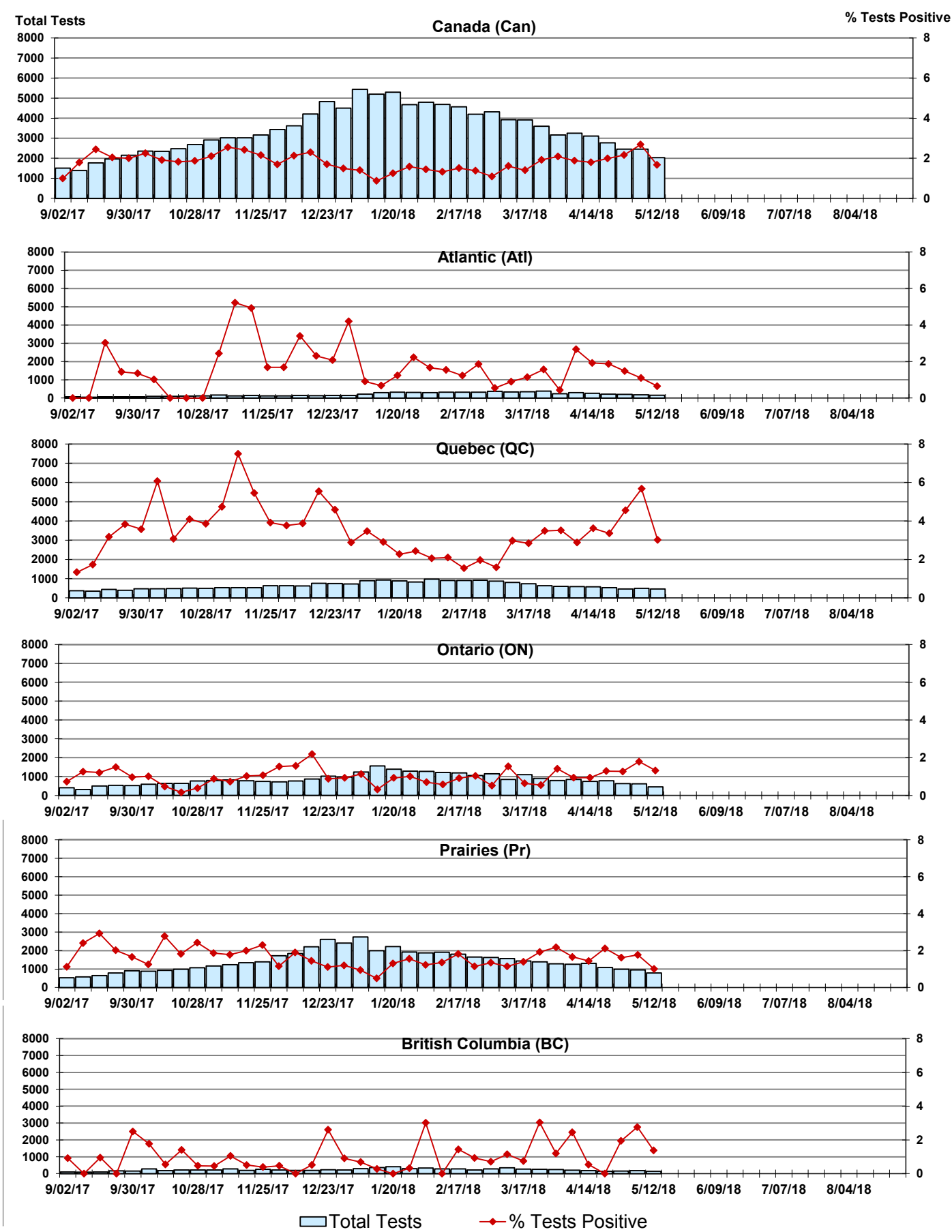


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

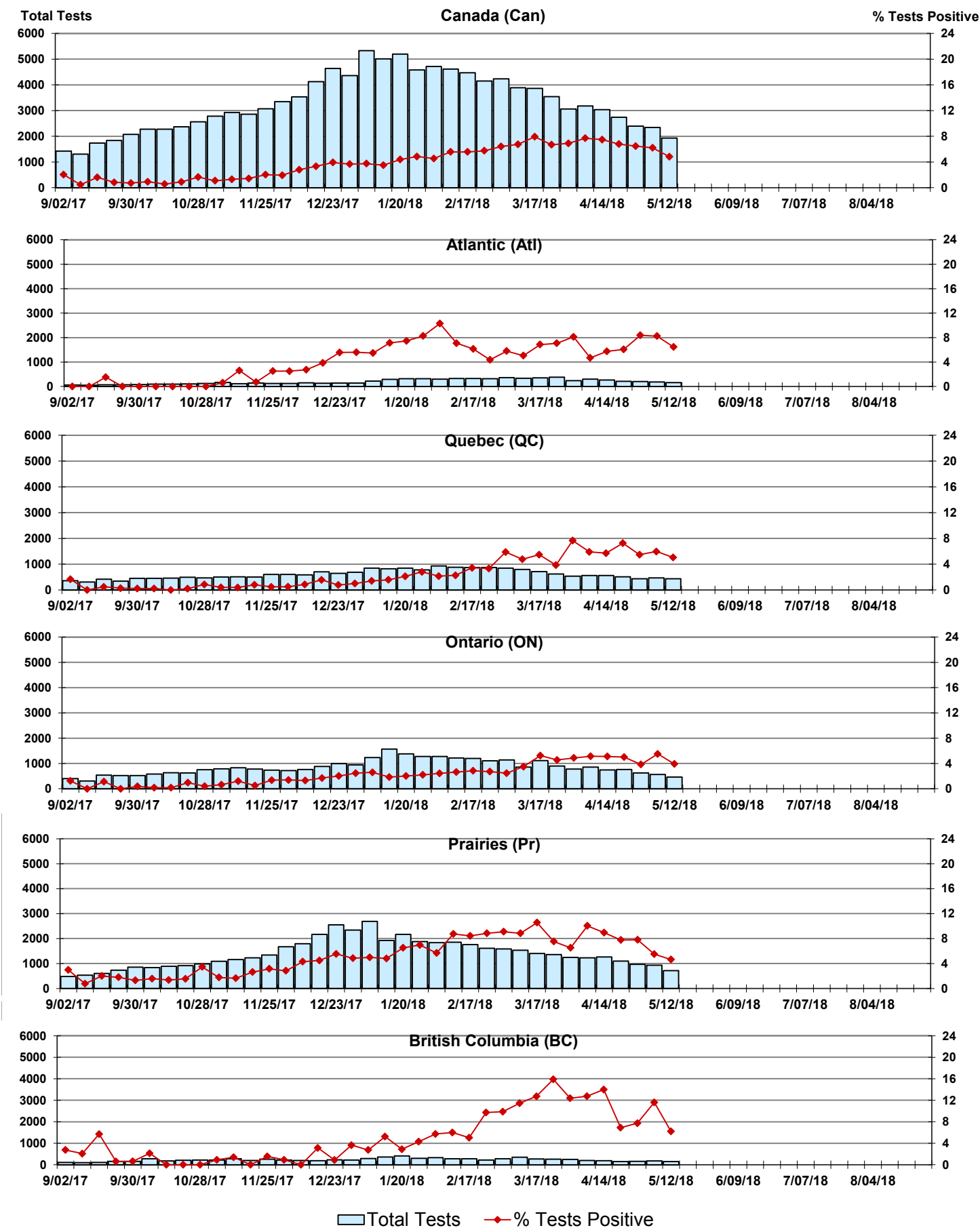


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

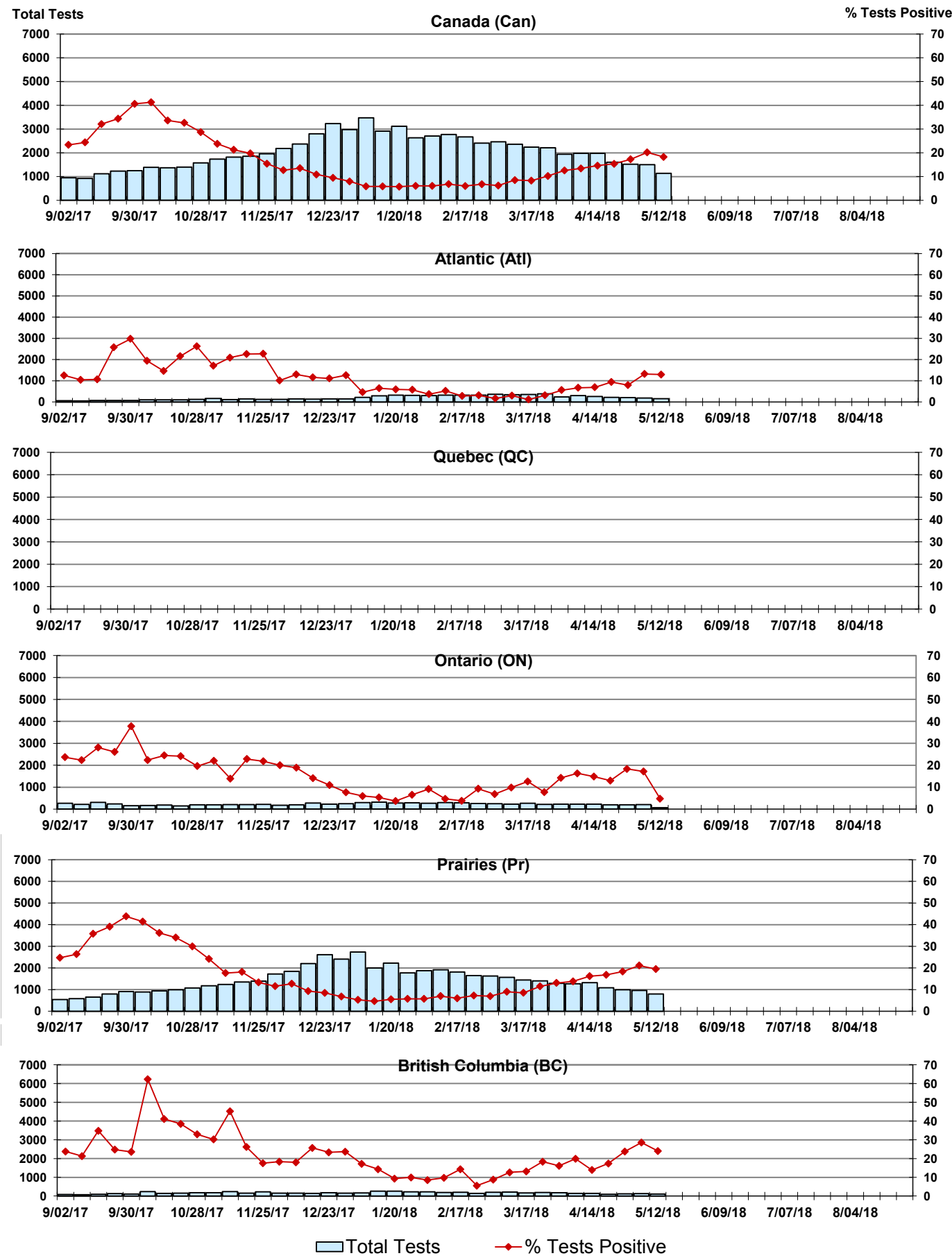
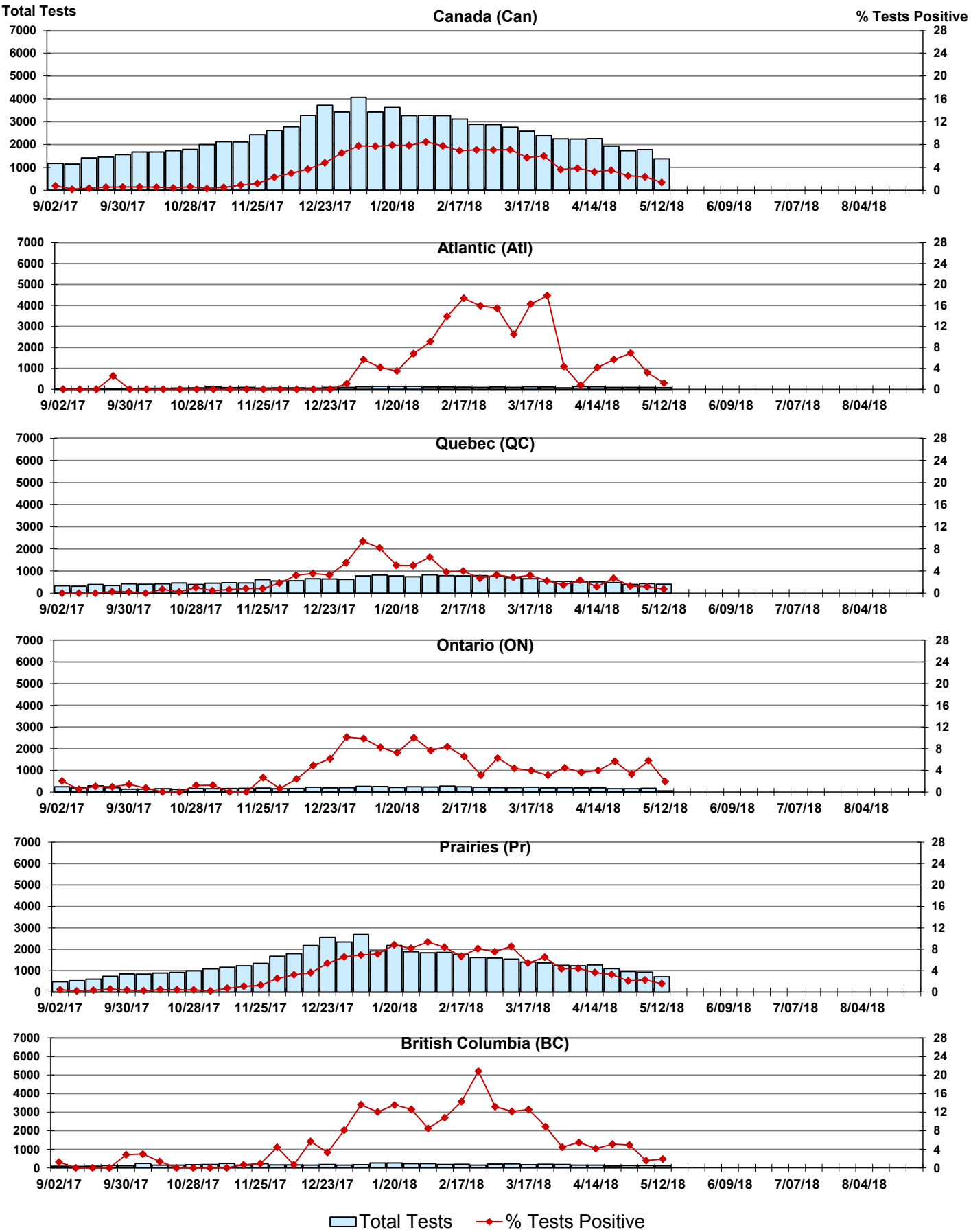


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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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