

Respiratory Virus Report, Week 49 - ending December 5, 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 December 5, 2020 (Reporting Week 202049)

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	318	0	0	0	0	0	318	0	318	0	0	0	0	0	318	0	318	0	318	51	N.A.	N.A.
Prince Edward Island	93	0	0	0	0	0	93	0	93	0	0	0	0	0	93	2	93	0	93	16	93	0
Nova Scotia	52	0	0	0	0	0	52	0	16	0	0	0	0	0	16	1	16	0	16	4	16	0
New Brunswick	6013	0	0	0	0	0	760	0	26	0	0	0	0	0	26	0	26	0	26	4	26	0
Atlantic	6476	0	0	0	0	0	1223	0	453	0	0	0	0	0	453	3	453	0	453	75	135	0
Région Nord-Est	78	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	27	0	0	0	0	0	29	0	16	0	0	0	0	0	16	1	16	0	N.A.	N.A.	16	0
Centre-du-Québec	33	0	0	0	0	0	33	0	5	0	0	0	0	0	5	1	5	0	N.A.	N.A.	5	0
Montréal-Laval	254	0	0	0	0	0	158	0	106	0	0	0	0	0	106	6	106	0	N.A.	N.A.	106	0
Ouest du Québec	51	0	0	0	0	0	49	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	443	0	0	0	0	0	324	0	127	0	0	0	0	0	127	8	127	0	N.A.	N.A.	127	0
P.H.O.L. - Ottawa	16	0	0	0	0	0	16	0	15	0	0	0	0	0	15	0	15	0	15	0	15	0
CHEO - Ottawa	177	0	0	0	0	0	177	0	38	0	0	0	0	0	38	0	38	0	38	4	38	0
P.H.O.L. - Kingston	21	0	0	0	0	0	21	0	15	0	0	0	0	0	15	0	15	0	15	3	15	0
UHN / Mount Sinai Hospital	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. - Toronto	184	0	0	0	0	0	184	1	184	0	0	0	0	0	184	2	184	0	184	2	184	0
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	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	4	0	4	0
P.H.O.L. - Timmins	42	0	0	0	0	0	42	0	12	0	0	0	0	0	12	0	12	0	12	0	12	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	104	1	0	0	1	0	103	0	90	0	0	0	0	0	90	0	90	0	90	5	90	0
P.H.O.L. - Orillia	19	0	0	1	1	0	19	0	19	0	0	0	0	0	19	0	19	0	19	1	19	0
P.H.O.L. - Thunder Bay	17	0	0	0	0	0	17	0	17	0	0	0	0	0	17	0	17	0	17	2	17	0
P.H.O.L. - Sudbury	22	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. - Hamilton	78	0	0	0	0	0	78	0	72	0	0	0	0	0	72	0	72	0	72	2	72	0
P.H.O.L. - Peterborough	17	0	0	0	0	0	17	0	15	0	0	0	0	0	15	0	15	0	15	0	15	0
St. Joseph's - Hamilton	406	0	0	0	0	0	406	0	406	0	0	0	0	0	406	3	406	0	406	22	0	0
Province of Ontario	1107	1	0	1	2	0	1106	1	909	0	0	0	0	0	909	5	909	0	909	41	503	0
Province of Manitoba	1824	0	0	0	0	0	1824	4	107	0	0	0	0	0	107	1	104	0	107	4	104	0
Province of Saskatchewan	198	0	0	0	0	0	198	1	79	0	0	0	0	0	79	0	79	0	79	2	79	0
Province of Alberta	4016	0	0	1	1	0	1821	0	1821	0	0	0	0	0	1821	5	1821	0	1821	108	1821	1
Prairies	6038	0	0	1	1	0	3843	5	2007	0	0	0	0	0	2007	6	2004	0	2007	114	2004	1
British Columbia	2134	0	0	2	2	2	2134	1	873	0	0	0	0	0	873	0	873	0	802	47	241	0
Yukon	143	0	0	0	0	0	143	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	32	0	0	0	0	0	32	0	32	0	0	0	0	0	32	0	32	0	32	5	32	0
Nunavut	23	0	0	0	0	0	23	0	23	0	0	0	0	0	23	4	23	0	23	2	3	0
Territories	198	0	0	0	0	0	198	0	55	0	0	0	0	0	55	4	55	0	55	7	35	0
CANADA	16396	1	0	4	5	2	8828	7	4424	0	0	0	0	0	4424	26	4421	0	4226	284	3045	1

The data in the RVDSS report represent surveillance data available at the time of writing. Missing data are denoted by N.A.

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.

Table 2: Respiratory Virus Detections/Isolations for the period August 23, 2020 - December 5, 2020 (Reporting Weeks 202035-202049)

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	4715	0	0	0	0	0	4715	6	4715	0	0	1	0	0	4717	17	4715	1	4715	1511	N.A.	N.A.
Prince Edward Island	466	0	0	0	0	0	466	2	462	2	0	0	0	0	462	4	462	0	462	91	462	0
Nova Scotia	410	0	0	0	0	0	412	0	221	0	0	0	0	0	221	3	221	0	221	39	221	0
New Brunswick	10953	0	0	0	0	0	5700	0	274	0	0	0	0	0	265	4	265	0	265	39	220	0
Atlantic	16544	0	0	0	0	0	11293	8	5672	2	0	1	0	0	5665	28	5663	1	5663	1680	903	0
Région Nord-Est	575	0	0	0	0	0	416	1	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	308	0	0	1	1	0	350	0	229	0	0	0	0	0	231	13	226	0	N.A.	N.A.	209	0
Centre-du-Québec	252	0	0	0	0	0	257	1	101	0	0	0	0	0	99	8	101	0	N.A.	N.A.	98	0
Montréal-Laval	2173	0	0	0	0	0	2055	1	1450	0	0	0	0	0	1504	58	1440	0	N.A.	N.A.	1440	2
Ouest du Québec	339	0	0	0	0	0	313	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	3647	0	0	1	1	0	3391	3	1780	0	0	0	0	0	1834	79	1767	0	N.A.	N.A.	1747	2
P.H.O.L. - Ottawa	225	0	0	0	0	0	225	1	217	0	0	0	0	0	217	0	217	0	217	13	217	0
CHEO - Ottawa	1842	0	0	1	1	1	1439	4	318	0	0	0	0	0	318	2	318	0	318	33	318	0
P.H.O.L. - Kingston	378	0	0	0	0	0	378	0	326	0	0	0	0	0	326	2	323	0	326	92	323	0
UHN / Mount Sinai Hospital	1236	0	0	0	0	1	1236	1	1032	0	1	1	1	0	0	0	992	4	789	19	40	0
P.H.O.L. - Toronto	2471	0	0	0	0	0	2469	2	2469	0	0	0	0	2	2470	8	2468	0	2469	117	2468	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	64	0	0	2	2	0	62	0	61	0	0	0	0	0	61	0	61	0	61	3	61	0
P.H.O.L. - Timmins	242	0	0	0	0	0	242	0	108	0	0	0	0	0	108	0	108	0	108	23	108	0
St. Joseph's - London	218	0	0	0	0	0	218	0	55	0	0	0	0	0	55	0	55	0	91	8	36	0
P.H.O.L. - London	869	1	0	1	2	2	860	0	784	0	0	0	0	2	784	2	780	0	784	93	780	0
P.H.O.L. - Orillia	124	0	0	1	1	0	122	0	120	0	0	0	0	0	120	0	120	0	120	9	120	0
P.H.O.L. - Thunder Bay	279	0	0	0	0	0	279	0	279	0	0	0	0	0	280	1	279	0	279	122	279	0
P.H.O.L. - Sudbury	184	0	0	0	0	0	182	0	180	0	0	0	0	0	180	1	180	0	180	14	180	0
P.H.O.L. - Hamilton	775	0	0	0	0	0	732	0	700	0	0	0	0	0	700	2	700	0	700	75	700	0
P.H.O.L. - Peterborough	256	0	0	1	1	0	211	0	201	0	0	0	0	0	201	0	201	0	201	18	201	0
St. Joseph's - Hamilton	2276	0	0	0	0	0	2276	0	2276	0	0	0	0	0	2276	9	2276	0	2276	236	0	0
Province of Ontario	11439	1	0	6	7	4	10931	8	9126	0	1	1	1	4	8096	27	9078	4	8919	875	5831	2
Manitoba	15514	0	0	0	0	0	15514	37	1453	0	1	1	0	0	1453	9	1370	0	1453	104	1370	1
Province of Saskatchewan	1459	0	0	0	0	0	1459	2	886	0	0	0	0	0	886	8	886	0	886	110	886	0
Province of Alberta	58574	0	0	2	2	0	55802	0	55802	2	16	1	3	0	55802	82	55802	10	55802	5135	55802	15
Prairies	75547	0	0	2	2	0	72775	39	58141	2	17	2	3	0	58141	99	58058	10	58141	5349	58058	16
British Columbia	24110	1	2	4	7	5	24108	5	6459	0	1	0	3	0	6925	32	6925	22	6741	788	3789	0
Yukon	3360	0	0	8	8	7	3318	4	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	582	0	0	0	0	0	582	0	582	0	0	0	1	0	582	3	582	1	582	189	582	0
Nunavut	1056	0	0	0	0	0	1056	0	1056	3	1	0	0	0	1056	24	1056	5	1056	274	167	0
Territories	4998	0	0	8	8	7	4956	4	1638	3	1	0	1	0	1638	27	1638	6	1638	463	749	0
CANADA	136285	2	2	21	25	16	127454	67	82816	7	20	4	8	4	82299	292	83129	43	81102	9155	71077	20

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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.

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, 2020-21

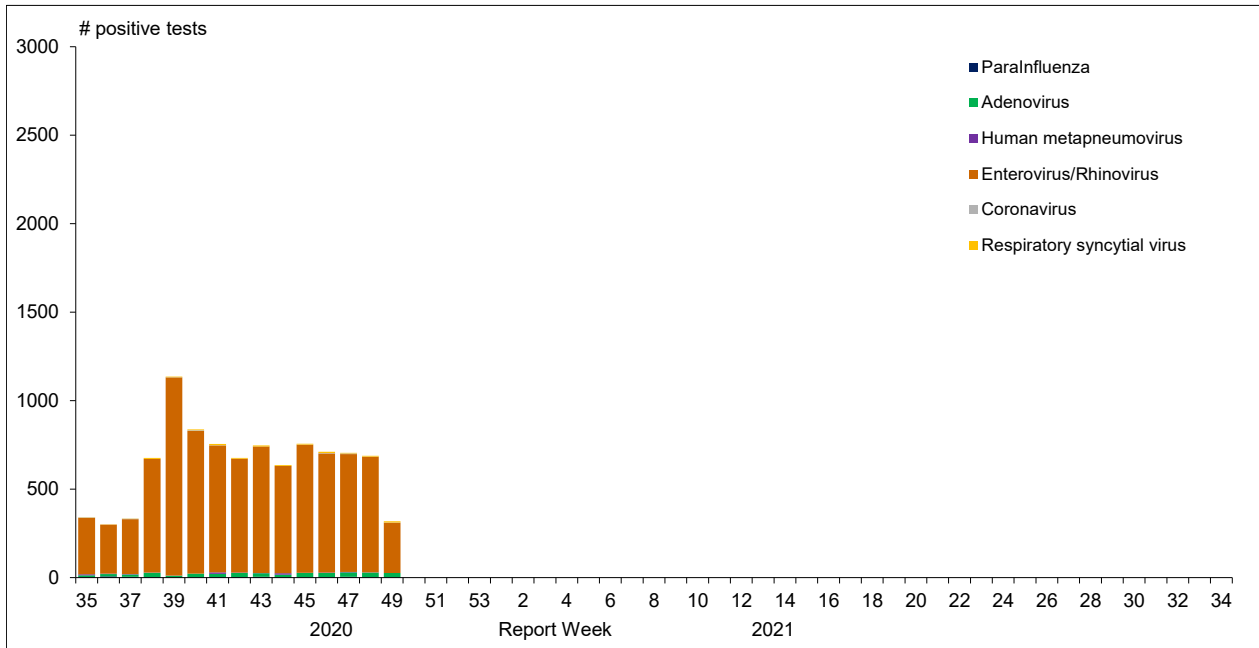


Figure 2 : Positive Influenza Tests (%) in Canada by Region by Week of Report

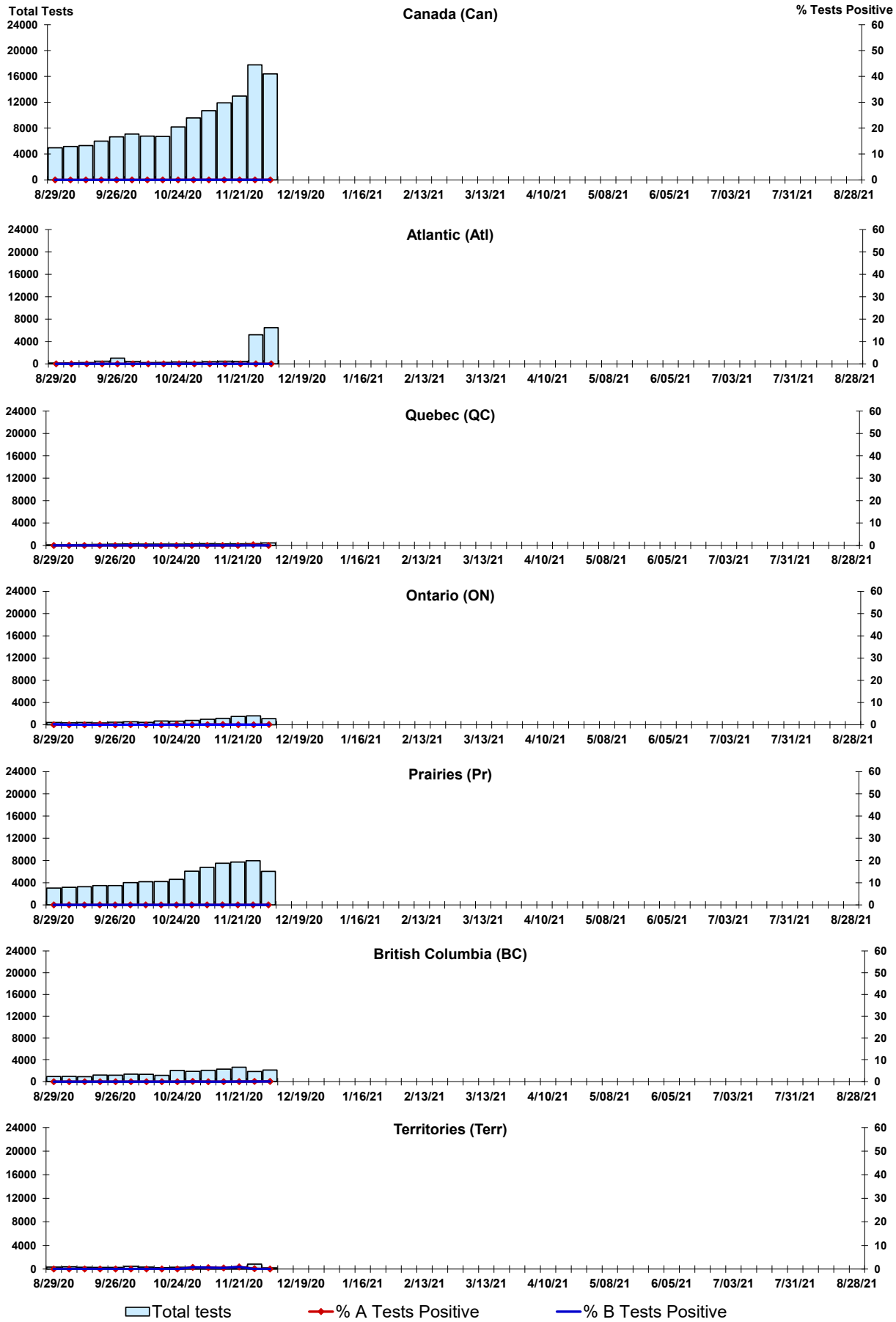


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

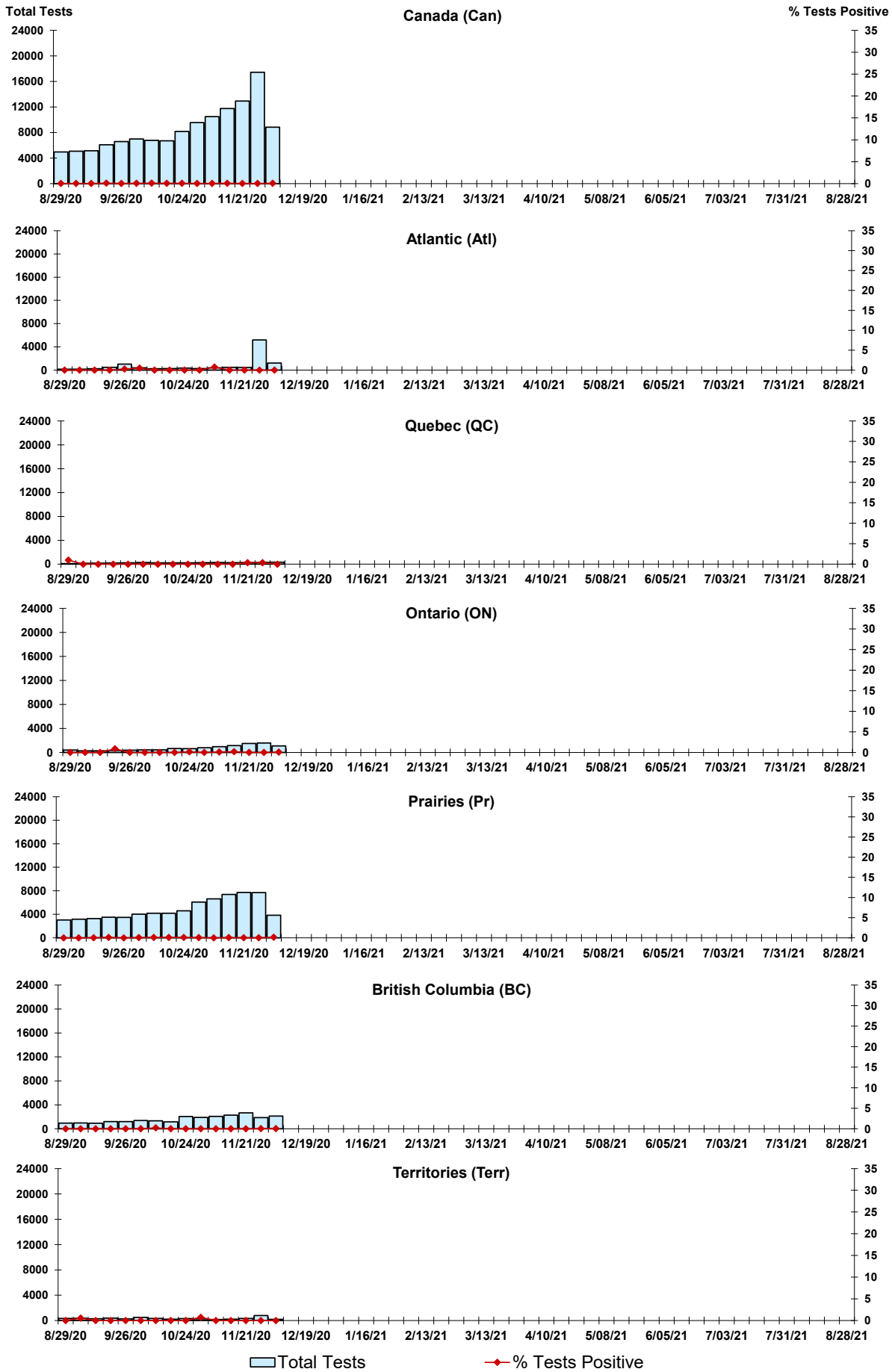


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

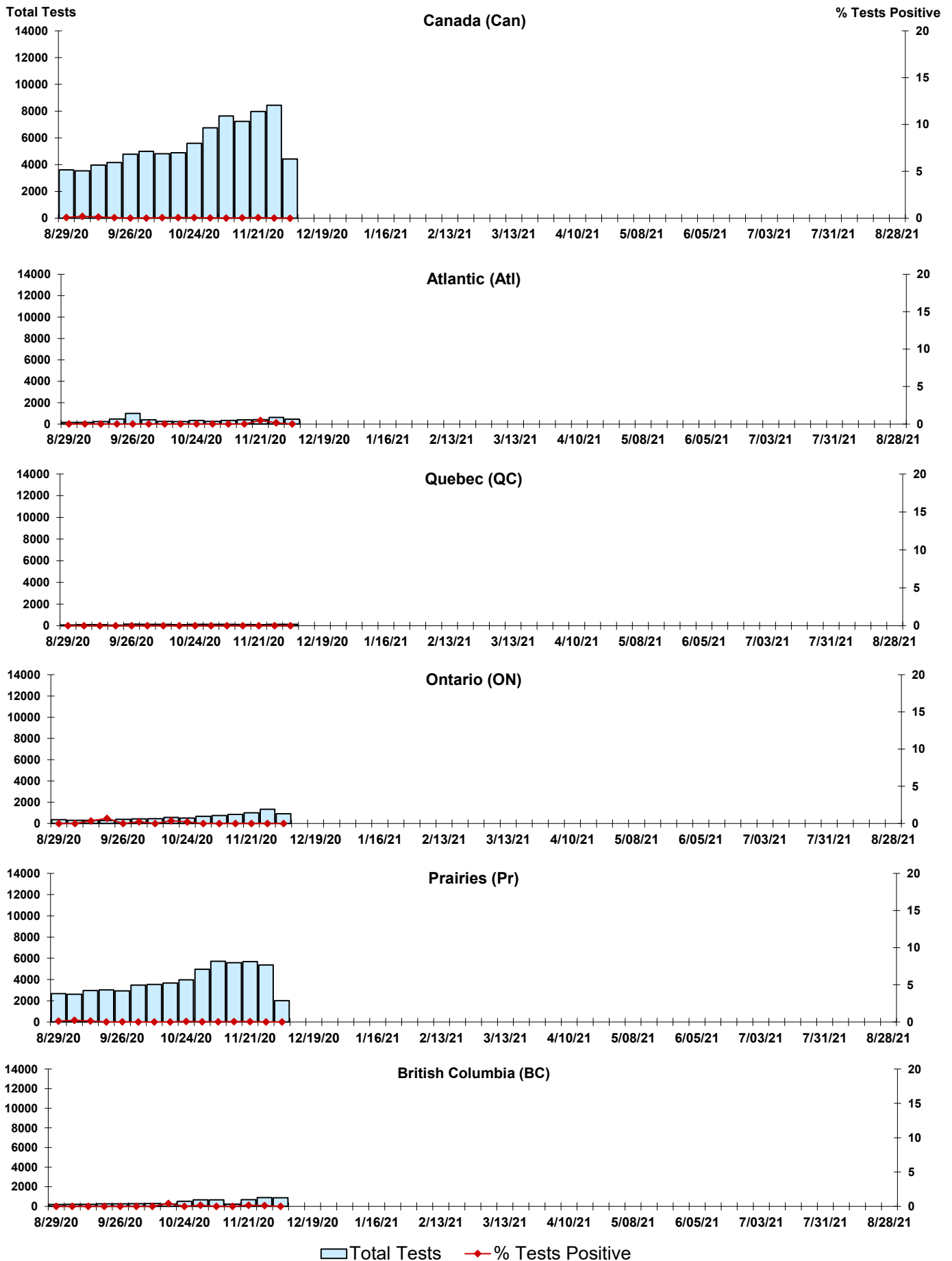


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

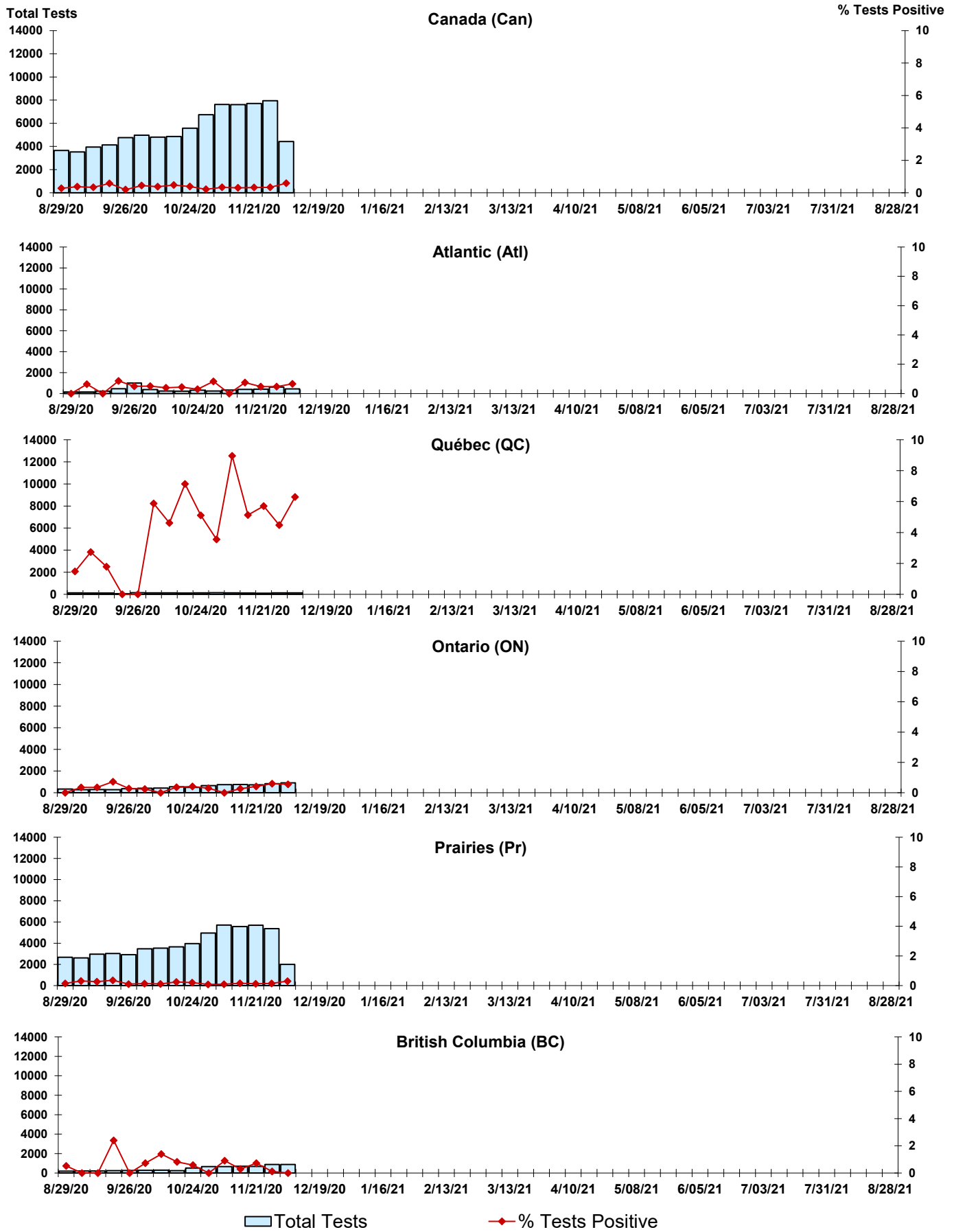
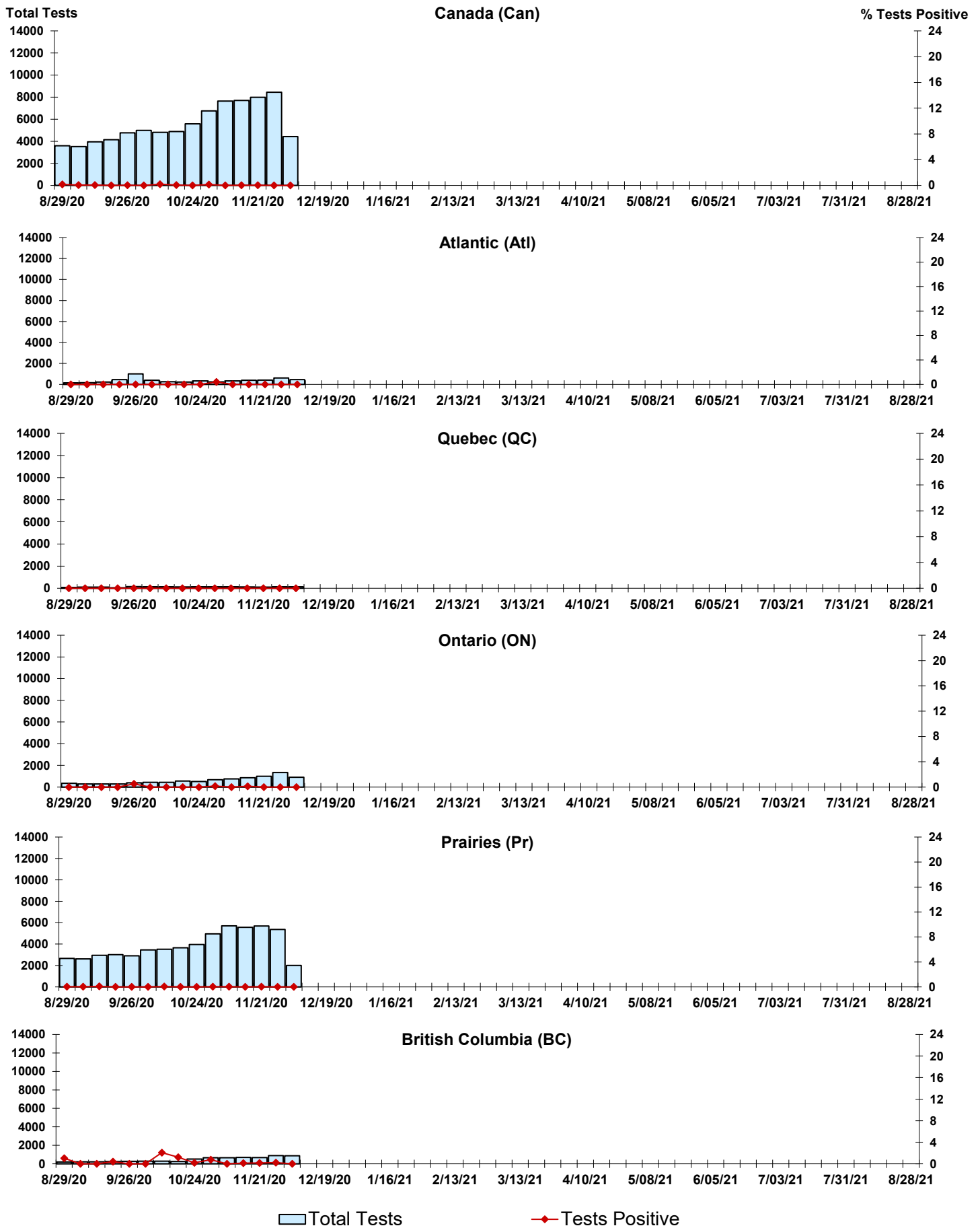


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report



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

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

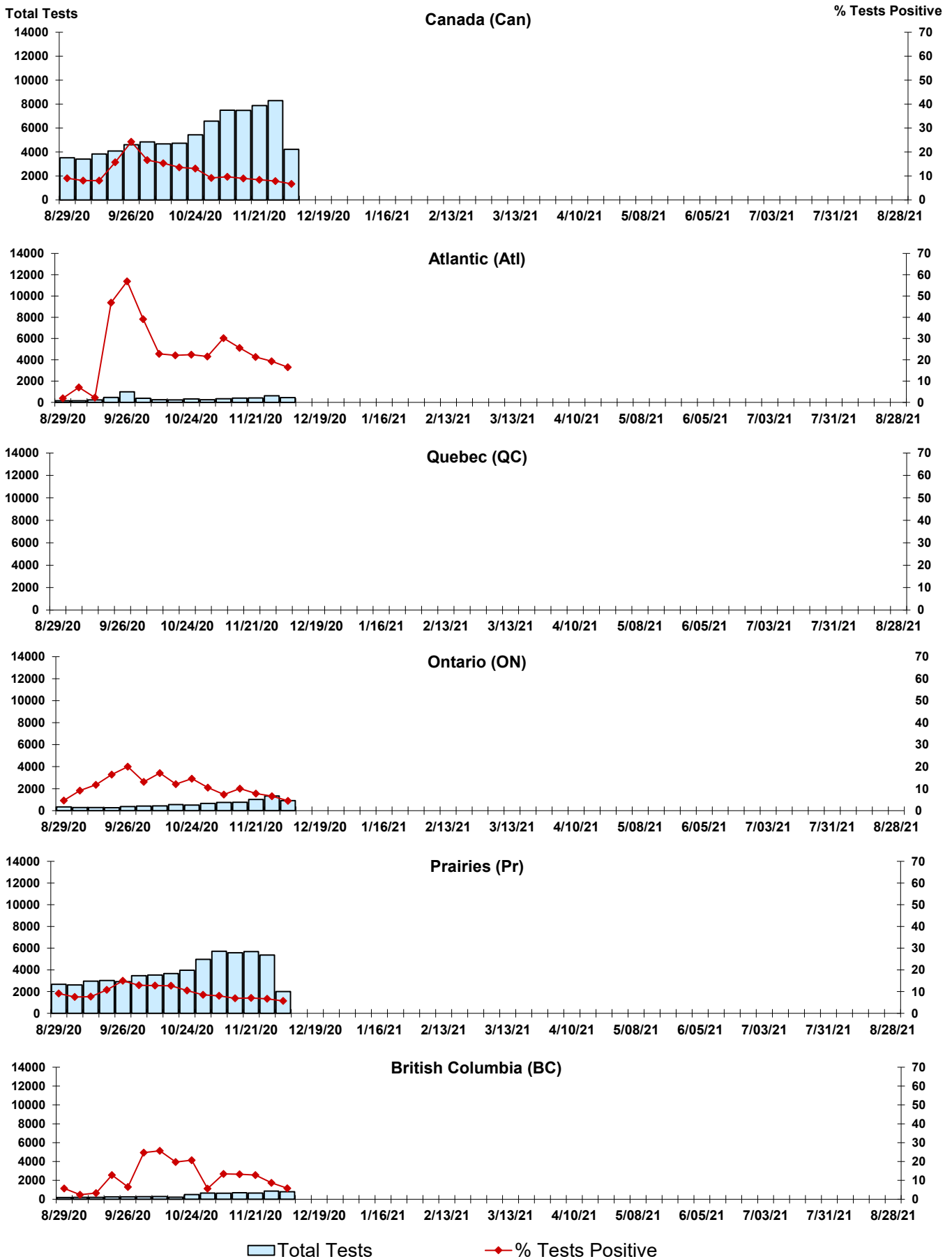
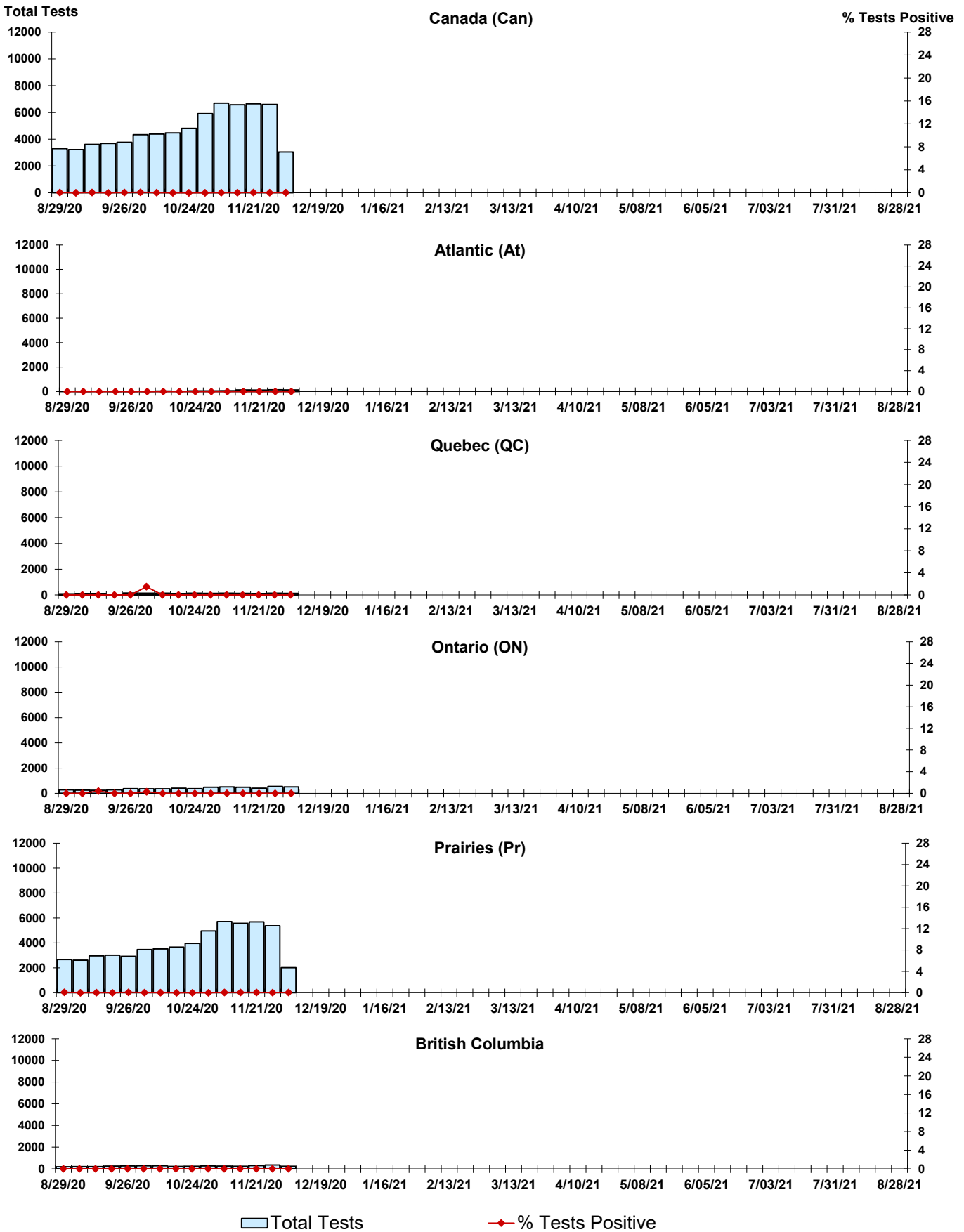


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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:

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