

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 51 - ending December 23, 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 23, 2017 (Reporting Week 201751)

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	57	0	0	0	0	2	57	2	57	5	0	1	0	0	57	2	57	3	57	4	N.A.	N.A.
Prince Edward Island	29	0	3	0	3	0	31	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	80	0	0	16	16	1	82	7	15	1	0	0	0	0	15	0	15	0	15	0	15	0
New Brunswick	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atlantic	166	0	3	16	19	3	170	11	72	6	0	1	0	0	72	2	72	3	72	4	15	0
Région Nord-Est	409	0	0	59	59	20	377	29	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	446	0	0	57	57	33	455	57	70	3	0	0	0	0	68	2	55	0	N.A.	N.A.	52	0
Centre-du-Québec	420	0	0	30	30	20	341	53	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1129	0	0	138	138	70	931	122	472	2	2	1	2	0	480	21	461	1	N.A.	N.A.	461	14
Ouest du Québec	400	0	0	48	48	37	190	24	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	222	0	0	33	33	7	222	33	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	3026	0	0	365	365	187	2516	318	542	5	2	1	2	0	548	23	516	1	N.A.	N.A.	513	14
Ottawa P.H.L.	17	0	2	2	4	2	9	0	9	0	0	0	0	0	9	0	8	0	1	0	0	0
CHEO - Ottawa	254	0	0	20	20	11	254	20	15	0	0	0	0	0	15	0	15	2	15	1	15	1
Kingston P.H.L.	36	0	6	1	7	0	28	2	28	1	0	0	0	0	28	0	28	0	0	0	0	0
UHN / Mount Sinai Hospital	359	0	0	15	15	6	359	15	17	0	0	0	0	0	0	0	17	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	435	7	28	4	39	15	379	18	379	7	0	0	0	0	379	5	366	2	14	0	0	0
Sick Kids Hospital - Toronto	61	0	0	0	0	2	61	16	61	1	0	0	1	0	61	1	61	3	61	10	61	6
Sunnybrook & Women's College HSC	101	0	3	1	4	5	101	7	101	1	0	0	0	0	101	0	101	2	101	9	101	5
Sault Ste. Marie P.H.L.	17	0	2	1	3	0	14	0	14	1	0	0	0	0	14	0	14	0	0	0	0	0
Timmins P.H.L.	9	1	0	0	1	0	8	0	8	0	0	0	0	0	8	0	8	0	0	0	0	0
St. Joseph's - London	175	0	0	11	11	13	175	23	49	2	0	0	0	0	49	2	19	0	18	5	18	0
London P.H.L.	150	1	15	2	18	25	98	7	98	2	0	0	0	0	98	0	96	4	4	0	0	0
Orillia P.H.L.	65	0	6	4	10	5	46	3	46	0	0	1	0	0	46	0	46	0	0	0	0	0
Thunder Bay P.H.L.	28	0	10	2	12	1	15	0	15	1	0	0	0	0	15	0	15	0	0	0	0	0
Sudbury P.H.L.	31	0	5	0	5	0	26	1	26	1	0	0	0	0	26	0	26	0	0	0	0	0
Hamilton P.H.L.	134	0	5	4	9	5	115	22	115	1	0	0	0	0	115	1	114	6	4	0	0	0
Peterborough P.H.L.	67	0	1	1	2	6	57	5	57	1	0	0	0	0	57	0	57	0	0	0	0	0
Province of Ontario	1939	9	83	68	160	96	1745	139	1038	19	0	1	1	0	1021	9	991	20	218	25	195	12
Manitoba	411	0	37	33	70	5	395	12	183	4	2	0	0	0	183	0	124	5	183	18	124	5
Regina	638	4	140	10	154	34	638	10	638	36	8	0	1	0	638	6	638	56	638	73	638	35
Saskatoon	219	0	0	36	36	7	219	5	219	1	0	0	0	0	219	1	219	5	219	6	219	1
Province of Saskatchewan	857	4	140	46	190	41	857	15	857	37	8	0	1	0	857	7	857	61	857	79	857	36
Province of Alberta	2062	10	459	183	652	242	1537	0	1537	34	5	3	14	0	1537	22	1537	72	1537	123	1537	95
Prairies	3330	14	636	262	912	288	2789	27	2577	75	15	3	15	0	2577	29	2518	138	2577	220	2518	136
British Columbia	668	27	85	29	141	122	668	21	231	3	2	1	8	0	231	6	231	2	180	42	180	6
Yukon	20	0	0	0	0	9	20	3	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	51	0	26	0	26	1	50	0	50	0	0	0	2	0	50	0	50	5	50	1	50	3
Nunavut	12	0	1	0	1	0	11	0	11	1	0	0	0	0	11	0	11	0	3	1	3	0
Territories	83	0	27	0	27	10	81	3	61	1	0	0	2	0	61	0	61	5	53	2	53	3
CANADA	9212	50	834	740	1624	706	7969	519	4521	109	19	7	28	0	4510	69	4389	169	3100	293	3474	171

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 23, 2017 (Reporting Weeks / Code hebdomadaire 201735-201751)

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	783	0	3	4	7	4	783	5	783	50	3	15	0	0	783	13	784	18	783	107	N.A.	N.A.
Prince Edward Island	196	0	17	0	17	0	204	6	25	0	0	0	2	0	25	1	25	0	25	4	25	0
Nova Scotia	601	0	0	31	31	2	611	25	236	3	1	1	0	0	236	3	236	2	236	51	236	0
New Brunswick	1876	0	52	75	127	8	1672	15	704	13	14	1	7	0	704	19	704	4	704	146	704	1
Atlantic	3456	0	72	110	182	14	3270	51	1748	66	18	17	9	0	1748	36	1749	24	1748	308	965	1
Région Nord-Est	1620	0	0	119	119	45	1489	80	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	2358	0	0	120	120	58	2624	178	1344	23	1	0	10	0	1381	48	1175	1	N.A.	N.A.	1116	0
Centre-du-Québec	2090	0	0	82	82	55	1745	174	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	11439	0	0	460	460	170	10171	591	7283	135	20	48	24	0	7426	325	7102	46	N.A.	N.A.	6619	89
Ouest du Québec	1953	0	0	104	104	79	796	86	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	1418	0	0	93	93	15	1418	113	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	20878	0	0	978	978	422	18243	1222	8627	158	21	48	34	0	8807	373	8277	47	N.A.	N.A.	7735	89
Ottawa P.H.L.	208	1	6	3	10	2	188	0	188	1	0	0	0	0	188	1	183	0	20	6	10	1
CHEO - Ottawa	2226	0	0	56	56	22	2225	77	341	6	0	0	6	0	367	7	423	5	367	102	367	2
Kingston P.H.L.	316	0	18	5	23	0	286	2	286	7	0	0	1	0	286	5	267	0	64	7	22	0
UHN / Mount Sinai Hospital	3351	0	0	52	52	19	3351	87	295	4	0	0	6	0	0	0	273	3	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	4859	32	134	8	174	31	4585	86	4585	73	6	5	1	0	4585	42	4436	18	442	48	234	5
Sick Kids Hospital - Toronto	1032	2	7	1	10	3	1032	111	1032	26	2	4	21	0	1032	24	1032	40	1032	312	1032	24
Sunnybrook & Women's College HSC	932	0	13	1	14	12	932	14	932	13	8	2	3	0	932	0	932	8	932	143	932	14
Sault Ste. Marie P.H.L.	135	0	4	1	5	0	127	0	127	1	0	0	1	0	127	0	122	0	18	3	12	0
Timmins P.H.L.	94	1	1	0	2	0	92	0	92	0	0	0	0	0	92	0	86	0	12	1	2	0
St. Joseph's - London	964	0	0	24	24	34	964	77	447	17	1	0	7	0	447	14	404	3	295	91	268	1
London P.H.L.	994	2	33	8	43	35	890	22	890	17	2	0	3	0	890	5	843	9	139	21	63	0
Orillia P.H.L.	363	0	26	7	33	9	309	6	309	7	0	2	0	0	309	4	307	1	20	4	11	0
Thunder Bay P.H.L.	231	0	19	2	21	1	207	0	207	2	1	2	0	0	207	0	204	2	6	0	3	0
Sudbury P.H.L.	368	1	15	2	18	1	346	3	346	4	0	0	0	0	345	2	327	0	33	1	13	0
Hamilton P.H.L.	1055	6	16	7	29	14	996	47	996	23	2	2	3	0	996	13	951	14	122	21	64	2
Peterborough P.H.L.	632	0	6	3	9	8	604	19	604	15	0	1	0	0	604	2	601	5	47	12	44	2
Province of Ontario	17760	45	298	180	523	191	17134	551	11677	216	22	18	52	0	11407	119	11391	108	3549	772	3077	51
Manitoba	3138	5	125	59	189	7	3039	31	2039	43	6	0	3	0	2039	38	973	44	2039	263	973	11
Regina	4395	11	285	15	311	54	4395	27	4395	273	49	2	16	0	4395	100	4395	131	4395	1339	4395	80
Saskatoon	1925	0	0	133	133	19	1925	25	1824	26	1	6	0	0	1925	32	1925	14	1925	345	1925	11
Province of Saskatchewan	6320	11	285	148	444	73	6320	52	6219	299	50	8	16	0	6320	132	6320	145	6320	1684	6320	91
Province of Alberta	15556	54	2432	897	3383	980	12474	0	12474	360	91	53	149	0	12474	200	12474	409	12474	2423	12474	278
Prairies	25014	70	2842	1104	4016	1060	21833	83	20732	702	147	61	168	0	20833	370	19767	598	20833	4370	19767	380
British Columbia	5538	65	282	104	451	269	5538	81	3319	110	29	16	57	0	3319	30	3319	39	2604	821	2604	38
Yukon	136	0	5	0	5	26	136	5	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	225	0	59	0	59	1	223	0	223	4	0	0	8	0	223	1	223	13	223	43	223	10
Nunavut	192	0	13	0	13	1	179	1	180	5	1	8	0	0	179	10	179	2	51	25	47	1
Territories	553	0	77	0	77	28	538	6	403	9	1	8	8	0	402	11	402	15	274	68	270	11
CANADA	73199	180	3571	2476	6227	1984	66556	1994	46506	1261	238	168	328	0	46516	939	44905	831	29008	6339	34418	570

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

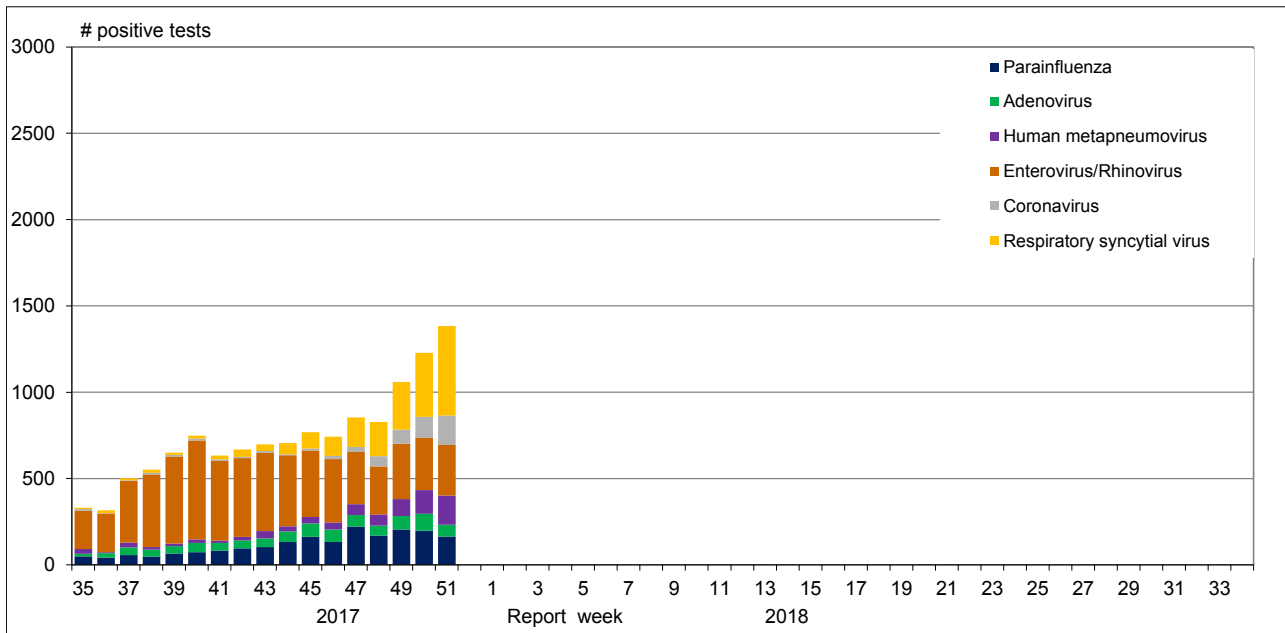


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

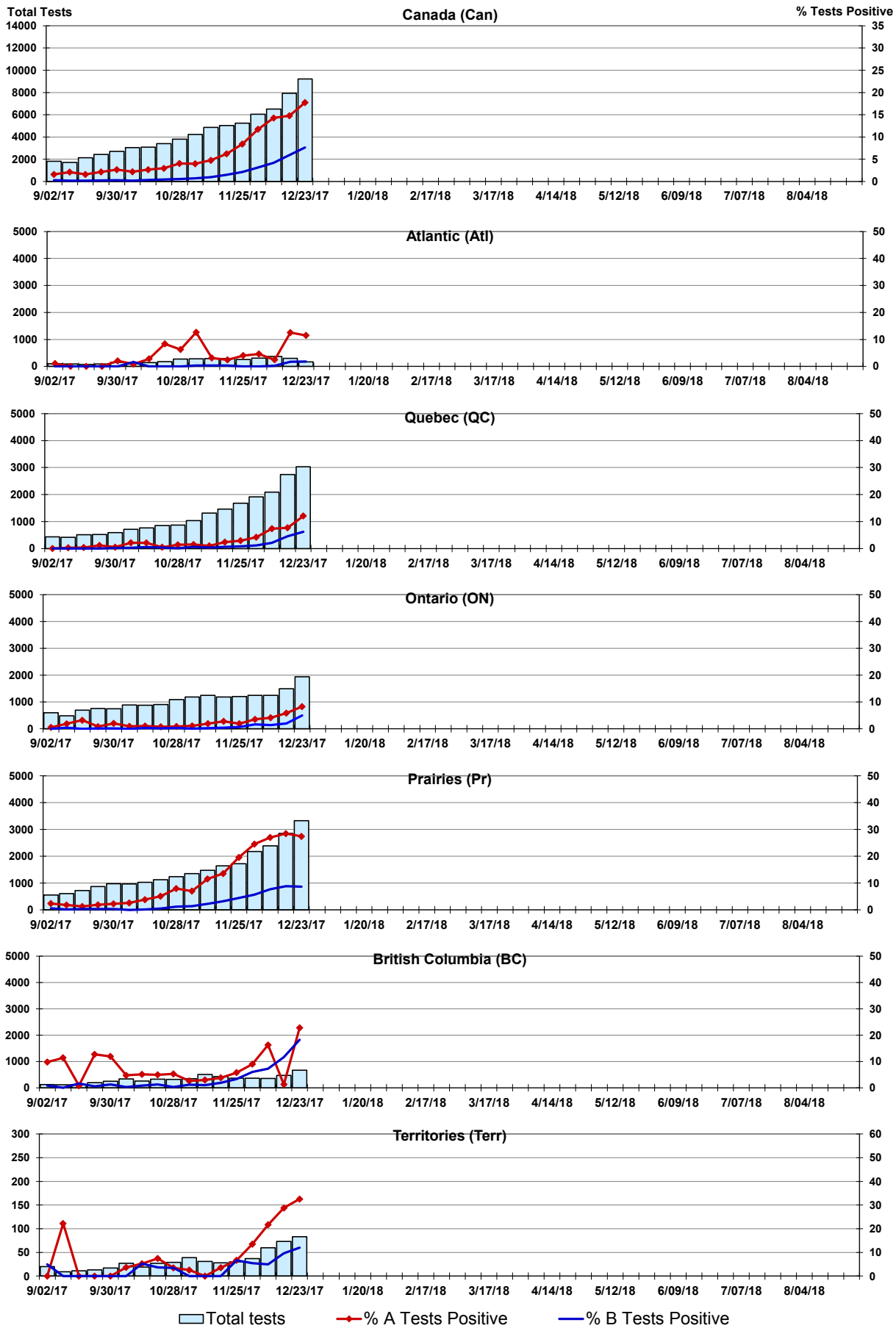


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

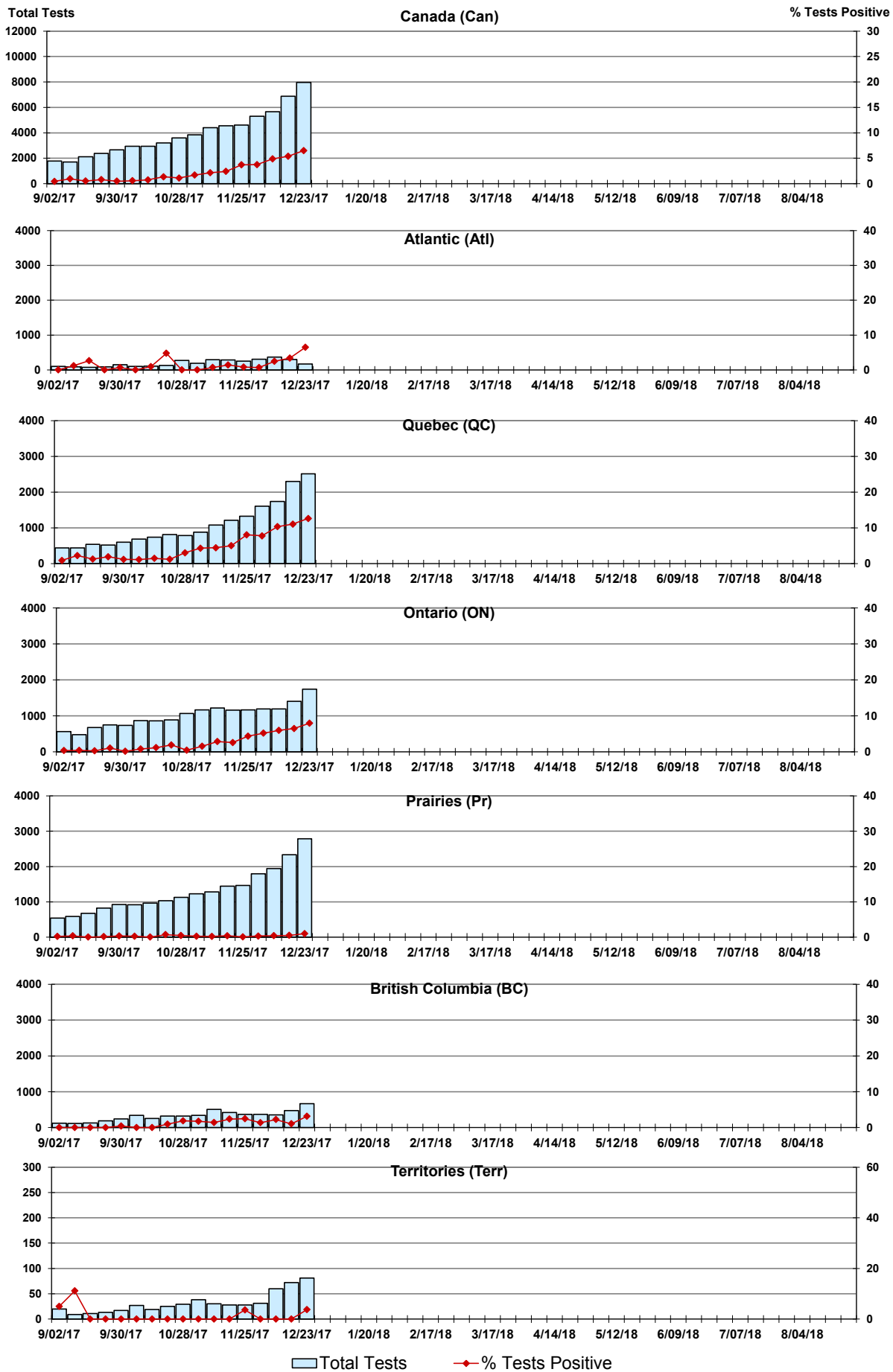


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

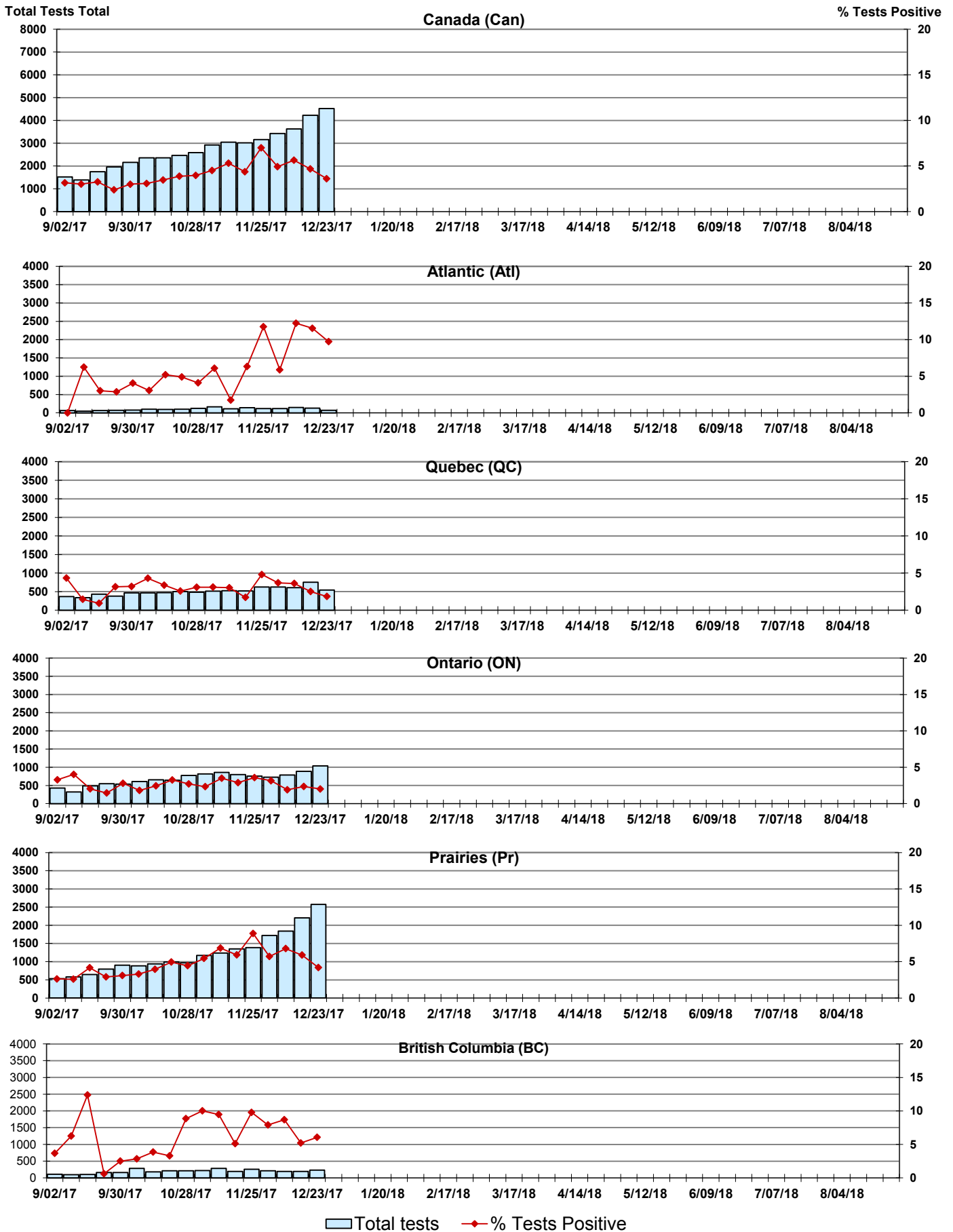


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

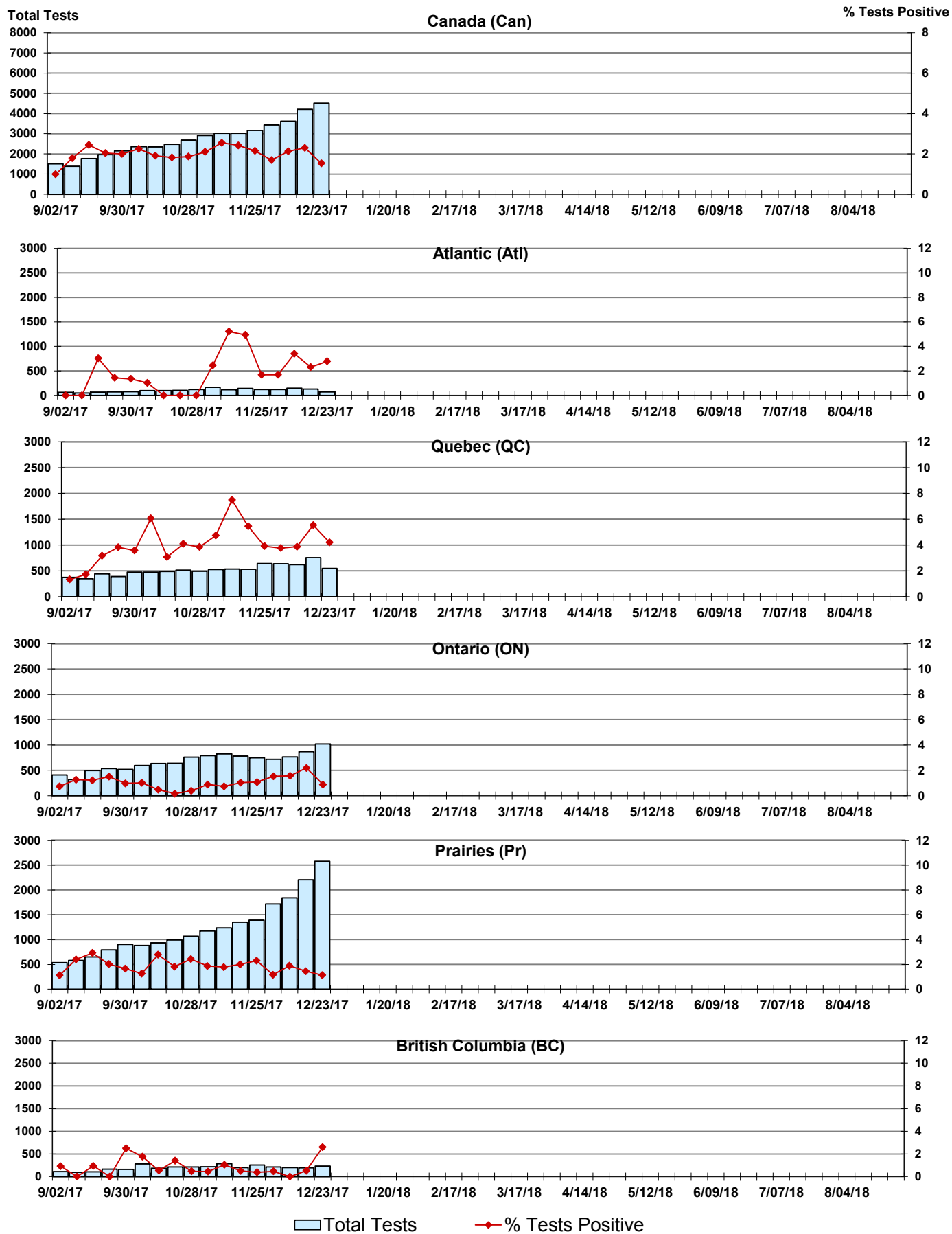


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

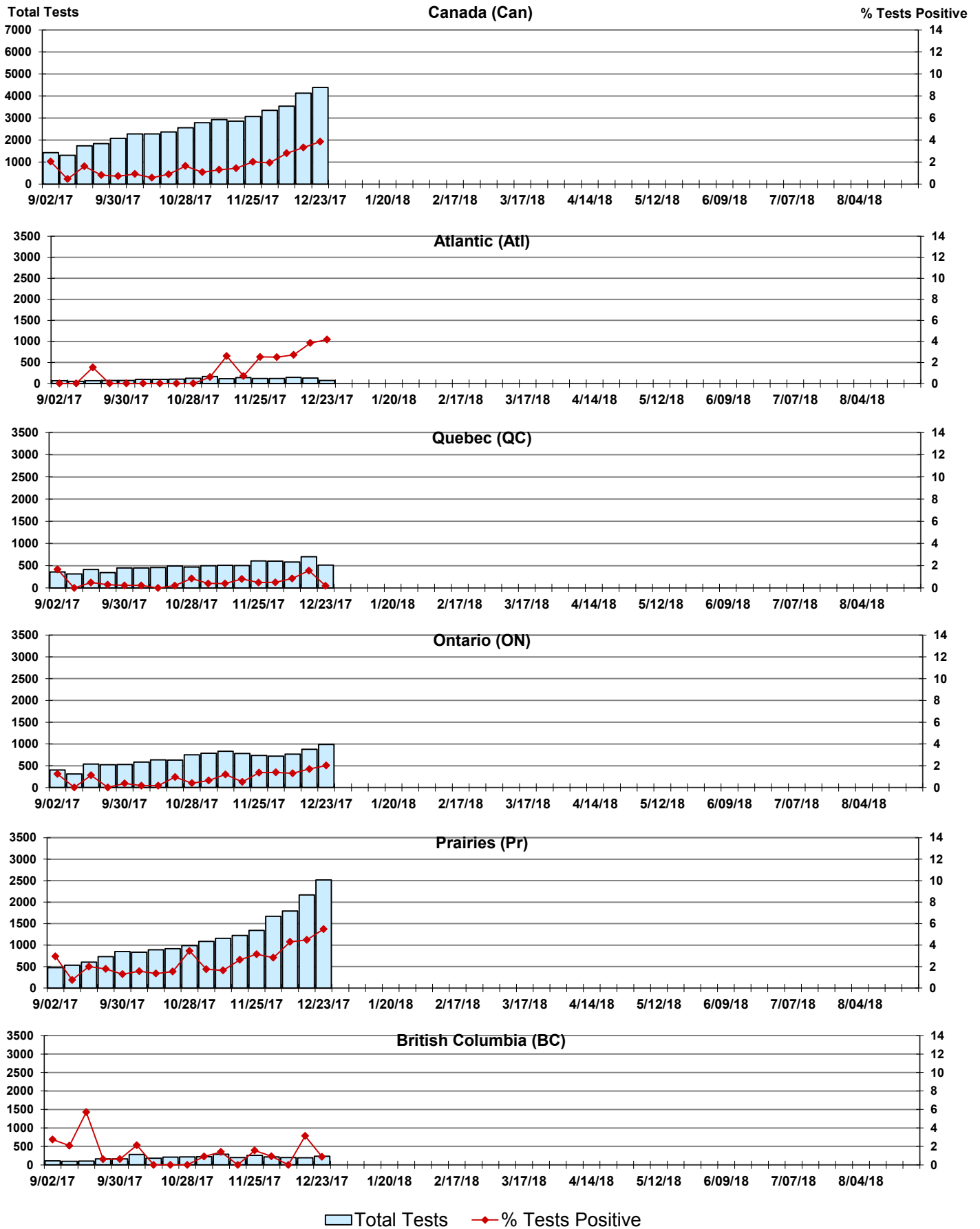


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

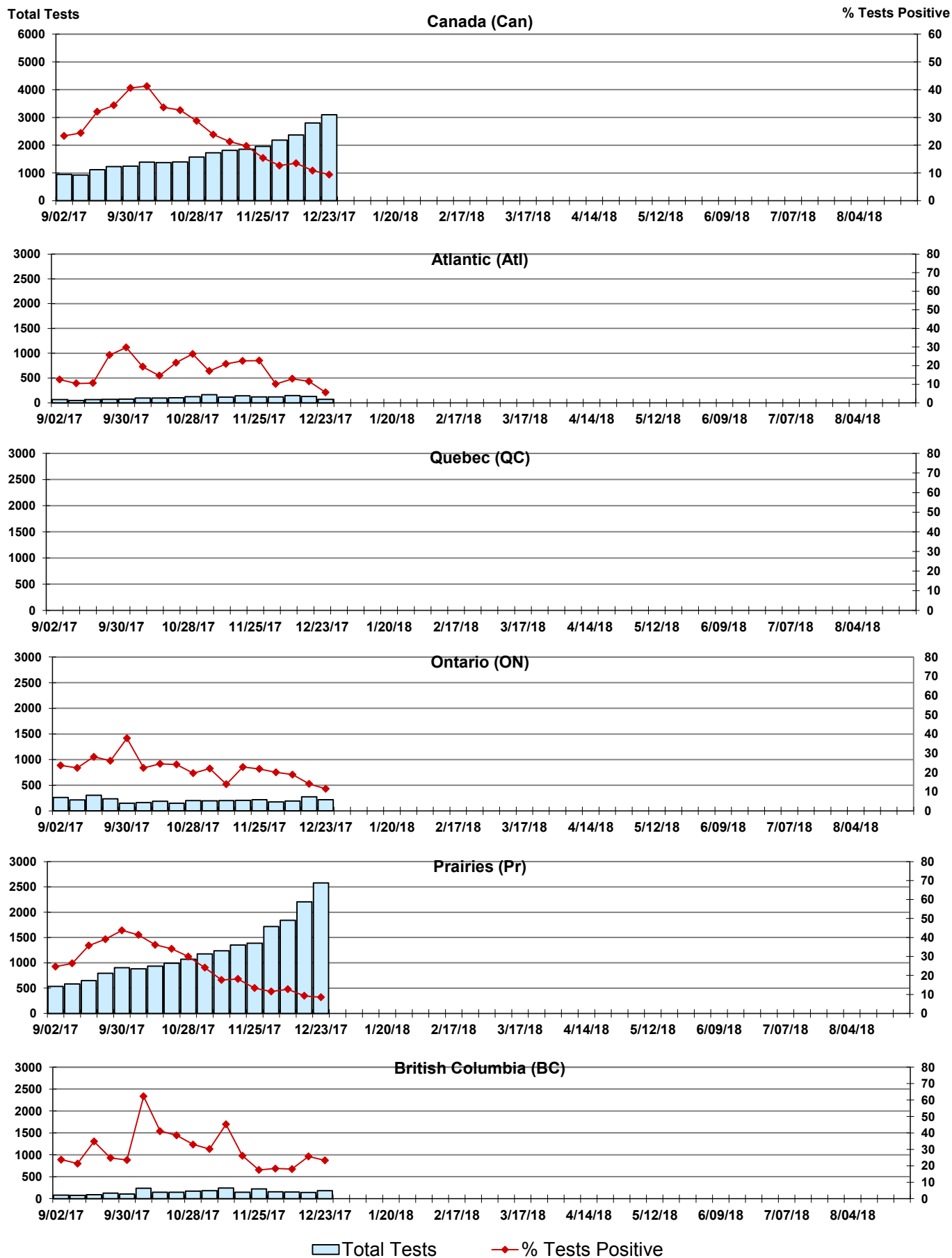
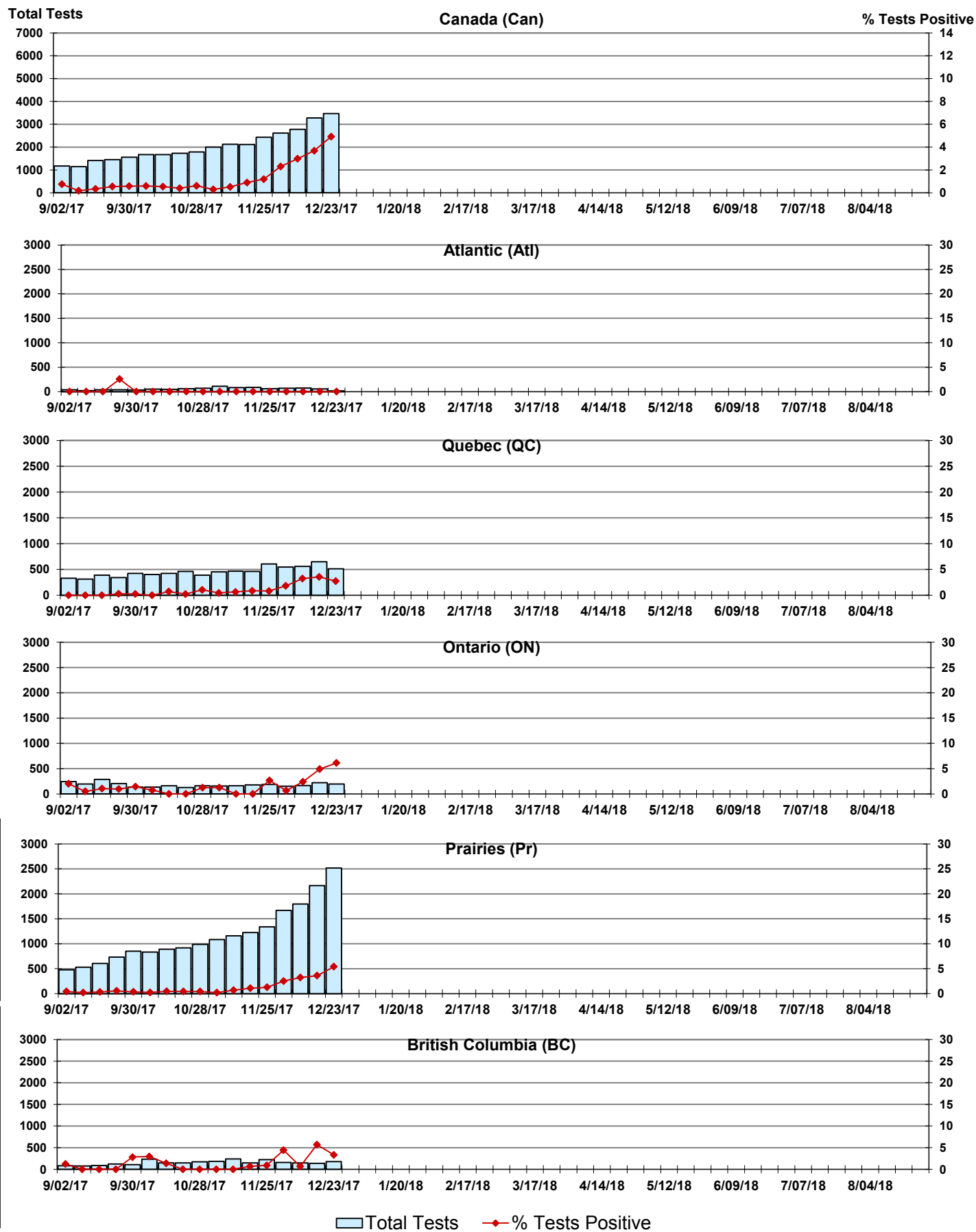


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.