

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 13 - ending March 31, 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 March 31, 2018 (Reporting Week 201813)

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	165	0	0	27	27	25	165	12	165	1	0	0	0	0	165	1	165	8	165	5	N.A.	N.A.
Prince Edward Island	62	0	14	1	15	6	62	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	200	0	0	33	33	31	200	22	10	0	0	0	0	0	10	0	10	1	10	0	10	0
New Brunswick	402	2	5	59	66	48	405	51	59	0	1	1	0	0	59	0	59	10	59	8	59	3
Atlantic	829	2	19	120	141	110	832	94	234	1	1	1	0	0	234	1	234	19	234	13	69	3
Région Nord-Est	389	0	0	34	34	25	339	25	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	319	0	0	22	22	37	274	31	74	0	0	0	0	0	75	1	65	0	N.A.	N.A.	63	1
Centre-du-Québec	555	0	0	48	48	54	462	43	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	948	0	0	68	68	85	898	51	362	1	0	8	0	0	362	13	353	32	N.A.	N.A.	353	5
Ouest du Québec	348	0	0	39	39	36	267	17	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	289	0	0	15	15	27	289	16	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2848	0	0	226	226	264	2529	183	436	1	0	8	0	0	437	14	418	32	N.A.	N.A.	416	6
Ottawa P.H.L.	24	1	2	2	5	7	7	1	7	0	0	0	0	0	7	1	7	2	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.	29	0	4	1	5	3	13	1	13	0	0	0	0	0	13	0	10	0	3	0	0	0
UHN / Mount Sinai Hospital	331	0	0	13	13	21	331	4	12	0	0	0	0	0	0	0	12	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	412	2	49	8	59	31	307	0	307	0	0	4	0	0	307	4	303	20	4	0	0	0
Sick Kids Hospital - Toronto	90	1	2	9	12	3	57	1	57	0	0	1	0	0	57	3	57	2	57	18	57	4
Sunnybrook & Women's College HSC	104	2	10	0	12	6	104	2	104	1	1	1	0	0	104	0	104	3	104	3	104	4
Sault Ste. Marie P.H.L.	14	0	2	0	2	4	7	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
Timmins P.H.L.	13	0	1	1	2	1	10	0	10	0	0	0	0	0	10	0	10	0	0	0	0	0
St. Joseph's - London	143	0	0	10	10	3	143	5	35	0	1	0	0	0	35	0	35	3	15	4	15	0
London P.H.L.	123	0	10	9	19	9	85	6	85	1	0	2	0	0	85	1	84	4	1	0	0	0
Orillia P.H.L.	24	1	1	0	2	5	10	1	10	0	0	0	0	0	10	0	9	0	1	0	0	0
Thunder Bay P.H.L.	24	0	1	0	1	6	16	1	16	0	0	0	0	0	16	0	16	0	0	0	0	0
Sudbury P.H.L.	34	0	1	0	1	5	25	2	25	0	0	0	0	0	25	2	25	0	0	0	0	0
Hamilton P.H.L.	68	0	11	4	15	10	34	3	34	0	0	0	0	0	34	0	34	0	0	0	0	0
Peterborough P.H.L.	26	0	5	0	5	0	19	0	19	0	0	0	0	0	19	0	18	1	1	0	0	0
Province of Ontario	1459	7	99	57	163	114	1168	27	741	2	2	8	0	0	729	11	731	35	186	25	176	8
Manitoba	272	0	1	1	2	37	266	22	140	0	0	0	0	0	140	3	103	8	140	17	103	3
Regina	304	2	9	1	12	50	304	60	304	0	2	1	0	0	304	7	304	18	304	43	304	18
Saskatoon	178	0	0	5	5	12	178	18	178	0	0	0	0	0	178	1	178	1	178	7	178	1
Province of Saskatchewan	482	2	9	6	17	62	482	78	482	0	2	1	0	0	482	8	482	19	482	50	482	19
Province of Alberta	703	12	5	7	24	63	600	0	600	4	1	16	1	0	600	15	600	48	600	88	600	29
Prairies	1457	14	15	14	43	162	1348	100	1222	4	3	17	1	0	1222	26	1185	75	1222	155	1185	51
British Columbia	639	12	41	8	61	85	639	41	250	0	2	5	0	0	250	3	250	31	180	29	180	8
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	10	0	0	0	0	4	10	0	10	0	0	0	0	0	10	2	10	0	10	2	10	0
Nunavut	5	0	2	0	2	0	5	0	5	0	0	0	0	0	5	0	5	1	5	1	5	0
Territories	15	0	2	0	2	4	15	0	15	0	0	0	0	0	15	2	15	1	15	3	15	0
CANADA	7247	35	176	425	636	739	6531	445	2898	8	8	39	1	0	2887	57	2833	193	1837	225	2041	76

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 - March 31, 2018 (Reporting Weeks 201735-201813)

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	3464	0	3	347	350	355	3464	158	3464	97	18	34	0	0	3464	42	3465	194	3464	183	N.A.	N.A.
Prince Edward Island	1066	6	116	1	123	154	1089	164	58	1	0	0	2	0	58	4	58	1	58	8	58	6
Nova Scotia	3290	0	0	475	475	257	3320	470	423	5	1	2	1	0	423	6	423	15	423	60	423	15
New Brunswick	8490	13	207	1088	1308	945	8055	515	2106	26	34	9	13	0	2106	42	2106	106	2106	245	2106	133
Atlantic	16310	19	326	1911	2256	1711	15928	1307	6051	129	53	45	16	0	6051	94	6052	316	6051	496	2587	154
Région Nord-Est	11736	0	0	1768	1768	1335	10024	707	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	14231	0	0	2506	2506	1984	13784	1248	2547	40	1	0	19	0	2587	89	2167	11	N.A.	N.A.	2095	19
Centre-du-Québec	17245	0	0	2681	2681	2576	13736	1311	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	40102	0	0	4805	4805	3646	34951	2348	17699	197	24	99	42	0	17871	580	17164	394	N.A.	N.A.	15742	547
Ouest du Québec	11713	0	0	1782	1782	1485	7321	671	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	7791	0	0	1180	1180	817	7649	584	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	102818	0	0	14722	14722	11843	87465	6869	20246	237	25	99	61	0	20458	669	19331	405	N.A.	N.A.	17837	566
Ottawa P.H.L.	813	3	110	51	164	126	431	11	431	4	0	1	0	0	431	4	420	9	29	6	10	1
CHEO - Ottawa	6876	0	0	695	695	490	6875	629	665	12	1	2	8	0	692	22	747	19	691	146	691	37
Kingston P.H.L.	919	4	98	35	137	87	648	26	648	9	0	1	1	0	648	5	602	11	113	7	22	0
UHN / Mount Sinai Hospital	9812	0	2	565	567	526	9812	355	568	7	2	0	8	0	0	0	546	11	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	13587	138	1393	116	1647	1070	10399	255	10399	105	9	25	1	0	10399	90	10109	138	663	48	234	5
Sick Kids Hospital - Toronto	2661	13	54	120	187	169	2039	192	2039	29	3	17	27	0	2039	46	2039	122	2039	463	2039	116
Sunnybrook & Women's College HSC	2491	11	198	3	212	161	2491	68	2491	22	9	5	10	0	2491	0	2491	51	2491	177	2491	87
Sault Ste. Marie P.H.L.	542	1	90	8	99	45	390	8	390	8	0	0	1	0	390	0	381	2	22	3	12	0
Timmins P.H.L.	402	6	76	6	88	34	280	16	280	1	0	0	0	0	280	1	272	1	18	1	2	0
St. Joseph's - London	3974	0	0	363	363	402	3974	351	1146	24	2	3	11	0	1099	27	1072	42	611	132	561	19
London P.H.L.	4189	21	420	103	544	625	2764	176	2764	37	3	16	3	0	2764	12	2689	57	238	21	63	0
Orillia P.H.L.	1332	7	135	51	193	110	962	49	962	18	0	2	0	0	962	6	950	21	39	4	11	0
Thunder Bay P.H.L.	1043	0	195	19	214	75	743	23	743	12	2	3	0	0	743	5	732	13	14	0	3	0
Sudbury P.H.L.	1027	3	113	5	121	79	815	10	815	8	2	0	0	0	814	6	783	0	51	1	13	0
Hamilton P.H.L.	3075	25	187	87	299	326	2265	128	2264	32	5	9	3	0	2264	24	2200	44	170	21	64	2
Peterborough P.H.L.	1615	5	86	44	135	121	1298	40	1298	21	0	2	0	0	1298	5	1293	26	52	12	44	2
Province of Ontario	54358	237	3157	2271	5665	4446	46186	2337	27903	349	38	86	73	0	27314	253	27326	567	7241	1042	6260	269
Manitoba	9869	9	374	737	1120	542	9646	490	3589	58	13	2	10	0	3589	53	1847	90	3589	325	1847	79
Regina	11573	48	1152	60	1260	1195	11573	580	11573	367	106	23	39	0	11573	191	11573	640	11573	1888	11573	786
Saskatoon	4782	0	0	374	374	320	4782	206	4681	32	3	8	3	0	4782	39	4782	66	4632	387	4782	90
Province of Saskatchewan	16355	48	1152	434	1634	1515	16355	786	16254	399	109	31	42	0	16355	230	16355	706	16205	2275	16355	876
Province of Alberta	33353	191	3976	1390	5557	3150	26696	0	26696	526	166	141	261	0	26696	425	26696	1575	26696	3547	26696	1281
Prairies	59577	248	5502	2561	8311	5207	52697	1276	46539	983	288	174	313	0	46640	708	44898	2371	46490	6147	44898	2236
British Columbia	18814	471	1431	419	2321	2860	18815	778	7437	163	49	39	74	0	7437	71	7437	345	5377	1174	5377	366
Yukon	379	7	44	21	72	42	379	37	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	585	4	125	0	129	44	579	0	579	11	0	1	18	0	579	12	579	35	579	70	579	46
Nunavut	342	6	40	0	46	3	329	8	330	7	4	13	2	0	329	22	327	19	156	37	147	8
Territories	1306	17	209	21	247	89	12287	45	909	18	4	14	20	0	908	34	906	54	735	107	726	54
CANADA	253183	992	10625	21905	33522	26156	222378	12612	109085	1879	457	457	557	0	108808	1829	105950	4058	65894	8966	77685	3645

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

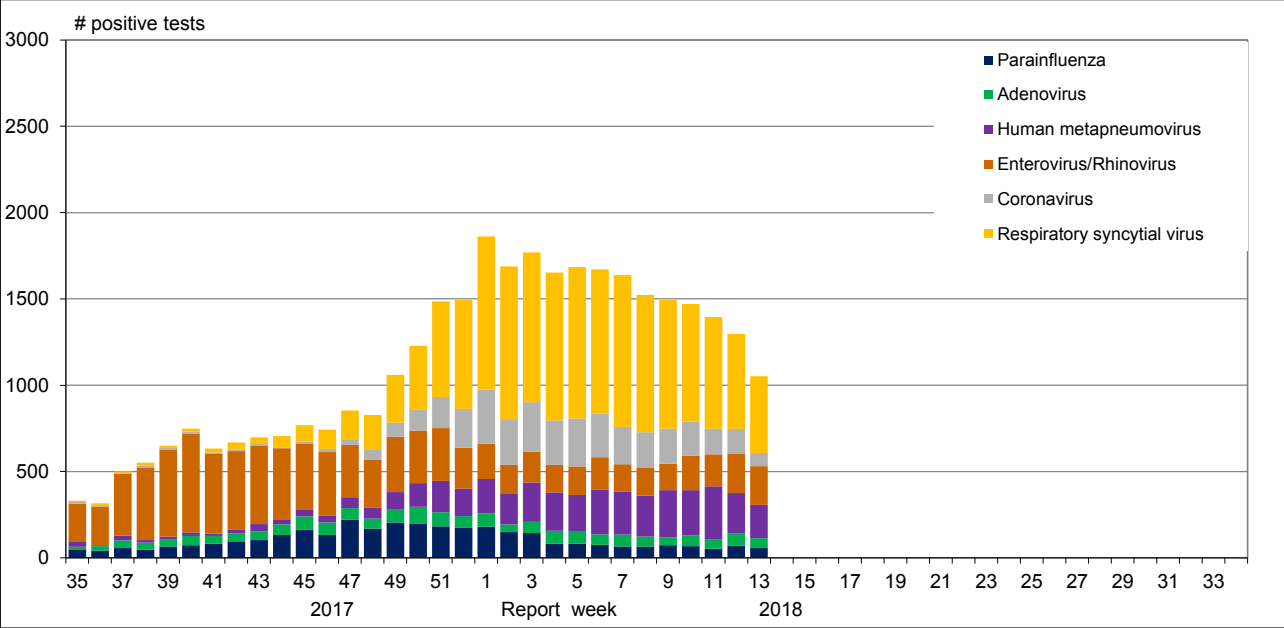


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

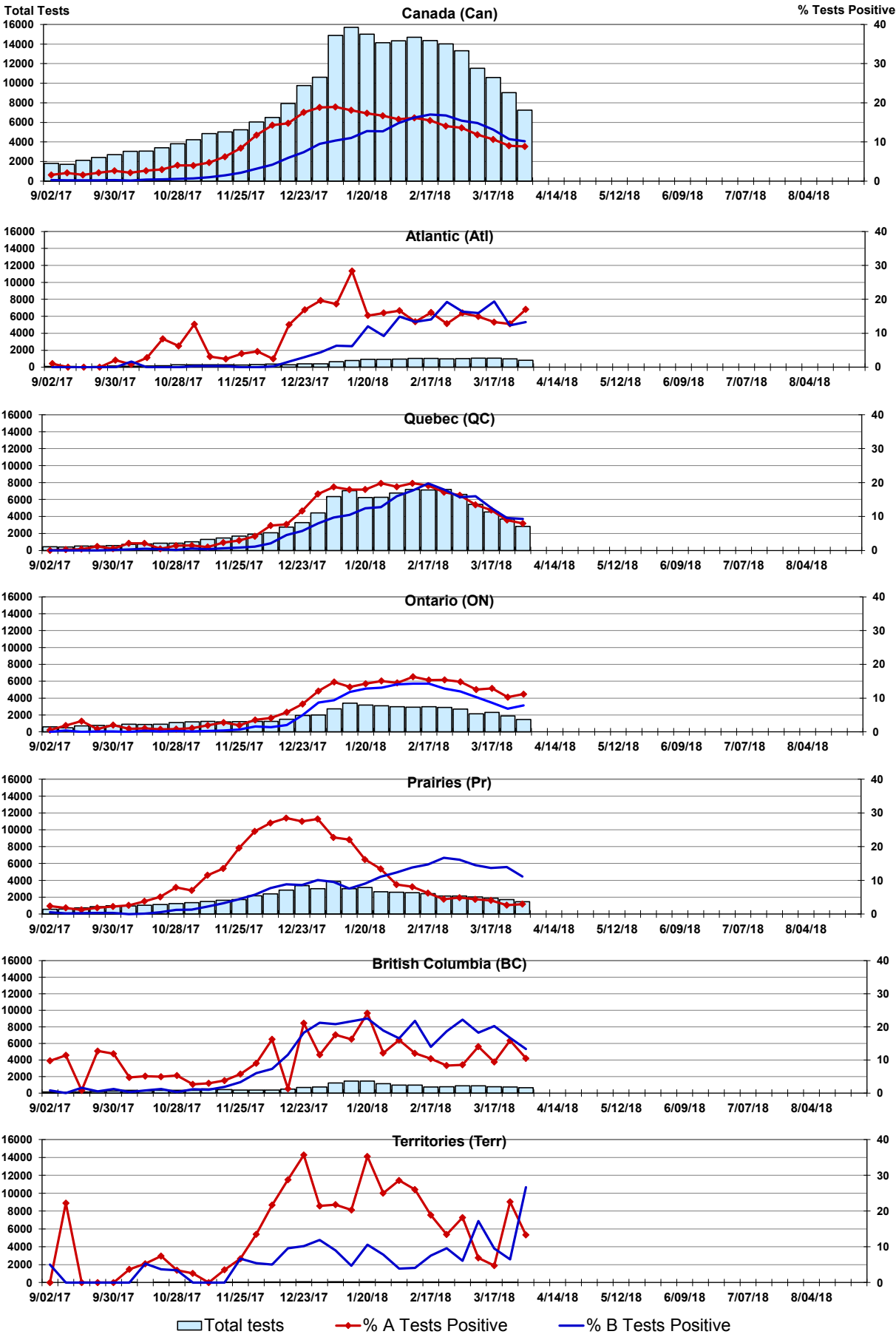


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

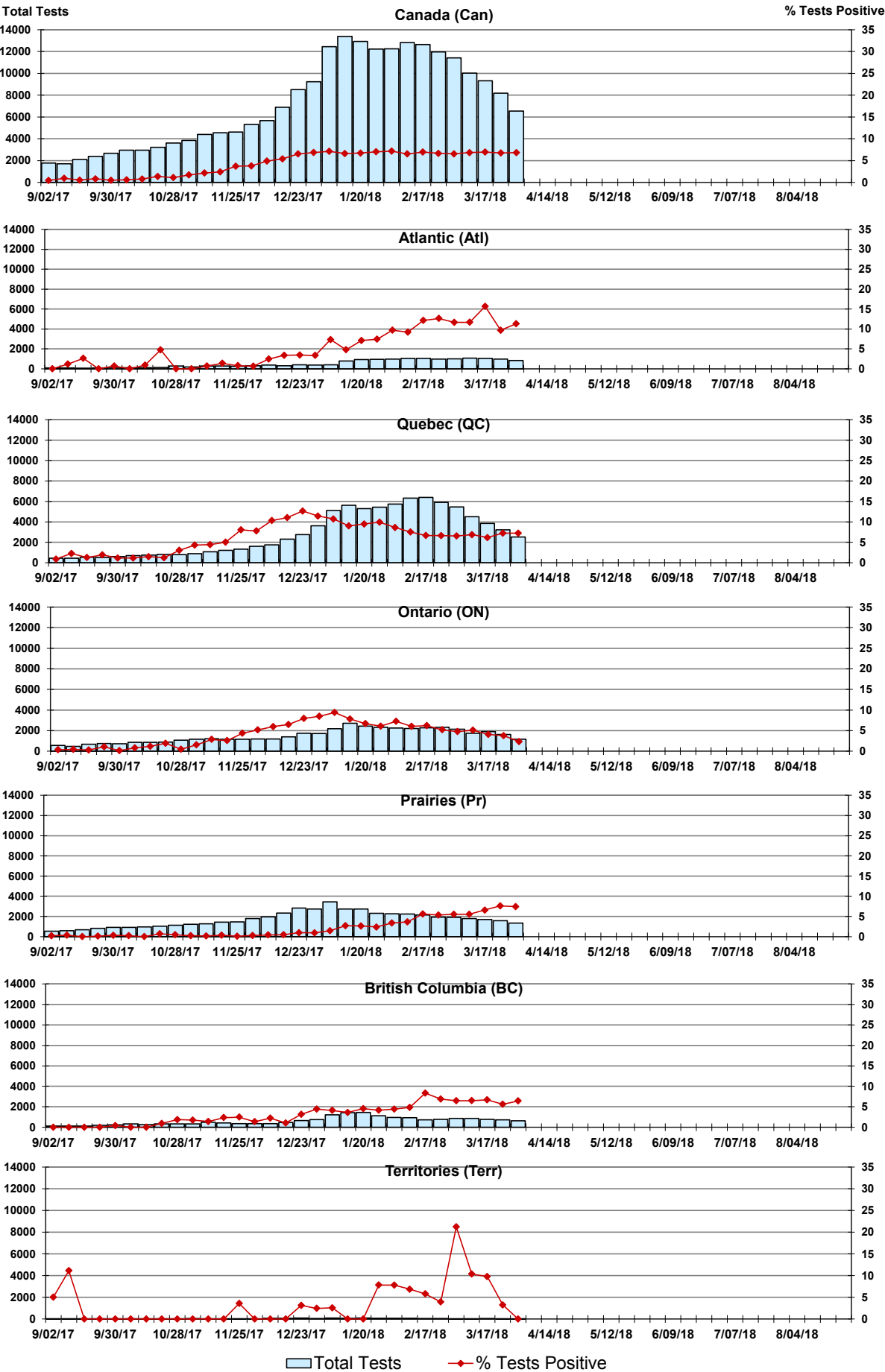


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

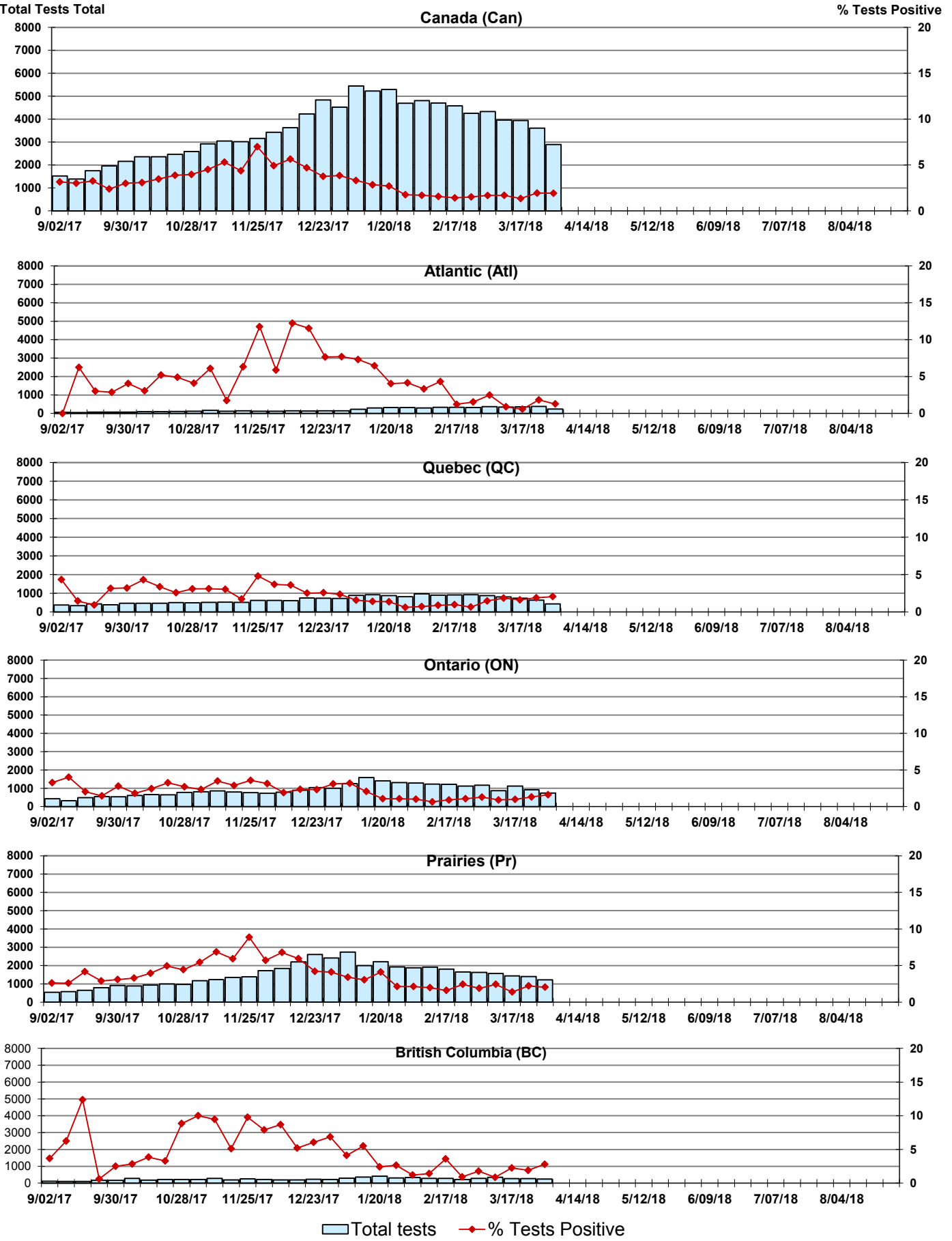


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

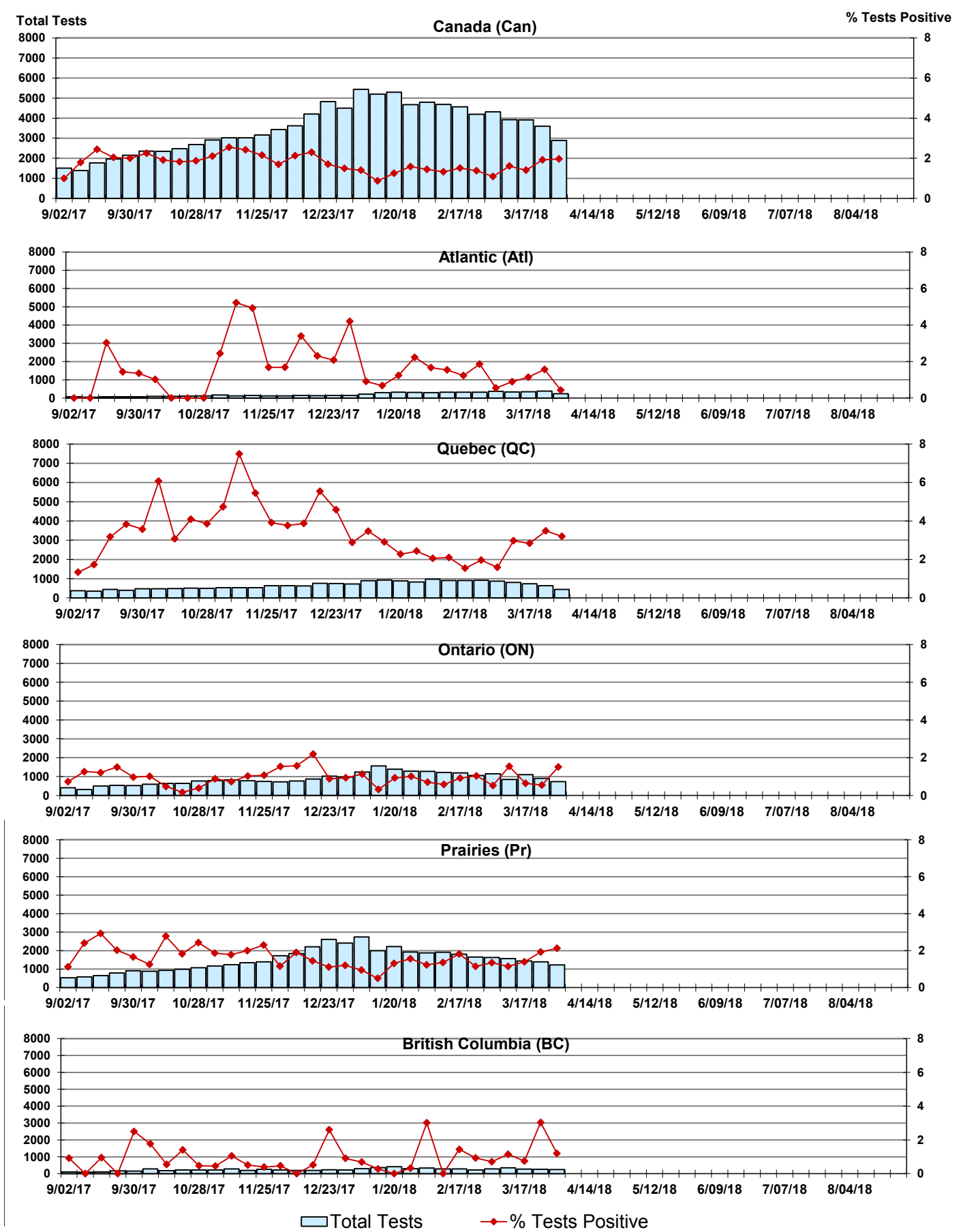


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

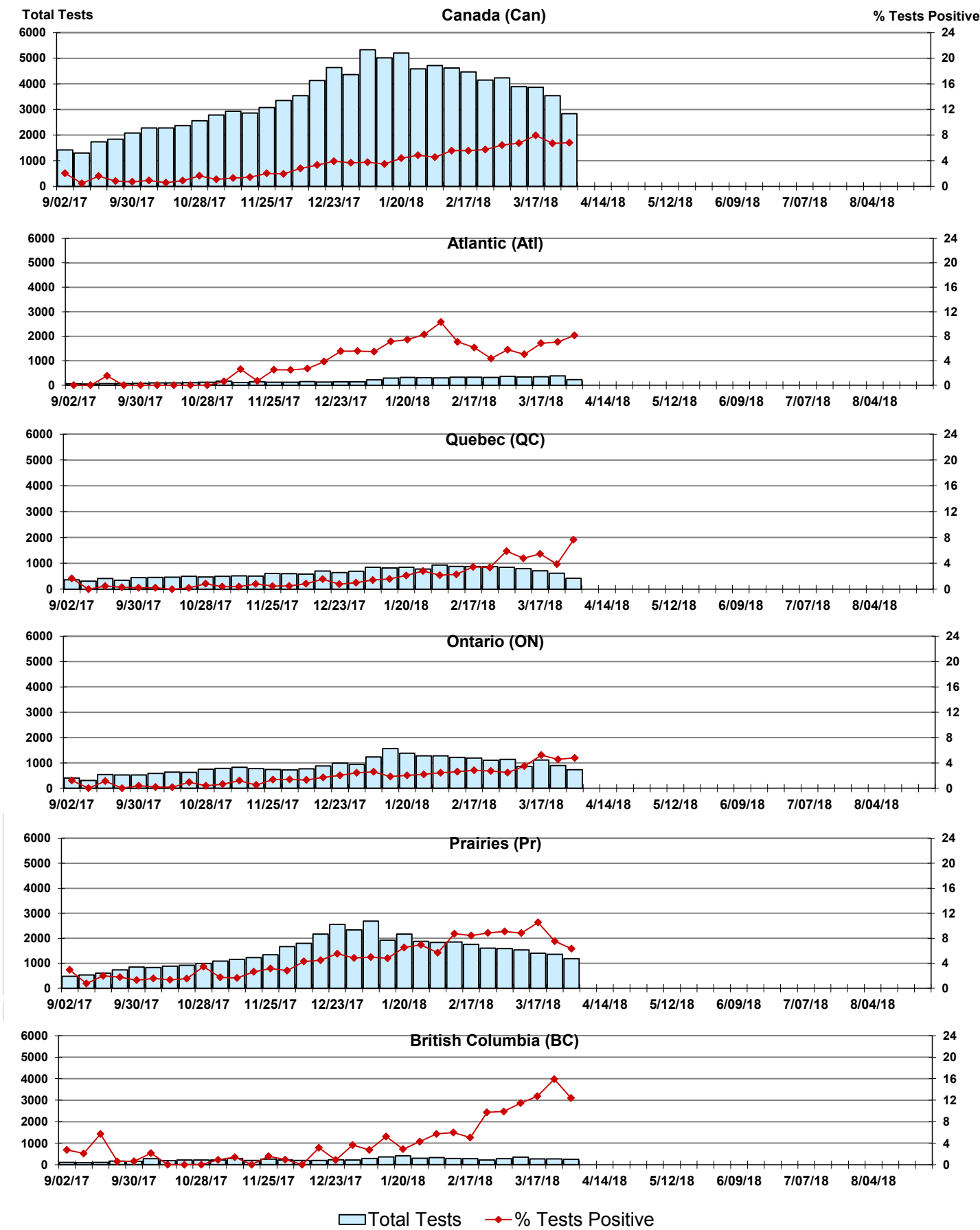


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

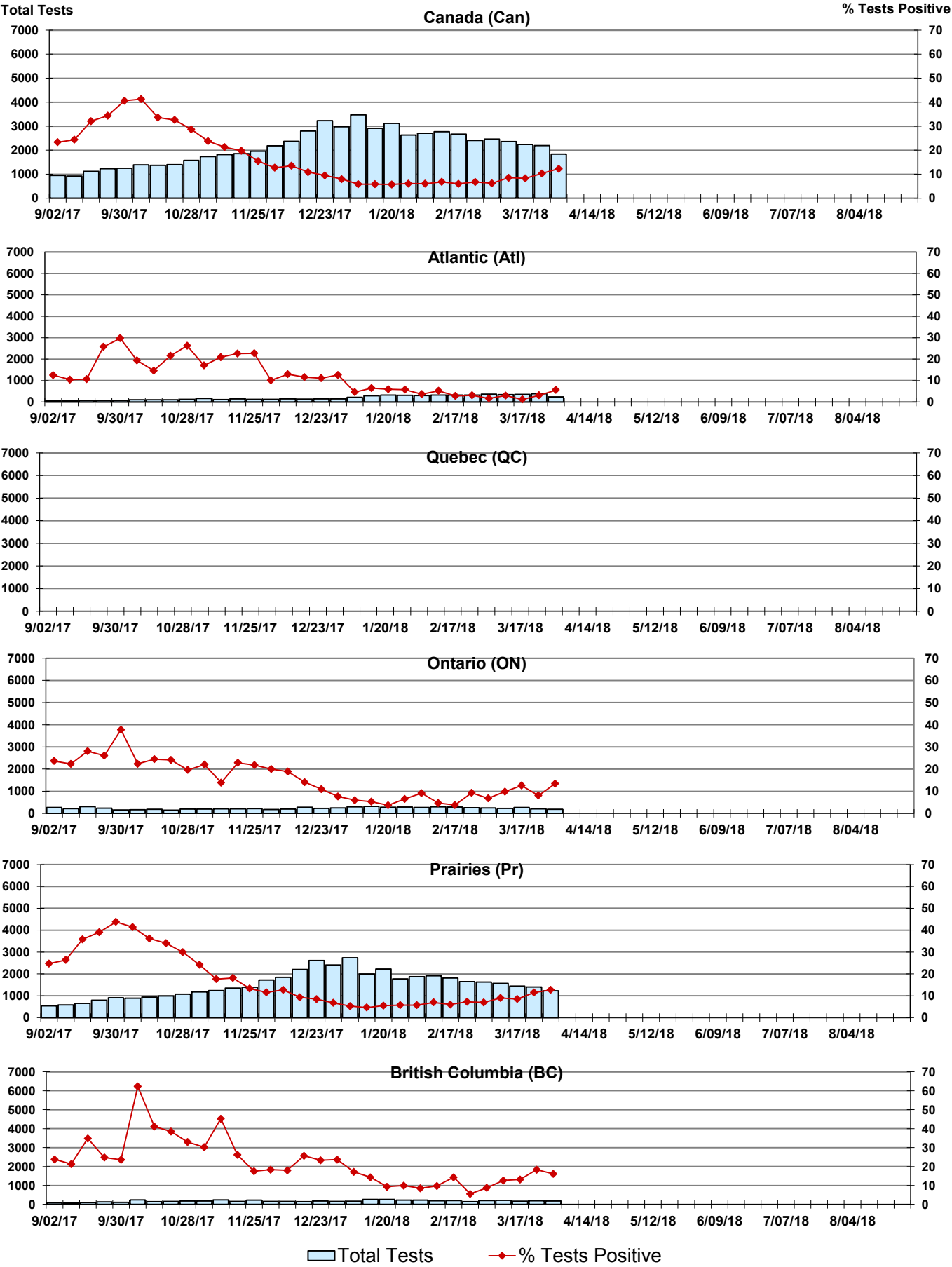
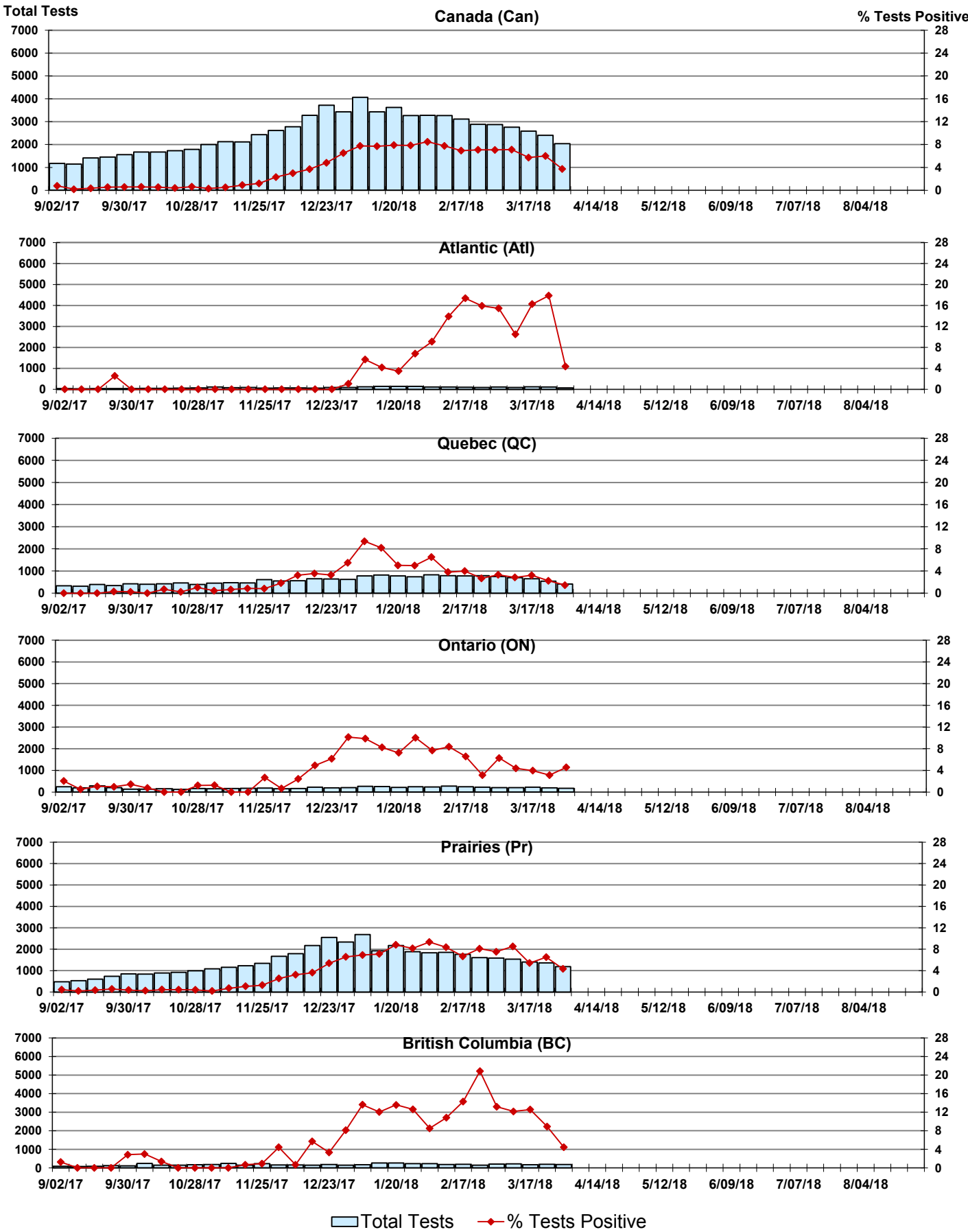


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.