

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 39 - ending September 28, 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 28, 2019 (Reporting Week 201939)

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	1	0	0	0	0	47	0	47	0	47	17	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	23	0	0	0	0	0	23	0	22	2	0	1	0	0	22	0	22	0	22	5	22	0
New Brunswick	149	0	0	0	0	1	149	1	52	2	0	0	0	0	52	2	52	0	52	21	52	0
Atlantic	219	0	0	0	0	1	219	1	121	5	0	1	0	0	121	2	121	0	121	43	74	0
Région Nord-Est	25	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	65	0	0	0	0	0	69	0	85	0	0	1	0	0	85	2	78	0	N.A.	N.A.	78	0
Centre-du-Québec	37	0	0	0	0	0	36	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	590	0	0	3	3	0	605	6	481	6	0	1	0	0	481	23	470	1	N.A.	N.A.	470	1
Ouest du Québec	84	0	0	0	0	0	84	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	69	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	870	0	0	3	3	0	882	7	566	6	0	2	0	0	566	25	548	1	N.A.	N.A.	548	1
P.H.O.L. - Ottawa	19	0	0	0	0	0	19	0	6	0	0	0	0	0	6	0	6	0	0	0	0	0
CHEO - Ottawa	106	0	0	0	0	0	106	0	25	0	0	0	1	0	25	1	25	0	25	12	24	0
P.H.O.L. - Kingston	23	0	0	0	0	0	23	1	13	0	0	0	0	0	13	0	12	0	1	0	0	0
UHN / Mount Sinai Hospital	192	0	0	1	1	0	192	2	19	0	0	0	1	0	0	0	19	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	229	0	1	0	1	0	229	0	224	1	0	0	0	0	224	0	223	0	3	0	0	0
Sick Kids Hospital - Toronto	42	0	0	0	0	0	42	2	42	2	0	0	0	0	42	0	42	0	42	22	42	0
Sunnybrook & Women's College HSC	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	9	3	9	0
P.H.O.L. - Sault Ste. Marie	5	0	0	0	0	0	5	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
P.H.O.L. - Timmins	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
St. Joseph's - London	25	0	0	0	0	0	25	0	25	1	1	0	0	0	25	1	25	0	26	8	26	0
P.H.O.L. - London	35	0	0	0	0	0	35	0	34	1	0	0	0	0	34	1	33	0	4	0	0	0
P.H.O.L. - Orillia	23	0	0	1	1	0	19	0	12	0	0	0	0	0	12	0	12	0	0	0	0	0
P.H.O.L. - Thunder Bay	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
P.H.O.L. - Sudbury	5	0	0	0	0	0	5	0	3	0	0	0	0	0	3	1	2	0	1	0	0	0
P.H.O.L. - Hamilton	57	0	0	0	0	0	57	1	51	1	0	0	0	0	51	0	51	0	0	0	0	0
P.H.O.L. - Peterborough	15	0	0	0	0	0	15	0	12	0	0	0	0	0	12	0	12	0	0	0	0	0
Province of Ontario	792	0	1	2	3	0	788	6	486	6	1	0	2	0	467	4	482	0	111	45	101	0
Manitoba	240	0	0	0	0	0	240	0	167	0	0	0	0	0	167	3	66	2	167	27	66	0
Regina	161	0	0	3	3	0	161	0	77	2	0	0	0	0	77	1	77	0	77	43	77	0
Saskatoon	123	0	0	0	0	0	123	1	123	2	0	0	0	0	123	6	126	0	123	57	123	0
Province of Saskatchewan	284	0	0	3	3	0	284	1	200	4	0	0	0	0	200	7	203	0	200	100	200	0
Province of Alberta	582	2	3	1	6	1	527	0	527	3	1	2	1	0	527	9	527	0	527	212	527	1
Prairies	1106	2	3	4	9	1	1051	1	894	7	1	2	1	0	894	19	796	2	894	339	793	1
British Columbia	296	0	10	3	13	0	296	3	190	5	1	0	0	0	190	2	190	2	177	71	177	1
Yukon	12	0	5	0	5	0	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	6	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	1	5	3	5	0
Nunavut	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	1	5	0	5	3	5	0
Territories	23	0	5	0	5	0	22	0	10	0	0	0	0	0	10	1	10	1	10	6	10	0
CANADA	3306	2	19	12	33	2	3258	18	2267	29	3	5	3	0	2248	53	2147	6	1313	504	1703	3

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, VGH.

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 28, 2019 (Reporting Weeks 201935-201939)

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	193	0	0	0	0	0	193	0	193	3	0	0	0	0	193	0	193	0	193	62	N.A.	N.A.
Prince Edward Island	7	0	0	0	0	0	7	0	5	0	0	0	0	0	5	0	5	0	5	3	5	0
Nova Scotia	81	0	0	0	0	0	82	0	40	2	0	1	0	0	40	0	40	0	40	7	40	0
New Brunswick	482	1	1	2	4	1	482	1	209	5	0	0	0	0	209	7	209	0	209	74	209	0
Atlantic	763	1	1	2	4	1	764	1	447	10	0	1	0	0	447	7	447	0	447	146	254	0
Région Nord-Est	112	0	0	0	0	0	95	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	239	0	0	0	0	0	304	0	331	2	0	1	0	0	342	6	248	0	N.A.	N.A.	312	0
Centre-du-Québec	122	0	0	1	1	0	113	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	2101	0	0	13	13	5	2151	16	1743	18	1	1	1	0	1743	68	1535	6	N.A.	N.A.	1716	5
Ouest du Québec	231	0	0	3	3	0	234	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	254	0	0	3	3	1	252	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	3059	0	0	20	20	6	3149	21	2074	20	1	2	1	0	2085	74	1783	6	N.A.	N.A.	2028	5
P.H.O.L. - Ottawa	61	0	0	0	0	0	59	0	46	1	0	0	0	0	46	0	44	0	2	0	0	0
CHEO - Ottawa	428	0	0	1	1	1	428	5	101	0	0	0	1	0	101	1	101	0	104	33	99	0
P.H.O.L. - Kingston	48	0	0	0	0	0	48	1	38	0	0	0	0	0	38	0	37	0	2	0	0	0
UHN / Mount Sinai Hospital	842	0	0	8	8	2	842	6	78	0	0	3	2	0	0	0	78	1	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	920	0	8	0	8	0	920	2	901	11	0	2	0	0	901	3	863	0	47	0	0	0
Sick Kids Hospital - Toronto	168	0	0	0	0	0	168	5	168	5	0	0	2	0	168	0	168	4	168	69	168	0
Sunnybrook & Women's College HSC	31	0	0	0	0	0	31	0	31	0	0	0	0	0	31	0	31	0	31	5	31	0
P.H.O.L. - Sault Ste. Marie	19	0	0	0	0	0	19	0	18	0	0	0	0	0	18	0	17	0	1	0	0	0
P.H.O.L. - Timmins	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	0	0	0	0
St. Joseph's - London	117	0	0	0	0	0	117	1	117	2	1	0	0	0	117	3	117	0	116	37	115	0
P.H.O.L. - London	168	0	0	0	0	0	168	0	167	2	0	0	0	0	167	1	159	0	16	0	0	0
P.H.O.L. - Orillia	49	0	0	1	1	0	45	0	38	0	0	0	0	0	38	0	37	0	1	0	0	0
P.H.O.L. - Thunder Bay	22	0	0	0	0	0	22	0	22	0	0	1	0	0	22	0	17	0	5	0	0	0
P.H.O.L. - Sudbury	31	0	0	0	0	0	31	0	29	0	0	0	0	0	29	1	24	0	5	0	0	0
P.H.O.L. - Hamilton	188	1	2	0	3	1	182	2	175	2	0	0	0	0	175	2	172	0	4	0	0	0
P.H.O.L. - Peterborough	74	0	0	0	0	0	71	0	68	0	0	0	0	0	68	0	68	0	3	0	0	0
Province of Ontario	3175	1	10	10	21	4	3160	22	2006	23	1	6	5	0	1928	11	1942	5	505	144	413	0
Manitoba	931	0	0	1	1	1	931	3	684	1	1	1	0	0	684	9	284	2	684	109	284	1
Regina	833	0	0	5	5	0	833	0	470	3	0	0	0	0	470	6	363	0	470	137	470	0
Saskatoon	455	0	0	1	1	0	455	2	455	6	0	0	1	0	455	14	458	0	455	153	455	0
Province of Saskatchewan	1288	0	0	6	6	0	1288	2	925	9	0	0	1	0	925	20	821	0	925	290	925	0
Province of Alberta	2513	3	22	3	28	5	2281	0	2281	21	3	8	6	0	2281	40	2281	6	2281	814	2281	5
Prairies	4732	3	22	10	35	6	4500	5	3890	31	4	9	7	0	3890	69	3386	8	3890	1213	3490	6
British Columbia	1321	4	40	6	50	0	1269	4	834	15	3	6	3	0	834	6	834	33	790	238	790	3
Yukon	51	0	7	0	5	0	51	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	45	0	0	0	0	0	44	0	44	0	0	0	0	0	44	0	44	1	44	28	44	1
Nunavut	14	0	0	0	0	0	14	0	14	0	2	0	0	0	14	2	14	0	14	7	14	0
Territories	110	0	7	0	5	0	109	0	58	0	2	0	0	0	58	2	58	1	58	35	58	1
CANADA	13160	9	80	48	135	17	12951	53	9309	99	11	24	16	0	9242	169	8450	53	5690	1776	7033	15

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

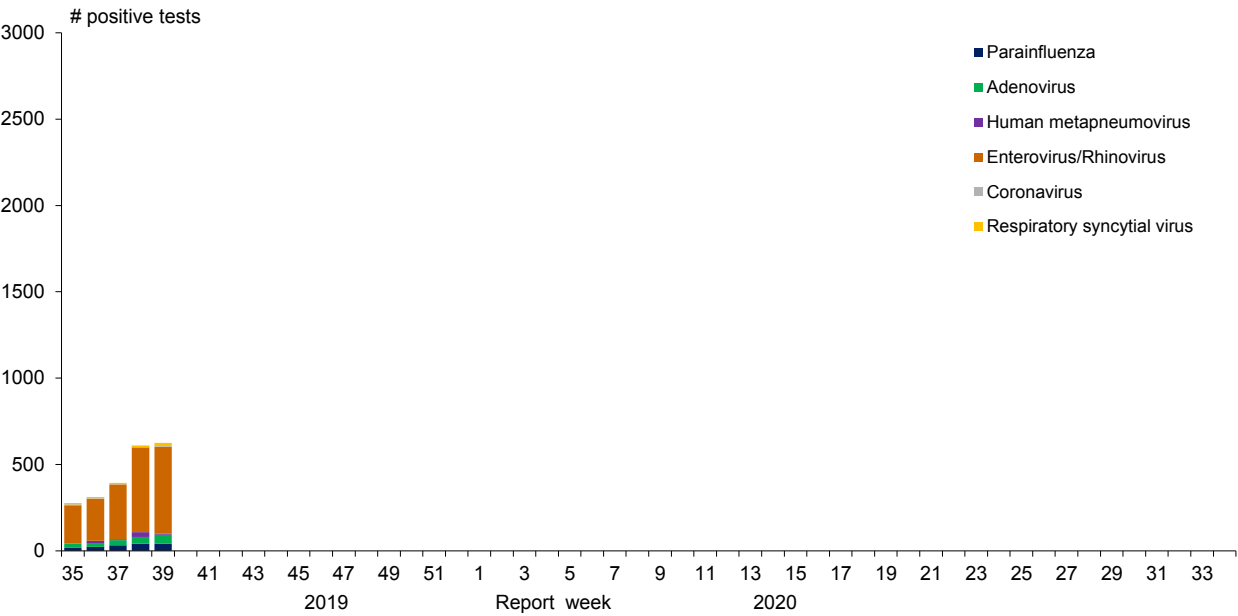


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

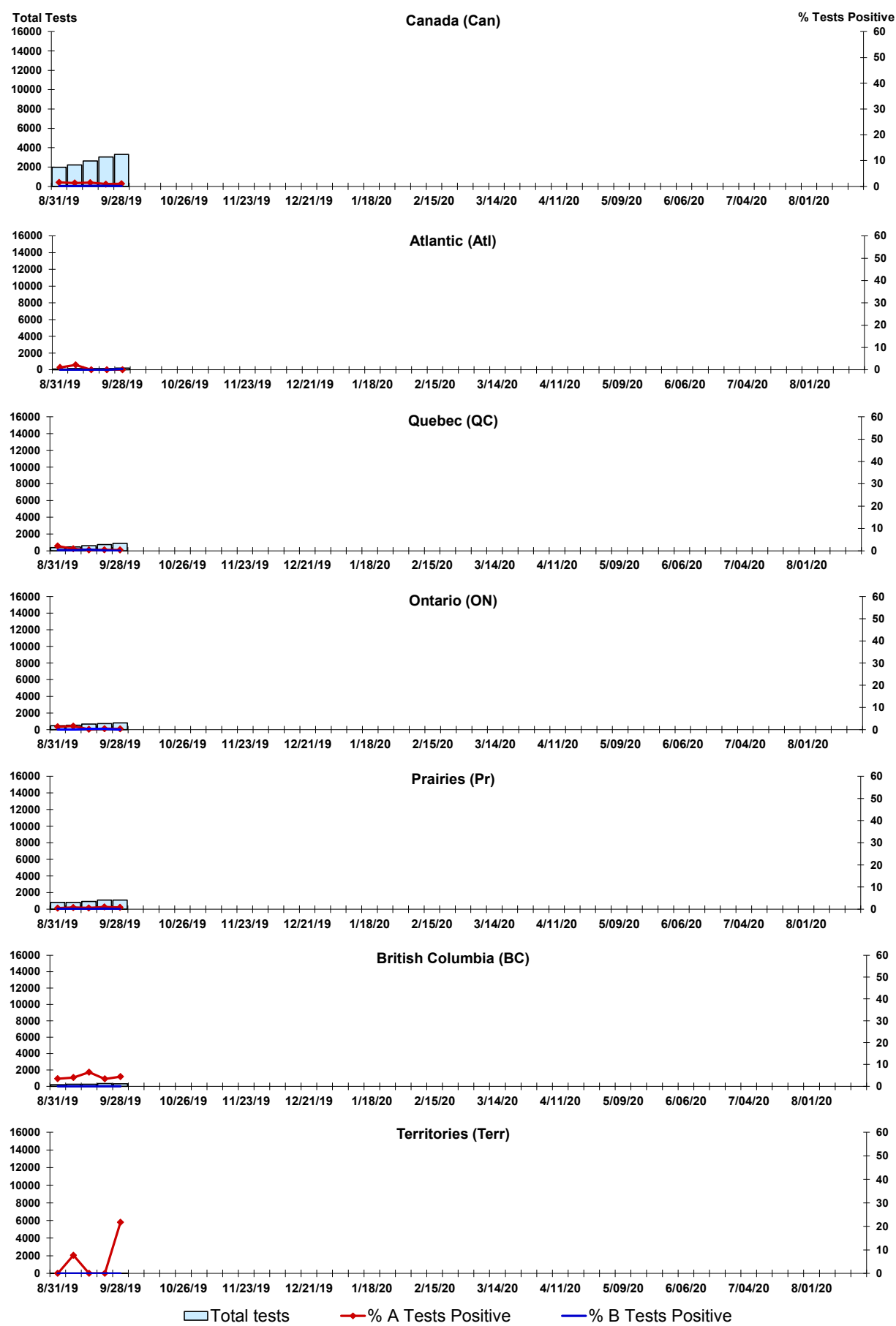


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

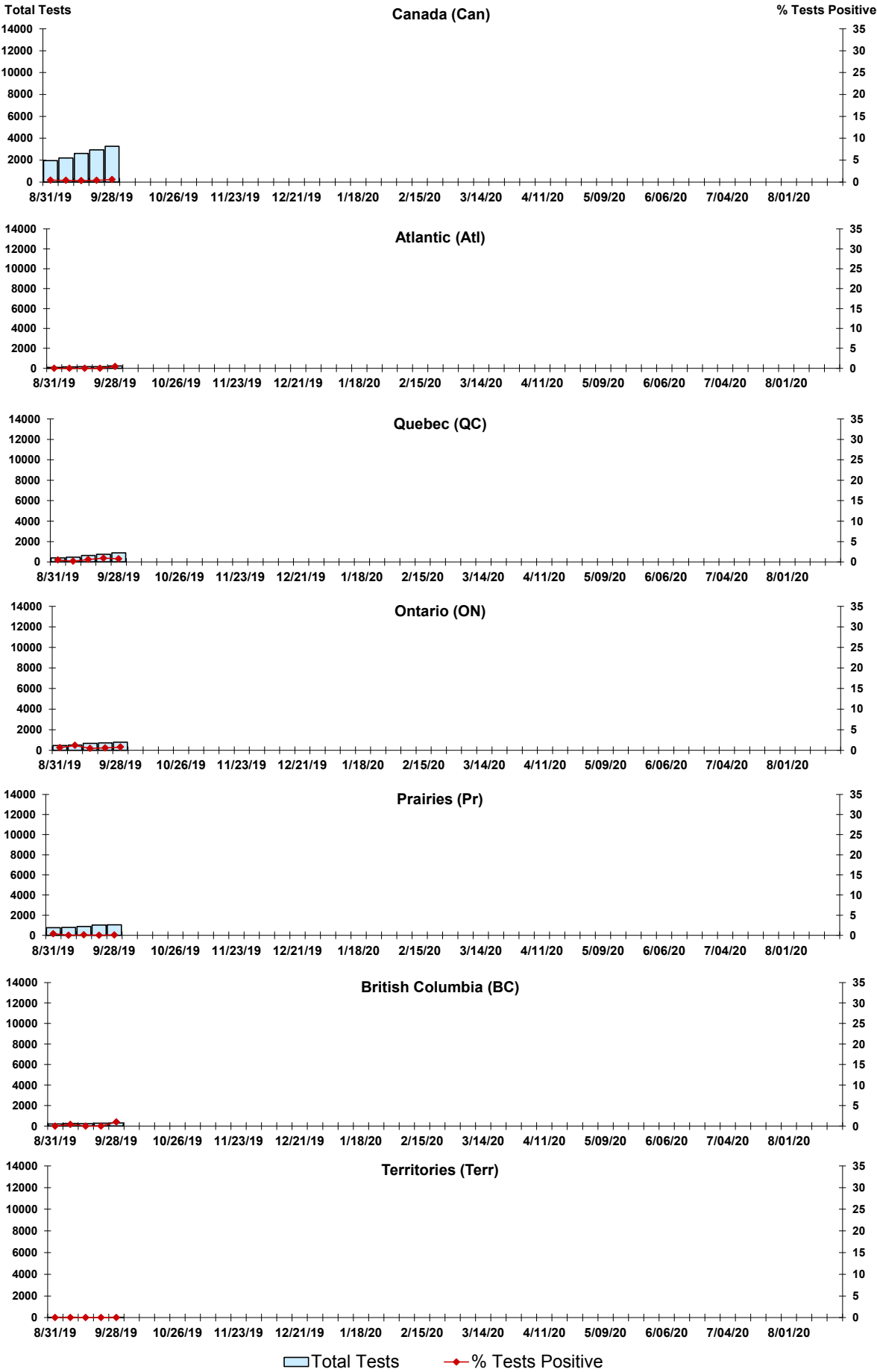


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

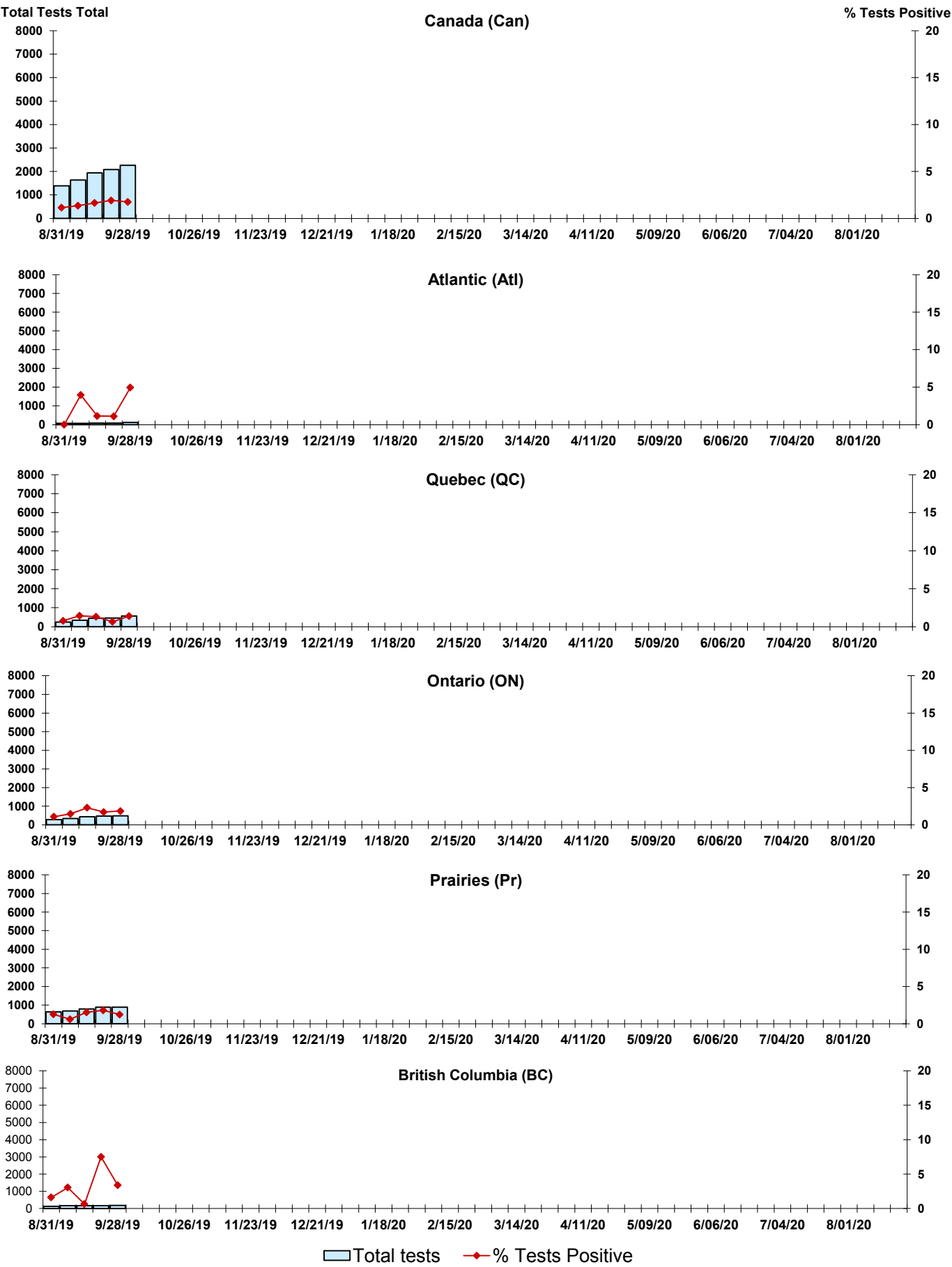


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

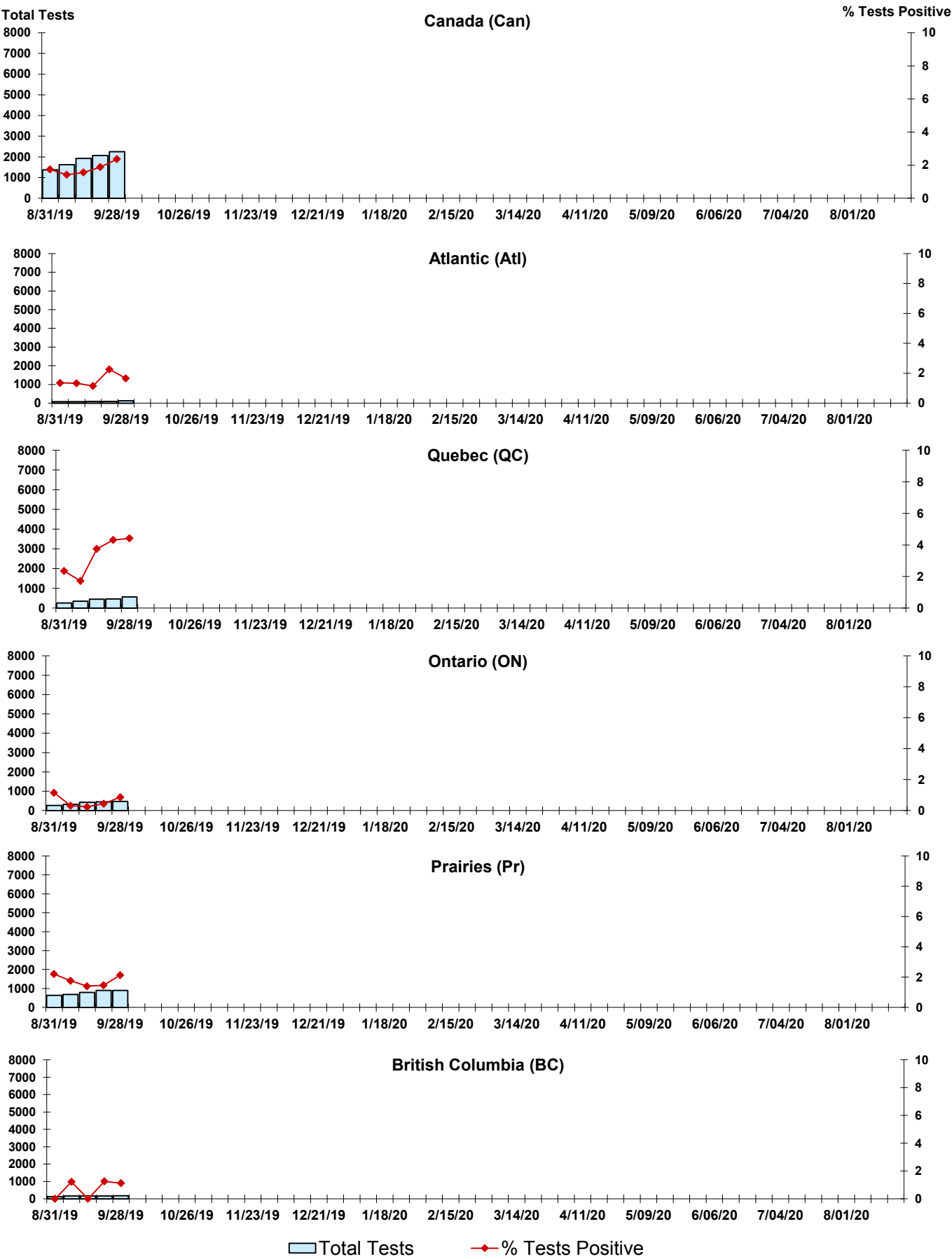


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

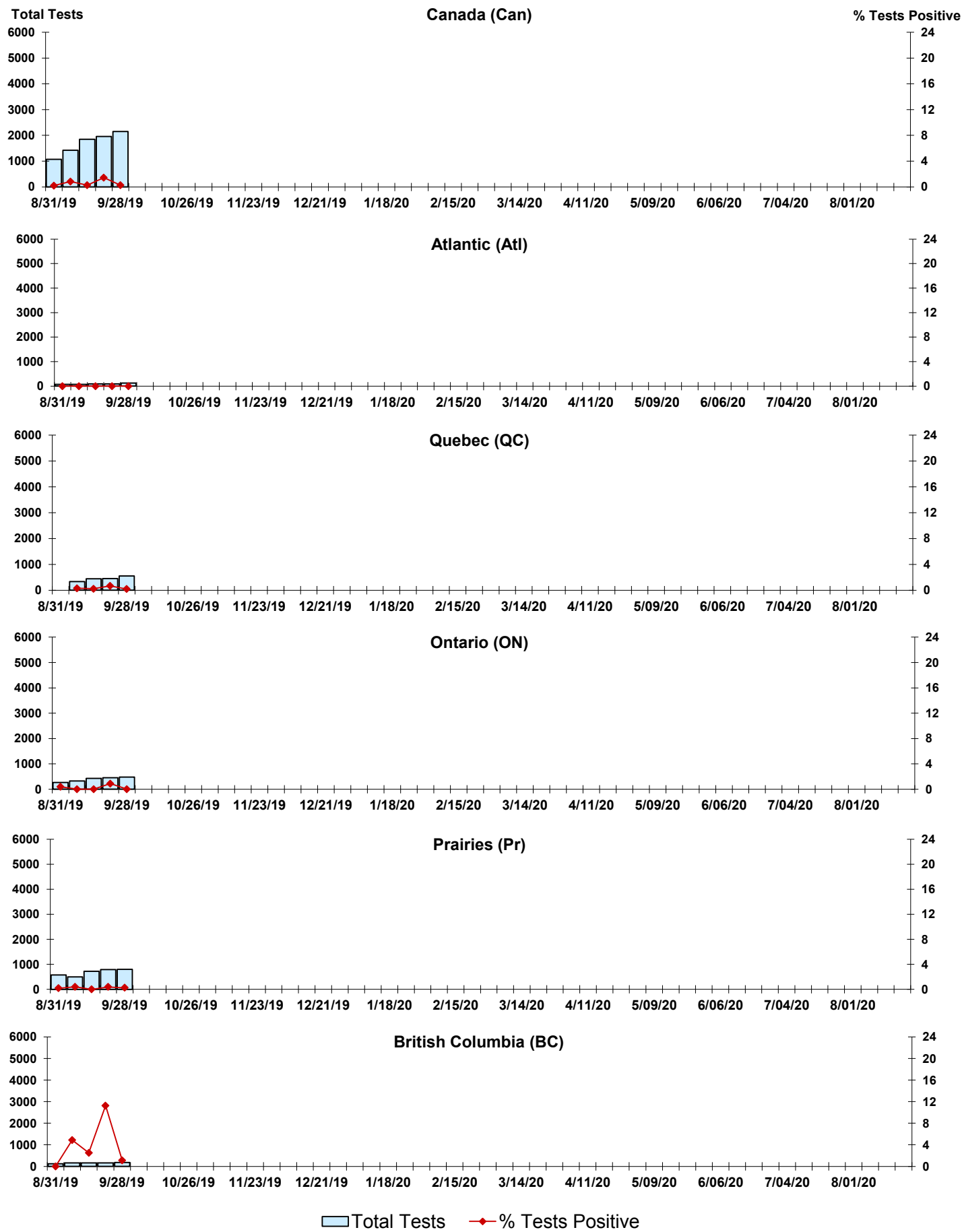


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

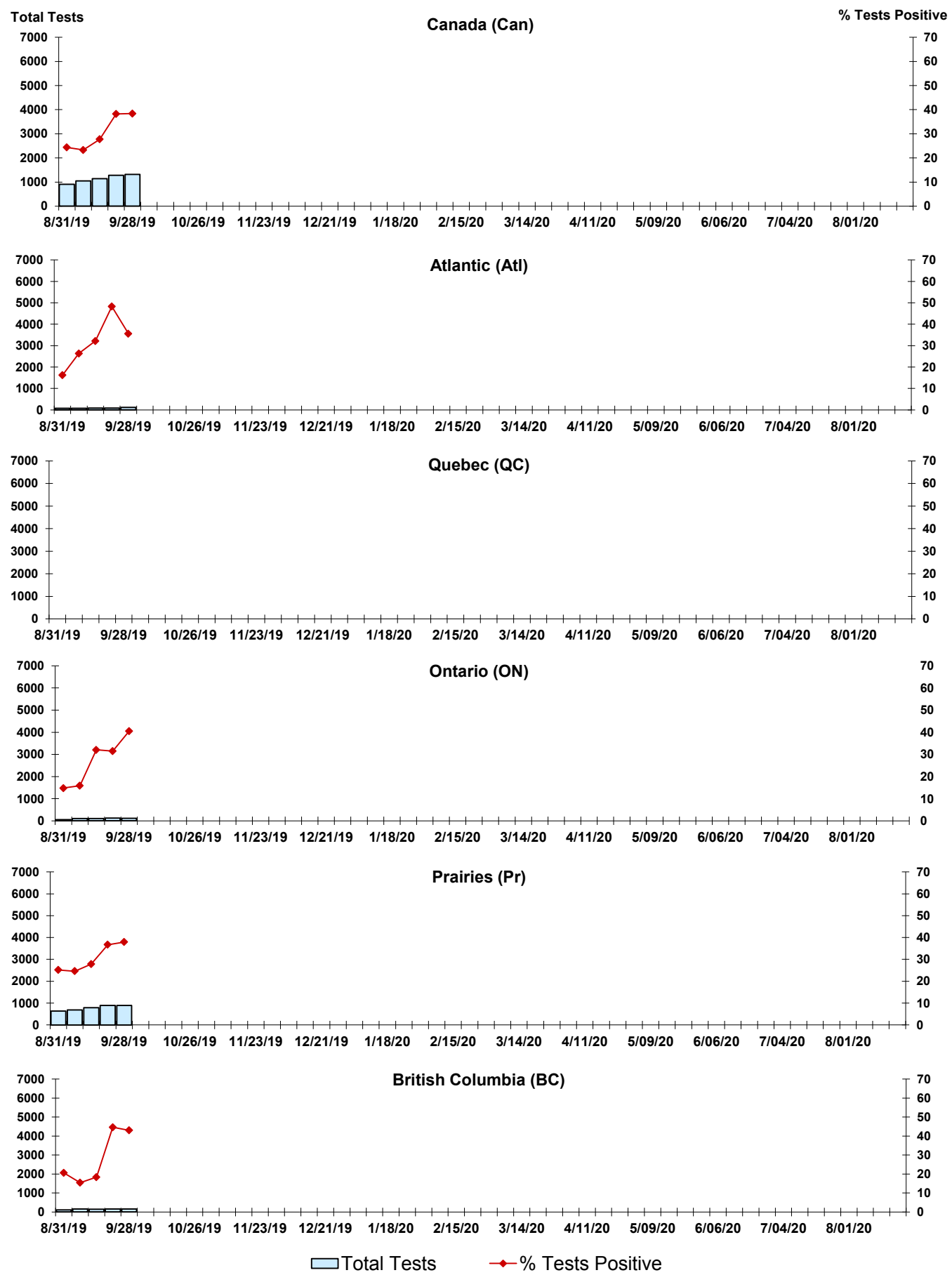
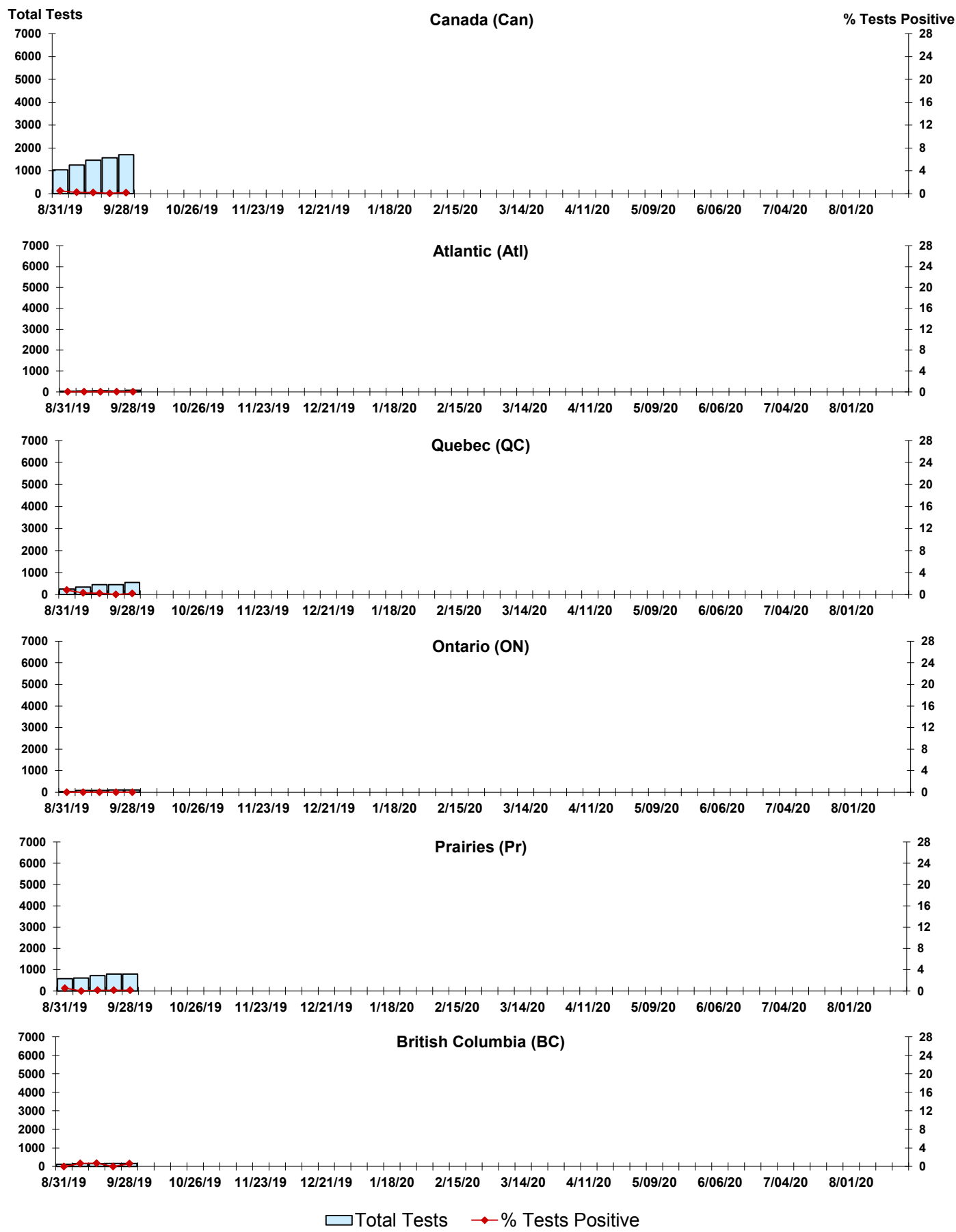


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



Abbreviations:

A(H1N1)pdm09: Influenza A(H1N1)pdm09	HSC: Health Sciences Centre
A(H3): Influenza A(H3N2)	N.A.: Not Applicable
A (UnS): Influenza A (Unsubtyped)	P.H.L.: Public Health Laboratory
Adeno: Adenovirus	P.H.O.L.: Public Health Ontario Laboratory
CHEO: Children's Hospital of Eastern Ontario	PIV: Parainfluenza
Coron: Coronavirus	Rhino: Rhinovirus
Entero: Enterovirus	RSV: Respiratory syncytial virus
hMPV: human metapneumovirus	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.