

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 27 - ending July 7, 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 7, 2018 (Reporting Week 201827)

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	33	0	0	0	0	0	33	2	33	0	0	1	0	0	33	0	33	0	33	4	N.A.	N.A.
Prince Edward Island	2	0	0	0	0	0	2	0	2	0	0	1	0	0	2	0	2	0	2	0	2	0
Nova Scotia	7	0	0	0	0	0	7	0	4	0	0	0	0	0	4	0	4	0	4	1	4	0
New Brunswick	75	0	0	0	0	0	75	2	42	0	0	1	0	0	42	3	42	0	42	5	42	0
Atlantic	117	0	0	0	0	0	117	4	81	0	0	3	0	0	81	3	81	0	81	10	48	0
Région Nord-Est	21	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	2	0	0	0	0	0	82	3	76	0	0	3	0	0	78	4	70	1	N.A.	N.A.	69	0
Centre-du-Québec	17	0	0	0	0	0	15	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	333	0	0	0	0	0	345	3	281	1	0	15	0	0	281	10	276	6	N.A.	N.A.	244	0
Ouest du Québec	10	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	22	0	0	0	0	0	22	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	405	0	0	0	0	0	494	9	357	1	0	18	0	0	359	14	346	7	N.A.	N.A.	313	0
Ottawa P.H.L.	6	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	3	0	1	0	0	0
CHEO - Ottawa	57	0	0	0	0	0	57	0	18	0	0	8	0	0	18	0	18	0	19	3	18	0
Kingston P.H.L.	3	0	0	1	1	0	3	0	3	0	0	0	0	0	3	0	3	0	2	0	0	0
UHN / Mount Sinai Hospital	129	0	0	1	1	1	129	2	12	0	0	1	0	0	0	0	12	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	125	0	1	0	1	0	124	0	125	2	0	5	0	0	124	0	115	1	9	0	0	0
Sick Kids Hospital - Toronto	34	0	0	0	0	0	34	0	34	0	0	3	1	0	34	1	34	0	34	14	34	1
Sunnybrook & Women's College HSC	35	0	0	0	0	0	35	0	35	0	0	2	0	0	35	0	35	0	35	8	35	0
Sault Ste. Marie P.H.L.	1	0	0	0	0	0	1	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0
Timmins 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
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.	20	0	0	0	0	0	20	0	20	0	0	0	0	0	20	0	17	0	3	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.	8	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	3	0	2	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.	30	0	0	0	0	0	28	0	28	0	0	0	0	0	28	0	28	0	0	0	0	0
Peterborough P.H.L.	16	0	0	0	0	0	12	0	12	0	0	0	0	0	12	0	12	0	0	0	0	0
Province of Ontario	472	0	1	2	3	1	460	2	305	2	0	20	1	0	292	1	287	1	107	25	87	1
Manitoba	73	0	0	0	0	0	73	1	62	0	0	3	1	0	62	2	25	1	62	11	25	0
Regina	112	0	0	0	0	0	112	0	112	1	1	11	0	0	112	2	112	0	112	40	112	0
Saskatoon	47	0	0	0	0	0	47	0	47	0	0	3	0	0	47	1	47	0	47	13	47	0
Province of Saskatchewan	159	0	0	0	0	0	159	0	159	1	1	14	0	0	159	3	159	0	159	53	159	0
Province of Alberta	275	0	0	1	1	0	254	0	254	2	3	15	2	0	254	6	254	2	254	56	254	2
Prairies	507	0	0	1	1	0	486	1	475	3	4	32	3	0	475	11	438	3	475	120	438	2
British Columbia	133	0	0	0	0	0	133	0	99	1	1	5	3	0	99	2	99	2	78	25	78	0
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	4	0	0	0	0	0	4	0	4	0	0	1	0	0	4	0	4	0	4	2	4	0
Nunavut	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	5	1	5	0
Territories	9	0	0	0	0	0	9	0	9	0	0	1	0	0	9	0	9	0	9	3	9	0
CANADA	1643	0	1	3	4	1	1699	16	1326	7	5	79	7	0	1315	31	1260	13	750	183	973	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 7, 2018 (Reporting Weeks 201735-201827)

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	4514	0	3	476	479	436	4514	240	4514	98	20	57	0	0	4514	48	4515	239	4514	257	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	4215	0	0	563	563	302	4267	540	590	5	1	7	1	0	590	9	590	35	590	91	590	17
New Brunswick	11982	36	249	1428	1713	1282	11550	779	2985	26	40	49	15	0	2985	83	2985	142	2985	383	2985	154
Atlantic	22024	44	386	2471	2901	2191	21676	1735	8178	130	61	114	18	0	8178	144	8179	421	8178	749	3664	178
Région Nord-Est	13856	0	0	1846	1846	1404	11932	872	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16565	0	0	2622	2622	2076	16426	1354	3538	44	2	42	19	0	3623	124	3054	37	N.A.	N.A.	2974	26
Centre-du-Québec	19756	0	0	2813	2813	2657	15721	1416	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	49309	0	0	5081	5081	3814	44042	2658	23331	214	39	376	55	0	23503	811	22547	647	N.A.	N.A.	20697	604
Ouest du Québec	13215	0	0	1886	1886	1535	8711	753	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	9369	0	0	1262	1262	865	9227	639	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	122070	0	0	15510	15510	12351	106059	7692	26869	258	41	418	74	0	27126	935	25601	684	N.A.	N.A.	23671	630
Ottawa P.H.L.	985	4	122	57	183	143	557	12	557	6	1	4	0	0	557	4	530	15	46	6	10	1
CHEO - Ottawa	8905	0	0	795	795	567	8905	711	944	13	1	36	9	0	971	31	1032	24	975	220	974	48
Kingston P.H.L.	1111	4	103	39	146	93	830	27	830	9	0	8	1	0	830	5	767	17	154	7	22	0
UHN / Mount Sinai Hospital	12675	0	2	630	632	567	12675	411	781	7	2	22	8	0	0	0	740	15	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	17079	174	1576	138	1888	1170	13488	270	13490	114	13	145	1	0	13488	123	13050	218	893	48	234	5
Sick Kids Hospital - Toronto	3340	20	59	122	201	177	2692	202	2692	30	9	66	34	0	2692	60	2692	157	2692	666	2692	141
Sunnybrook & Women's College HSC	3235	14	209	3	226	177	3235	75	3235	22	9	30	10	0	3235	1	3235	100	3235	276	3235	102
Sault Ste. Marie P.H.L.	639	1	98	8	107	52	474	11	474	9	0	2	1	0	474	0	461	3	26	3	12	0
Timmins P.H.L.	493	7	84	8	99	36	358	23	358	1	0	3	0	0	358	2	349	2	23	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.	4939	28	456	112	596	645	3390	193	3390	40	3	39	3	0	3390	17	3284	74	291	21	63	0
Orillia P.H.L.	1584	8	153	65	226	134	1149	53	1149	19	0	5	0	0	1149	10	1128	31	52	4	11	0
Thunder Bay P.H.L.	1174	2	196	22	220	94	841	27	841	12	2	6	0	0	841	6	828	17	17	0	3	0
Sudbury P.H.L.	1235	3	118	7	128	95	1001	11	1001	11	2	2	0	0	1000	7	956	3	64	1	13	0
Hamilton P.H.L.	3619	29	206	97	332	343	2742	132	2741	33	5	30	3	0	2741	30	2661	52	204	21	64	2
Peterborough P.H.L.	1890	6	99	52	157	126	1537	44	1537	21	0	5	0	0	1537	7	1527	34	58	12	44	2
Province of Ontario	67454	300	3481	2571	6352	4836	58425	2575	35434	371	51	415	81	0	34549	336	34471	818	9491	1447	8082	324
Manitoba	12113	22	378	737	1137	640	11861	580	5060	67	15	51	14	0	5060	70	2646	152	5060	539	2646	97
Regina	14277	70	1163	61	1294	1335	14277	865	14277	376	164	155	64	0	14277	243	14277	744	14277	2626	14277	832
Saskatoon	5934	19	0	391	410	348	5934	255	5833	34	6	39	4	0	5934	50	5934	78	5784	490	5934	99
Province of Saskatchewan	20211	89	1163	452	1704	1683	20211	1120	20110	410	170	194	68	0	20211	293	20211	822	20061	3116	20211	931
Province of Alberta	40493	279	4004	1427	5710	3396	33039	0	33039	551	218	491	316	0	33039	565	33039	1998	33039	4954	33039	1447
Prairies	72817	390	5545	2616	8551	5719	65111	1700	58209	1028	403	736	398	0	58310	928	55896	2972	58160	8609	55896	2475
British Columbia	22207	518	1520	446	2484	3021	22026	888	9368	166	56	114	86	0	9368	114	9368	492	6828	1531	6828	402
Yukon	454	7	48	21	76	43	454	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	763	4	126	0	130	56	757	0	757	11	2	3	24	0	757	28	757	52	757	98	757	52
Nunavut	424	6	40	0	46	6	411	8	412	7	4	14	7	0	411	29	409	26	237	68	228	14
Territories	1641	17	214	21	252	105	1622	54	1169	18	6	17	31	0	1168	57	1166	78	994	166	985	66
CANADA	308213	1269	11146	23635	36050	28223	274919	14644	139227	1971	618	1814	688	0	138699	2514	134681	5465	83651	12502	99126	4075

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

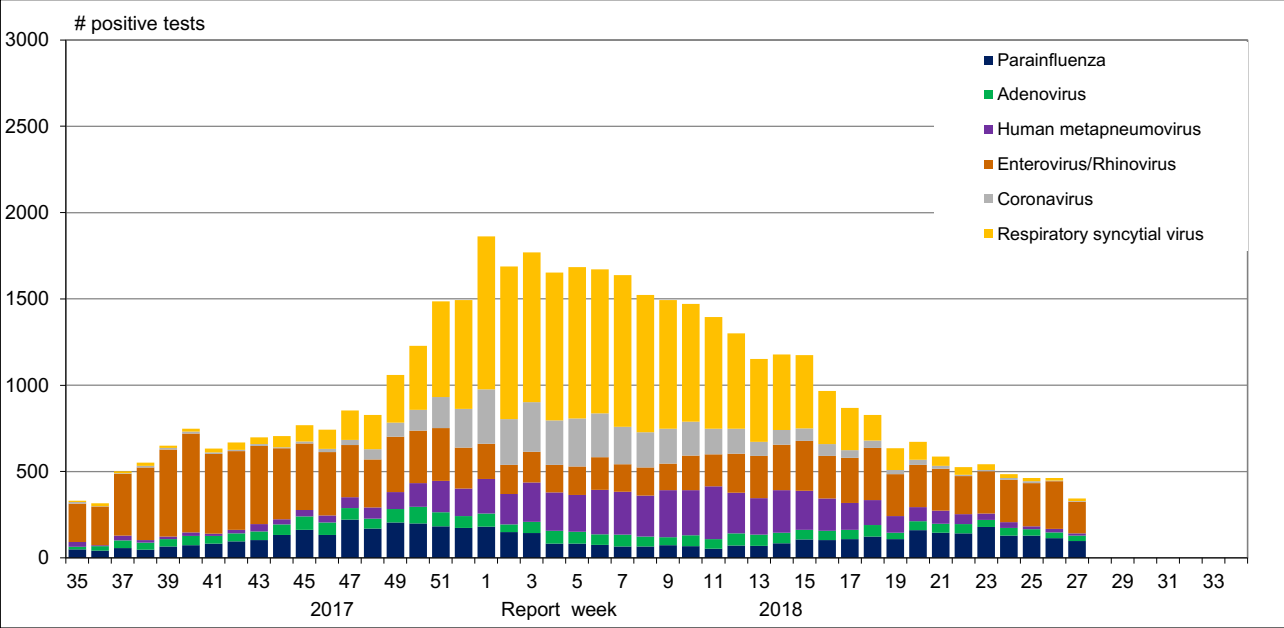


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

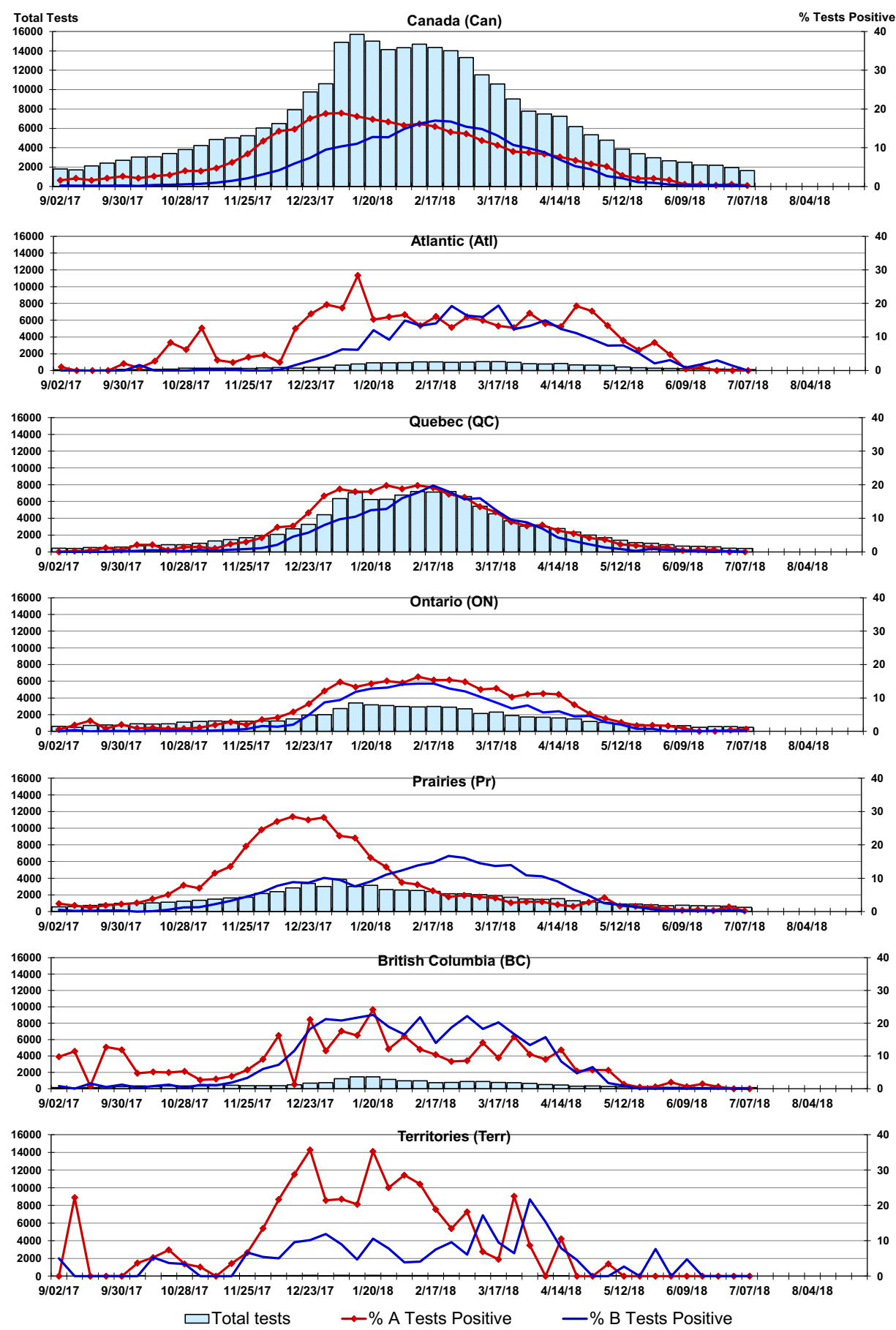


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

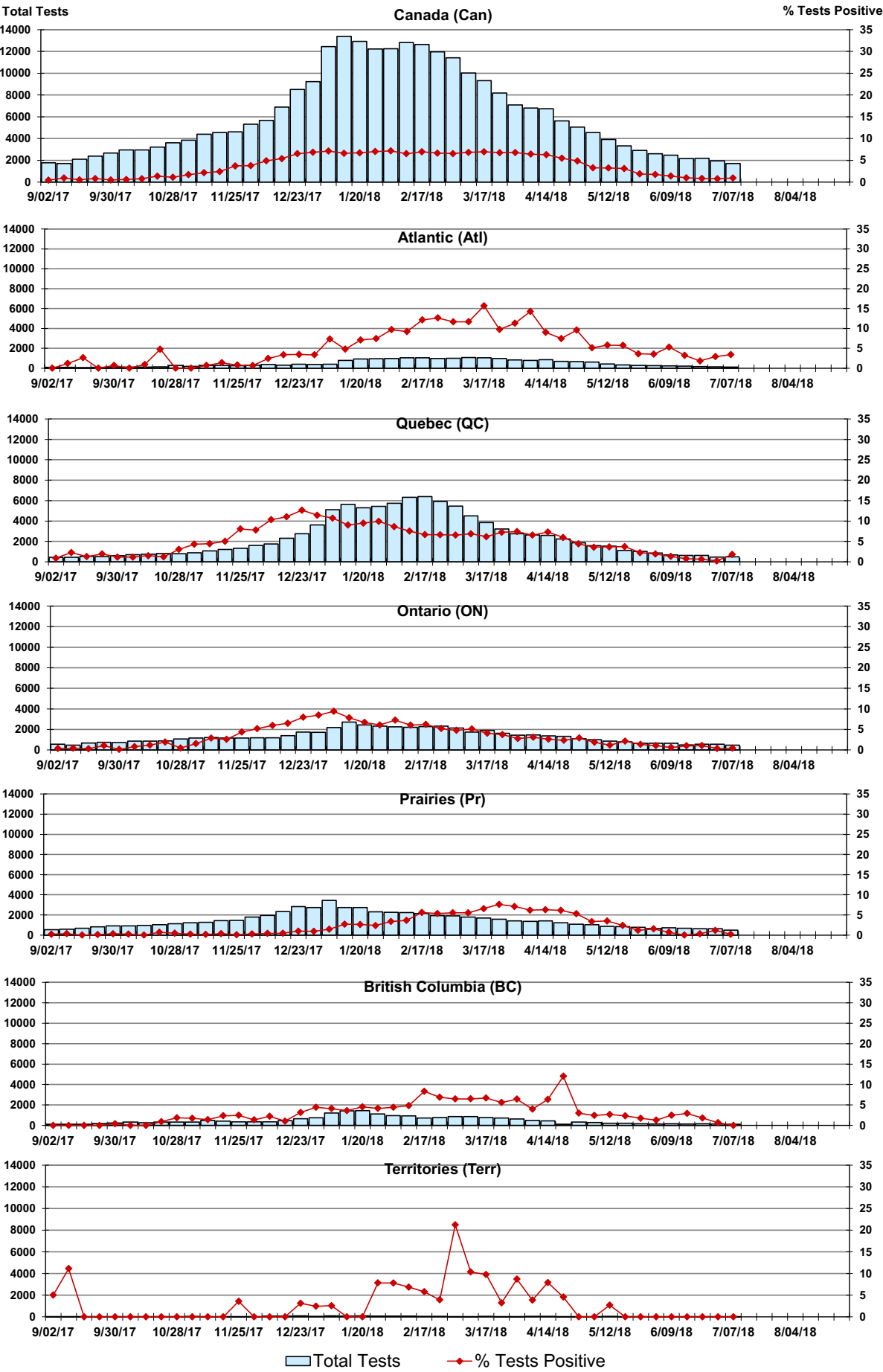


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

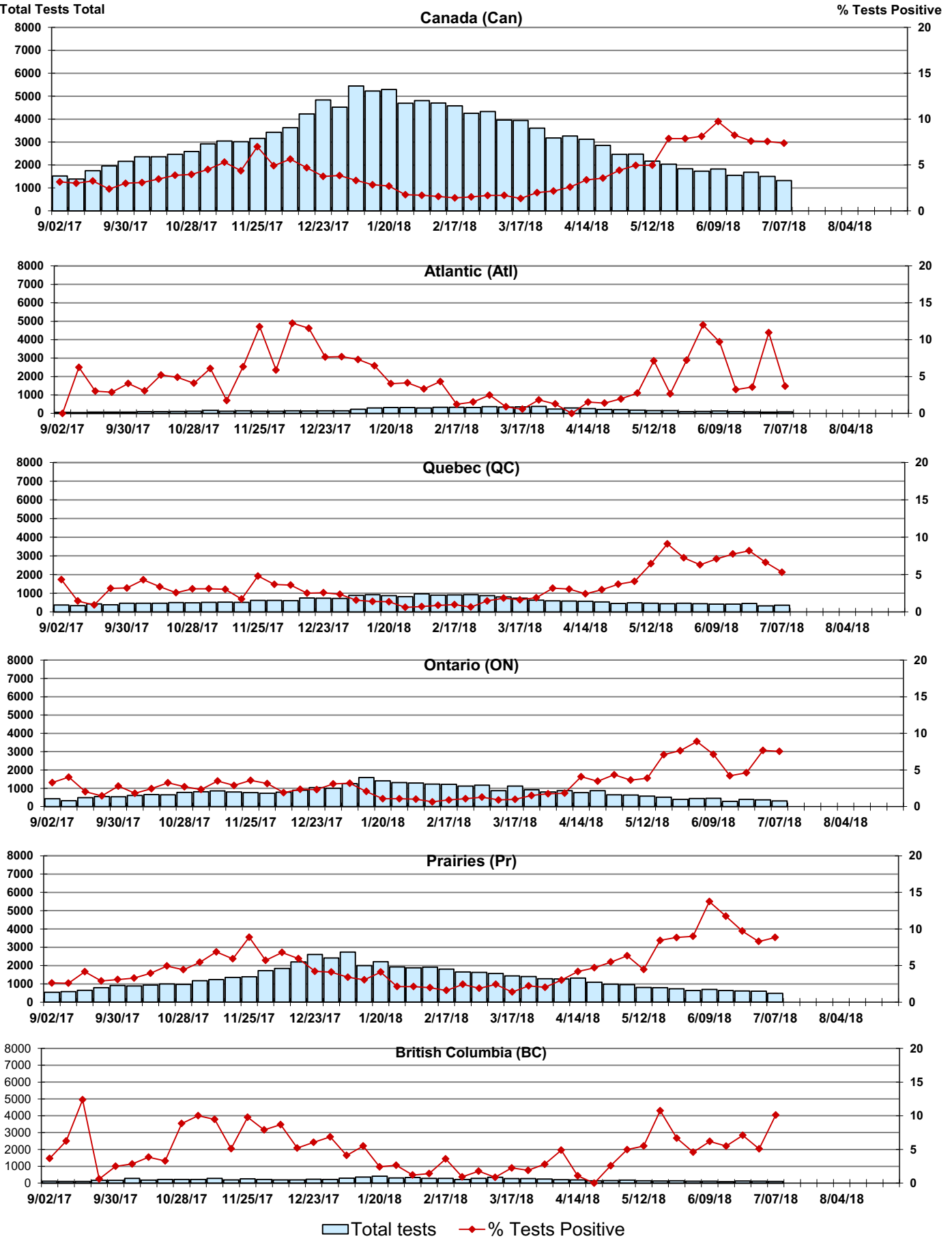


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

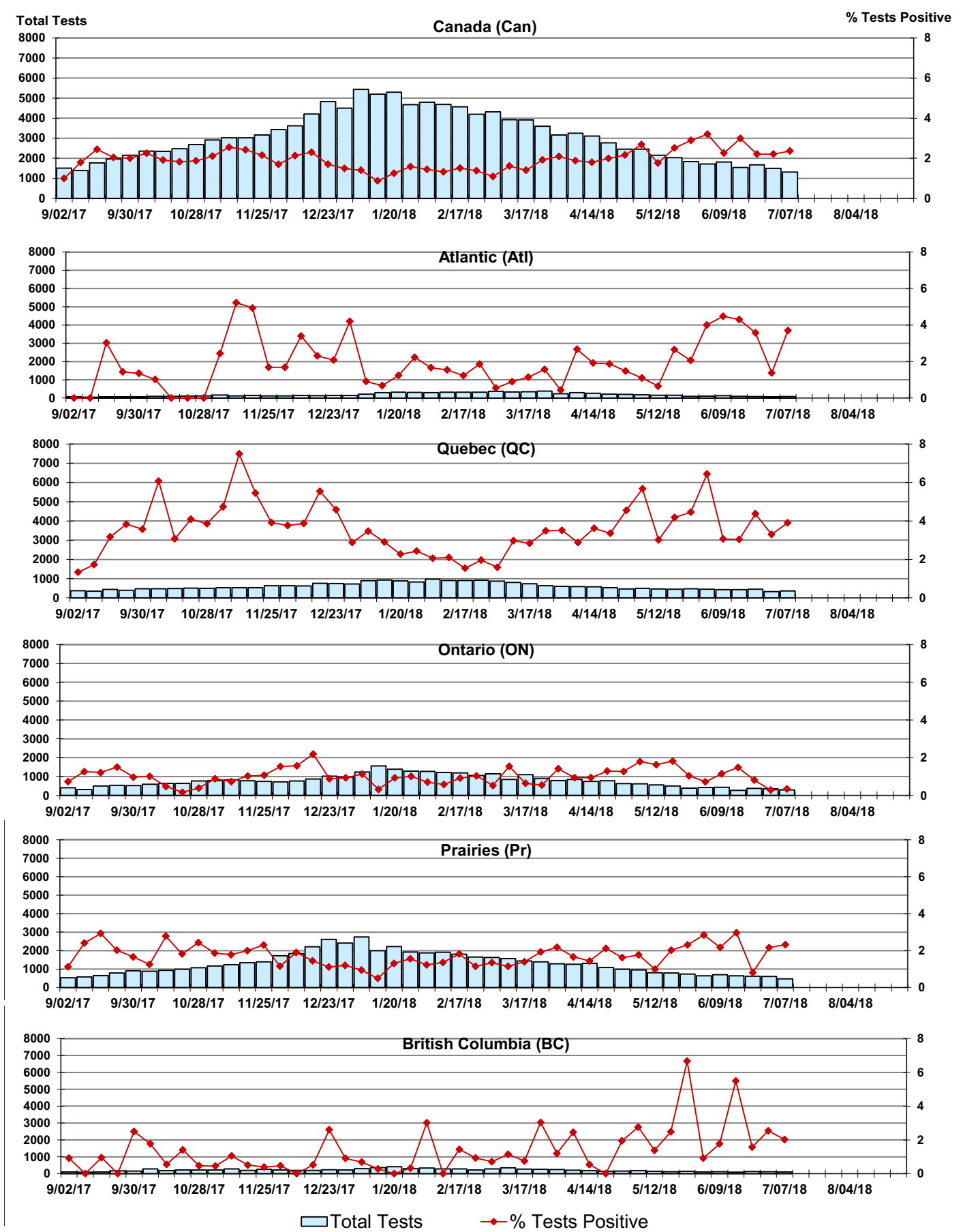


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

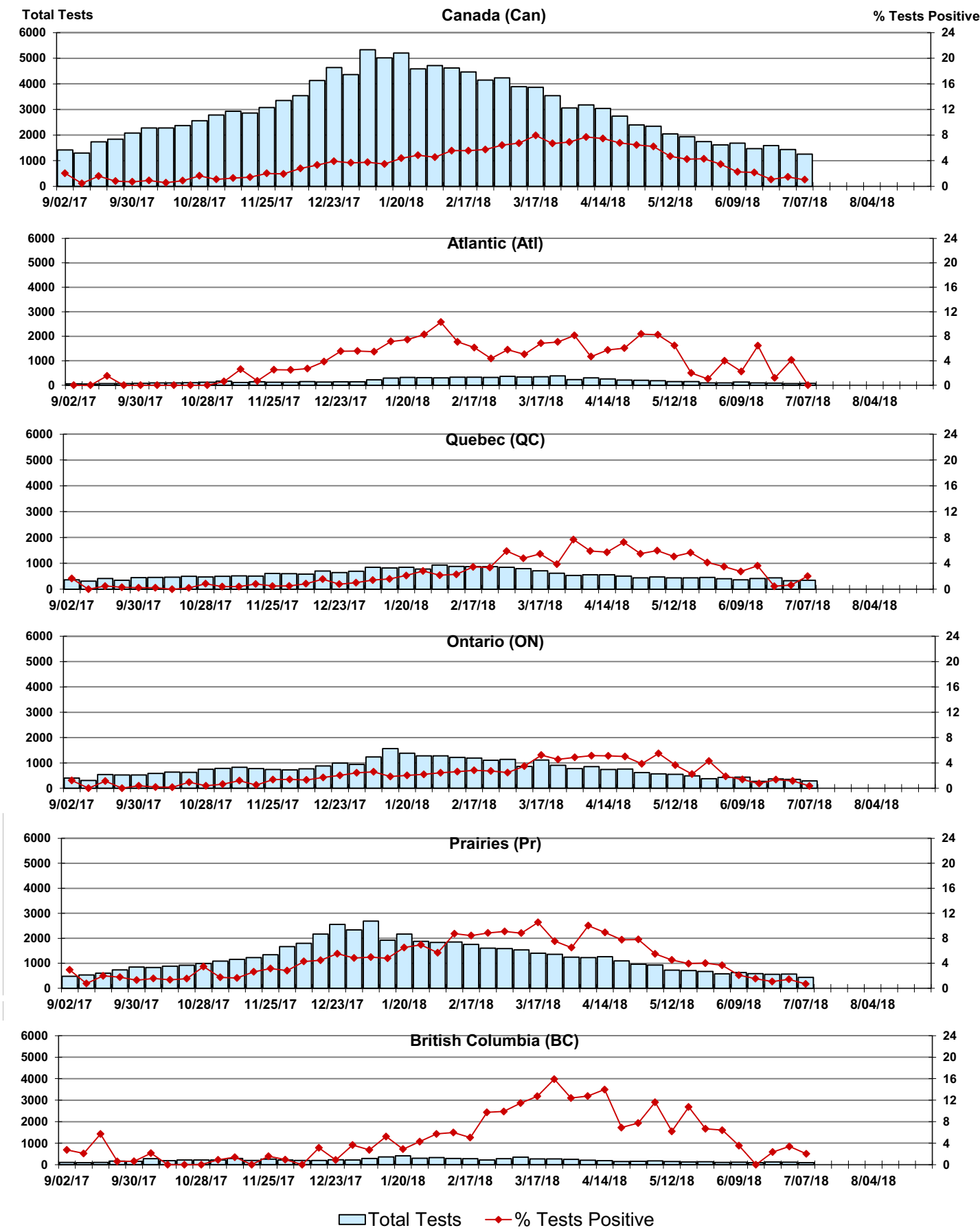


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

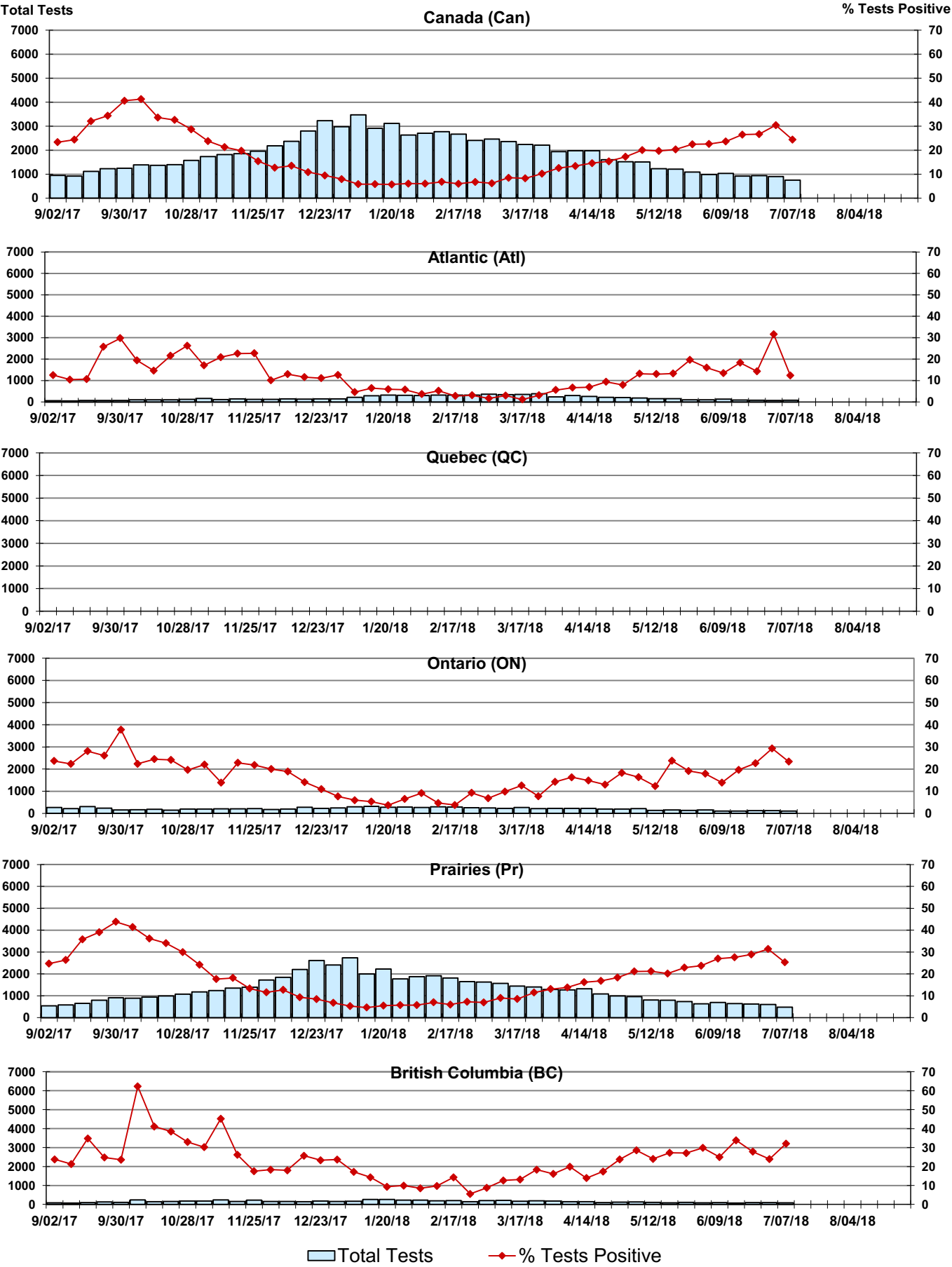
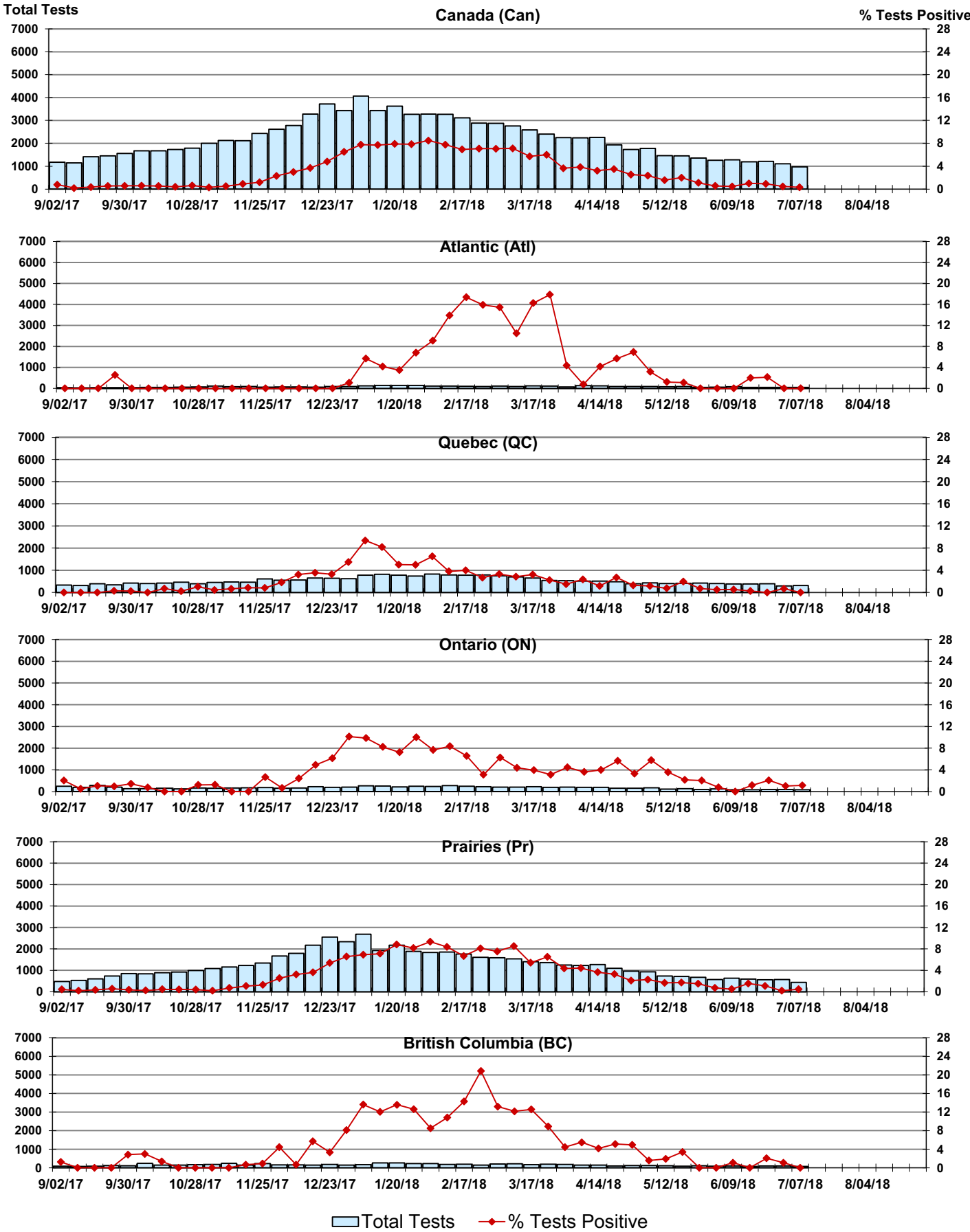


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.