

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 49 - ending December 9, 2017

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 December 9, 2017 (Reporting Week 201749)

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	73	0	0	0	0	0	73	2	73	8	1	2	0	0	73	2	73	3	73	10	N.A.	N.A.
Prince Edward Island	19	0	1	0	1	0	21	2	1	0	0	0	0	0	1	0	1	0	1	1	1	0
Nova Scotia	58	0	0	2	2	0	59	3	15	1	0	0	0	0	15	0	15	0	15	2	15	0
New Brunswick	211	0	0	6	6	1	207	2	58	3	2	0	1	0	58	3	58	1	58	6	58	0
Atlantic	361	0	1	8	9	1	360	9	147	12	3	2	1	0	147	5	147	4	147	19	74	0
Région Nord-Est	164	0	0	20	20	4	155	9	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	225	0	0	16	16	8	274	34	95	7	0	0	2	0	99	2	77	0	N.A.	N.A.	77	0
Centre-du-Québec	242	0	0	13	13	5	194	19	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1088	0	0	76	76	21	886	92	515	9	0	4	0	0	521	22	508	5	N.A.	N.A.	481	18
Ouest du Québec	233	0	0	19	19	5	95	14	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	135	0	0	9	9	1	135	12	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2087	0	0	153	153	44	1739	180	610	16	0	4	2	0	620	24	585	5	N.A.	N.A.	558	18
Ottawa P.H.L.	22	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
CHEO - Ottawa	160	0	0	5	5	0	160	14	26	0	0	0	0	0	26	1	26	1	26	3	26	0
Kingston P.H.L.	16	0	0	0	0	0	12	0	12	0	0	0	0	0	12	0	11	0	1	0	0	0
UHN / Mount Sinai Hospital	257	0	0	5	5	2	257	17	24	0	0	0	1	0	0	0	24	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	299	4	14	0	18	2	253	7	253	1	0	0	0	0	253	2	245	0	9	0	0	0
Sick Kids Hospital - Toronto	65	1	1	0	2	1	65	8	65	0	1	0	1	0	65	3	65	4	65	20	65	2
Sunnybrook & Women's College HSC	62	0	2	0	2	1	62	0	62	0	2	0	0	0	62	0	62	0	62	11	62	2
Sault Ste. Marie 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
Timmins P.H.L.	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	4	0	1	0	0	0
St. Joseph's - London	74	0	0	0	0	7	74	17	36	0	0	0	0	0	36	2	36	1	12	2	0	0
London P.H.L.	59	0	3	1	4	0	54	2	54	0	0	0	0	0	54	0	49	1	5	0	0	0
Orillia P.H.L.	38	0	9	0	9	2	8	1	8	2	0	0	0	0	8	0	8	0	0	0	0	0
Thunder Bay P.H.L.	14	0	1	0	1	0	13	0	13	1	0	0	0	0	13	0	12	0	1	0	0	0
Sudbury P.H.L.	25	1	1	0	2	0	23	0	23	1	0	0	0	0	23	0	22	0	1	0	0	0
Hamilton P.H.L.	77	0	3	0	3	1	72	4	72	4	0	0	0	0	72	2	70	3	2	0	0	0
Peterborough P.H.L.	62	0	0	0	0	1	41	1	41	1	0	0	0	0	41	0	41	0	0	0	0	0
Province of Ontario	1244	6	34	11	51	17	1114	71	709	10	3	0	2	0	685	10	689	10	186	36	153	4
Manitoba	253	0	19	2	21	1	227	2	122	4	2	0	0	0	122	3	75	7	122	7	75	2
Regina	299	0	35	1	36	6	299	0	299	35	5	0	3	0	299	9	299	14	299	58	299	11
Saskatoon	182	0	0	25	25	5	182	6	182	3	0	1	0	0	182	4	182	3	182	7	182	2
Province of Saskatchewan	481	0	35	26	61	11	481	6	481	38	5	1	3	0	481	13	481	17	481	65	481	13
Province of Alberta	1495	4	354	145	503	157	1104	0	1104	39	10	4	13	0	1104	16	1104	38	1104	149	1104	35
Prairies	2229	4	408	173	585	169	1812	8	1707	81	17	5	16	0	1707	32	1660	62	1707	221	1660	50
British Columbia	358	6	32	12	50	24	358	8	196	10	5	2	0	0	196	0	196	0	150	27	150	1
Yukon	12	0	0	0	0	3	12	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	21	0	7	0	7	0	21	0	21	1	0	0	0	0	21	1	21	1	21	2	21	2
Nunavut	14	0	0	0	0	0	11	0	12	1	0	1	0	0	11	0	11	0	2	1	2	0
Territories	47	0	7	0	7	3	44	0	33	2	0	1	0	0	32	1	32	1	23	3	23	2
CANADA	6326	16	482	357	855	258	5427	276	3402	131	28	14	21	0	3387	72	3309	82	2213	306	2618	75

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 - December 9, 2017 (Reporting Weeks / Code hebdomadaire 201735-201749)

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	655	0	3	3	6	1	655	2	655	35	3	14	0	0	655	9	656	11	655	100	N.A.	N.A.
Prince Edward Island	150	0	11	0	11	0	156	3	23	0	0	0	2	0	23	1	213	0	23	3	23	0
Nova Scotia	440	0	0	8	8	1	447	12	213	1	1	1	0	0	213	3	213	2	213	48	213	0
New Brunswick	1740	0	43	58	101	4	1536	13	655	12	12	1	6	0	655	18	655	3	655	138	655	1
Atlantic	2985	0	57	69	126	6	2794	30	1546	48	16	16	8	0	1546	31	1547	16	1546	289	891	1
Région Nord-Est	932	0	0	26	26	8	858	31	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	1566	0	0	45	45	12	1797	85	1143	18	1	0	10	0	1182	38	1020	1	N.A.	N.A.	967	0
Centre-du-Québec	1303	0	0	36	36	19	1091	78	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	9073	0	0	231	231	49	8233	349	6189	125	13	45	20	0	6319	270	6038	34	N.A.	N.A.	5607	52
Ouest du Québec	1271	0	0	40	40	17	478	48	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	969	0	0	25	25	6	969	59	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	15114	0	0	403	403	111	13426	650	7332	143	14	45	30	0	7501	308	7058	35	N.A.	N.A.	6574	52
Ottawa P.H.L.	174	1	1	0	2	0	155	0	155	1	0	0	0	0	155	1	151	0	19	6	10	1
CHEO - Ottawa	1782	0	0	23	23	6	1781	42	306	6	0	0	6	0	332	7	388	1	332	94	332	1
Kingston P.H.L.	251	0	6	1	7	0	234	0	234	6	0	0	1	0	234	4	215	0	61	7	22	0
UHN / Mount Sinai Hospital	2725	0	0	31	31	11	2725	60	258	4	0	0	5	0	0	0	236	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	4113	23	88	4	115	11	3908	62	3908	66	6	5	1	0	3908	32	3774	16	417	48	234	5
Sick Kids Hospital - Toronto	876	2	4	1	7	1	876	68	876	23	2	4	17	0	876	21	876	29	876	285	876	12
Sunnybrook & Women's College HSC	739	0	9	0	9	2	739	7	739	11	8	2	3	0	739	0	739	5	739	121	739	5
Sault Ste. Marie P.H.L.	103	0	2	0	2	0	98	0	98	0	0	0	1	0	98	0	93	0	18	3	12	0
Timmins P.H.L.	79	0	1	0	1	0	78	0	78	0	0	0	0	0	78	0	74	0	10	1	2	0
St. Joseph's - London	649	0	0	7	7	17	649	38	355	14	0	0	7	0	355	5	342	1	234	84	222	0
London P.H.L.	744	1	11	3	15	6	713	10	713	8	2	0	3	0	713	3	669	5	122	21	63	0
Orillia P.H.L.	271	0	18	3	21	3	221	3	221	7	0	1	0	0	221	2	219	1	19	4	11	0
Thunder Bay P.H.L.	187	0	7	0	7	0	178	0	178	1	1	1	0	0	178	0	175	2	6	0	3	0
Sudbury P.H.L.	306	1	8	2	11	1	291	2	291	3	0	0	0	0	290	1	274	0	31	1	13	0
Hamilton P.H.L.	819	6	8	1	15	5	787	17	787	22	1	2	3	0	787	10	746	6	112	21	64	2
Peterborough P.H.L.	508	0	3	0	3	2	474	12	474	11	0	1	0	0	474	2	471	5	47	12	44	2
Province of Ontario	14326	34	166	76	276	65	13907	321	9671	183	20	16	47	0	9438	88	9442	73	3043	708	2647	28
Manitoba	2471	5	64	8	77	2	2391	12	1736	35	4	0	2	0	1736	37	767	36	1736	237	767	3
Regina	3384	4	98	3	105	11	3384	14	3384	199	31	1	15	0	3384	85	3384	42	3384	1202	3384	29
Saskatoon	1490	0	0	65	65	8	1490	19	1389	24	1	6	0	0	1490	29	1490	8	1490	329	1490	5
Province of Saskatchewan	4874	4	98	68	170	19	4874	33	4773	223	32	7	15	0	4874	114	4874	50	4874	1531	4874	34
Province of Alberta	11329	35	1433	518	1986	485	9309	0	9309	275	75	47	119	0	9309	155	9309	262	9309	2165	9309	121
Prairies	18674	44	1595	594	2233	506	16574	45	15818	533	111	54	136	0	15919	306	14950	348	15919	3933	14950	158
British Columbia	4397	37	197	59	293	90	4397	55	2896	101	23	15	49	0	2896	23	2896	31	2284	743	2284	24
Yukon	102	0	5	0	5	10	102	2	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	120	0	7	0	7	0	119	0	119	2	0	0	4	0	119	1	119	3	119	34	119	6
Nunavut	162	0	11	0	11	1	148	1	149	1	0	8	0	0	148	10	148	2	41	21	39	1
Territories	384	0	23	0	23	11	369	3	268	3	0	8	4	0	267	11	267	5	160	55	158	7
CANADA	55880	115	2038	1201	3354	789	51467	1104	37531	1011	184	154	274	0	37567	767	36160	508	22952	5728	27504	270

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

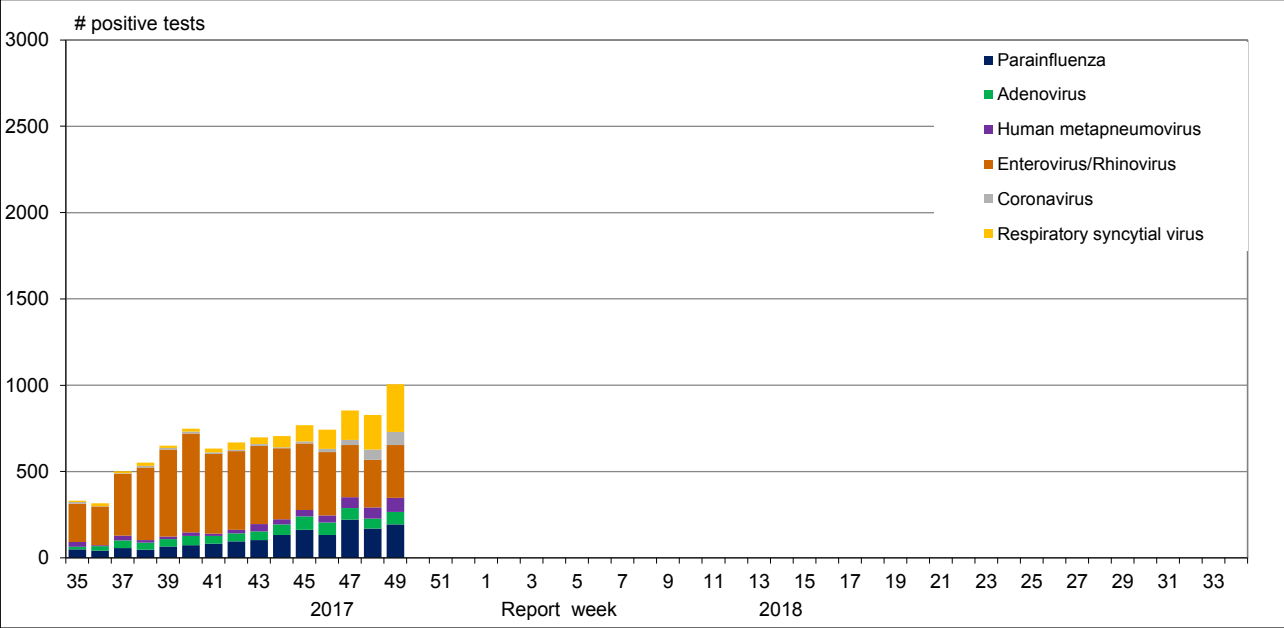


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

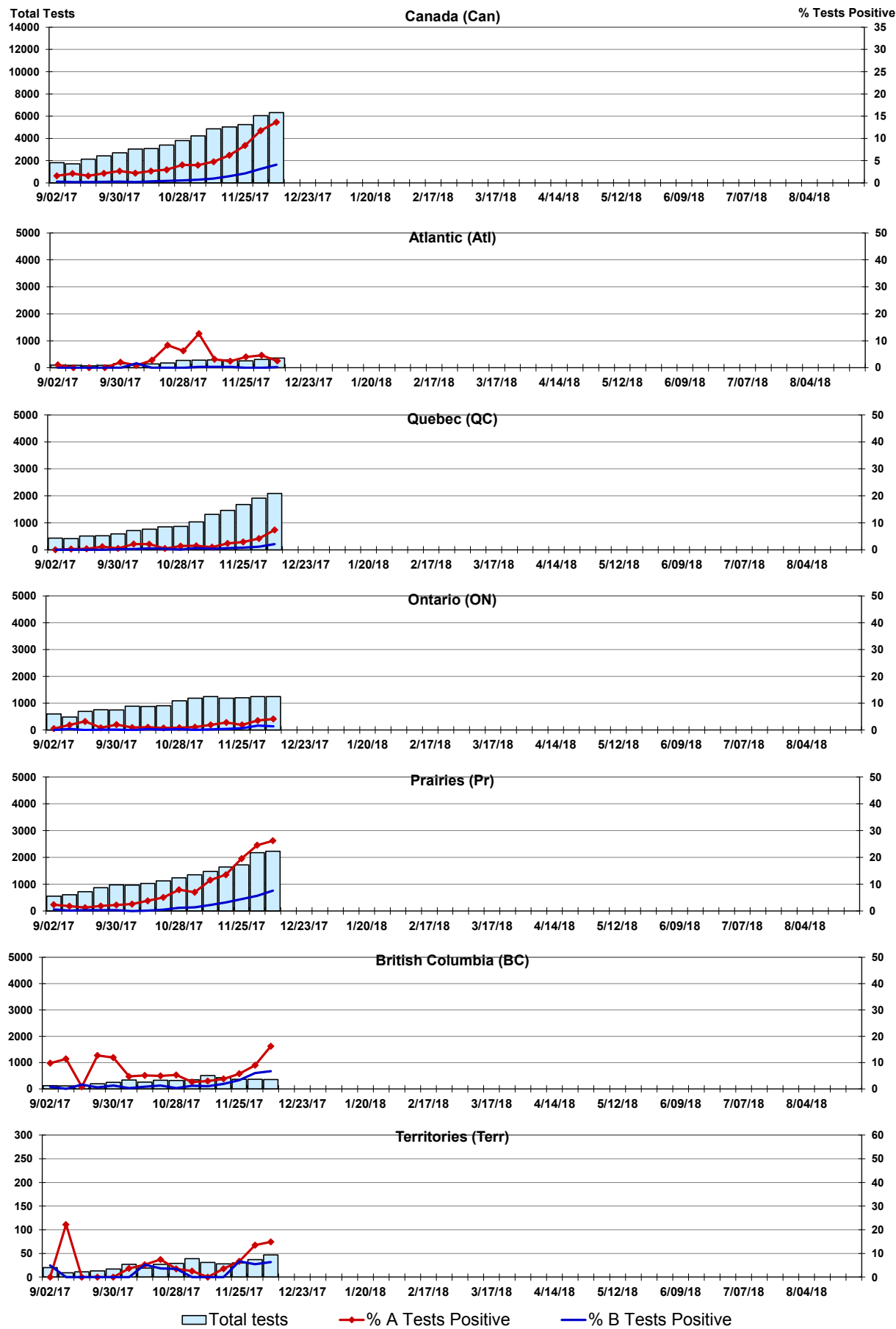


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

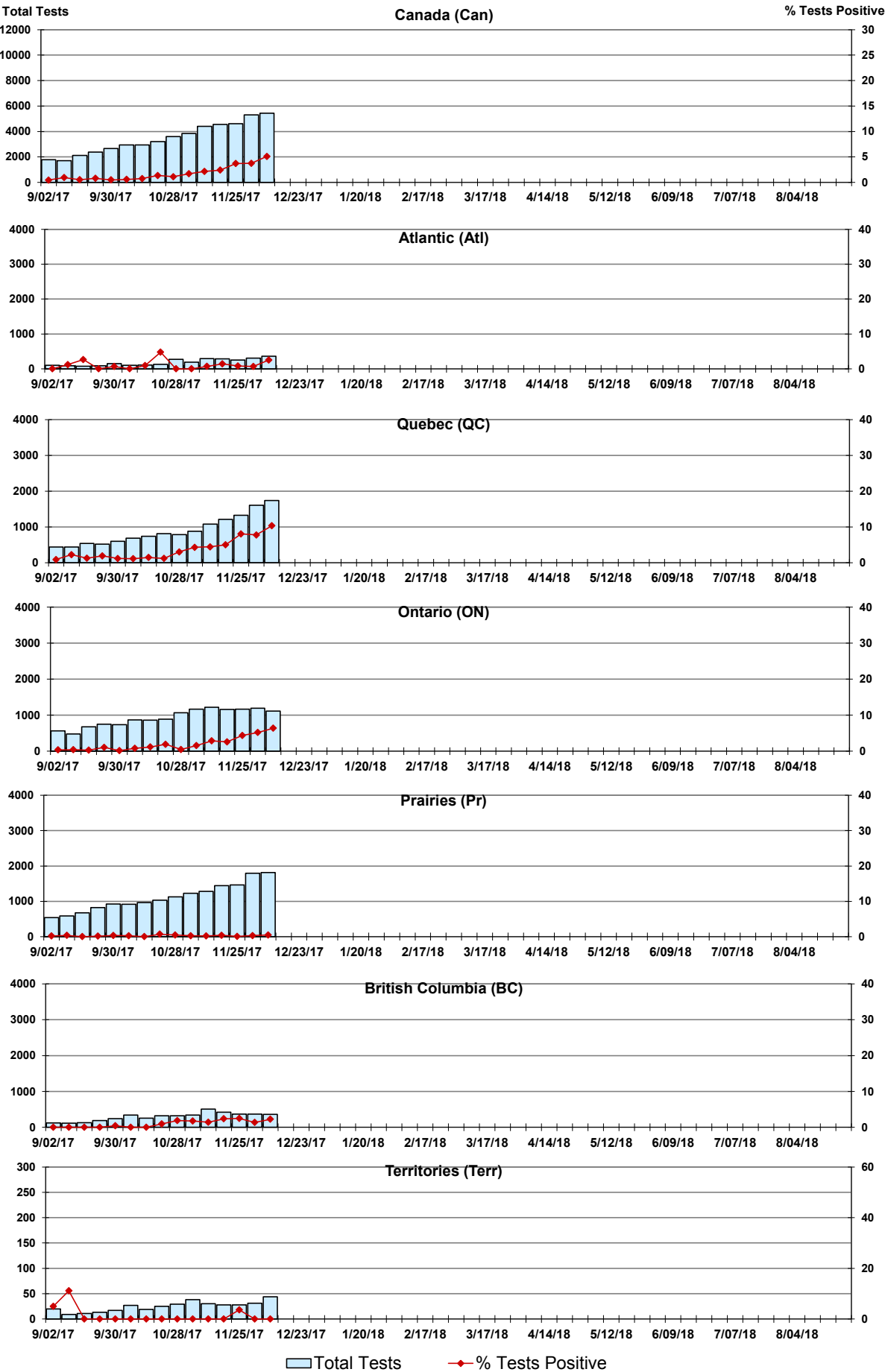


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

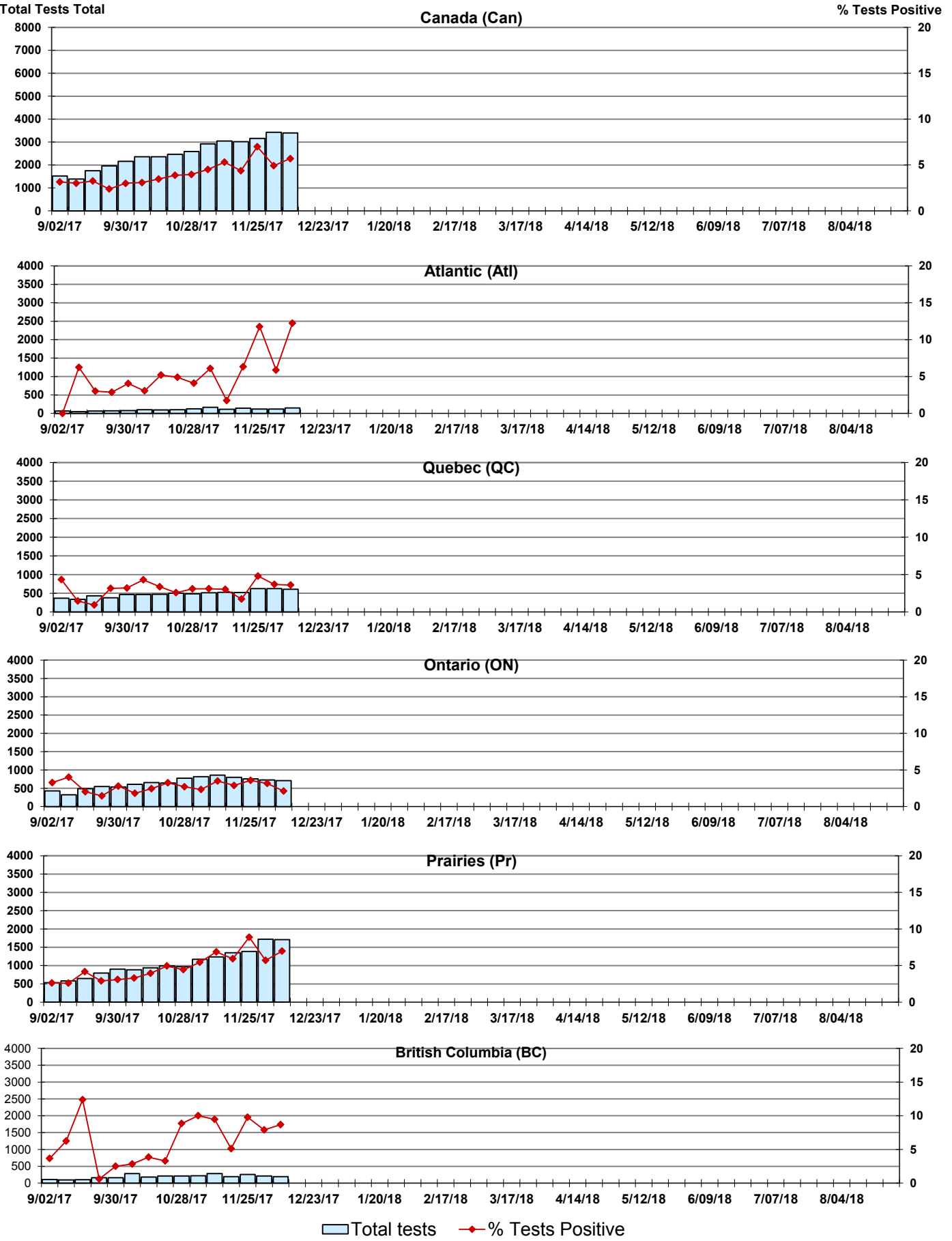


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

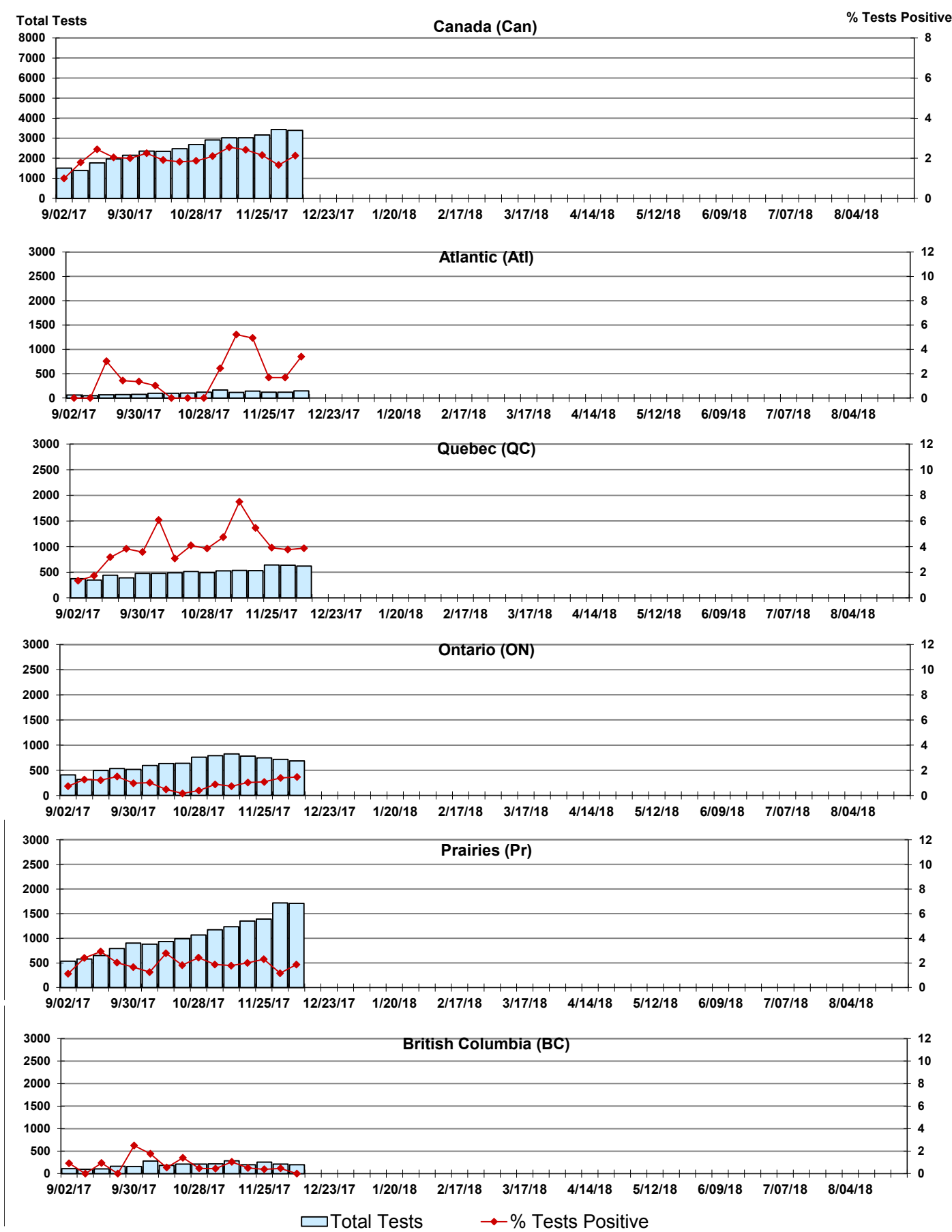


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

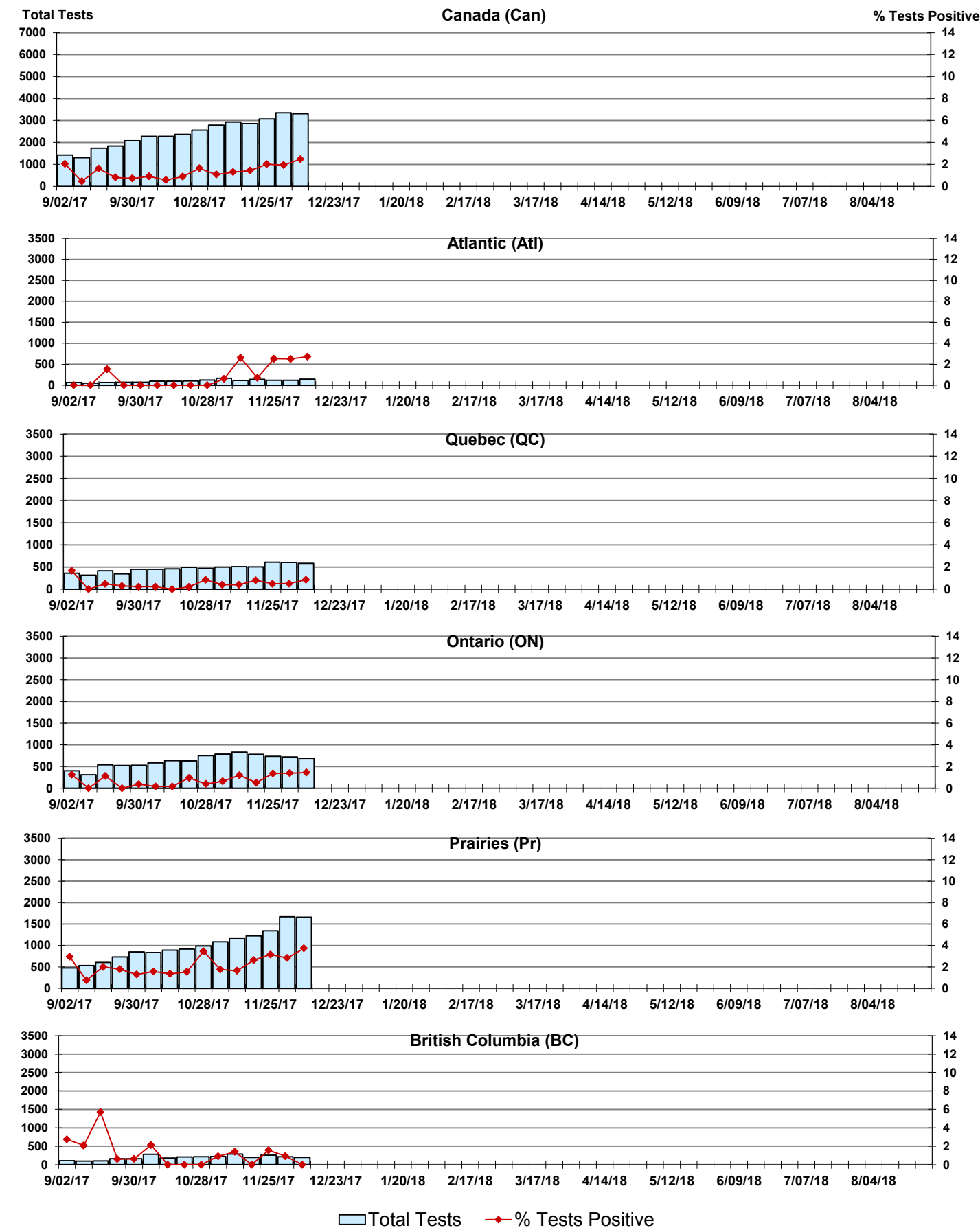


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

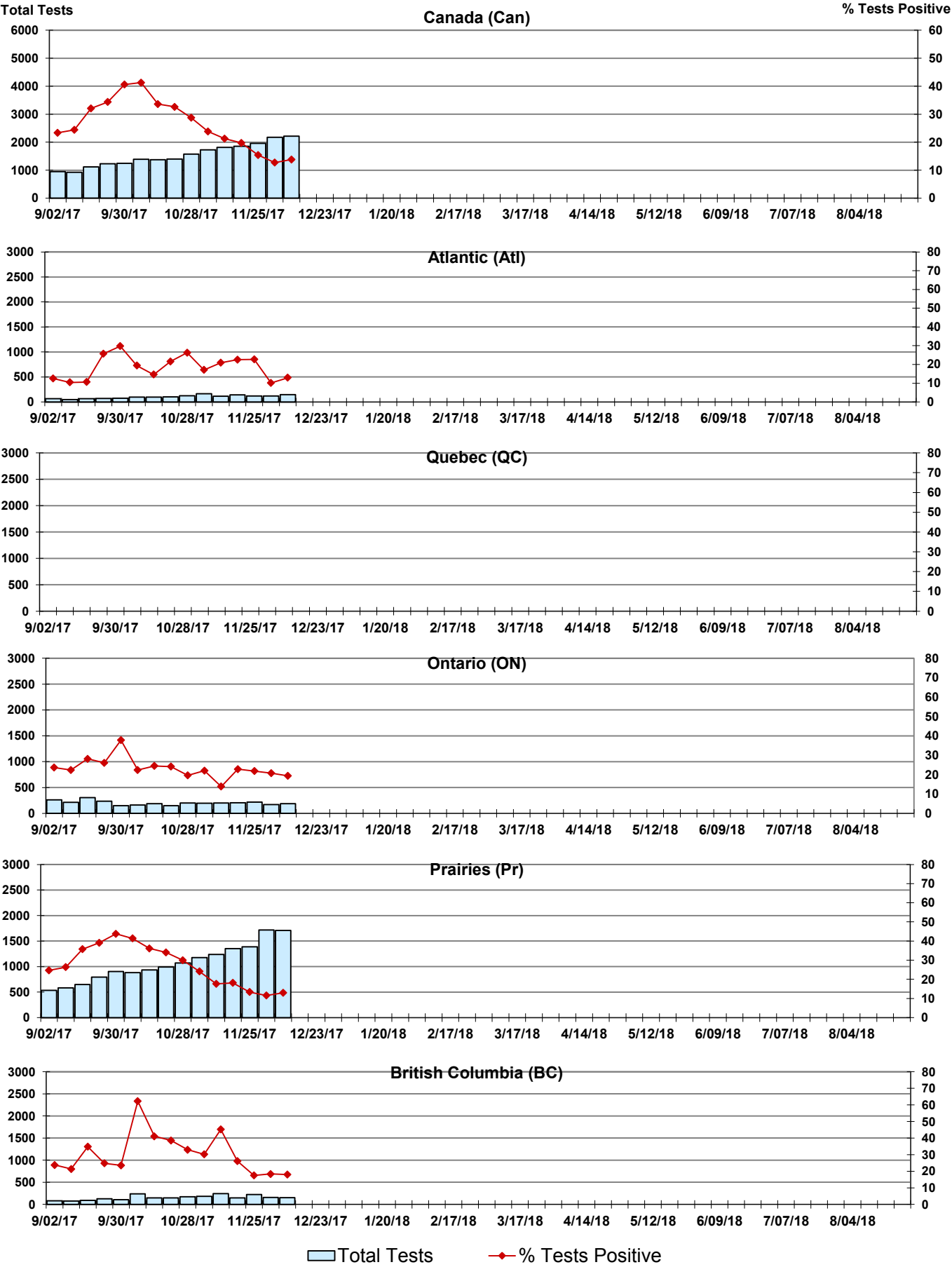
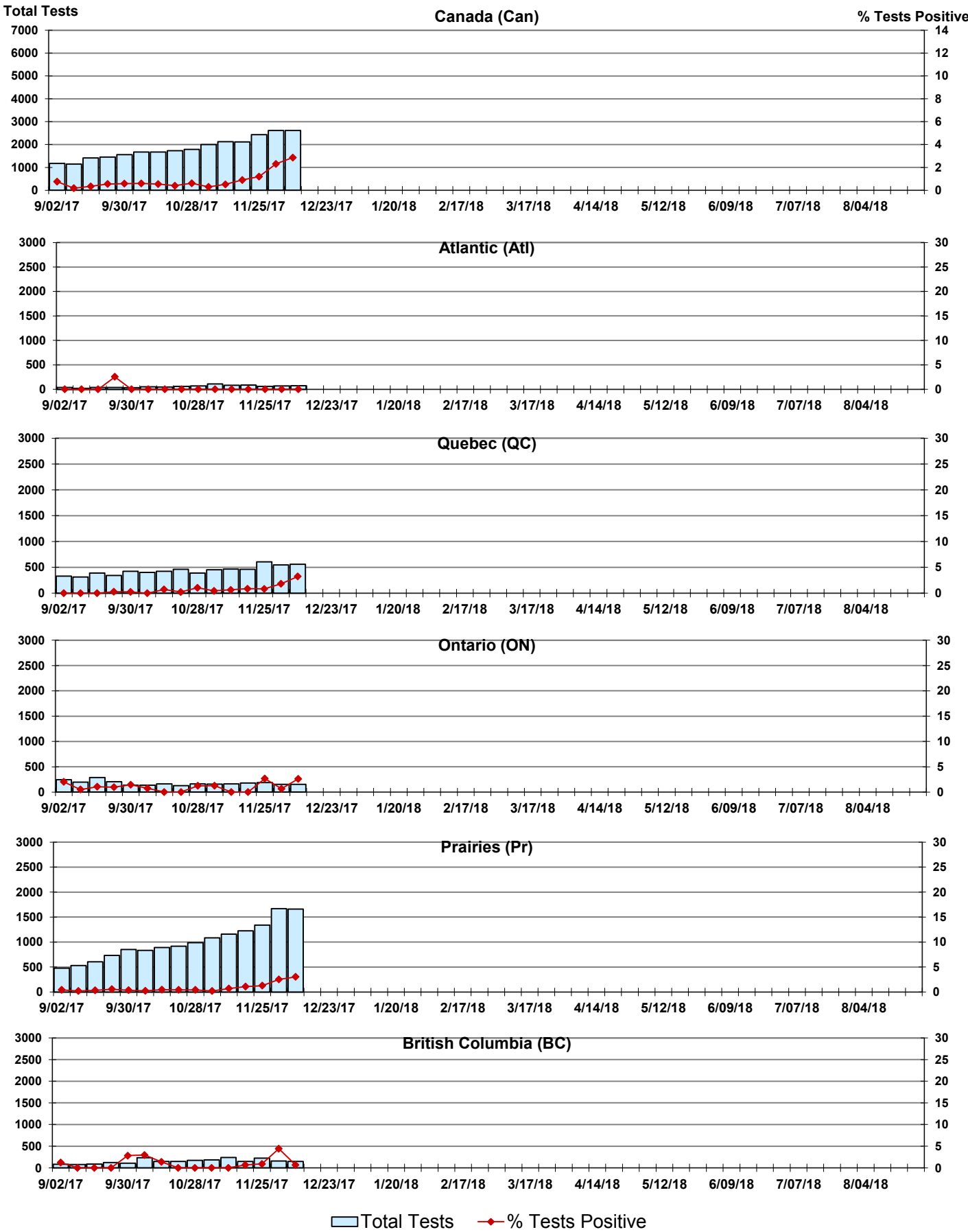


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.