

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 50 - ending December 16, 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 16, 2017 (Reporting Week 201750)

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	1	1	1	71	1	71	10	0	0	0	0	71	2	71	4	71	3	N.A.	N.A.
Prince Edward Island	17	0	3	0	3	0	17	1	2	0	0	0	0	0	2	0	2	0	2	1	2	0
Nova Scotia	78	0	0	7	7	0	79	6	8	1	0	0	0	0	8	0	8	0	8	3	8	0
New Brunswick	136	0	9	17	26	4	136	2	49	1	2	0	1	0	49	1	49	1	49	8	49	0
Atlantic	302	0	12	25	37	5	303	10	130	12	2	0	1	0	130	3	130	5	130	15	59	0
Région Nord-Est	279	0	0	34	34	17	254	20	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	346	0	0	18	18	13	372	36	131	2	0	0	0	0	131	8	100	0	N.A.	N.A.	97	0
Centre-du-Québec	367	0	0	16	16	16	313	43	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1237	0	0	91	91	51	1007	120	622	8	5	2	2	0	627	34	603	11	N.A.	N.A.	551	23
Ouest du Québec	282	0	0	16	16	25	128	14	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	227	0	0	35	35	2	227	21	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2738	0	0	210	210	124	2301	254	753	10	5	2	2	0	758	42	703	11	N.A.	N.A.	648	23
Ottawa P.H.L.	17	0	2	2	4	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	0
CHEO - Ottawa	190	0	0	13	13	5	190	15	20	0	0	0	0	0	20	0	20	2	20	7	20	0
Kingston P.H.L.	29	0	5	4	9	0	4	0	4	0	0	0	0	0	4	1	4	0	0	0	0	0
UHN / Mount Sinai Hospital	267	0	0	6	6	2	267	12	20	0	0	0	1	0	0	0	20	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	311	2	18	1	21	5	239	6	239	0	0	0	0	0	239	4	238	0	1	0	0	0
Sick Kids Hospital - Toronto	95	0	3	0	3	0	95	27	95	2	0	0	3	0	95	2	95	8	95	17	95	6
Sunnybrook & Women's College HSC	92	0	1	0	1	5	92	0	92	1	0	0	0	0	92	0	92	1	92	13	92	4
Sault Ste. Marie P.H.L.	15	0	0	0	0	0	15	0	15	0	0	0	0	0	15	0	15	0	0	0	0	0
Timmins P.H.L.	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	4	0	2	0	0	0
St. Joseph's - London	140	0	0	6	6	4	140	16	43	1	1	0	0	0	43	7	43	2	43	2	16	1
London P.H.L.	100	0	4	6	10	4	79	5	79	6	0	0	0	0	79	2	78	0	2	0	0	0
Orillia P.H.L.	27	0	1	1	2	1	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
Thunder Bay P.H.L.	16	0	2	0	2	0	14	0	14	0	0	1	0	0	14	0	14	0	0	0	0	0
Sudbury P.H.L.	31	0	2	0	2	0	29	0	29	0	0	0	0	0	29	1	27	0	2	0	0	0
Hamilton P.H.L.	102	0	0	5	5	4	88	8	88	0	0	0	0	0	88	2	85	2	3	0	0	0
Peterborough P.H.L.	57	0	2	2	4	0	25	0	25	2	0	0	0	0	25	0	25	0	0	0	0	0
Province of Ontario	1495	2	40	46	88	30	1288	89	774	12	1	1	4	0	754	19	765	15	260	39	223	11
Manitoba	256	1	17	25	43	0	253	7	120	4	0	0	1	0	120	1	82	3	120	8	82	3
Regina	373	3	47	2	52	9	373	3	373	38	10	1	0	0	373	9	373	33	373	64	373	16
Saskatoon	216	0	0	32	32	4	216	1	216	1	0	0	0	0	216	2	216	1	216	10	216	5
Province of Saskatchewan	589	3	47	34	84	13	589	4	589	39	10	1	0	0	589	11	589	34	589	74	589	21
Province of Alberta	1831	9	436	177	622	220	1364	0	1364	37	8	3	13	0	1364	17	1364	56	1364	107	1364	46
Prairies	2676	13	500	236	749	233	2206	11	2073	80	18	4	14	0	2073	29	2035	93	2073	189	2035	70
British Columbia	406	1	0	49	50	49	406	5	192	6	4	0	0	0	192	1	192	6	140	36	140	8
Yukon	14	0	0	0	0	7	14	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	34	0	18	0	18	0	34	0	34	1	0	0	0	0	34	0	34	2	34	5	34	1
Nunavut	18	0	1	0	1	0	13	0	13	1	1	0	0	0	13	0	13	0	5	3	5	0
Territories	66	0	19	0	19	7	61	0	47	2	1	0	0	0	47	0	47	2	39	8	39	1
CANADA	7683	16	571	566	1153	448	6565	369	3969	122	31	7	21	0	3954	94	3872	132	2642	287	3144	113

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 16, 2017 (Reporting Weeks / Code hebdomadaire 201735-201750)

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	726	0	3	4	7	2	726	3	726	45	3	14	0	0	726	11	727	15	726	103	N.A.	N.A.
Prince Edward Island	167	0	14	0	14	0	173	4	25	0	0	0	2	0	25	1	25	0	25	4	25	0
Nova Scotia	527	0	0	15	15	1	535	18	221	2	1	1	0	0	221	3	221	2	221	51	221	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	3296	0	69	94	163	11	3106	40	1676	60	18	16	9	0	1676	34	1677	21	1676	304	950	1
Région Nord-Est	1211	0	0	60	60	25	1112	51	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	1912	0	0	63	63	25	2169	121	1274	20	1	0	10	0	1313	46	1120	1	N.A.	N.A.	1064	0
Centre-du-Québec	1670	0	0	52	52	35	1404	121	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	10310	0	0	322	322	100	9240	469	6811	133	18	47	22	0	6946	304	6641	45	N.A.	N.A.	6158	75
Ouest du Québec	1553	0	0	56	56	42	606	62	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	1196	0	0	60	60	8	1196	80	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	17852	0	0	613	613	235	15727	904	8085	153	19	47	32	0	8259	350	7761	46	N.A.	N.A.	7222	75
Ottawa P.H.L.	191	1	3	2	6	0	171	0	171	1	0	0	0	0	171	1	167	0	19	6	10	1
CHEO - Ottawa	1972	0	0	36	36	11	1971	57	326	6	0	0	6	0	352	7	408	3	352	101	352	1
Kingston P.H.L.	280	0	11	5	16	0	242	0	242	6	0	0	1	0	242	5	223	0	62	7	22	0
UHN / Mount Sinai Hospital	2992	0	0	37	37	13	2992	72	278	4	0	0	6	0	0	0	256	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	4424	25	106	5	136	16	4167	68	4167	66	6	5	1	0	4167	37	4031	16	422	48	234	5
Sick Kids Hospital - Toronto	971	2	7	1	10	1	971	95	971	25	2	4	20	0	971	23	971	37	971	302	971	18
Sunnybrook & Women's College HSC	831	0	10	0	10	7	831	7	831	12	8	2	3	0	831	0	831	6	831	134	831	9
Sault Ste. Marie P.H.L.	118	0	2	0	2	0	113	0	113	0	0	0	1	0	113	0	108	0	18	3	12	0
Timmins P.H.L.	85	0	1	0	1	0	84	0	84	0	0	0	0	0	84	0	78	0	12	1	2	0
St. Joseph's - London	789	0	0	13	13	21	789	54	398	15	1	0	7	0	398	12	385	3	277	86	250	1
London P.H.L.	844	1	16	8	25	10	792	15	792	14	2	0	3	0	792	5	747	5	127	21	63	0
Orillia P.H.L.	298	0	19	4	23	4	244	3	244	7	0	1	0	0	244	4	242	1	20	4	11	0
Thunder Bay P.H.L.	203	0	9	0	9	0	192	0	192	1	1	2	0	0	192	0	189	2	6	0	3	0
Sudbury P.H.L.	337	1	10	2	13	1	320	2	320	3	0	0	0	0	319	2	301	0	33	1	13	0
Hamilton P.H.L.	921	6	8	6	20	9	876	25	876	22	1	2	3	0	876	12	832	8	117	21	64	2
Peterborough P.H.L.	565	0	5	2	7	2	519	12	519	13	0	1	0	0	519	2	516	5	47	12	44	2
Province of Ontario	15821	36	207	121	364	95	15274	410	10524	195	21	17	51	0	10271	110	10285	88	3314	747	2882	39
Manitoba	2727	5	87	27	119	2	2644	19	1856	39	4	0	3	0	1856	38	849	39	1856	245	849	6
Regina	3757	7	145	5	157	20	3757	17	3757	237	41	2	15	0	3757	94	3757	75	3757	1266	3757	45
Saskatoon	1706	0	0	97	97	12	1706	20	1605	25	1	6	0	0	1706	31	1706	9	1706	339	1706	10
Province of Saskatchewan	5463	7	145	102	254	32	5463	37	5362	262	42	8	15	0	5463	125	5463	84	5463	1605	5463	55
Province of Alberta	13321	44	1922	703	2669	719	10807	0	10807	314	86	50	133	0	10807	175	10807	333	10807	2285	10807	175
Prairies	21511	56	2154	832	3042	753	18914	56	18025	615	132	58	151	0	18126	338	17119	456	18126	4135	17119	236
British Columbia	4802	38	197	111	346	141	4802	60	3088	107	27	15	49	0	3088	24	3088	37	2424	779	2424	32
Yukon	116	0	5	0	5	17	116	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	167	0	31	0	31	0	166	0	166	4	0	0	6	0	166	1	166	7	166	40	166	7
Nunavut	180	0	12	0	12	1	164	1	165	4	1	8	0	0	164	10	164	2	47	24	44	1
Territories	463	0	48	0	48	18	446	3	331	8	1	8	6	0	330	11	330	9	213	64	210	8
CANADA	63745	130	2675	1771	4576	1253	58269	1473	41729	1138	218	161	298	0	41750	867	40260	657	25753	6029	30807	391

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

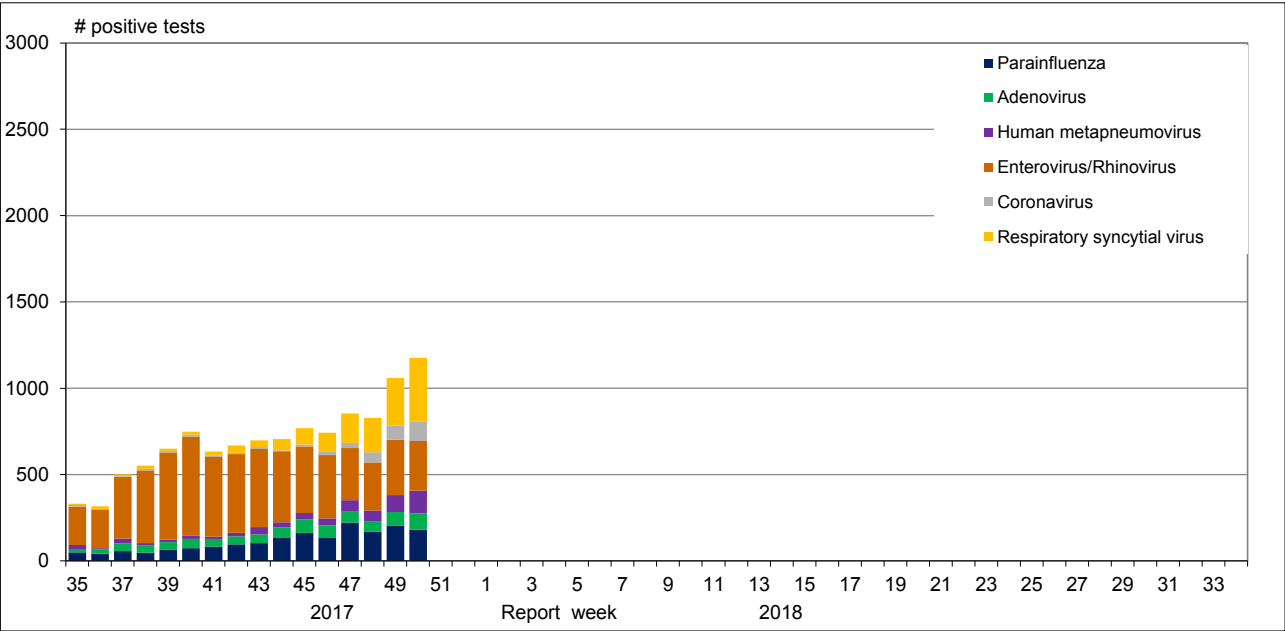


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

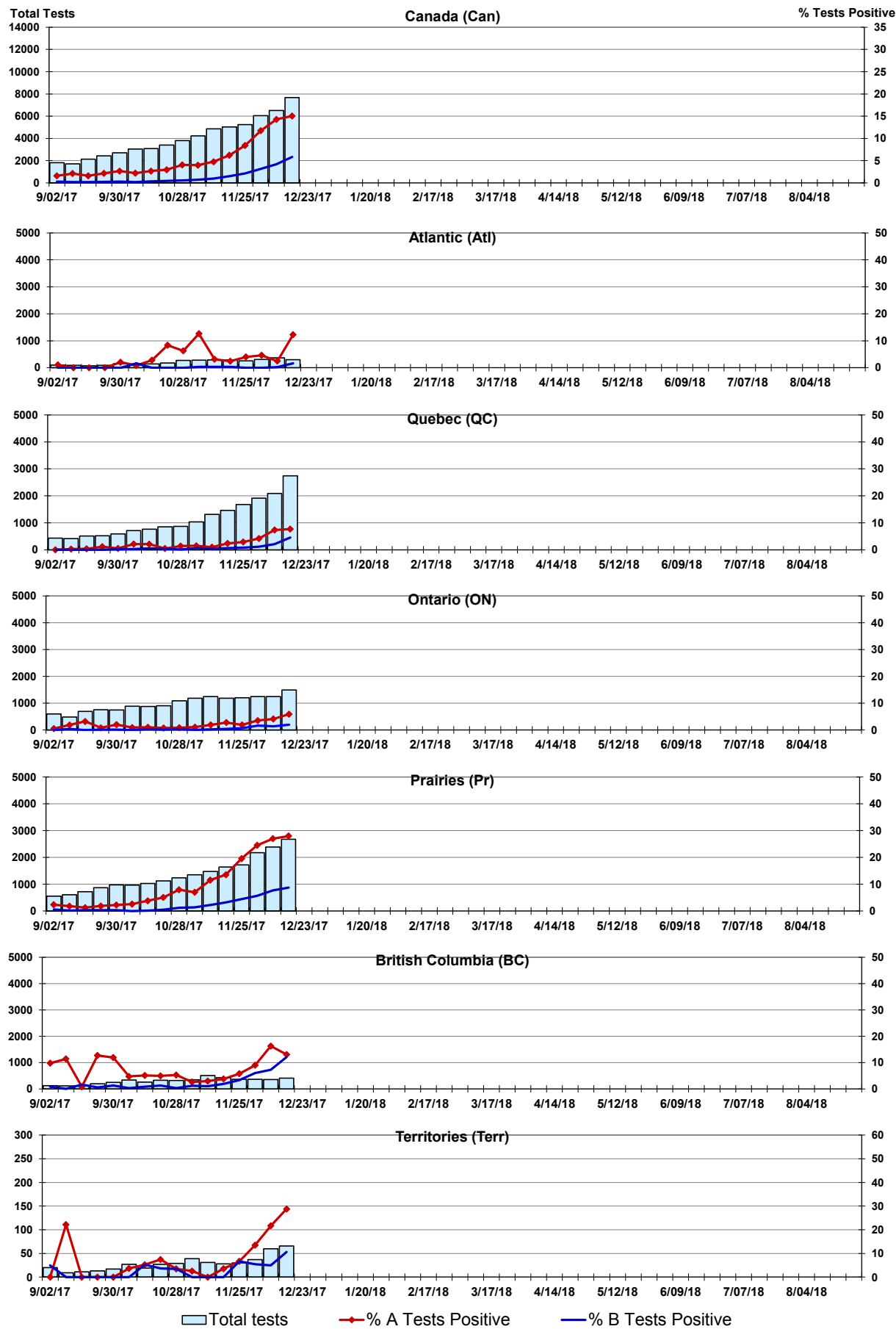


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

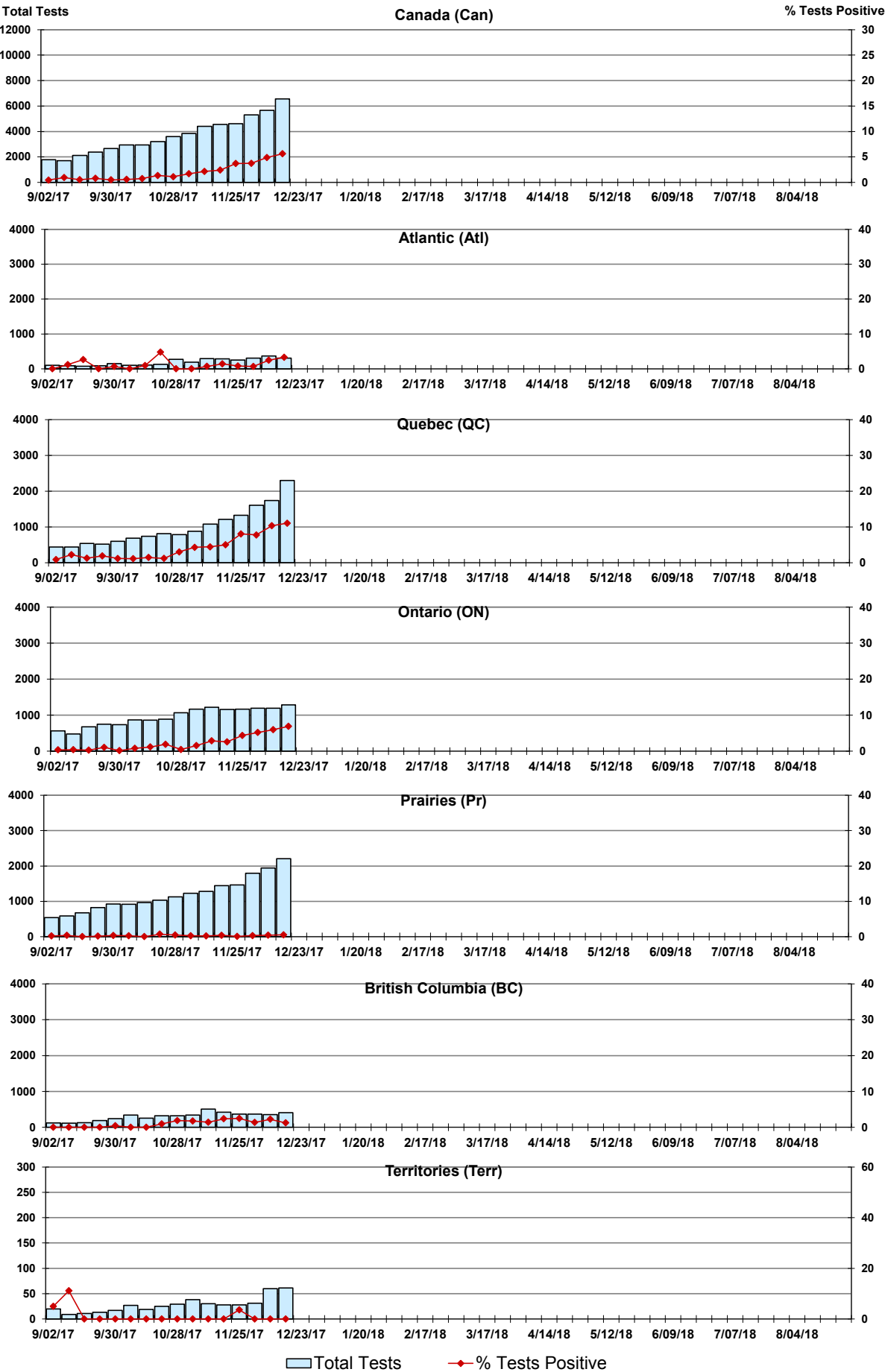


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

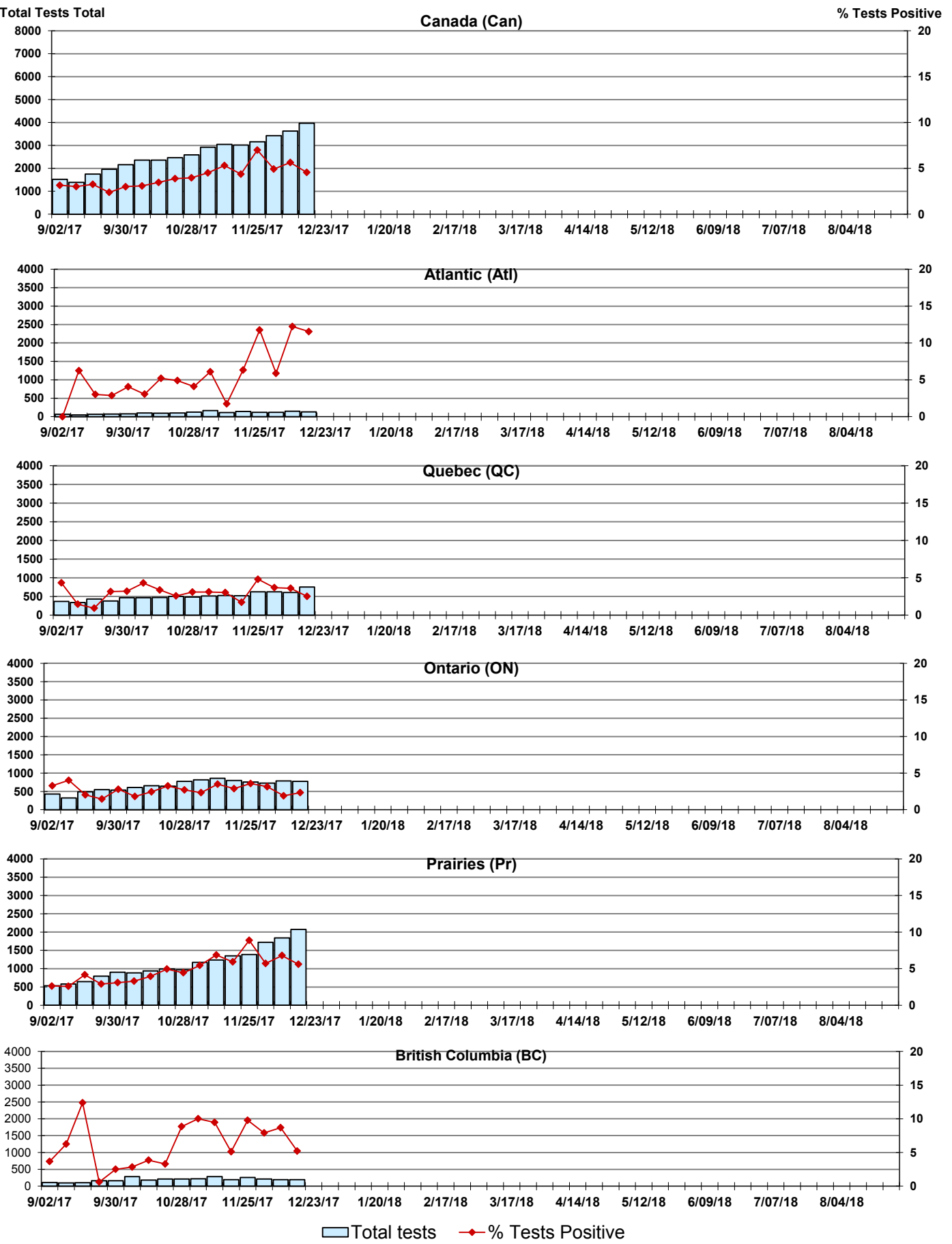


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

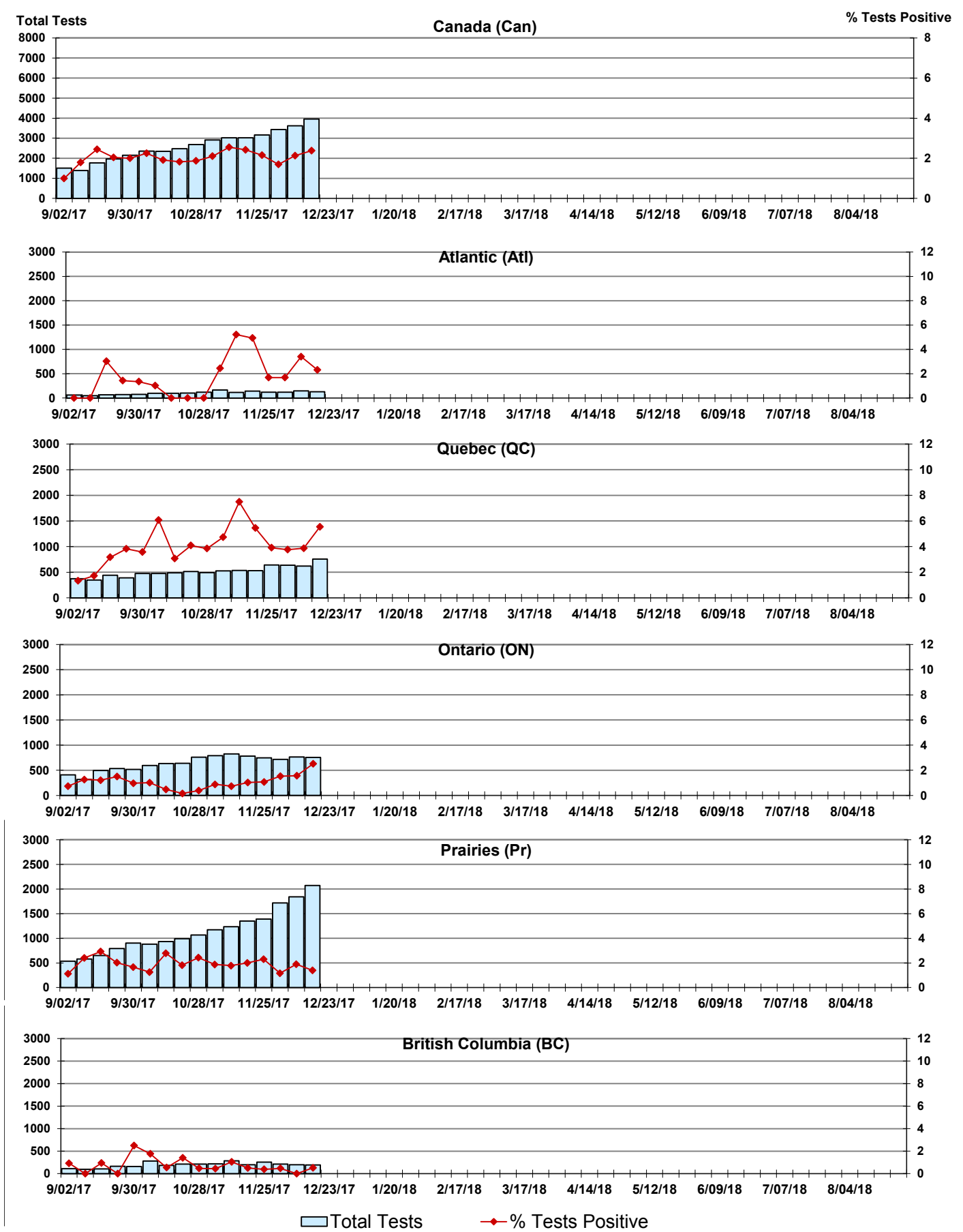


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

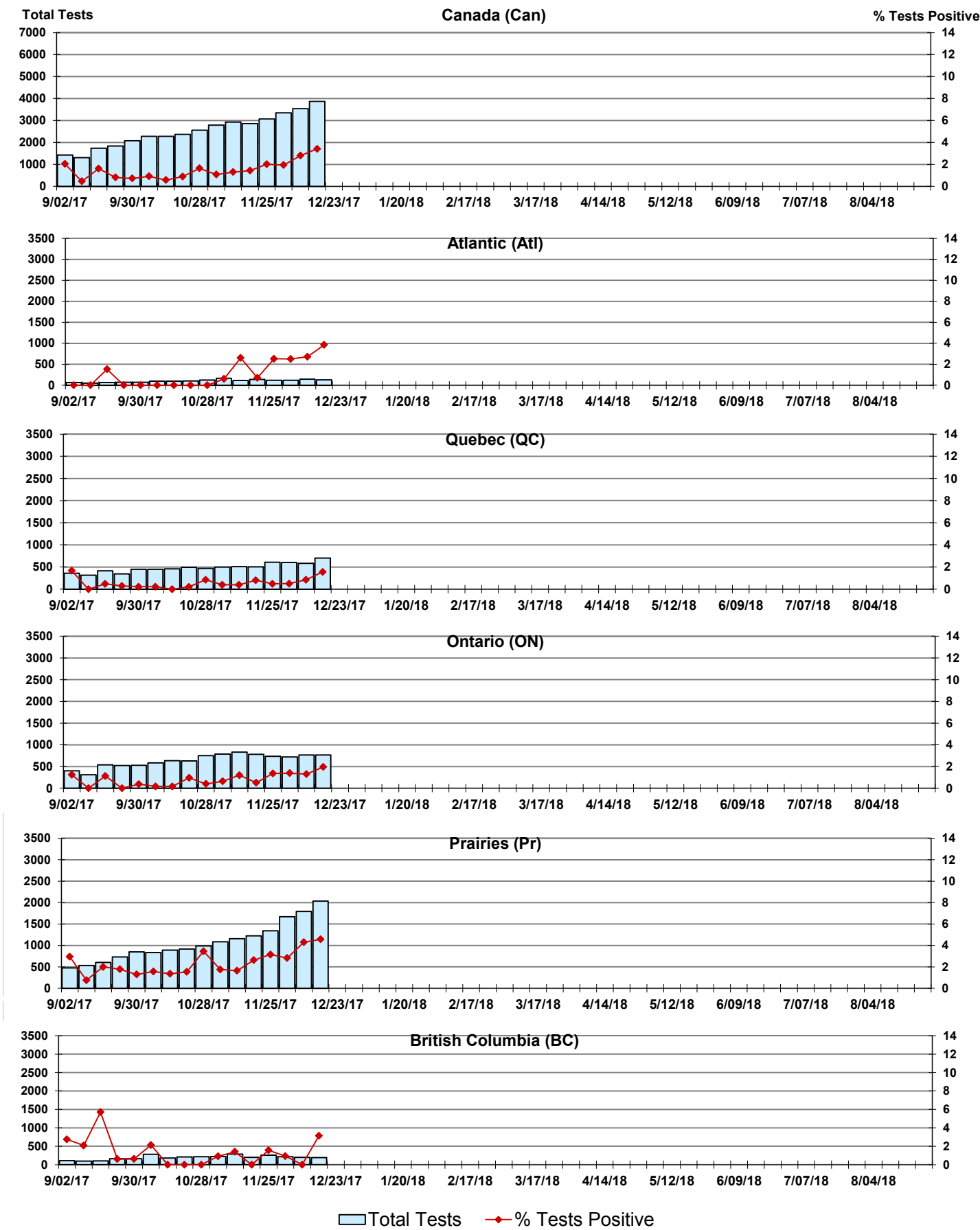


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

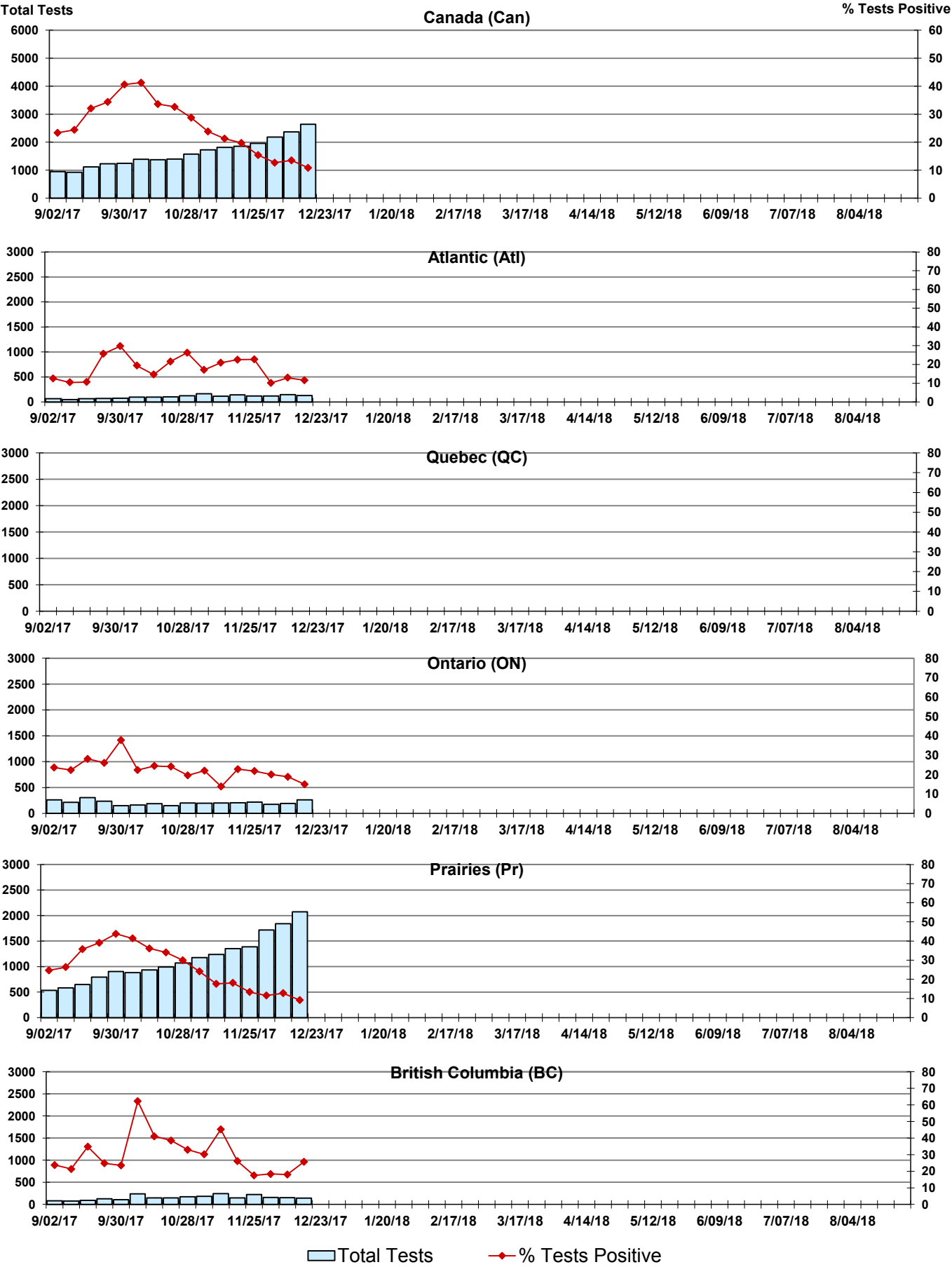
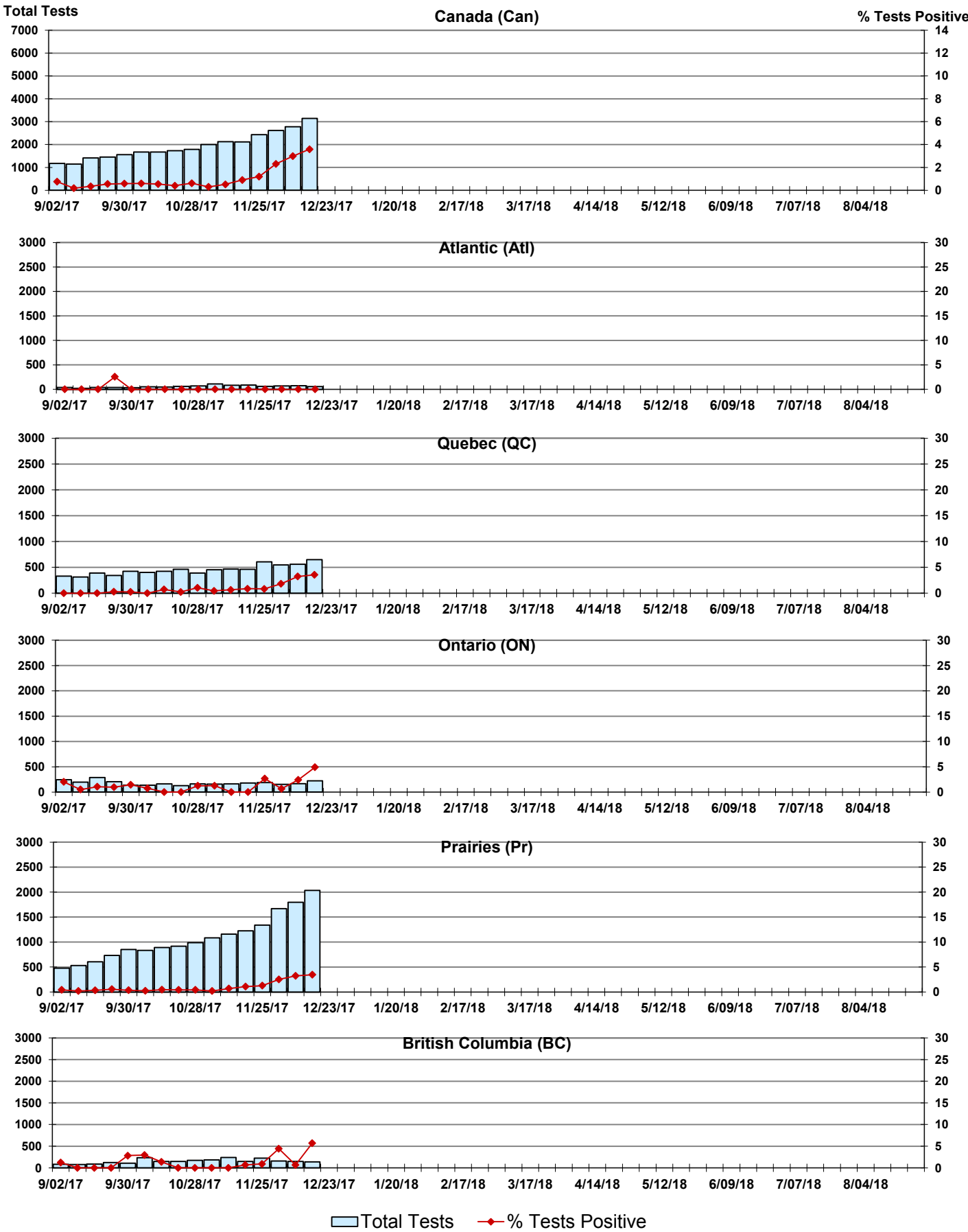


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.