

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 49 - ending December 8, 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 December 8, 2018 (Reporting Week 201849)

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	81	0	0	4	4	0	81	6	81	0	2	8	0	0	81	1	81	0	81	11	N.A.	N.A.
Prince Edward Island	22	2	0	0	2	0	22	0	4	0	0	0	0	0	4	0	4	0	4	2	4	0
Nova Scotia	75	0	0	3	3	0	75	3	9	0	0	1	0	0	9	0	9	0	9	0	9	0
New Brunswick	280	7	0	36	43	1	281	5	63	0	1	0	1	0	63	10	63	0	63	7	63	0
Atlantic	458	9	0	43	52	1	459	14	157	0	3	9	1	0	157	11	157	0	157	20	76	0
Région Nord-Est	365	0	0	88	88	0	252	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	475	0	0	70	70	1	534	46	95	1	2	1	0	0	104	2	82	0	N.A.	N.A.	81	0
Centre-du-Québec	430	0	0	60	60	3	372	27	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	1234	0	0	102	102	2	1183	150	700	1	14	2	3	0	700	31	691	10	N.A.	N.A.	691	26
Ouest du Québec	417	0	0	42	42	1	293	41	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	225	0	0	26	26	0	225	17	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	3146	0	0	388	388	7	2859	284	795	2	16	3	3	0	804	33	773	10	N.A.	N.A.	772	26
Ottawa P.H.L.	34	2	1	1	4	0	34	0	13	0	0	0	0	0	13	0	12	0	1	0	0	0
CHEO - Ottawa	173	0	0	14	14	1	173	10	17	0	0	0	0	0	17	1	17	0	17	1	17	1
Kingston P.H.L.	32	0	0	0	0	0	32	0	14	0	1	1	0	0	14	0	14	0	2	0	0	0
UHN / Mount Sinai Hospital	276	0	0	3	3	0	276	12	15	0	0	0	0	0	0	0	15	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	377	22	7	1	30	0	375	1	277	0	0	0	0	0	277	2	269	1	8	0	0	0
Sick Kids Hospital - Toronto	77	6	0	0	6	0	77	19	77	1	7	0	2	0	77	1	77	1	77	12	77	13
Sunnybrook & Women's College HSC	80	5	0	0	5	0	80	5	80	1	0	0	0	0	80	0	80	2	80	4	80	2
Sault Ste. Marie P.H.L.	11	1	0	0	1	0	10	0	10	0	0	0	0	0	10	0	10	0	0	0	0	0
Timmins P.H.L.	11	1	0	0	1	0	10	0	10	0	1	0	0	0	10	0	10	0	0	0	0	0
St. Joseph's - London	120	0	0	3	3	0	120	16	46	0	2	0	2	0	46	1	46	1	23	3	23	1
London P.H.L.	116	10	0	6	16	0	116	0	72	0	1	0	0	0	72	1	70	0	2	0	0	0
Orillia P.H.L.	25	0	0	0	0	0	25	0	13	0	0	0	0	0	13	0	10	0	3	0	0	0
Thunder Bay P.H.L.	6	0	0	0	0	0	6	0	6	0	0	1	0	0	6	0	6	0	0	0	0	0
Sudbury P.H.L.	21	0	0	0	0	0	20	1	20	0	1	0	0	0	20	1	20	0	0	0	0	0
Hamilton P.H.L.	135	4	3	3	10	0	135	0	97	0	2	4	0	0	97	0	95	0	2	0	0	0
Peterborough P.H.L.	29	1	0	0	1	0	29	0	18	0	0	0	0	0	18	0	16	0	2	0	0	0
Province of Ontario	1523	52	11	31	94	1	1518	64	785	2	15	6	4	0	770	7	767	5	217	20	197	17
Manitoba	384	28	0	48	76	2	352	4	155	0	3	0	2	0	155	0	130	1	155	19	130	1
Regina	493	178	6	23	207	0	493	6	493	0	5	6	3	0	493	2	493	2	493	73	493	0
Saskatoon	242	0	0	79	79	0	242	5	242	0	0	0	0	0	242	0	242	0	242	1	242	0
Province of Saskatchewan	735	178	6	102	286	0	735	11	735	0	5	6	3	0	735	2	735	2	735	74	735	0
Province of Alberta	1436	337	3	170	510	1	1030	0	1030	0	11	4	6	0	1030	15	1030	10	1030	134	1030	24
Prairies	2555	543	9	320	872	3	2117	15	1920	0	19	10	11	0	1920	17	1895	13	1920	227	1895	25
British Columbia	620	90	15	48	153	2	620	18	201	0	3	2	4	0	201	5	201	0	149	40	149	4
Yukon	8	0	0	1	1	0	8	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	67	37	0	0	37	0	67	0	67	0	0	3	0	0	67	0	67	0	67	7	67	0
Nunavut	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	1	2	0	2	0	2	0
Territories	77	37	0	1	38	0	77	0	69	0	0	3	0	0	69	1	69	0	69	7	69	0
CANADA	8379	731	35	831	1597	14	7650	395	3927	4	56	33	23	0	3921	74	3862	28	2512	314	3158	72

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 - December 8, 2018 (Reporting Weeks 201835-201849)

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	736	1	0	13	14	1	736	22	736	0	5	25	0	0	736	10	736	0	736	134	N.A.	N.A.
Prince Edward Island	201	6	0	0	6	0	198	0	47	0	0	1	3	0	42	4	42	0	42	19	42	0
Nova Scotia	482	0	0	13	13	0	486	15	288	0	1	7	1	0	288	0	288	3	288	48	288	0
New Brunswick	1933	10	0	58	68	1	1936	15	787	0	9	4	16	0	787	59	787	1	787	163	787	1
Atlantic	3352	17	0	84	101	2	3356	52	1858	0	15	37	20	0	1853	73	1853	4	1853	364	1117	1
Région Nord-Est	1958	0	0	251	251	0	1546	3	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	2149	0	0	204	204	5	2326	117	1004	3	23	5	5	0	1043	41	905	1	N.A.	N.A.	902	2
Centre-du-Québec	1647	0	0	99	99	9	1484	59	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	9893	0	0	239	239	7	9899	490	6907	28	122	27	26	0	6907	241	6738	25	N.A.	N.A.	6739	96
Ouest du Québec	1727	0	0	113	113	3	1395	101	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal	1511	0	0	60	60	1	1498	76	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	18885	0	0	966	966	25	18148	846	7911	31	145	32	31	0	7950	282	7643	26	N.A.	N.A.	7641	98
Ottawa P.H.L.	226	3	7	1	11	0	222	0	185	0	0	1	0	0	185	0	174	0	12	0	0	0
CHEO - Ottawa	1979	0	0	40	40	5	1979	44	343	0	6	3	0	0	343	13	343	1	343	117	341	3
Kingston P.H.L.	284	0	7	0	7	0	284	1	255	0	1	1	0	0	255	0	244	0	43	0	0	0
UHN / Mount Sinai Hospital	3171	0	0	33	33	4	3171	55	206	0	2	0	2	0	0	0	182	2	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	4515	54	44	3	101	17	4469	33	4139	12	39	13	0	0	4140	23	4034	16	200	0	0	0
Sick Kids Hospital - Toronto	818	16	3	0	19	0	818	81	818	4	27	10	14	0	818	17	818	7	818	279	818	35
Sunnybrook & Women's College HSC	768	16	4	1	21	0	768	7	768	1	3	5	1	0	768	0	768	7	768	97	768	12
Sault Ste. Marie P.H.L.	90	1	0	0	1	0	89	1	89	0	0	0	0	0	89	0	88	0	1	0	0	0
Timmins P.H.L.	83	2	0	0	2	0	81	0	81	0	3	2	0	0	81	0	77	0	7	0	0	0
St. Joseph's - London	771	3	0	5	8	0	771	47	465	1	4	5	7	0	465	18	465	7	389	114	356	2
London P.H.L.	1000	33	0	6	39	1	983	10	857	0	12	1	0	0	857	6	831	2	47	0	0	0
Orillia P.H.L.	238	0	0	0	0	0	238	1	218	0	1	2	0	0	218	1	210	0	10	0	0	0
Thunder Bay P.H.L.	88	2	0	0	2	0	86	0	86	1	0	3	0	0	86	0	82	0	4	0	0	0
Sudbury P.H.L.	197	0	0	0	0	0	196	3	196	1	2	0	0	0	196	2	178	0	23	0	0	0
Hamilton P.H.L.	1008	17	6	4	27	1	996	6	909	1	8	7	0	0	909	5	891	2	33	0	0	0
Peterborough P.H.L.	407	3	1	0	4	0	406	3	384	2	1	0	0	0	384	0	380	0	6	0	0	0
Province of Ontario	15643	150	72	93	315	28	15557	292	9999	23	109	53	24	0	9794	85	9765	44	2704	607	2283	52
Manitoba	3293	120	3	133	256	2	3242	32	1922	0	7	7	10	0	1922	17	980	5	1922	292	1014	6
Regina	3141	501	17	48	566	0	3141	12	5074	0	23	25	20	0	3141	52	3141	10	3141	842	3141	4
Saskatoon	2067	0	0	366	366	0	2067	20	2067	1	3	3	4	0	2067	23	2067	2	2067	188	2067	1
Province of Saskatchewan	5208	501	17	414	932	0	5208	32	7141	1	26	28	24	0	5208	75	5208	12	5208	1030	5208	5
Province of Alberta	12874	1950	46	1140	3136	19	10159	0	10159	9	86	104	96	0	10159	140	10159	79	10159	2129	10159	96
Prairies	21375	2571	66	1687	4324	21	18609	64	19222	10	119	139	130	0	17289	232	16347	96	17289	3451	16381	107
British Columbia	5188	217	58	83	358	5	5188	58	3168	5	26	55	44	0	3168	44	3168	5	2562	815	2562	27
Yukon	94	0	0	1	1	0	94	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	260	72	0	0	72	0	258	0	258	0	0	10	0	0	258	7	258	1	258	54	258	2
Nunavut	26	6	0	0	6	0	26	0	26	0	0	0	0	0	26	4	25	0	26	9	25	0
Territories	380	78	0	1	79	0	378	0	284	0	0	10	0	0	284	11	283	1	284	63	283	2
CANADA	64823	3033	196	2914	6143	81	61236	1312	42442	69	414	326	249	0	40338	727	39059	176	24692	5300	30267	287

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

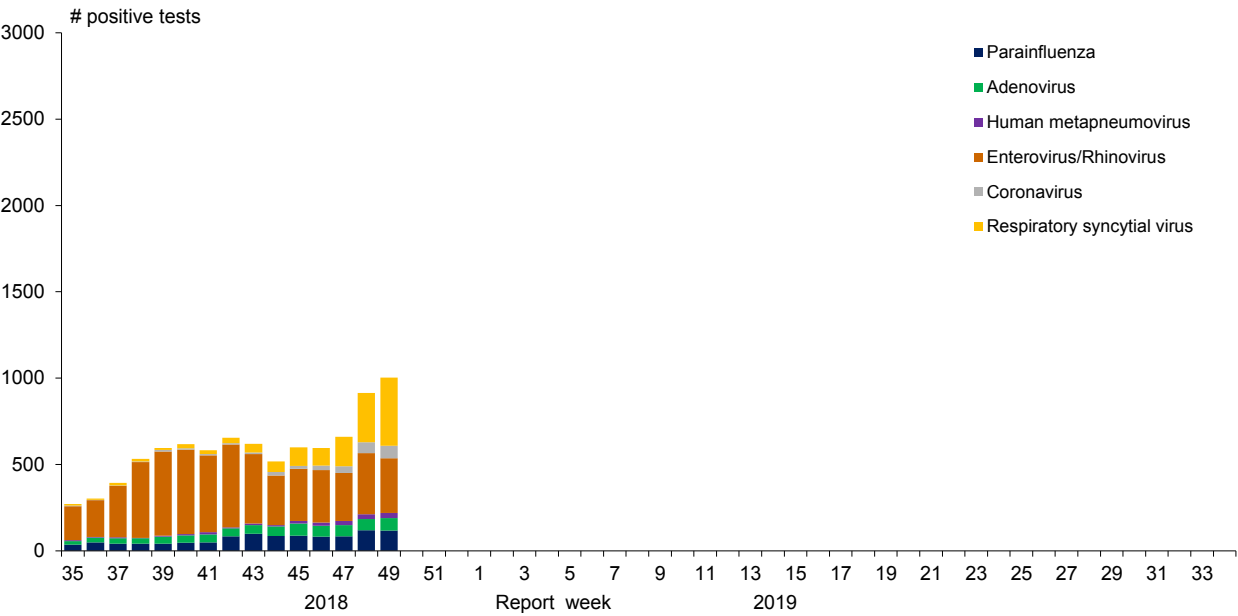


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

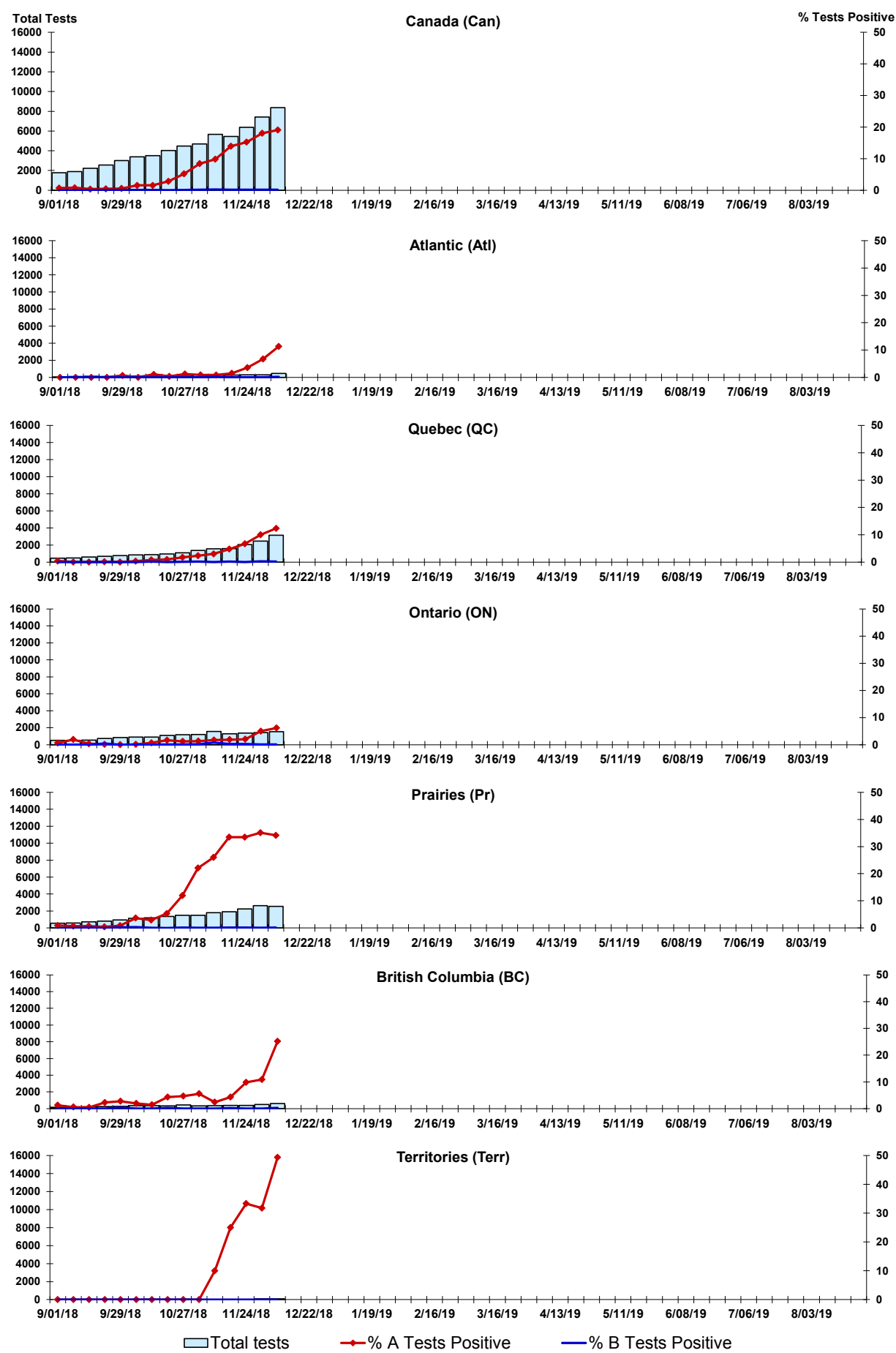


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

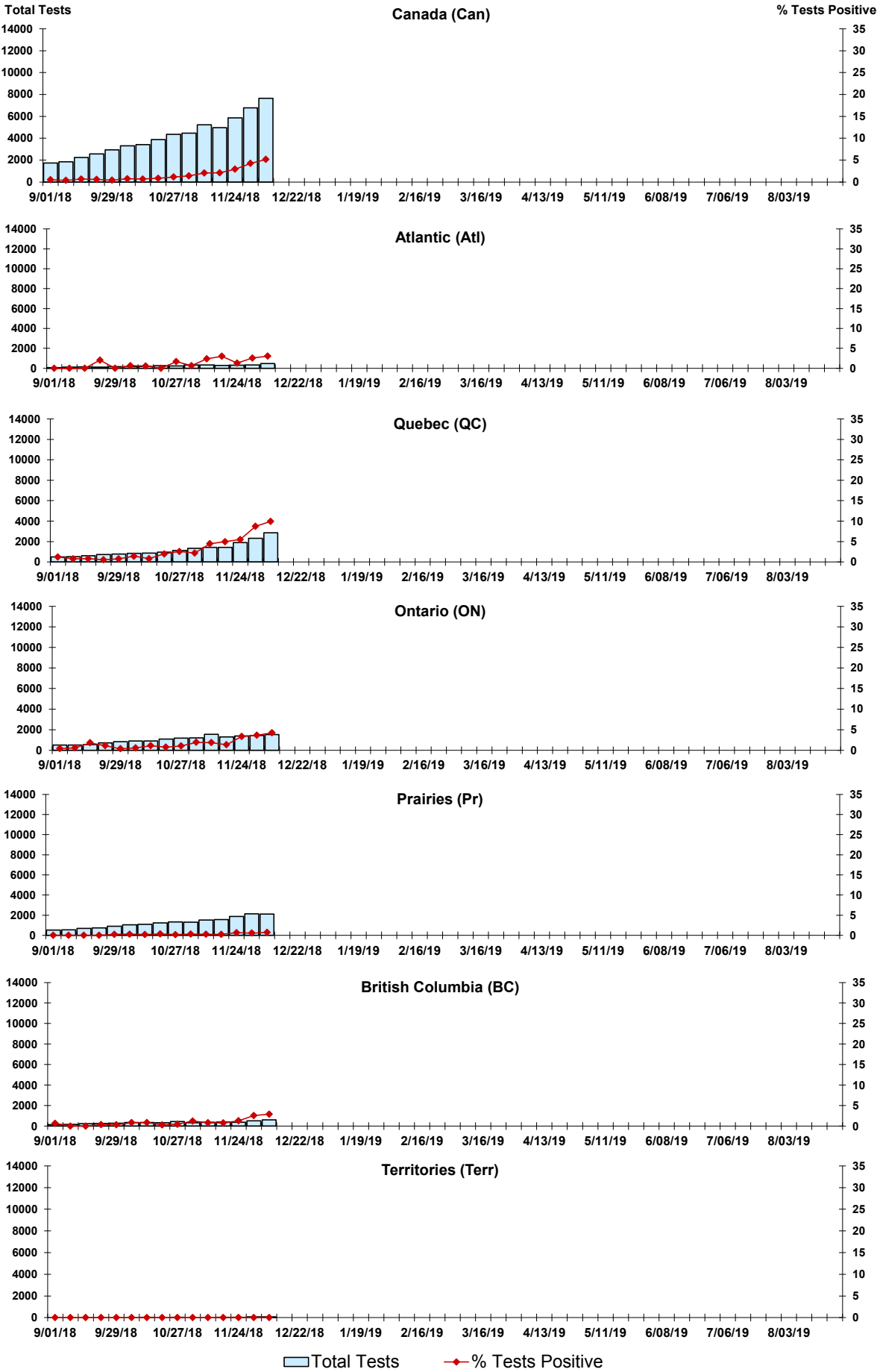


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

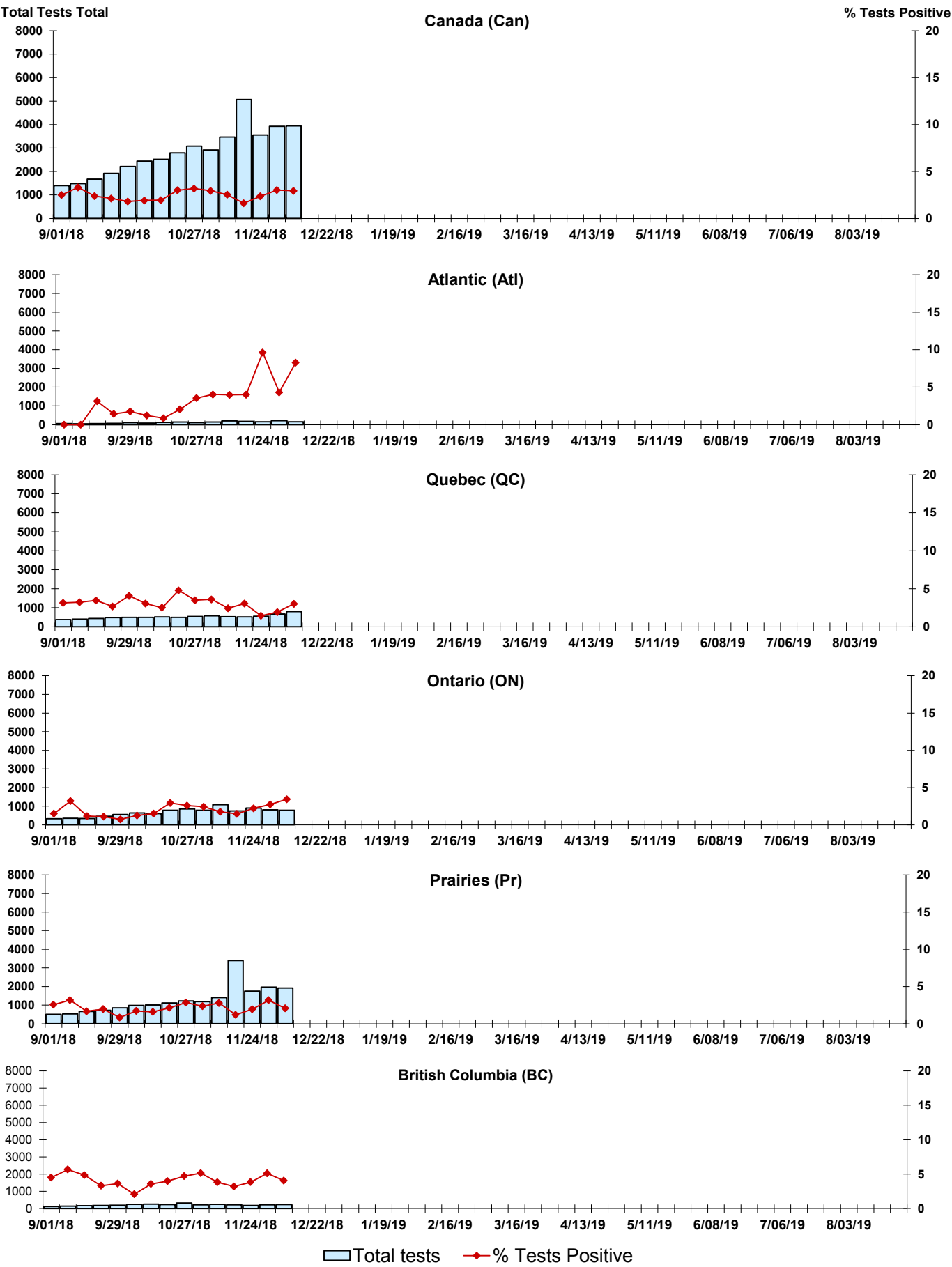


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

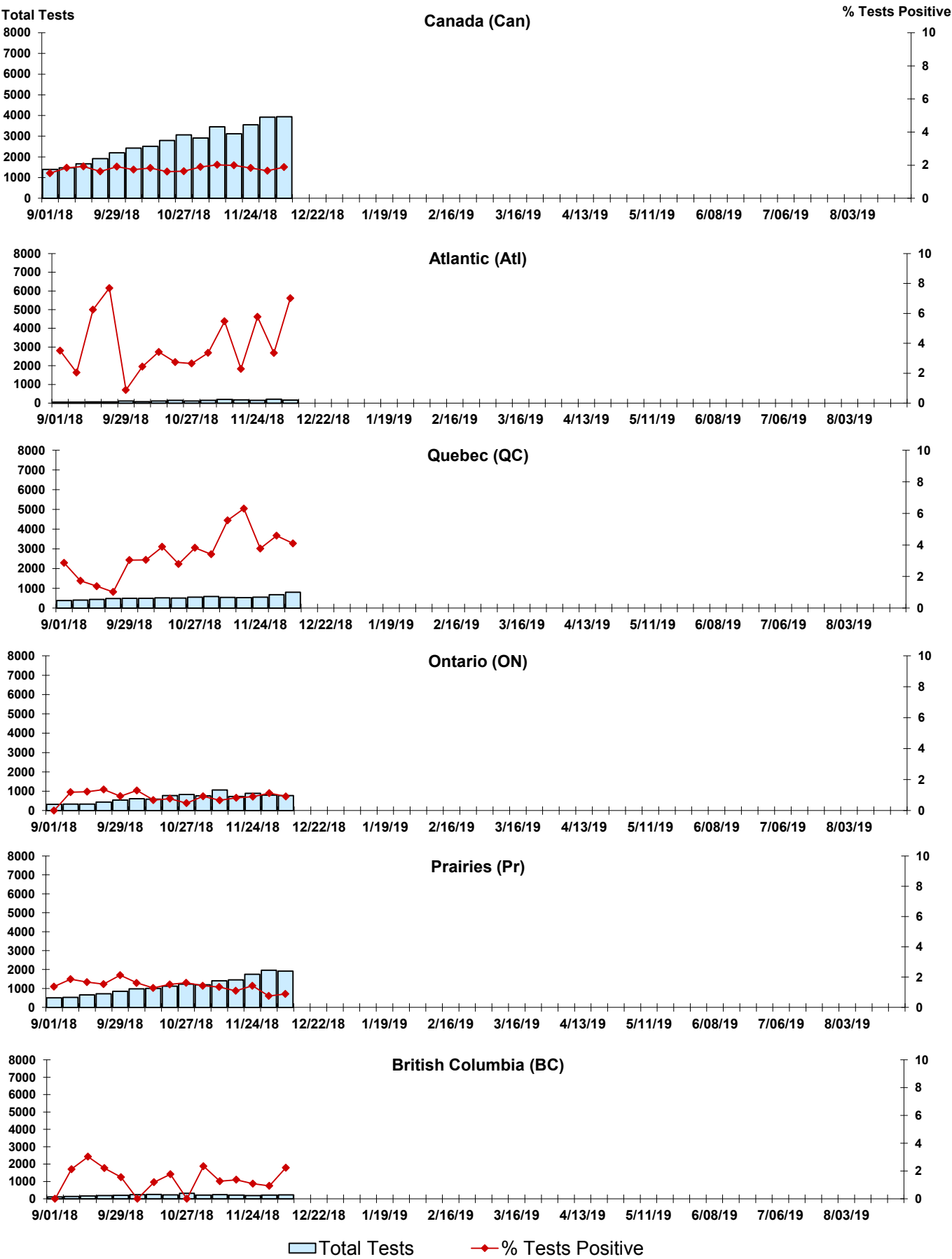


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

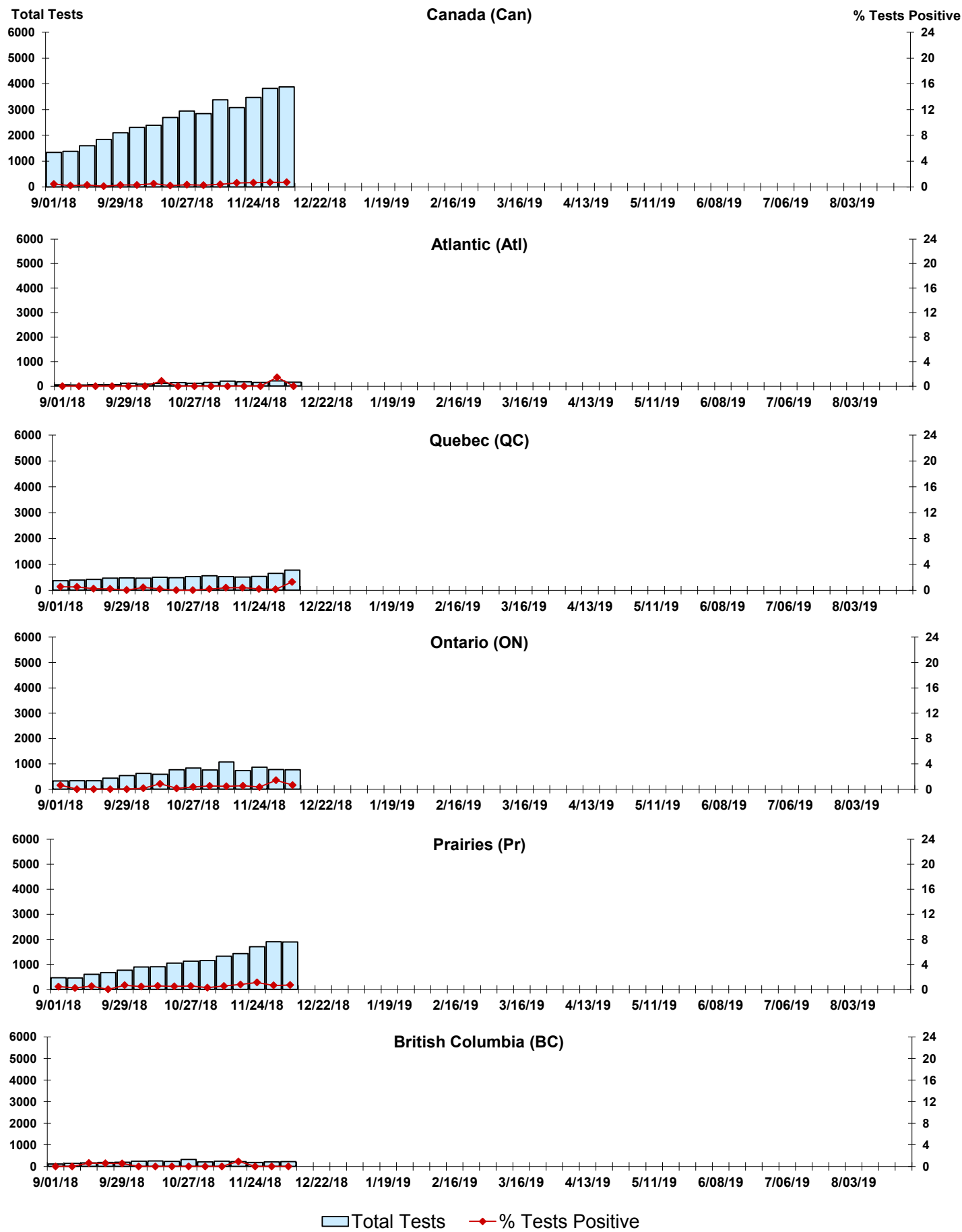


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

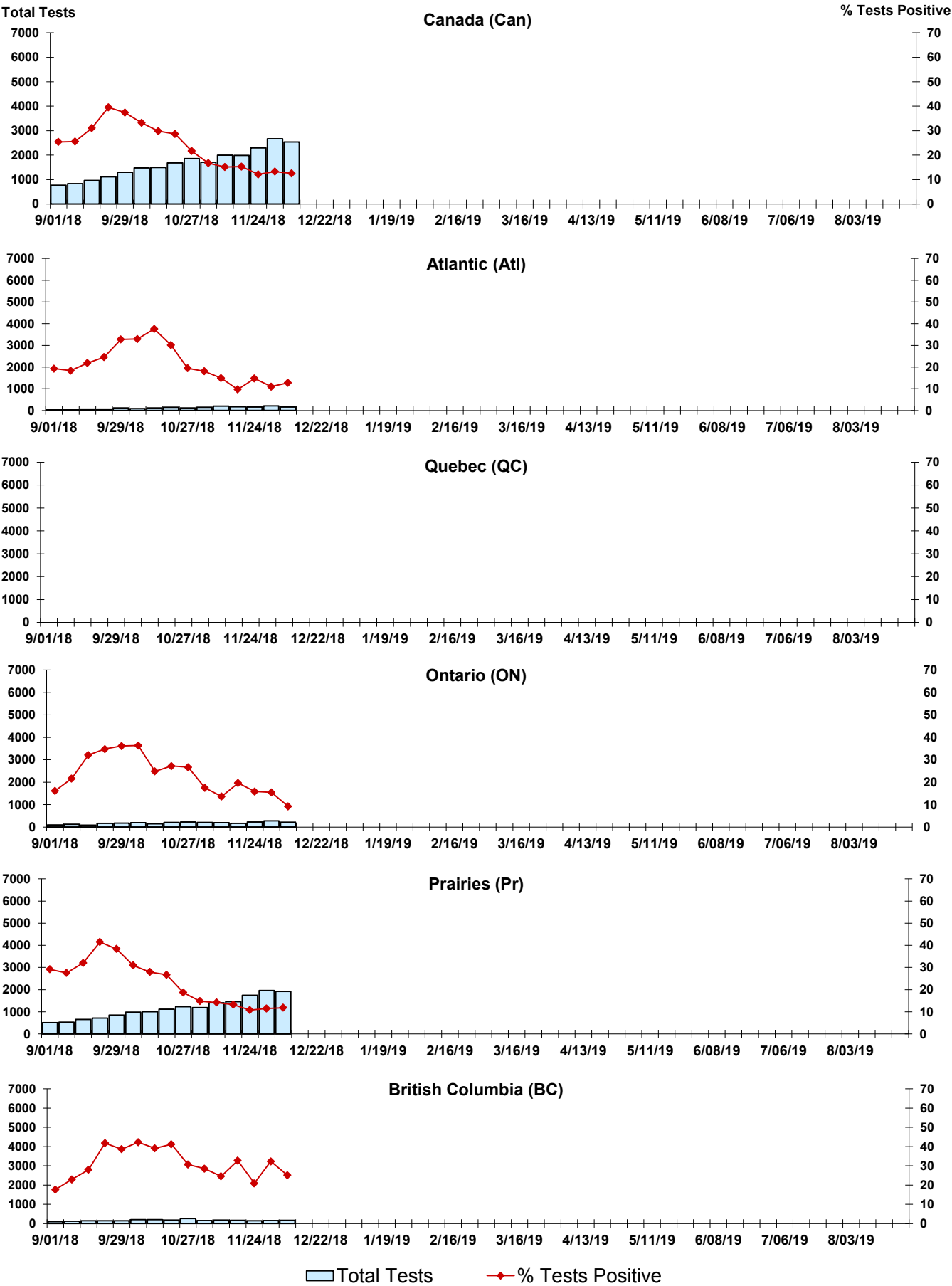
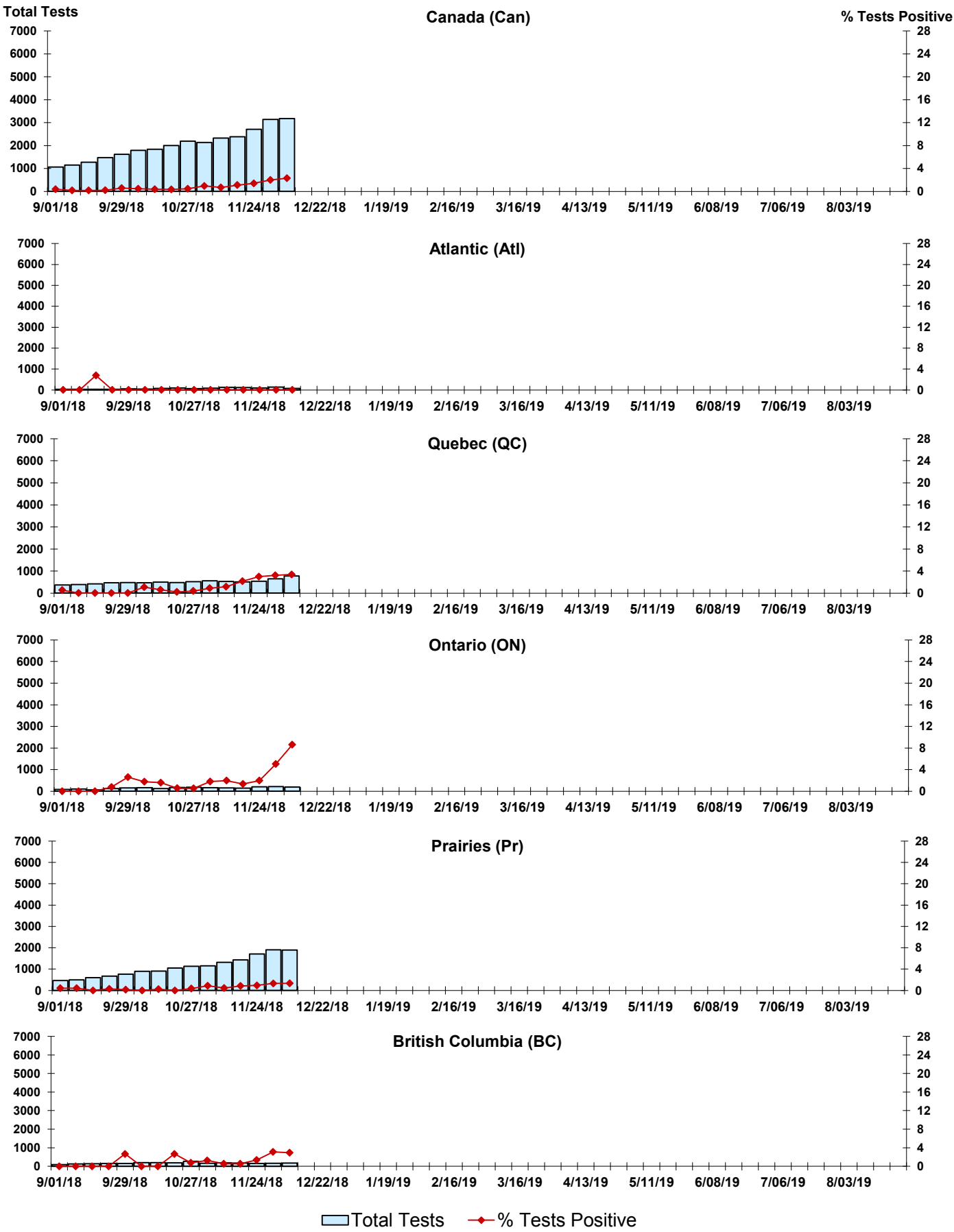


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.