

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 38 - ending September 21, 2019

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 September 21, 2019 (Reporting Week 201938)

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	47	0	0	0	0	0	47	0	47	0	0	0	0	0	47	0	47	0	47	23	N.A.	N.A.
Prince Edward Island	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nova Scotia	27	0	0	0	0	0	27	0	4	0	0	0	0	0	4	0	4	0	4	1	4	0
New Brunswick	70	0	0	0	0	0	70	0	34	1	0	0	0	0	34	2	34	0	34	16	34	0
Atlantic	144	0	0	0	0	0	144	0	85	1	0	0	0	0	85	2	85	0	85	40	38	0
Région Nord-Est	18	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	44	0	0	0	0	0	50	0	54	1	0	0	0	0	59	1	50	0	N.A.	N.A.	50	0
Centre-du-Québec	28	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	509	0	0	2	2	1	518	4	404	2	0	0	0	0	404	19	402	3	N.A.	N.A.	402	0
Ouest du Québec	55	0	0	1	1	0	56	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	76	0	0	0	0	0	76	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	730	0	0	3	3	1	744	7	458	3	0	0	0	0	463	20	452	3	N.A.	N.A.	452	0
P.H.O.L. - Ottawa	15	0	0	0	0	0	15	0	9	0	0	0	0	0	9	0	8	0	1	0	0	0
CHEO - Ottawa	101	0	0	0	0	0	101	1	22	0	0	0	0	0	22	0	22	0	24	8	22	0
P.H.O.L. - Kingston	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	0	0	0	0
UHN / Mount Sinai Hospital	196	0	0	2	2	1	196	0	18	0	0	1	1	0	0	0	18	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	197	0	1	0	1	0	197	1	196	3	0	0	0	0	196	0	182	0	14	0	0	0
Sick Kids Hospital - Toronto	44	0	0	0	0	0	44	1	44	0	0	0	2	0	44	0	44	4	44	20	44	0
Sunnybrook & Women's College HSC	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	7	0	7	0
P.H.O.L. - Sault Ste. Marie	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	3	0	1	0	0	0
P.H.O.L. - Timmins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
St. Joseph's - London	32	0	0	0	0	0	32	0	32	0	0	0	0	0	32	1	32	0	32	12	32	0
P.H.O.L. - London	34	0	0	0	0	0	34	0	34	1	0	0	0	0	34	0	33	0	1	0	0	0
P.H.O.L. - Orillia	11	0	0	0	0	0	11	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
P.H.O.L. - Thunder Bay	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	7	0	1	0	0	0
P.H.O.L. - Sudbury	8	0	0	0	0	0	8	0	8	0	0	0	0	0	8	0	8	0	0	0	0	0
P.H.O.L. - Hamilton	41	0	0	0	0	1	41	1	41	0	0	0	0	0	41	1	41	0	1	0	0	0
P.H.O.L. - Peterborough	20	0	0	0	0	0	20	0	17	0	0	0	0	0	17	0	17	0	0	0	0	0
Province of Ontario	726	0	1	2	3	2	726	4	455	4	0	1	3	0	437	2	437	4	126	40	105	0
Manitoba	224	0	0	0	0	1	224	0	173	1	1	0	0	0	173	1	72	0	173	27	72	0
Regina	150	0	0	1	1	0	150	0	70	0	0	0	0	0	70	3	70	0	70	26	70	0
Saskatoon	103	0	0	1	1	0	103	0	103	2	0	0	0	0	103	1	103	0	103	30	103	0
Province of Saskatchewan	253	0	0	2	2	0	253	0	173	2	0	0	0	0	173	4	173	0	173	56	173	0
Province of Alberta	563	1	4	2	7	2	509	0	509	8	1	1	0	0	509	6	509	3	509	224	509	1
Prairies	1040	1	4	4	9	3	986	0	855	11	2	1	0	0	855	11	754	3	855	307	754	1
British Columbia	325	2	6	3	11	0	273	0	155	5	2	2	3	0	155	2	155	18	154	73	154	0
Yukon	6	0	0	0	0	0	6	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	12	0	0	0	0	0	12	0	12	0	0	0	0	0	12	0	12	0	12	5	12	0
Nunavut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Territories	18	0	0	0	0	0	18	0	12	0	0	0	0	0	12	0	12	0	12	5	12	0
CANADA	2983	3	11	12	26	6	2891	11	2020	24	4	4	6	0	2007	37	1895	28	1232	465	1515	1

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.

Results from British Columbia comprise of specimens from the following sites: BC Children's and Women's Hospital, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, VICT

Delays in the reporting of data may cause data to change retrospectively.

For BC, only data from subtyped influenza A specimens are included in the weekly number of influenza detections and so the sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

Table 2: Respiratory Virus Detections/Isolations for the period August 31, 2019 - September 21, 2019 (Reporting Weeks 201935-201938)

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	146	0	0	0	0	0	146	0	146	2	0	0	0	0	146	0	146	0	146	45	N.A.	N.A.
Prince Edward Island	2	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
Nova Scotia	58	0	0	0	0	0	59	0	18	0	0	0	0	0	18	0	18	0	18	2	18	0
New Brunswick	333	1	1	2	4	0	333	0	157	3	0	0	0	0	157	5	157	0	157	53	157	0
Atlantic	539	1	1	2	4	0	540	0	322	5	0	0	0	0	322	5	322	0	322	100	176	0
Région Nord-Est	87	0	0	0	0	0	76	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	174	0	0	0	0	0	235	0	246	2	0	0	0	0	257	4	170	0	N.A.	N.A.	234	0
Centre-du-Québec	85	0	0	1	1	0	77	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1511	0	0	10	10	5	1546	10	1262	12	1	0	1	0	1262	45	1065	5	N.A.	N.A.	1246	4
Ouest du Québec	147	0	0	3	3	0	150	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	185	0	0	3	3	1	183	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	2189	0	0	17	17	6	2267	14	1508	14	1	0	1	0	1519	49	1235	5	N.A.	N.A.	1480	4
P.H.O.L. - Ottawa	42	0	0	0	0	0	40	0	34	1	0	0	0	0	34	0	32	0	2	0	0	0
CHEO - Ottawa	322	0	0	1	1	1	322	5	76	0	0	0	0	0	76	0	76	0	79	21	75	0
P.H.O.L. - Kingston	25	0	0	0	0	0	25	0	25	0	0	0	0	0	25	0	25	0	1	0	0	0
UHN / Mount Sinai Hospital	650	0	0	7	7	2	650	4	59	0	0	3	1	0	0	0	59	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	691	0	7	0	7	0	691	2	677	10	0	2	0	0	677	3	640	0	43	0	0	0
Sick Kids Hospital - Toronto	126	0	0	0	0	0	126	3	126	3	0	0	2	0	126	0	126	4	126	47	126	0
Sunnybrook & Women's College HSC	22	0	0	0	0	0	22	0	22	0	0	0	0	0	22	0	22	0	22	2	22	0
P.H.O.L. - Sault Ste. Marie	14	0	0	0	0	0	14	0	14	0	0	0	0	0	14	0	13	0	1	0	0	0
P.H.O.L. - Timmins	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	0	0	0	0
St. Joseph's - London	92	0	0	0	0	0	92	1	92	1	0	0	0	0	92	2	92	0	90	29	89	0
P.H.O.L. - London	133	0	0	0	0	0	133	0	133	1	0	0	0	0	133	0	126	0	8	0	0	0
P.H.O.L. - Orillia	26	0	0	0	0	0	26	0	22	0	0	0	0	0	22	0	21	0	1	0	0	0
P.H.O.L. - Thunder Bay	19	0	0	0	0	0	19	0	19	0	0	1	0	0	19	0	14	0	5	0	0	0
P.H.O.L. - Sudbury	26	0	0	0	0	0	26	0	26	0	0	0	0	0	26	0	22	0	4	0	0	0
P.H.O.L. - Hamilton	131	1	2	0	3	1	125	1	124	1	0	0	0	0	124	2	121	0	4	0	0	0
P.H.O.L. - Peterborough	59	0	0	0	0	0	56	0	53	0	0	0	0	0	53	0	53	0	3	0	0	0
Province of Ontario	2383	1	9	8	18	4	2372	16	1507	17	0	6	3	0	1448	7	1447	5	389	99	312	0
Manitoba	691	0	0	1	1	1	691	3	517	1	1	1	0	0	517	6	218	0	517	82	218	1
Regina	672	0	0	2	2	0	672	0	393	1	0	0	0	0	393	5	286	0	393	94	393	0
Saskatoon	332	0	0	1	1	0	332	1	332	4	0	0	1	0	332	8	332	0	332	96	332	0
Province of Saskatchewan	1004	0	0	3	3	0	1004	1	725	5	0	0	1	0	725	13	618	0	725	190	725	0
Province of Alberta	1884	1	17	2	20	4	1716	0	1716	16	2	6	5	0	1716	29	1716	6	1716	581	1716	4
Prairies	3579	1	17	6	24	5	3411	4	2958	22	3	7	6	0	2958	48	2552	6	2958	853	2659	5
British Columbia	1025	4	28	5	37	0	973	1	644	10	2	6	3	0	644	4	644	31	613	167	613	2
Yukon	39	0	2	0	2	0	39	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	38	0	0	0	0	0	38	0	38	0	0	0	0	0	38	0	38	0	38	24	38	1
Nunavut	9	0	0	0	0	0	9	0	9	0	2	0	0	0	9	1	9	0	9	4	9	0
Territories	86	0	2	0	2	0	86	0	47	0	2	0	0	0	47	1	47	0	47	28	47	1
CANADA	9801	7	57	38	102	15	9649	35	6986	68	8	19	13	0	6938	114	6247	47	4329	1247	5287	12

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.

Results from British Columbia comprise of specimens from the following sites: BC Children's and Women's Hospital, Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Powell River Hospital, St. Paul's Hospital, Vancouver General Hospital, Victoria General Hospital. 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.

For BC, only data from subtyped influenza A specimens are included in the weekly number of influenza detections and so the sum of A(H1N1)pdm09, A(H3), and A(UnS) positive results may not equal the sum of total Flu A positive results.

Figure 1: Number positive laboratory tests for other respiratory viruses by report week, Canada, 2019-20

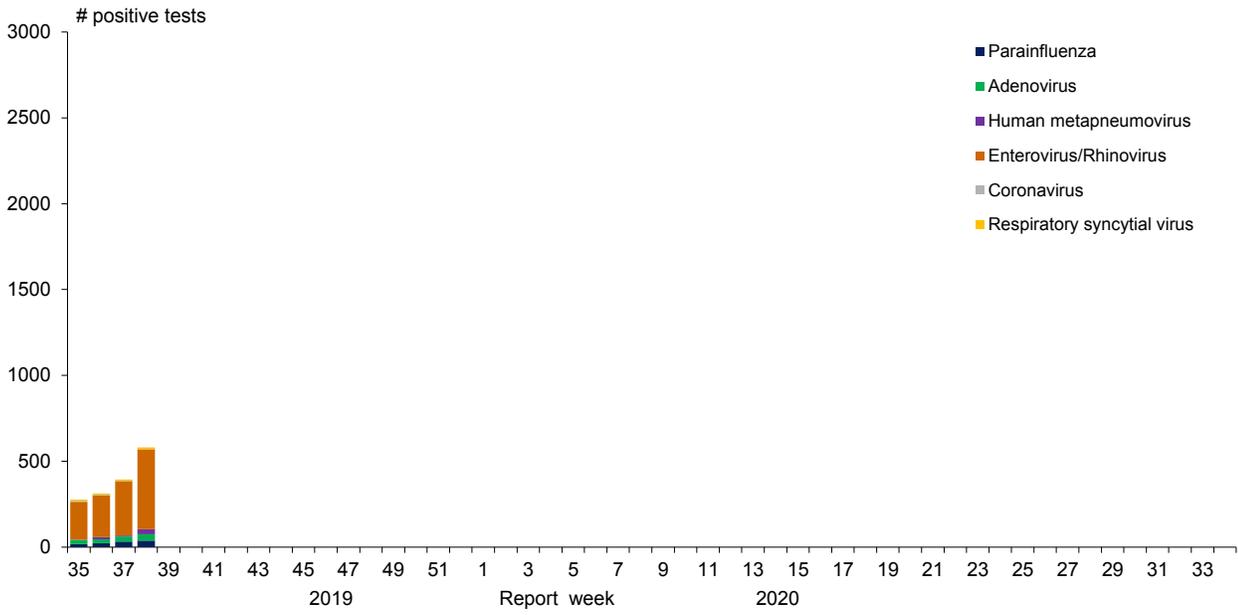


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

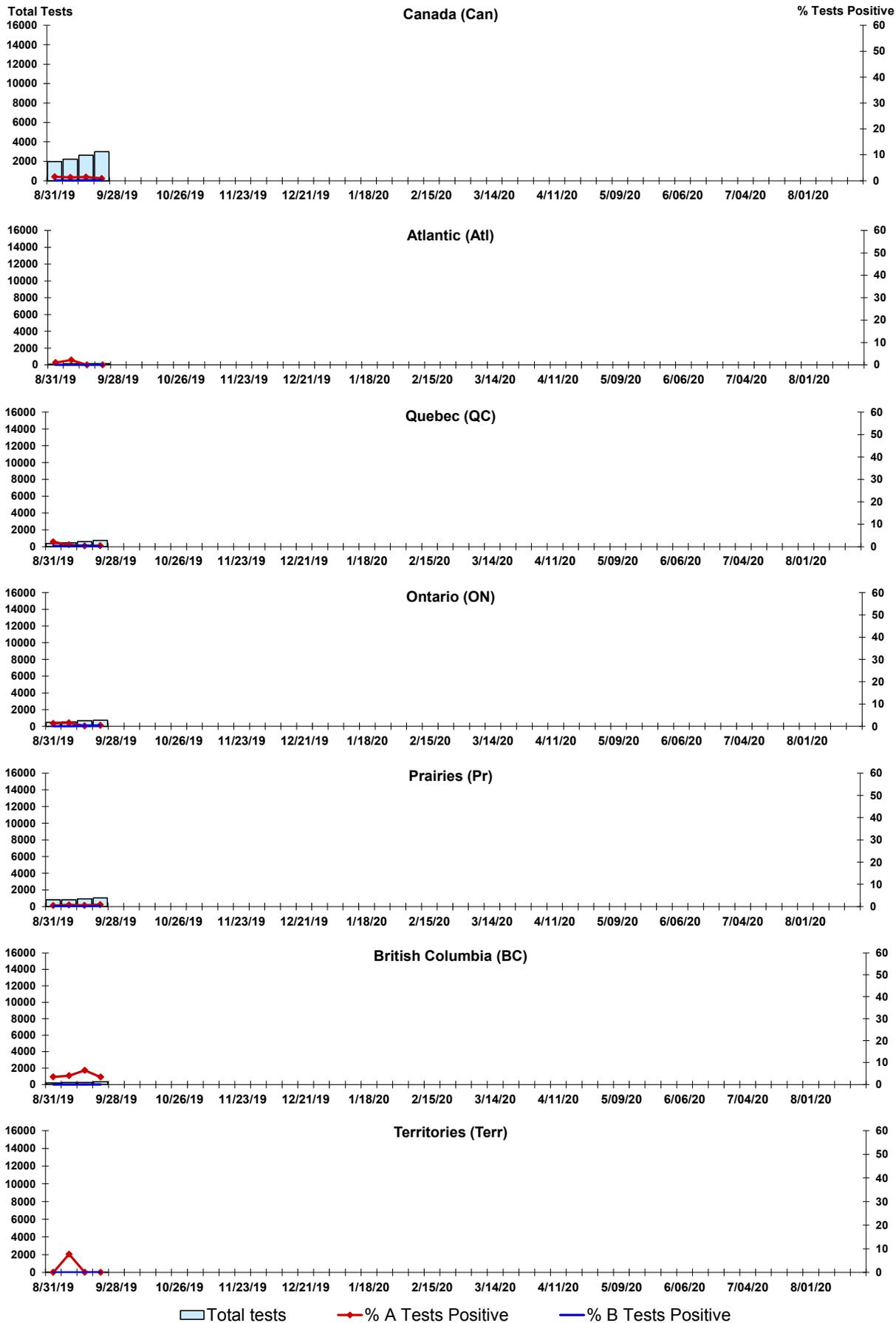


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

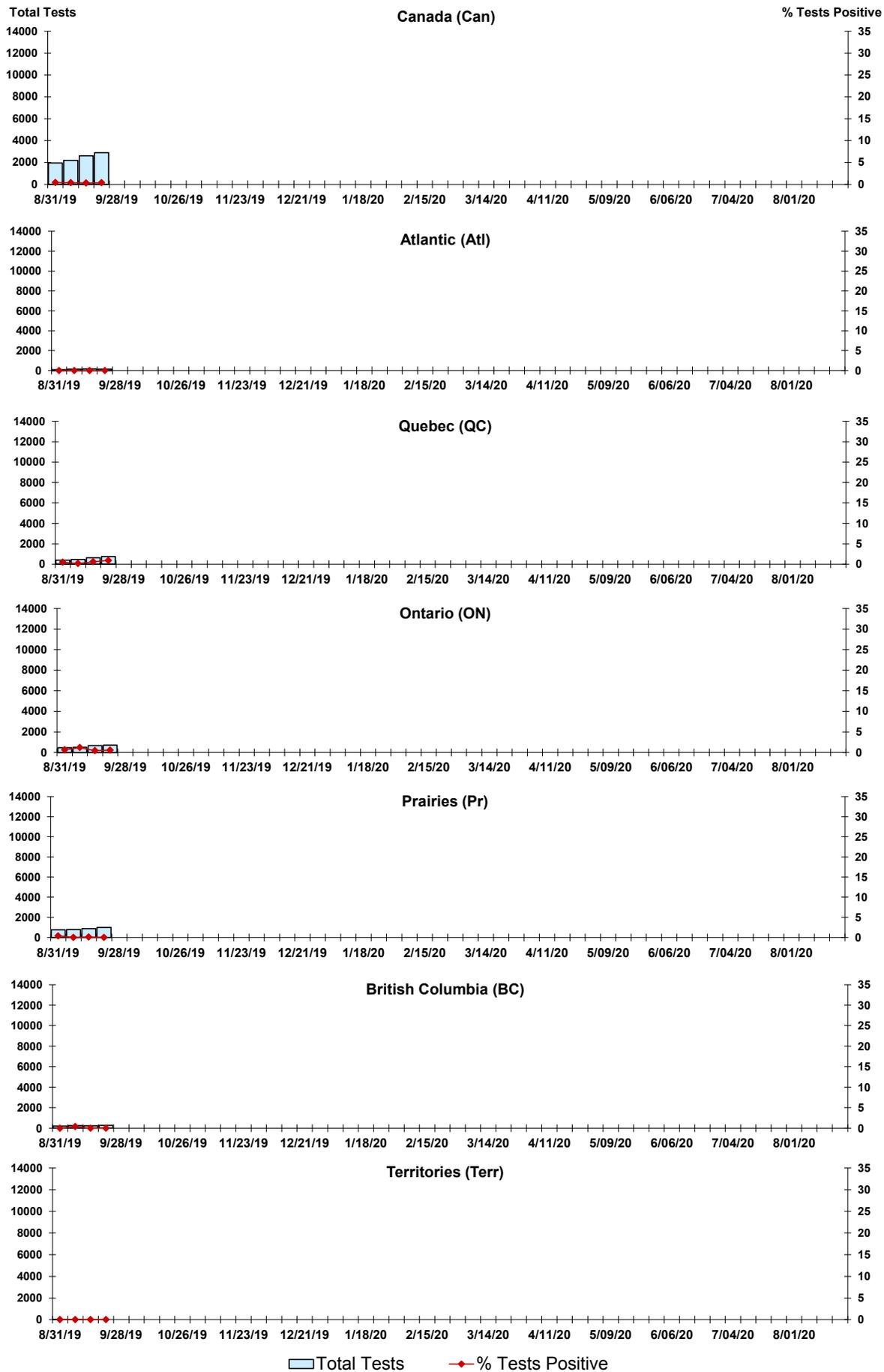


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

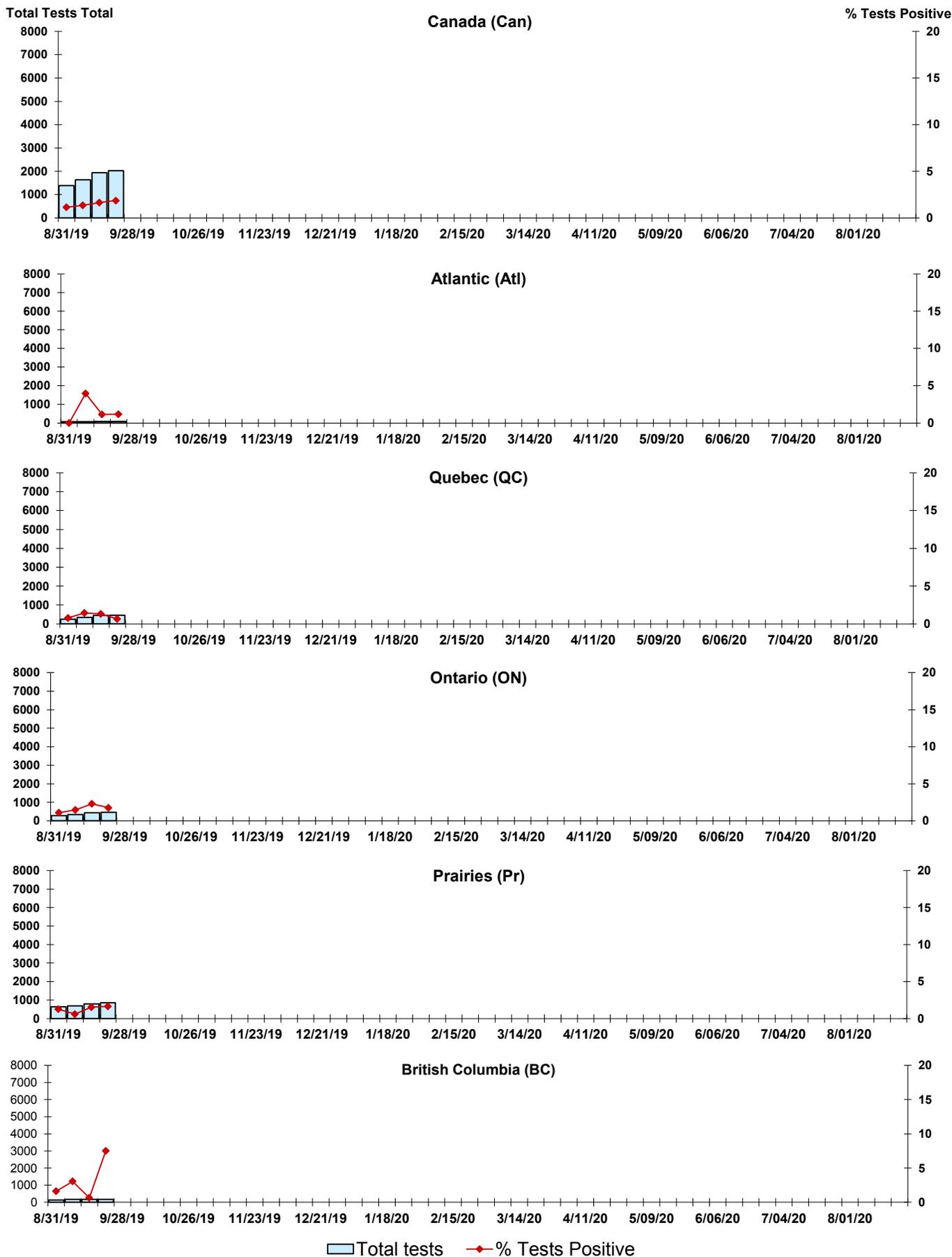


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

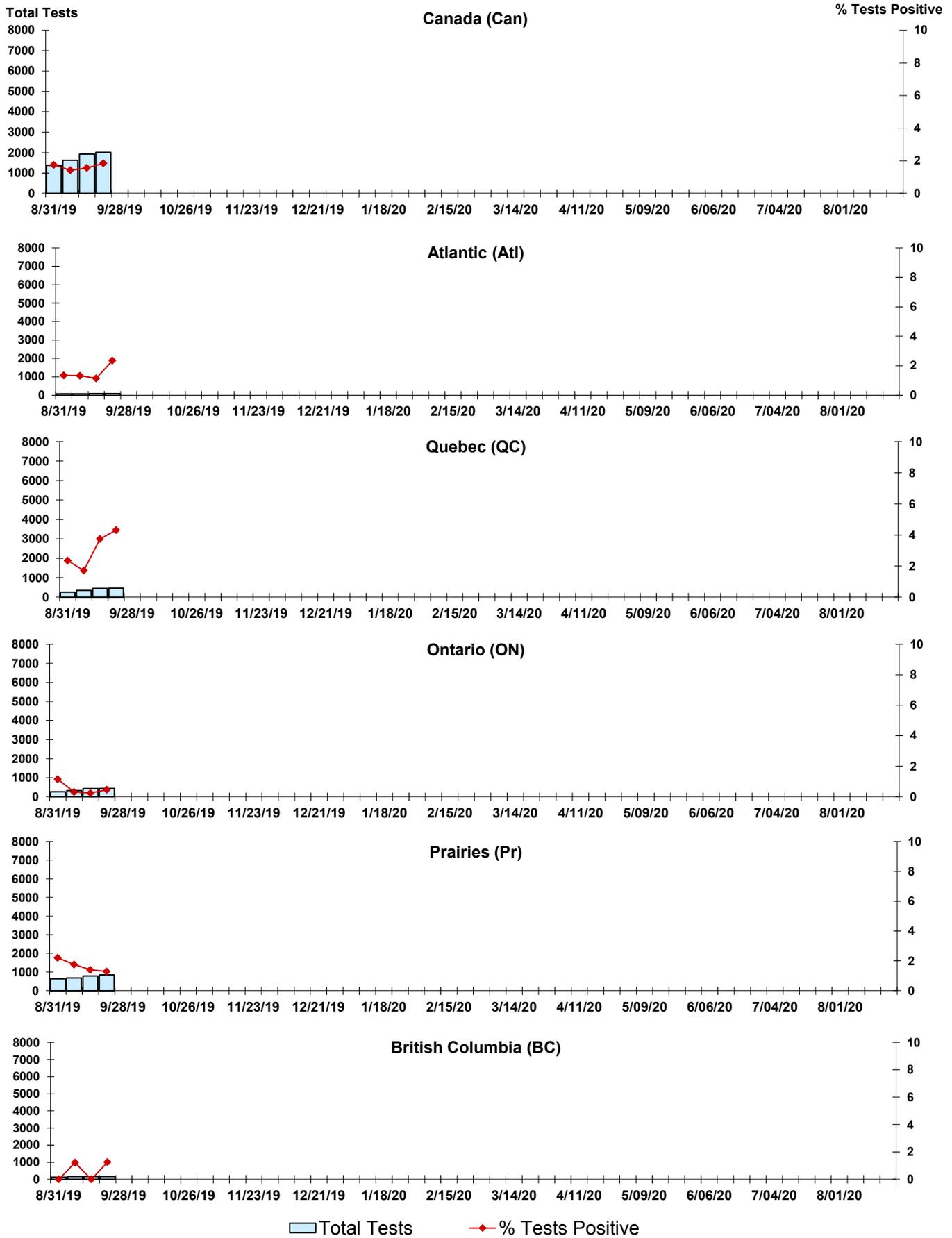


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

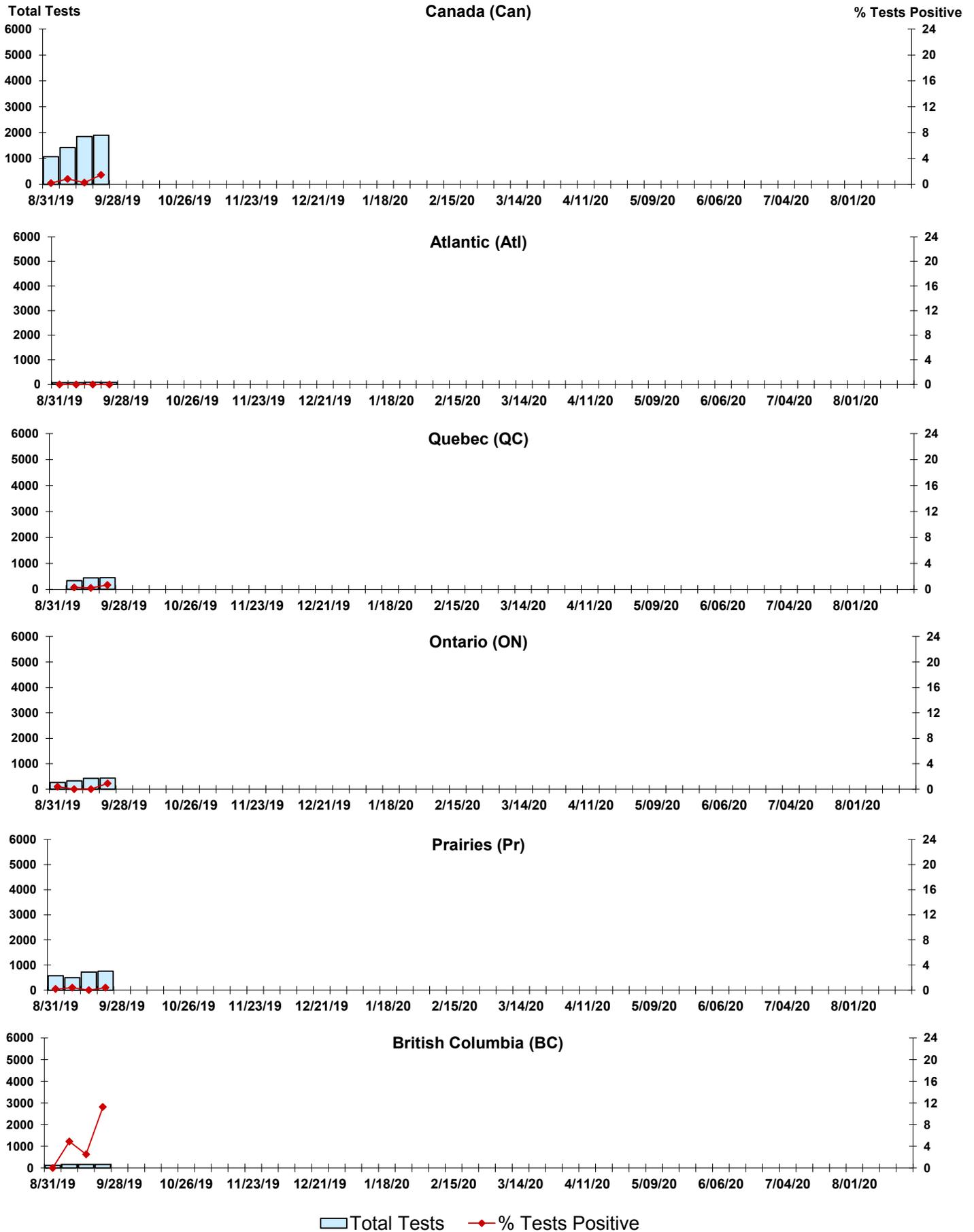


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

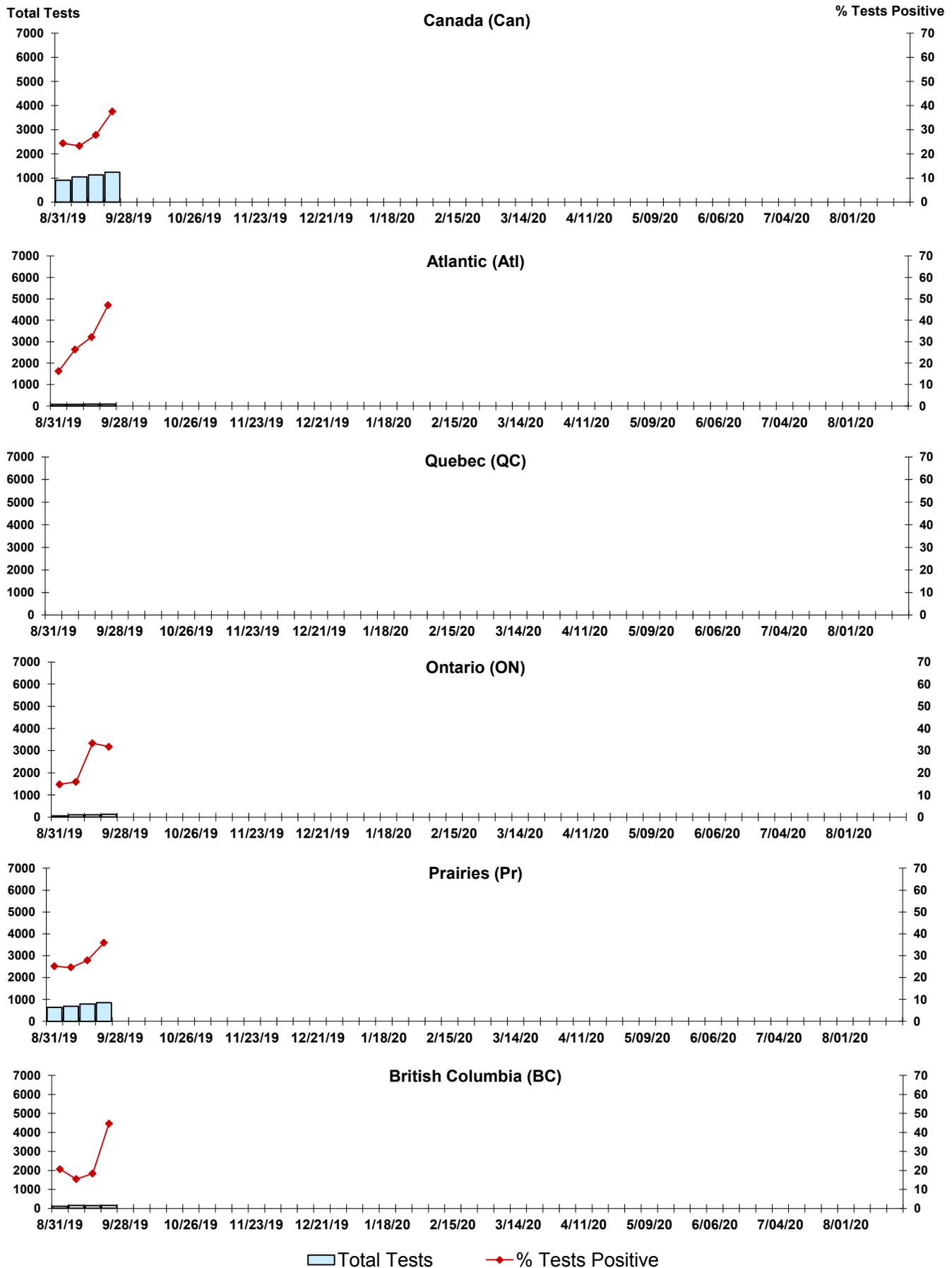
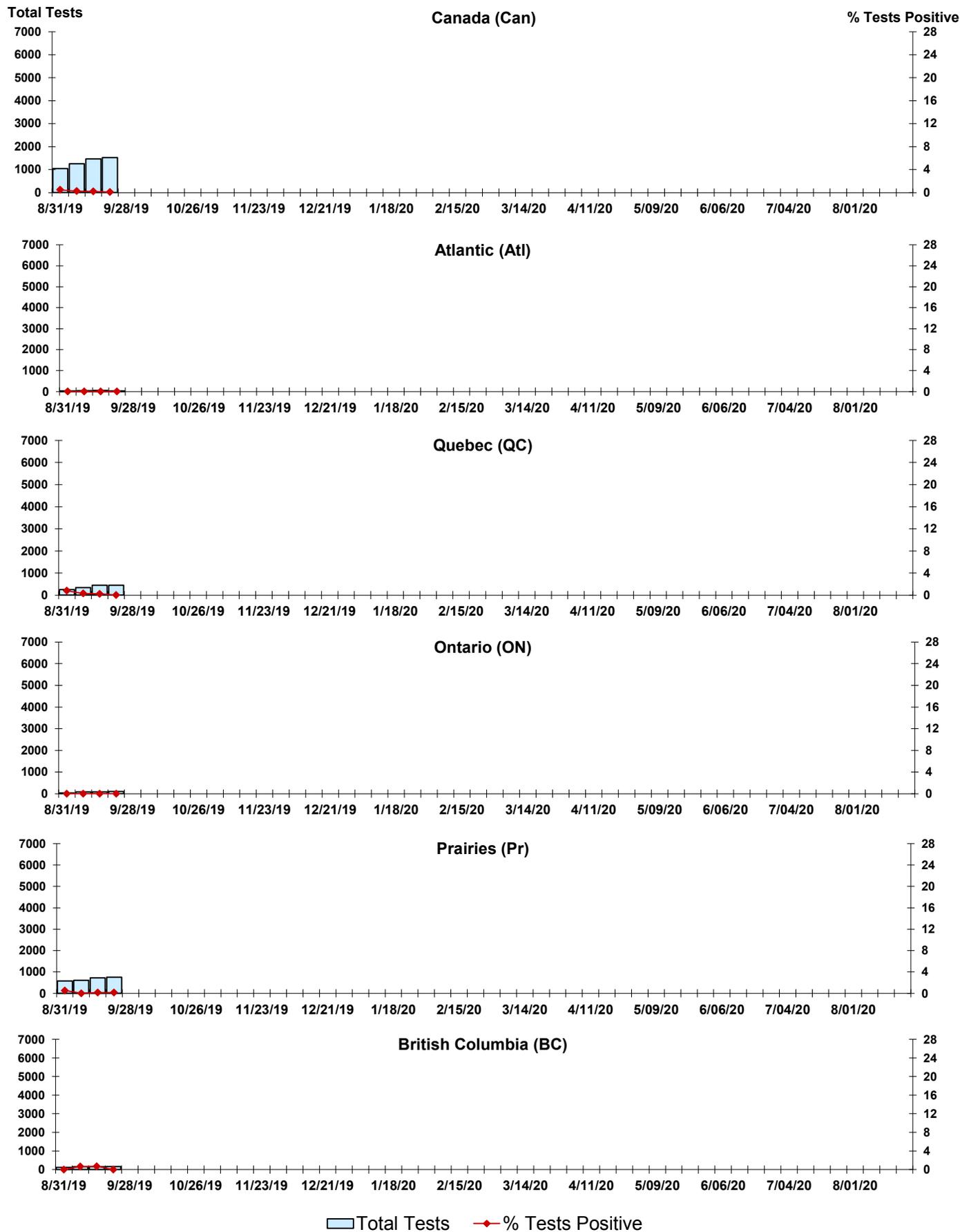


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.