

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 43 - ending October 27, 2018

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 October 27, 2018 (Reporting Week 201843)

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	50	0	0	0	0	0	50	3	50	0	1	2	0	0	50	0	50	0	50	7	N.A.	N.A.
Prince Edward Island	17	1	0	0	1	0	17	0	4	0	0	0	0	0	4	0	4	0	4	1	4	0
Nova Scotia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Brunswick	141	0	0	1	1	0	141	1	41	0	0	0	1	0	41	3	41	0	41	8	41	0
Atlantic	208	1	0	1	2	0	208	4	95	0	1	2	1	0	95	3	95	0	95	16	45	0
Région Nord-Est	160	0	0	8	8	0	125	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	36	0	0	5	5	1	109	1	74	0	0	1	0	0	80	10	65	0	N.A.	N.A.	65	0
Centre-du-Québec	87	0	0	0	0	0	85	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	646	0	0	4	4	0	646	21	470	3	11	1	3	0	470	11	458	0	N.A.	N.A.	458	2
Ouest du Québec	61	0	0	0	0	0	49	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	44	0	0	1	1	0	44	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	1034	0	0	18	18	1	1058	27	544	3	11	2	3	0	550	21	523	0	N.A.	N.A.	523	2
Ottawa P.H.L.	19	0	0	0	0	0	18	0	18	0	0	0	0	0	18	0	18	0	0	0	0	0
CHEO - Ottawa	157	0	0	2	2	0	157	0	36	0	2	0	0	0	36	1	36	1	36	17	36	0
Kingston P.H.L.	23	0	0	0	0	0	19	0	19	0	0	0	0	0	19	0	17	0	2	0	0	0
UHN / Mount Sinai Hospital	222	0	0	6	6	1	222	2	22	0	1	0	0	0	0	0	22	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	380	0	1	1	2	0	376	4	376	0	7	0	0	0	376	1	368	0	10	0	0	0
Sick Kids Hospital - Toronto	49	0	0	0	0	0	49	2	49	0	2	1	2	0	49	2	49	1	49	17	49	0
Sunnybrook & Women's College HSC	78	1	1	0	2	0	78	0	78	0	0	1	0	0	78	0	78	0	78	18	78	0
Sault Ste. Marie P.H.L.	7	0	0	0	0	0	7	0	7	0	0	0	0	0	7	0	7	0	0	0	0	0
Timmins P.H.L.	6	0	0	0	0	0	6	0	6	0	1	1	0	0	6	0	6	0	0	0	0	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
London P.H.L.	59	0	0	0	0	0	59	3	59	0	0	0	0	0	59	0	57	0	3	0	0	0
Orillia P.H.L.	21	0	0	0	0	0	18	0	18	0	0	0	0	0	18	0	18	0	1	0	0	0
Thunder Bay P.H.L.	3	0	0	0	0	0	3	0	3	1	0	0	0	0	3	0	3	0	0	0	0	0
Sudbury P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
Hamilton P.H.L.	83	0	0	1	1	0	82	1	82	1	0	1	0	0	82	0	79	1	3	0	0	0
Peterborough P.H.L.	48	0	0	0	0	0	44	0	44	0	1	0	0	0	44	0	44	0	0	0	0	0
Province of Ontario	1158	1	2	10	13	1	1141	12	820	2	14	4	2	0	798	4	805	3	182	52	163	0
Manitoba	288	11	0	3	14	0	287	2	184	0	0	1	2	0	184	4	85	0	184	17	85	0
Regina	214	18	3	2	23	0	214	0	214	0	0	0	4	0	214	4	214	0	214	67	214	0
Saskatoon	139	0	0	1	1	0	139	0	139	0	0	0	1	0	139	1	139	0	139	6	139	0
Province of Saskatchewan	353	18	3	3	24	0	353	0	353	0	0	0	5	0	353	5	353	0	353	73	353	0
Province of Alberta	788	81	4	38	123	1	659	0	659	1	5	11	6	0	659	11	659	6	659	133	659	4
Prairies	1429	110	7	44	161	1	1299	2	1196	1	5	12	13	0	1196	20	1097	6	1196	223	1097	4
British Columbia	394	7	11	4	22	0	394	2	259	1	5	5	5	0	259	1	259	0	259	82	259	0
Yukon	9	0	0	0	0	0	9	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	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	1	9	3	9	1
Nunavut	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	1	2	0	2	1	2	0
Territories	20	0	0	0	0	0	20	0	11	0	0	0	0	0	11	1	11	1	11	4	11	1
CANADA	4243	119	20	77	216	3	4120	47	2925	7	36	25	24	0	2909	50	2790	10	1743	377	2098	7

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 26, 2018 - October 27, 2018 (Reporting Weeks 201835-201843)

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	328	0	0	1	1	0	328	3	328	0	1	7	0	0	328	6	328	0	328	83	N.A.	N.A.
Prince Edward Island	71	1	0	0	1	0	68	0	27	0	0	1	0	0	22	2	22	0	22	10	22	0
Nova Scotia	131	0	0	1	1	0	132	0	77	0	0	1	0	0	77	0	77	1	77	23	77	0
New Brunswick	791	0	0	3	3	0	789	5	362	0	1	2	1	0	362	19	362	0	362	102	362	1
Atlantic	1321	1	0	5	6	0	1317	8	794	0	2	11	1	0	789	27	789	1	789	218	461	1
Région Nord-Est	462	0	0	18	18	0	397	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	353	0	0	6	6	1	533	3	538	1	13	2	2	0	551	22	491	1	N.A.	N.A.	490	0
Centre-du-Québec	370	0	0	1	1	2	368	5	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	4648	0	0	14	14	0	4782	69	3713	18	72	19	17	0	3713	92	3600	8	N.A.	N.A.	3601	13
Ouest du Québec	421	0	0	0	0	0	353	7	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	417	0	0	1	1	0	404	6	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	6671	0	0	40	40	3	6837	90	4251	19	85	21	19	0	4264	114	4091	9	N.A.	N.A.	4091	13
Ottawa P.H.L.	101	0	4	0	4	0	96	0	96	0	0	1	0	0	96	0	92	0	5	0	0	0
CHEO - Ottawa	950	0	0	10	10	0	950	7	204	0	4	3	0	0	204	11	204	1	204	84	204	1
Kingston P.H.L.	140	0	0	0	0	0	136	0	136	0	0	0	0	0	136	0	131	0	17	0	0	0
UHN / Mount Sinai Hospital	1673	0	0	11	11	2	1673	11	116	0	1	0	1	0	0	0	116	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	2042	9	11	1	21	3	2013	19	2013	6	22	6	0	0	2013	9	1953	4	102	0	0	0
Sick Kids Hospital - Toronto	420	2	1	0	3	0	420	8	420	1	10	6	8	0	420	14	420	3	420	178	420	3
Sunnybrook & Women's College HSC	369	2	1	0	3	0	369	0	369	0	0	3	0	0	369	0	369	2	369	70	369	7
Sault Ste. Marie P.H.L.	41	0	0	0	0	0	41	0	41	0	0	0	0	0	41	0	40	0	1	0	0	0
Timmins P.H.L.	33	0	0	0	0	0	33	0	33	0	1	1	0	0	33	0	29	0	7	0	0	0
St. Joseph's - London	131	0	0	0	0	0	131	0	131	0	1	3	0	0	131	2	131	1	131	59	131	0
London P.H.L.	384	0	0	0	0	0	378	6	378	0	3	0	0	0	378	1	364	0	26	0	0	0
Orillia P.H.L.	112	0	0	0	0	0	109	0	109	0	0	0	0	0	109	0	107	0	3	0	0	0
Thunder Bay P.H.L.	34	0	0	0	0	0	34	0	34	1	0	2	0	0	34	0	32	0	2	0	0	0
Sudbury P.H.L.	80	0	0	0	0	0	80	1	80	1	0	0	0	0	80	0	69	0	11	0	0	0
Hamilton P.H.L.	442	1	0	1	2	0	435	6	435	1	1	1	0	0	435	3	424	1	16	0	0	0
Peterborough P.H.L.	229	0	0	0	0	0	225	3	225	1	1	0	0	0	225	0	224	0	3	0	0	0
Province of Ontario	7181	14	17	23	54	5	7123	61	4820	11	44	26	9	0	4704	40	4705	12	1317	391	1124	11
Manitoba	1647	24	0	3	27	0	1628	5	1133	0	1	7	5	0	1133	10	465	0	1133	199	499	0
Regina	1371	32	6	3	41	0	1371	2	1371	0	10	9	8	0	1371	26	1371	0	1371	527	1371	0
Saskatoon	816	0	0	20	20	0	816	6	816	1	0	1	1	0	816	21	816	0	816	158	816	1
Province of Saskatchewan	2187	32	6	23	61	0	2187	8	2187	1	10	10	9	0	2187	47	2187	0	2187	685	2187	1
Province of Alberta	4876	151	20	74	245	8	4253	0	4253	7	36	38	26	0	4253	66	4253	31	4253	1352	4253	12
Prairies	8710	207	26	100	333	8	8068	13	7573	8	47	55	40	0	7573	123	6905	31	7573	2236	6939	13
British Columbia	2531	19	29	19	67	2	2531	12	1822	3	14	32	27	0	1822	24	1822	3	1564	541	1564	4
Yukon	47	0	0	0	0	0	47	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	81	0	0	0	0	0	81	0	81	0	0	3	0	0	81	5	81	1	81	25	81	2
Nunavut	14	0	0	0	0	0	14	0	14	0	0	0	0	0	14	3	13	0	14	8	13	0
Territories	142	0	0	0	0	0	142	0	95	0	0	3	0	0	95	8	94	1	95	33	94	2
CANADA	26556	241	72	187	500	18	26018	184	19355	41	192	148	96	0	19247	336	18406	57	11338	3419	14273	44

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, 2018-19

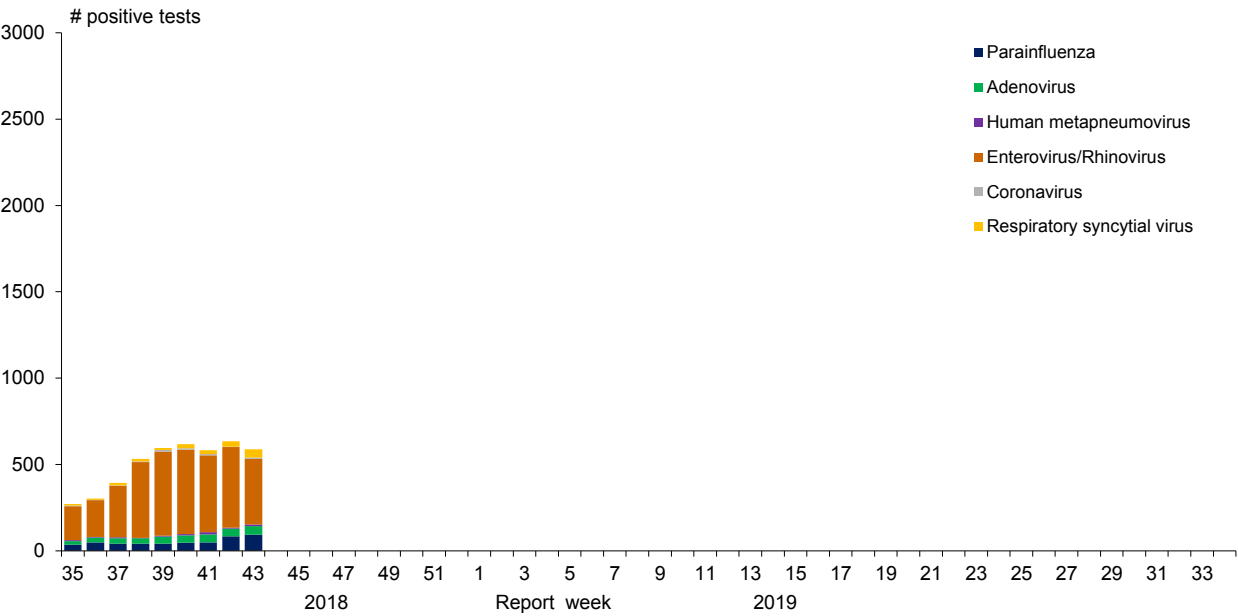


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

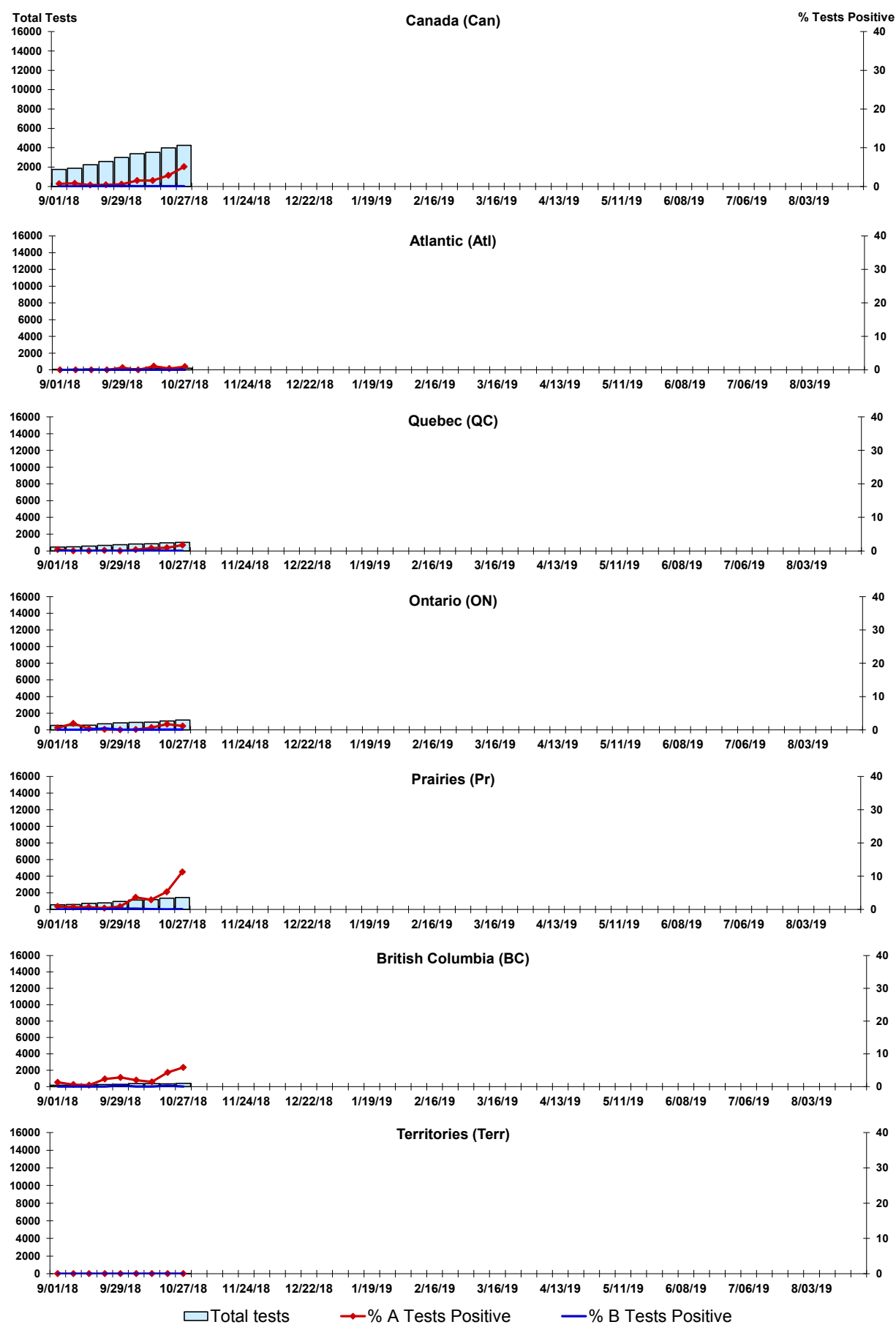


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

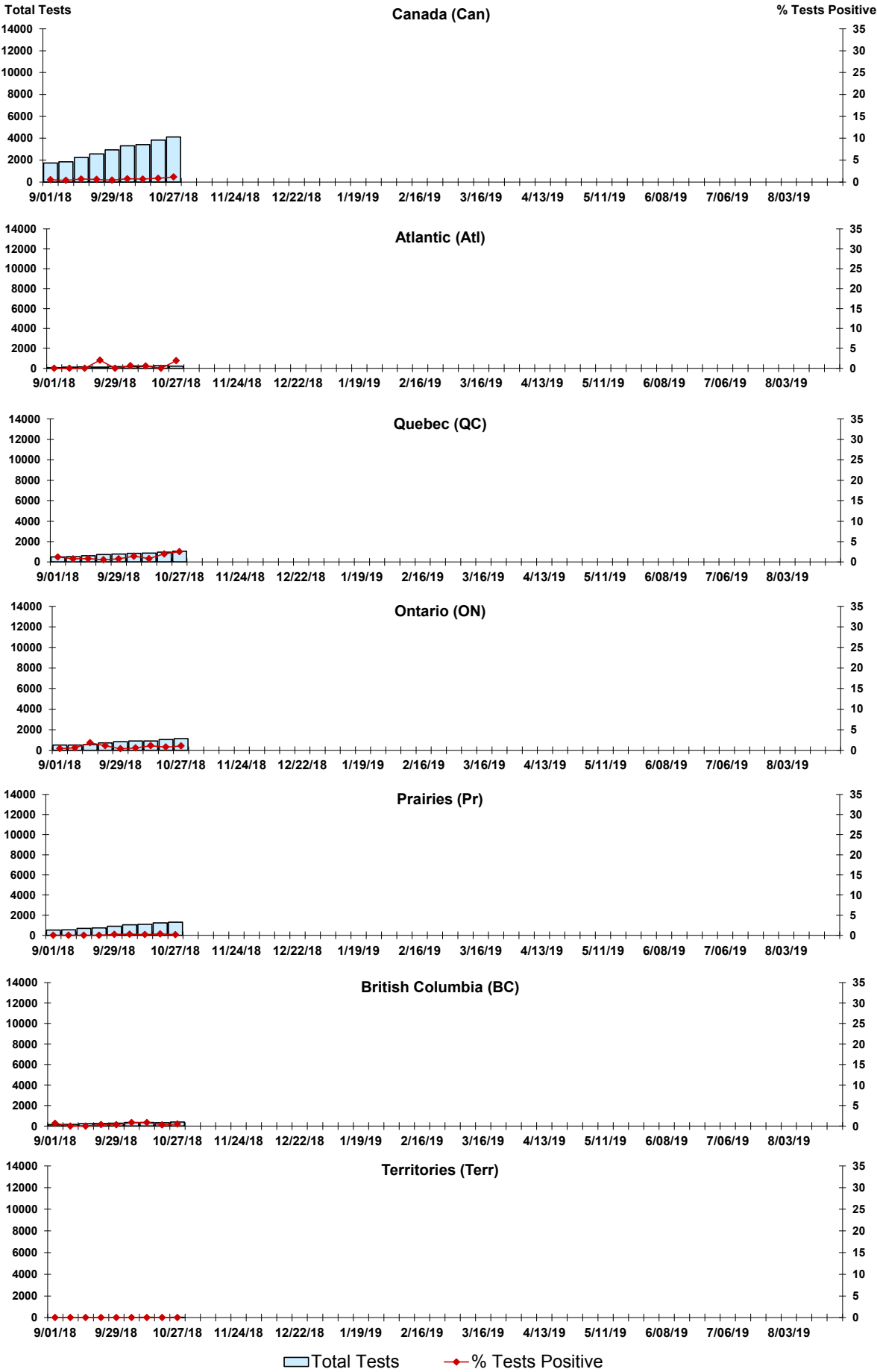


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

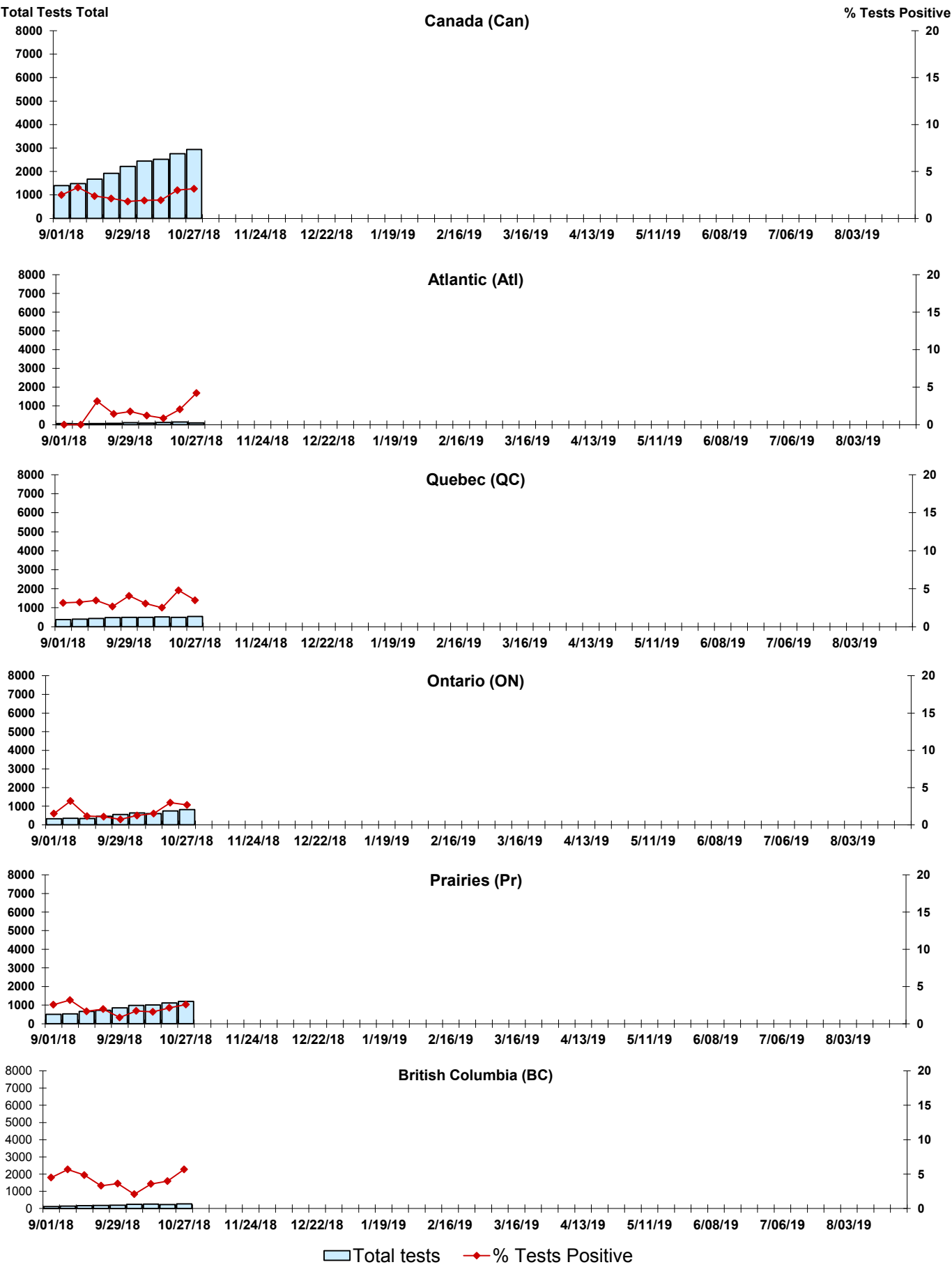


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

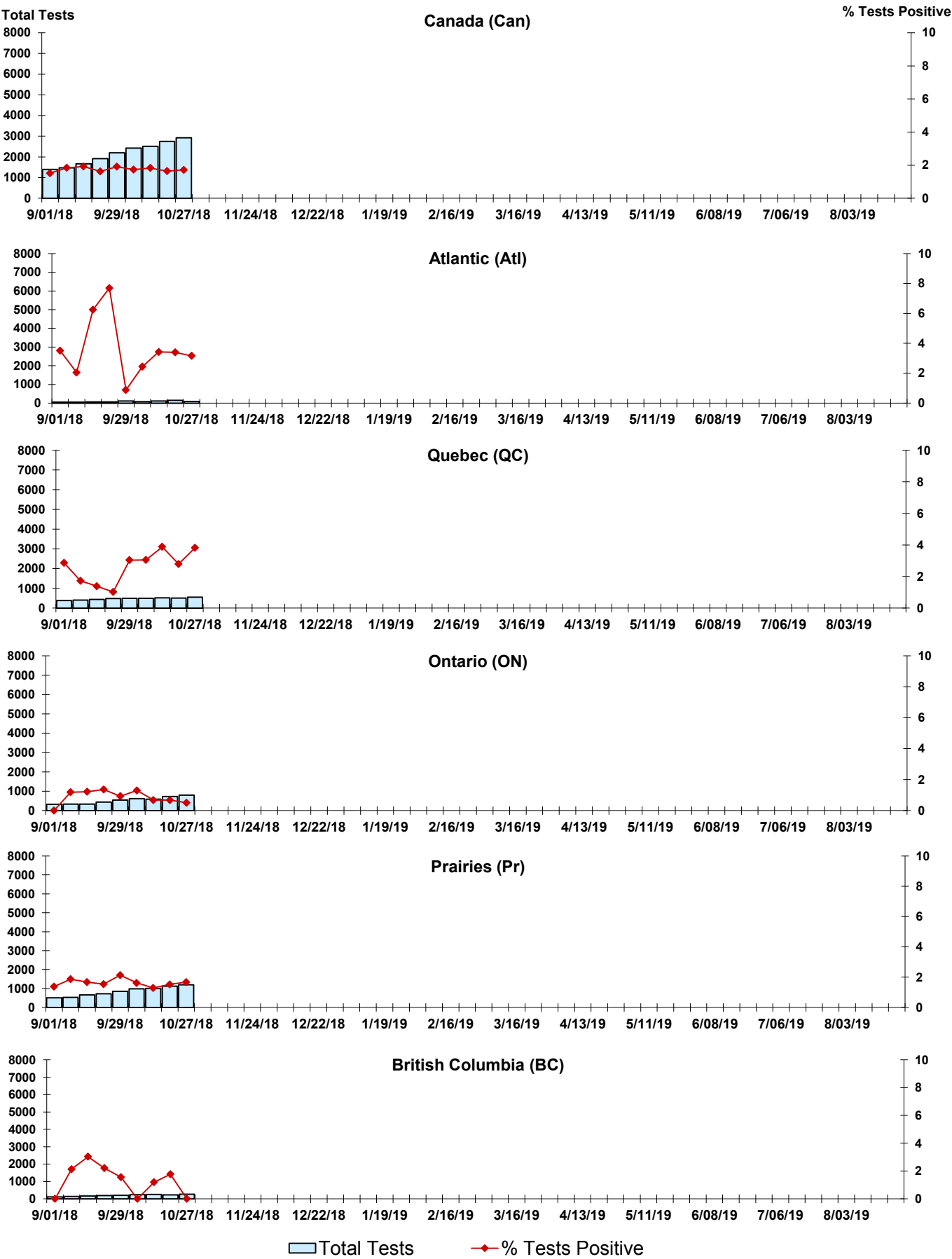


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

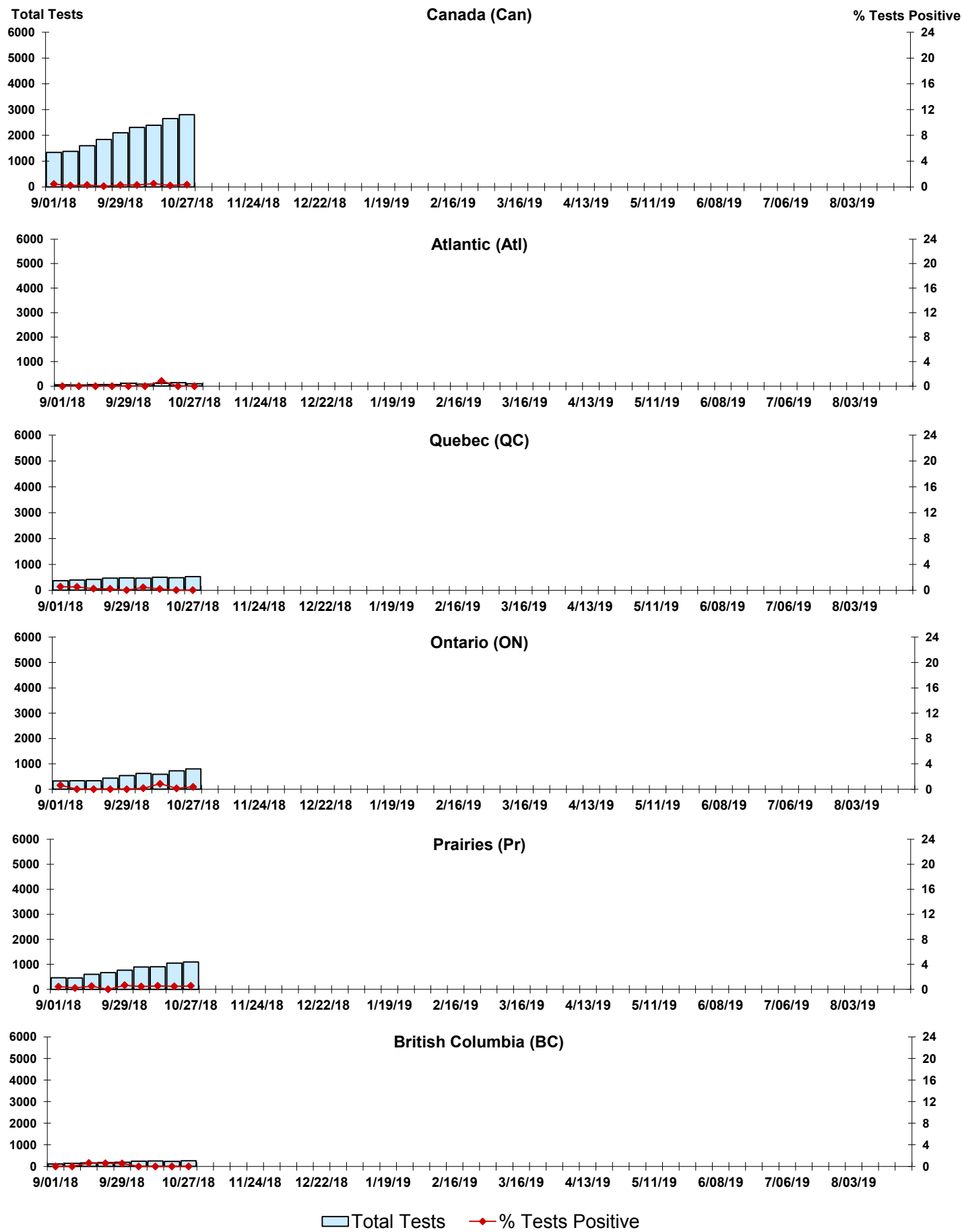


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

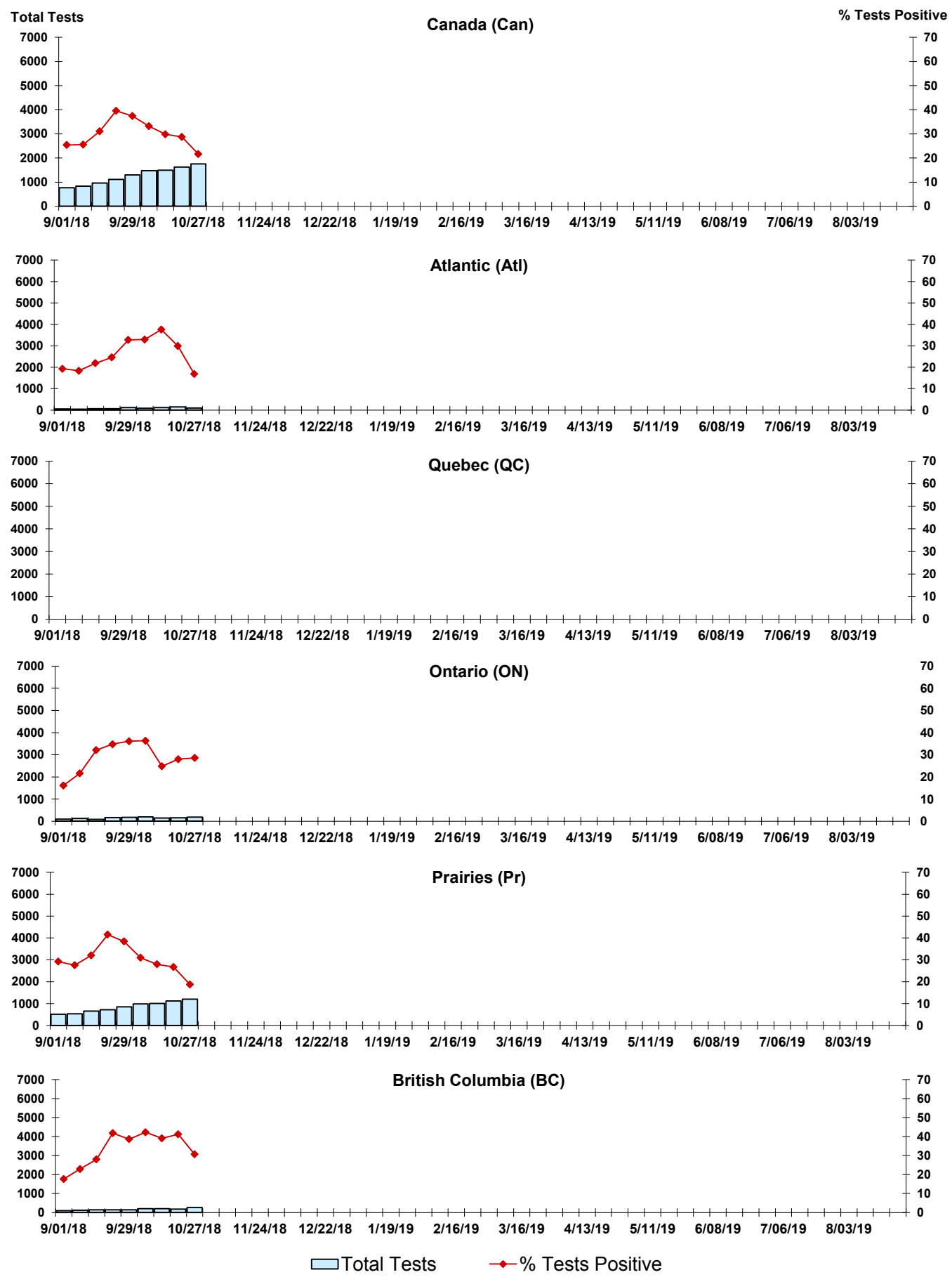
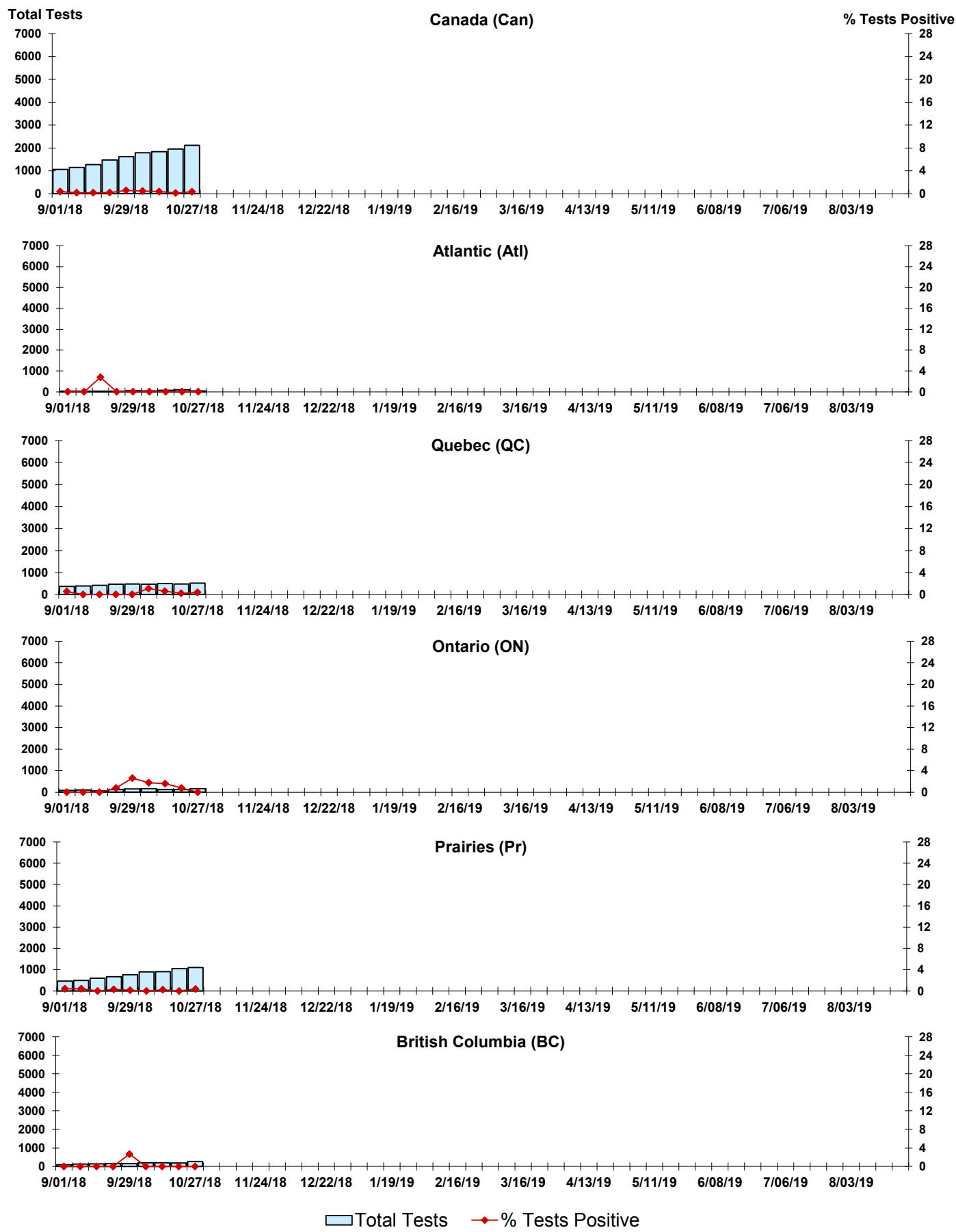


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.