

Respiratory Virus Report, Week 40 - ending October 3, 2020

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.

In this Respiratory Virus Report, the number of detections of coronavirus reflects only seasonal human coronaviruses, not the novel pandemic coronavirus (SARS-CoV2) that causes COVID-19. For information on COVID-19, see the [Coronavirus disease \(COVID-19\): Outbreak](#)

Table 1: Respiratory Virus Detections/Isolations for the week ending October 3, 2020 (Reporting Week 202040)

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	374	0	0	0	0	0	374	2	374	0	0	0	0	0	374	1	374	0	374	146	N.A.	N.A.
Prince Edward Island	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	4	2	4	0
Nova Scotia	8	0	0	0	0	0	8	0	7	0	0	0	0	0	7	0	7	0	7	1	7	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	386	0	0	0	0	0	386	2	385	0	0	0	0	0	385	1	385	0	385	149	11	0
Région Nord-Est	15	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	20	0	0	0	0	0	22	0	17	0	0	0	0	0	17	2	17	0	N.A.	N.A.	17	0
Centre-du-Québec	10	0	0	0	0	0	11	0	6	0	0	0	0	0	6	0	6	0	N.A.	N.A.	6	0
Montréal-Laval	198	0	0	0	0	0	198	0	113	0	0	0	0	0	113	6	112	0	N.A.	N.A.	112	2
Ouest du Québec	19	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	262	0	0	0	0	0	263	0	136	0	0	0	0	0	136	8	135	0	N.A.	N.A.	135	2
P.H.O.L. - Ottawa	12	0	0	0	0	0	12	0	12	0	0	0	0	0	12	0	12	0	12	0	12	0
CHEO - Ottawa	128	0	0	0	0	0	11	0	11	0	0	0	0	0	11	0	11	0	11	4	11	0
P.H.O.L. - Kingston	31	0	0	0	0	0	31	0	31	0	0	0	0	0	31	0	30	0	31	9	30	0
UHN / Mount Sinai Hospital	14	0	0	0	0	0	14	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
P.H.O.L. - Toronto	151	0	0	0	0	0	151	0	151	0	0	0	0	1	151	1	151	0	151	11	151	1
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunnybrook & Women's College HSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - Sault Ste. Marie	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
P.H.O.L. - Timmins	10	0	0	0	0	0	10	0	10	0	0	0	0	0	10	0	10	0	10	4	10	0
St. Joseph's - London	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - London	63	0	0	0	0	0	63	0	63	0	0	0	0	0	63	0	63	0	63	11	63	0
P.H.O.L. - Orillia	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. - Thunder Bay	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
P.H.O.L. - Sudbury	10	0	0	0	0	0	10	0	10	0	0	0	0	0	10	0	10	0	10	1	10	0
P.H.O.L. - Hamilton	51	0	0	0	0	0	51	0	51	0	0	0	0	0	51	0	51	0	51	11	51	0
P.H.O.L. - Peterborough	12	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	9	2	9	0
St. Joseph's - Hamilton	60	0	0	0	0	0	60	0	60	0	0	0	0	0	60	0	60	0	60	2	0	0
Province of Ontario	551	0	0	0	0	0	431	0	431	0	0	0	0	1	417	1	430	0	417	55	356	1
Province of Manitoba	615	0	0	0	0	0	615	3	90	0	0	0	0	0	90	0	82	0	90	6	82	0
Province of Saskatchewan	56	0	0	0	0	0	56	0	53	0	0	0	0	0	53	0	53	0	53	13	53	0
Province of Alberta	2623	0	0	0	0	0	2622	0	2622	0	0	0	0	0	2622	3	2622	0	2622	321	2622	1
Prairies	3294	0	0	0	0	0	3293	3	2765	0	0	0	0	0	2765	3	2757	0	2765	340	2757	1
British Columbia	1175	0	0	0	0	0	1175	0	259	0	0	0	0	0	259	2	259	0	252	69	252	0
Yukon	209	0	0	0	0	0	209	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	0	0	0	0	34	0	34	0	0	0	0	0	34	1	34	0	34	10	34	0
Nunavut	198	0	0	0	0	0	198	0	198	0	0	0	0	0	198	0	198	0	198	46	3	0
Territories	441	0	0	0	0	0	441	0	232	0	0	0	0	0	232	1	232	0	232	56	37	0
CANADA	6109	0	0	0	0	0	5989	5	4208	0	0	0	0	1	4194	16	4198	0	4051	669	3548	4

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, Victoria General Hospital, Victoria Coastal Health, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

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 23, 2020 - October 3, 2020 (Reporting Weeks 202035-202040)

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	2243	0	0	0	0	0	2243	5	2243	0	0	0	0	0	2243	9	2243	0	2243	932	N.A.	N.A.
Prince Edward Island	11	0	0	0	0	0	11	0	13	0	0	0	0	0	13	0	13	0	13	4	13	0
Nova Scotia	66	0	0	0	0	0	66	0	60	0	0	0	0	0	60	0	60	0	60	12	60	0
New Brunswick	104	0	0	0	0	0	104	0	77	0	0	0	0	0	88	2	68	0	68	7	41	0
Atlantic	2424	0	0	0	0	0	2424	5	2393	0	0	0	0	0	2384	11	2384	0	2384	955	114	0
Région Nord-Est	86	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	100	0	0	0	0	0	117	0	85	0	0	0	0	0	87	4	82	0	N.A.	N.A.	82	0
Centre-du-Québec	39	0	0	0	0	0	40	0	32	0	0	0	0	0	30	0	32	0	N.A.	N.A.	32	0
Montréal-Laval	767	0	0	0	0	0	765	1	526	0	0	0	0	0	580	11	519	0	N.A.	N.A.	519	2
Ouest du Québec	76	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1068	0	0	0	0	0	1067	1	643	0	0	0	0	0	697	15	633	0	N.A.	N.A.	633	2
P.H.O.L. - Ottawa	55	0	0	0	0	0	55	0	55	0	0	0	0	0	55	0	55	0	55	0	55	0
CHEO - Ottawa	629	0	0	1	1	10	226	2	124	0	0	0	0	0	124	0	124	0	124	14	124	0
P.H.O.L. - Kingston	130	0	0	0	0	0	130	0	130	0	0	0	0	0	130	2	128	0	130	55	128	0
UHN / Mount Sinai Hospital	14	0	0	0	0	0	14	0	87	0	1	1	1	0	0	0	47	2	0	0	40	0
P.H.O.L. - Toronto	755	0	0	0	0	0	755	1	755	0	0	0	0	1	756	3	755	0	755	23	755	2
Sick Kids Hospital - Toronto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sunnybrook & Women's College HSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - Sault Ste. Marie	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	5	0	5	0
P.H.O.L. - Timmins	33	0	0	0	0	0	33	0	33	0	0	0	0	0	33	0	33	0	33	8	33	0
St. Joseph's - London	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P.H.O.L. - London	150	0	0	0	0	0	150	0	150	0	0	0	0	0	150	0	146	0	150	12	146	0
P.H.O.L. - Orillia	24	0	0	0	0	0	22	0	22	0	0	0	0	0	22	0	22	0	22	0	22	0
P.H.O.L. - Thunder Bay	194	0	0	0	0	0	194	0	194	0	0	0	0	0	194	1	194	0	194	103	194	0
P.H.O.L. - Sudbury	37	0	0	0	0	0	37	0	37	0	0	0	0	0	37	0	37	0	37	1	37	0
P.H.O.L. - Hamilton	166	0	0	0	0	0	162	0	162	0	0	0	0	0	162	0	162	0	162	22	162	0
P.H.O.L. - Peterborough	69	0	0	0	0	0	66	0	66	0	0	0	0	0	66	0	66	0	66	3	66	0
St. Joseph's - Hamilton	250	0	0	0	0	0	250	0	250	0	0	0	0	0	250	0	250	0	250	11	0	0
Province of Ontario	2511	0	0	1	1	10	2099	3	2070	0	1	1	1	1	1984	6	2024	2	1983	252	1767	2
Manitoba	3227	0	0	0	0	0	3227	6	484	0	1	0	0	0	484	7	443	0	484	44	443	1
Province of Saskatchewan	361	0	0	0	0	0	361	1	324	0	0	0	0	0	324	3	324	0	324	53	324	0
Province of Alberta	16147	0	0	0	0	0	16142	0	16142	1	10	0	2	0	16142	27	16142	4	16142	1669	16142	5
Prairies	19735	0	0	0	0	0	19730	7	16950	1	11	0	2	0	16950	37	16909	4	16950	1766	16909	6
British Columbia	5666	0	0	0	0	0	5666	0	1045	0	0	0	0	0	1039	9	1045	3	972	142	971	0
Yukon	1257	0	0	0	0	0	1086	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	232	0	0	0	0	0	232	0	232	0	0	0	1	0	232	2	232	0	232	84	232	0
Nunavut	579	0	0	0	0	0	579	0	579	0	1	0	0	0	579	5	579	4	579	138	91	0
Territories	2068	0	0	0	0	0	1897	2	811	0	1	0	1	0	811	7	811	4	811	222	323	0
CANADA	33472	0	0	1	1	10	32883	18	23912	1	13	1	4	1	23865	85	23806	13	23100	3337	20717	10

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, Victoria Coastal Health, BCCDC P

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, 2020-21

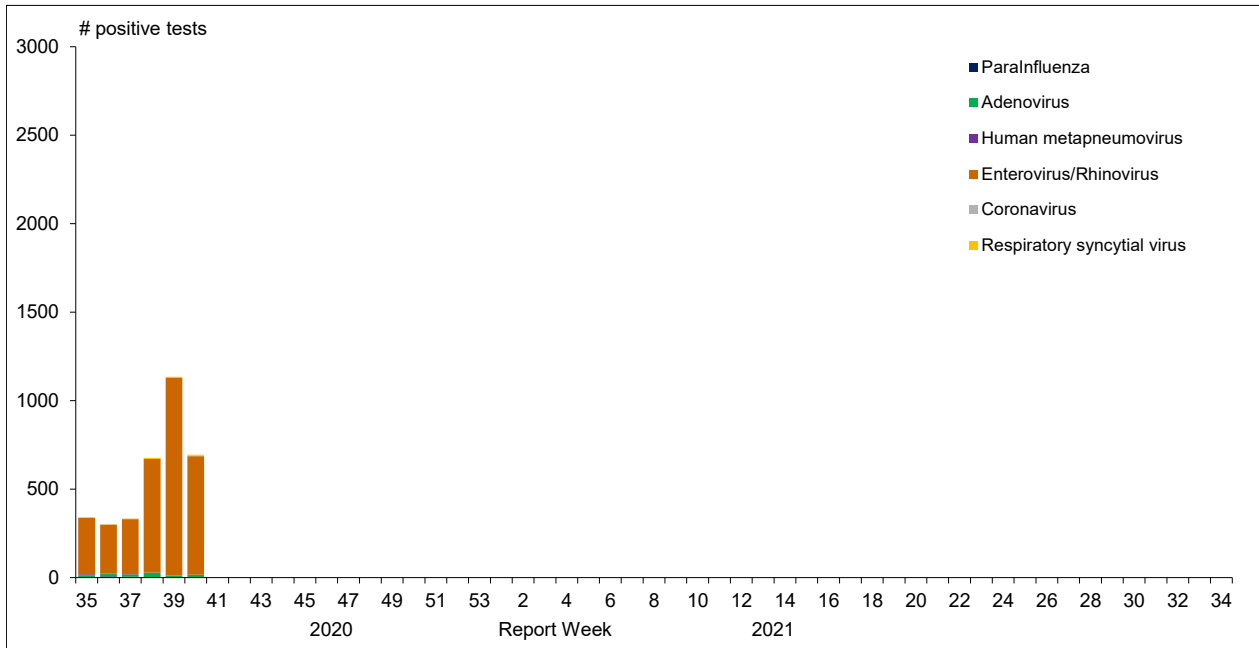


Figure 2 : Positive Influenza Tests (%) in Canada by Region by Week of Report

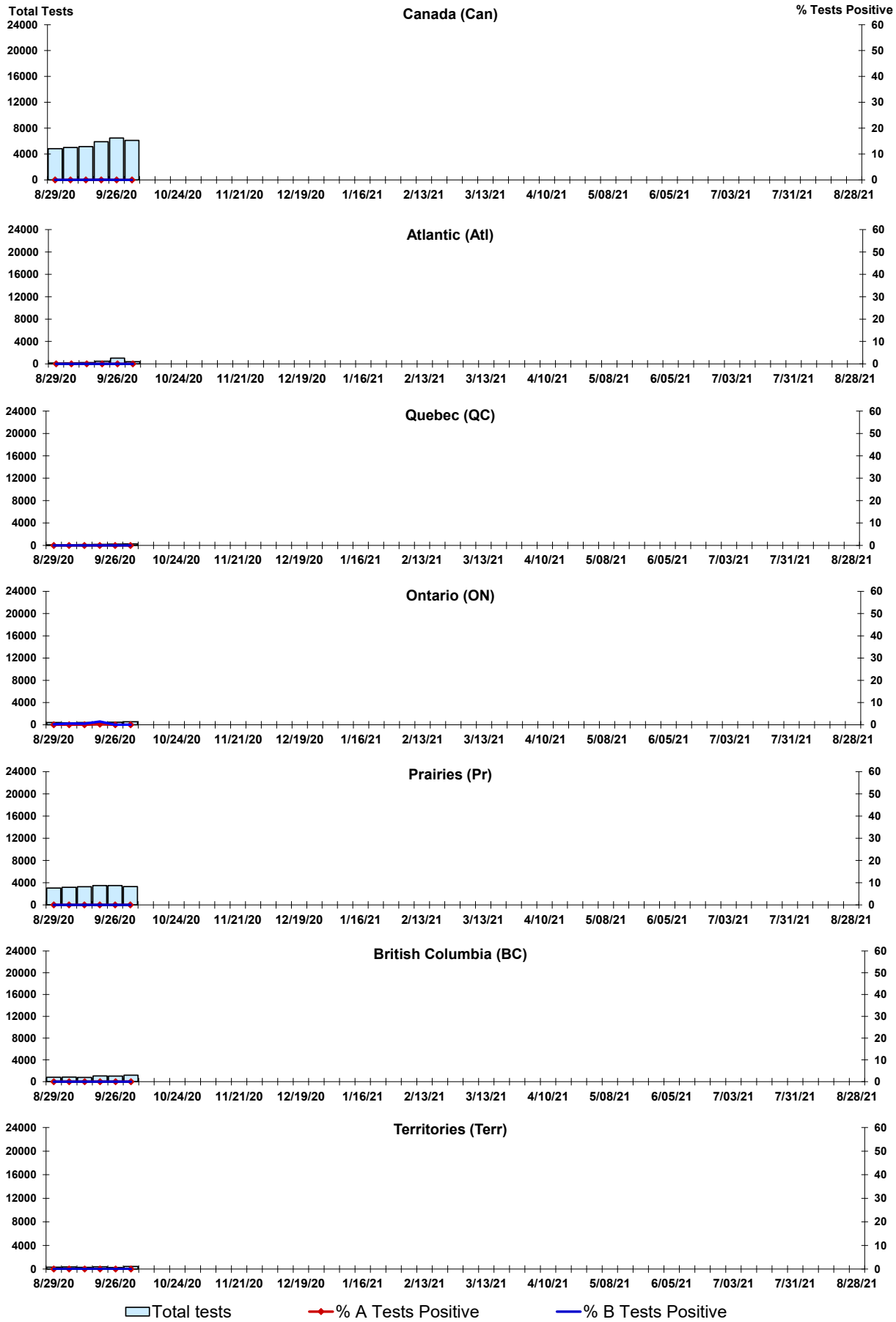


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

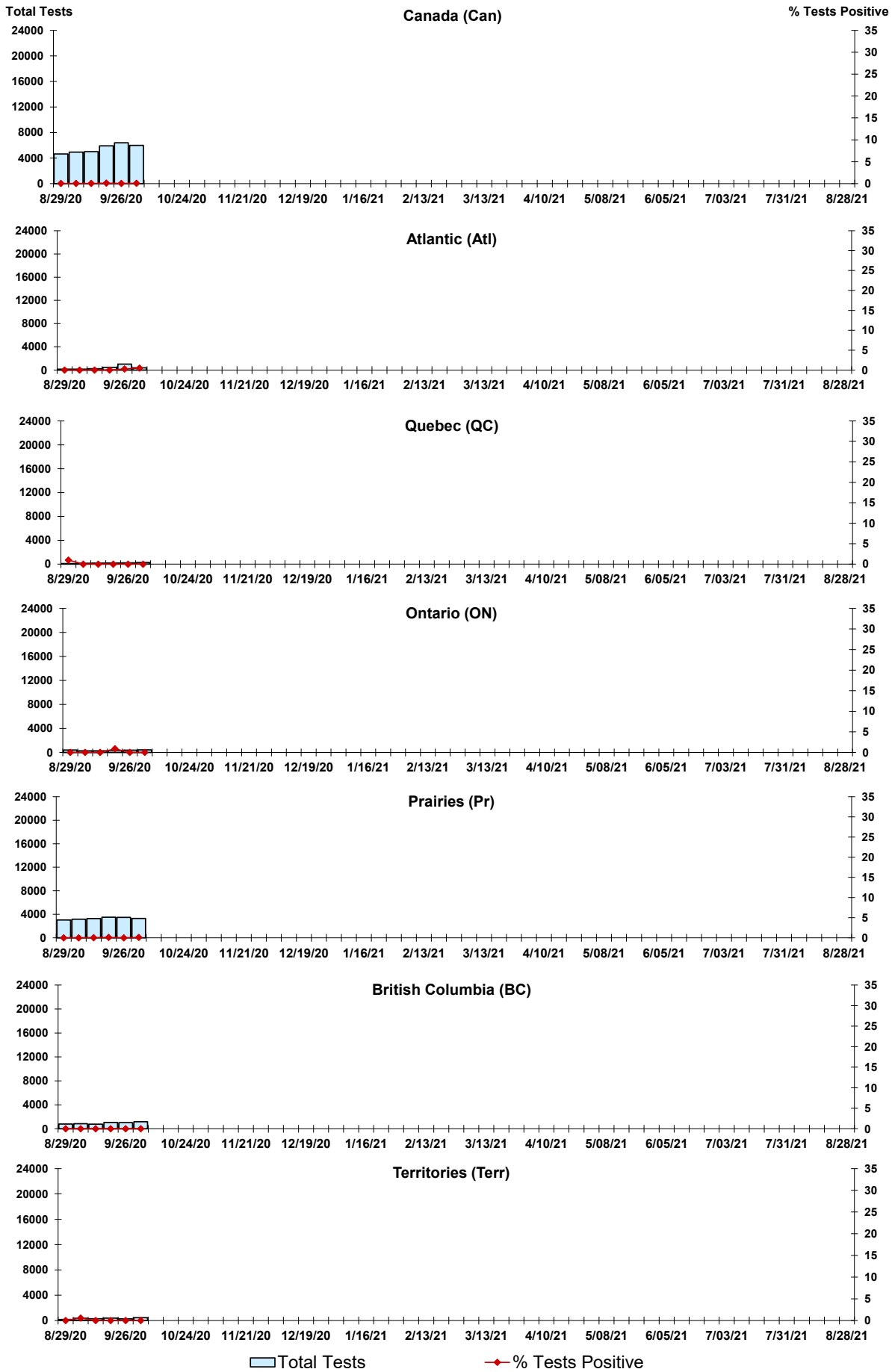
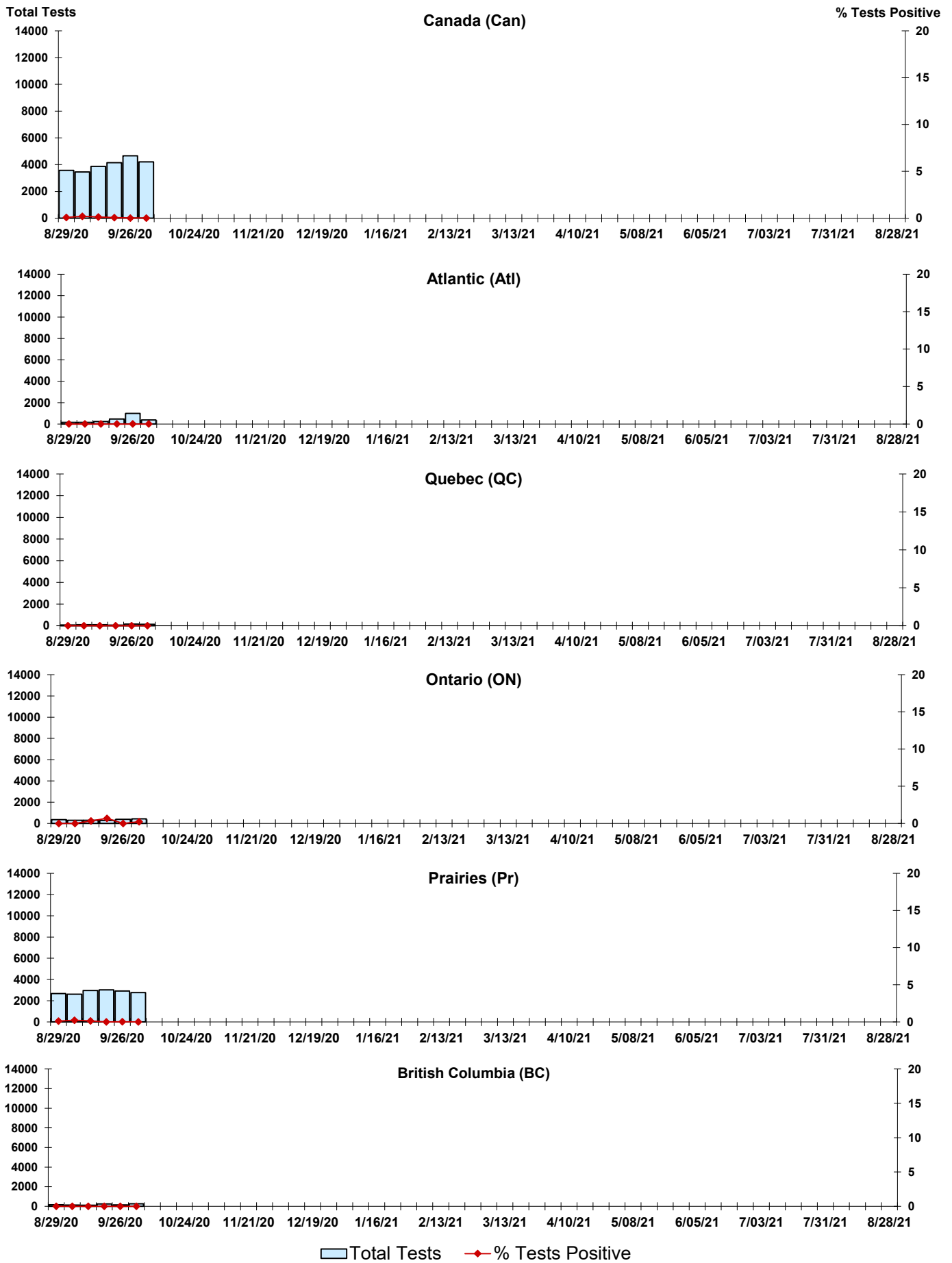


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report



Legend: Total Tests (light blue bar), % Tests Positive (red line with diamond)

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

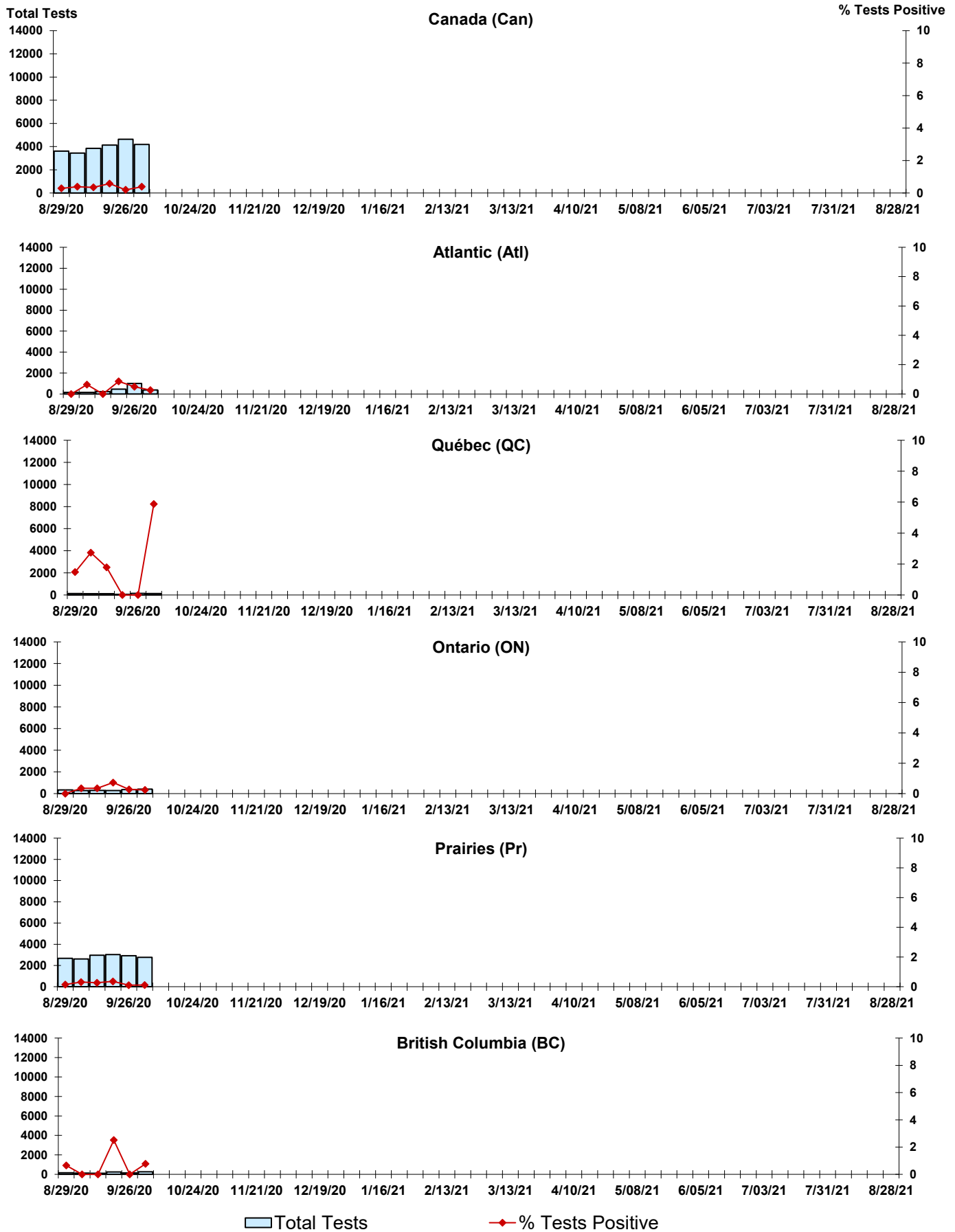


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

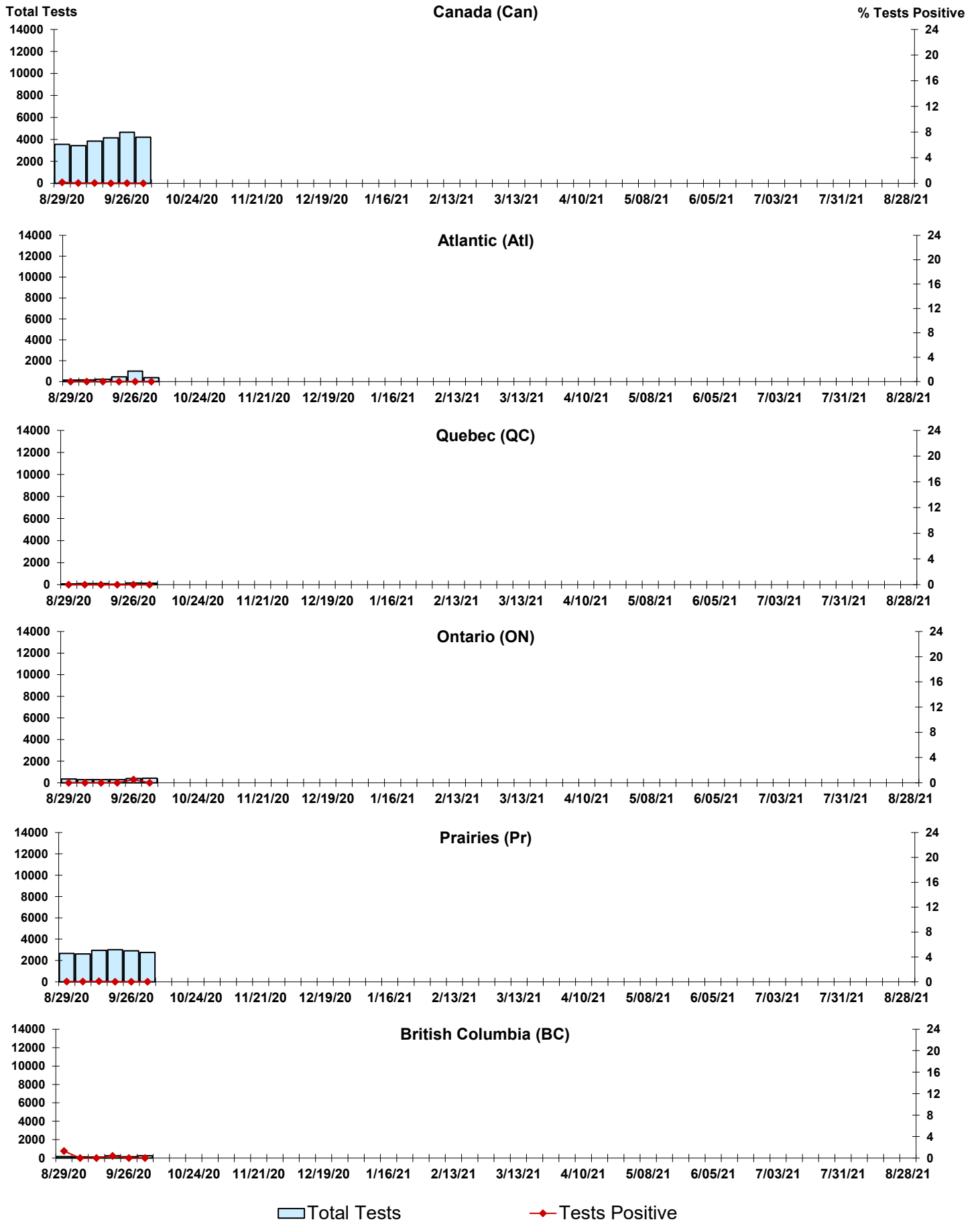


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

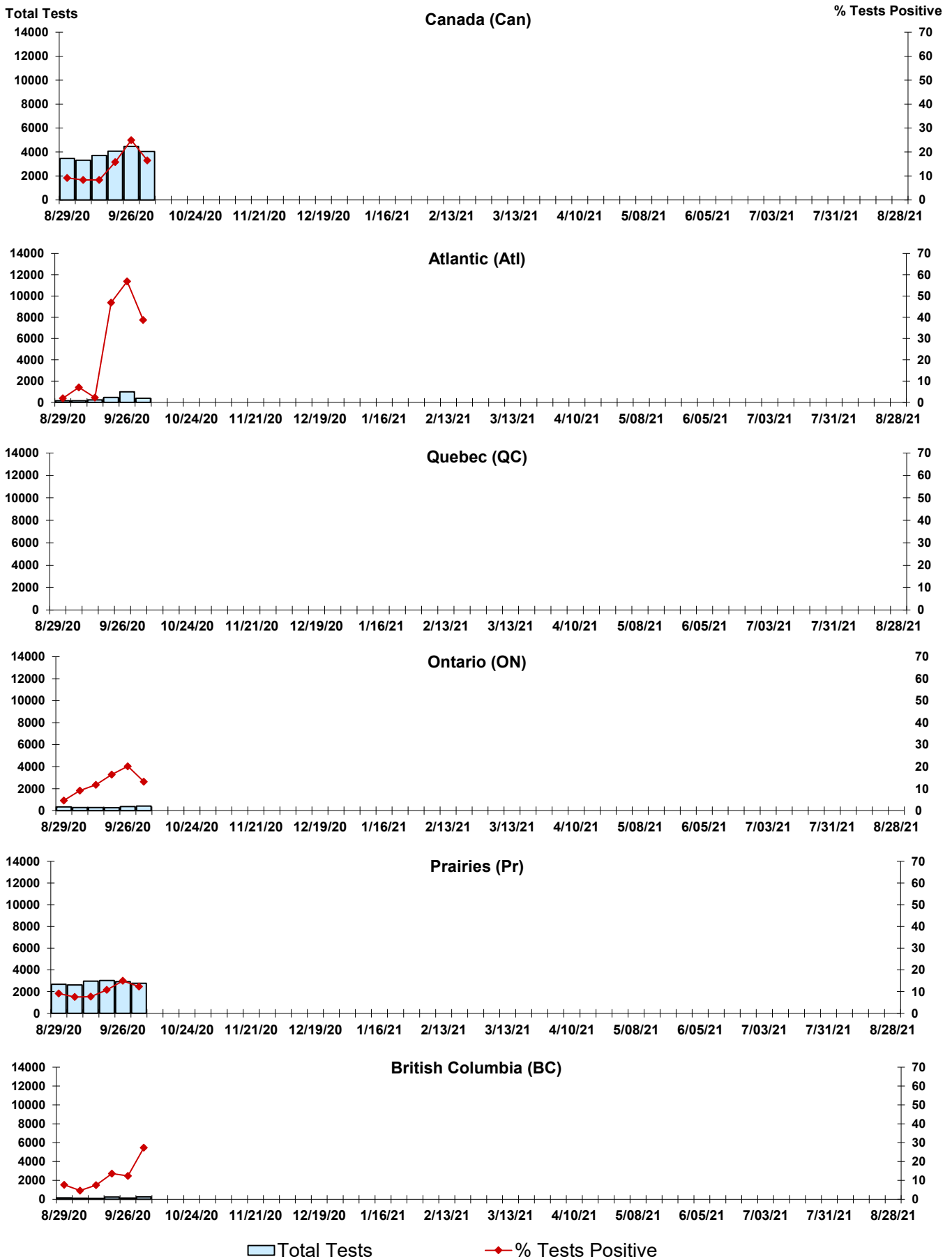
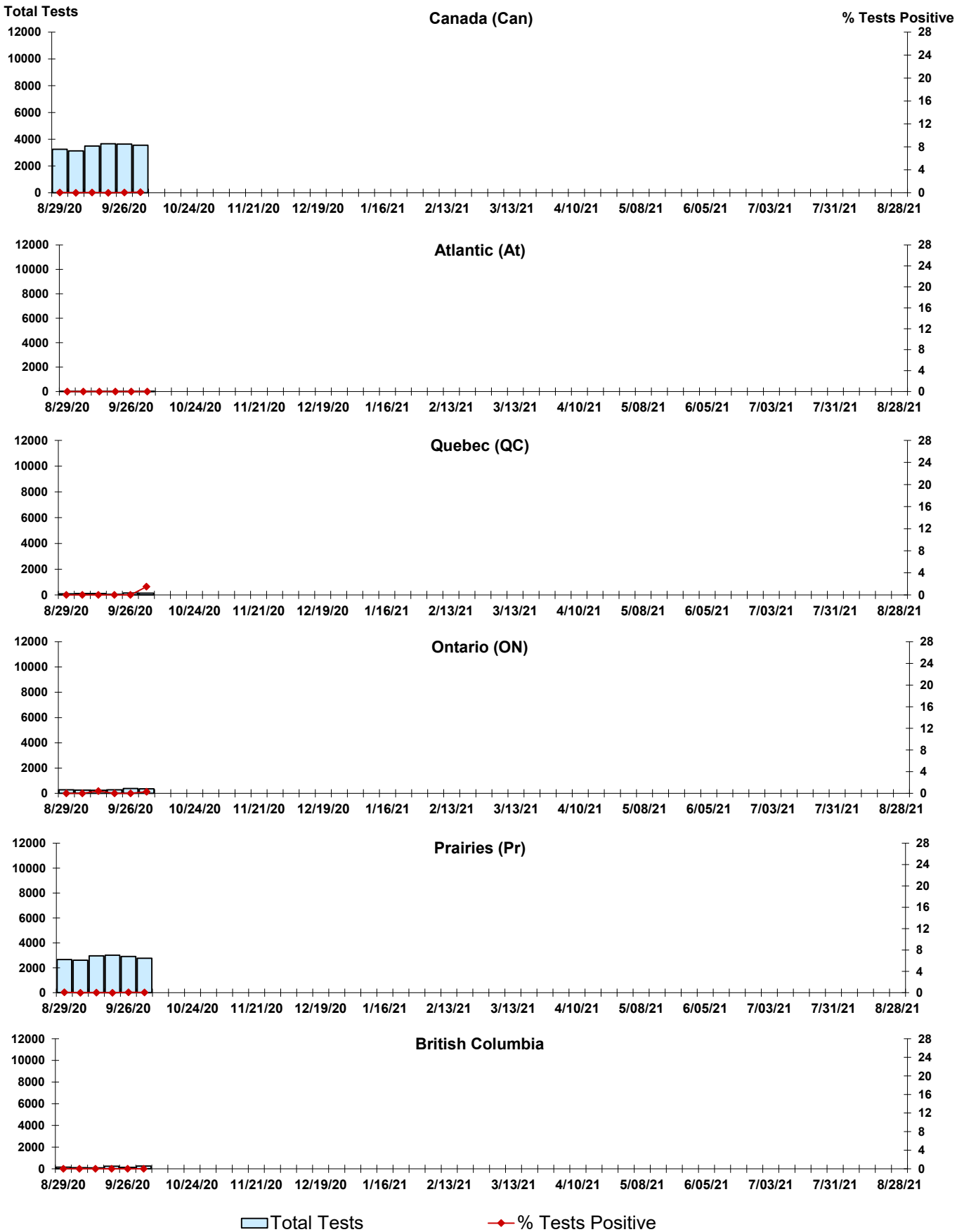


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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Due to reporting delays, the sum of weekly report totals do not add up to cumulative totals.

