

RESPIRATORY VIRUS DETECTION REPORT

November 21 to November 27, 2021
(Surveillance Week 2021-47)



In this Respiratory Virus Report, the number of detections of coronavirus reflects only seasonal human coronaviruses, not the novel pandemic coronavirus (SARS-CoV-2) that causes COVID-19. For information on COVID-19, see the [Coronavirus disease \(COVID-19\): Outbreak update](#).

Overall Summary

In week 47 (November 21 to November 27, 2021), almost all respiratory viruses are within expected levels for this time of year.

- Respiratory syncytial virus (1,223 detections; 8.5% positive), enterovirus/rhinovirus (721 detections; 18.1% positive), and human parainfluenza virus (301 detections; 6.7% positive) are the most common seasonal respiratory viruses detected in Canada.
 - Activity of respiratory syncytial virus is now within expected levels. Activity has decreased in Quebec in recent weeks, while activity has been either stable or slowly increasing in other parts of Canada.
 - Activity of enterovirus/rhinovirus is within expected levels for this time of year.
 - Activity of human parainfluenza virus has decreased and is now within expected levels.
- Detections of other respiratory viruses are low.
- The number of tests performed for all viruses are above expected levels.
- 32/34 sentinel laboratories reported surveillance data.

Abbreviations

Flu: Influenza

Flu A(H1N1)pdm09: Influenza A(H1N1)pdm09

Flu A(H3): Influenza A(H3N2)

Flu A (UnS): Influenza A(Unsubtyped)

RSV: Respiratory syncytial virus

HPIV: Human parainfluenza virus

HMPV: Human metapneumovirus

ADV: Adenovirus

EV/RV: Enterovirus/Rhinovirus

HCoV: Human coronavirus

Atl: Atlantic Canada

BC: British Columbia

Can: Canada

EORLA: Eastern Ontario Regional Laboratory Association

HSC: Health Sciences Centre

N.C.: Data not collected

N.R.: Data not reported for current week

ON: Ontario

PR: Prairies

P.H.O.L.: Public Health Ontario Laboratory

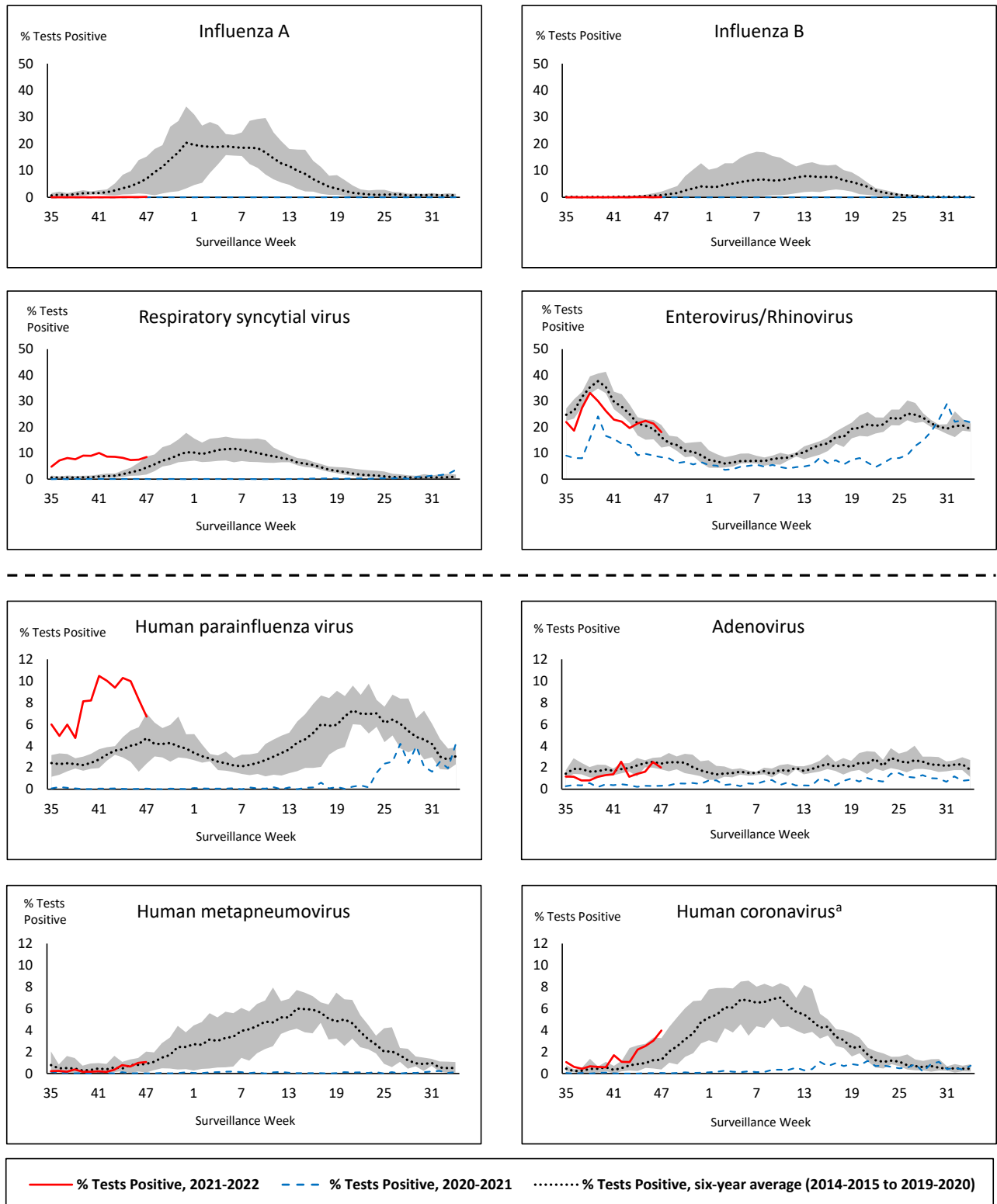
QC: Quebec

Terr: Territories of Canada

UHN: University Health Network



Figure 1: Positive respiratory virus tests (%) reported by participating laboratories in Canada by surveillance week compared to average and range from 2014-2015 to 2019-2020 season



Shaded area represents the maximum and minimum % of respiratory virus tests positive reported by week from seasons 2014-2015 to 2019-2020

Note: Data from week 11 of the 2019-2020 season onwards are excluded from the historical comparison due to the COVID-19 pandemic

Note: % Tests Positive scale changes across the dashed line

^a Human coronavirus excludes human coronaviruses SARS-CoV, MERS-CoV and SARS-CoV-2; Includes seasonal human coronaviruses HCoV-229E, HCoV-OC43, HCoV-NL63, HCoV-HKU1.

Table 1: Respiratory virus detections for the week ending November 27, 2021 (surveillance week 2021-47)

Reporting Laboratory	Flu Tested	A(H1)pdm09 Positive	A(H3) Positive	A(UnS) Positive	Total Flu A Positive	Total Flu B Positive	RSV Tested	RSV Positive	HPIV Tested	HPIV 1 Positive	HPIV 2 Positive	HPIV 3 Positive	HPIV 4 Positive	Other HPIV Positive	ADV Tested	ADV Positive	HMPV Tested	HMPV Positive	EV/RV Tested	EV/RV Positive	HCoV Tested	HCoV Positive
Newfoundland	270	0	0	0	0	0	270	2	270	0	0	2	0	14	271	0	270	2	270	37	N.C.	N.C.
Prince Edward Island	79	0	0	0	0	0	79	5	79	0	0	2	0	0	79	3	79	0	79	20	79	10
Nova Scotia	859	0	0	1	1	1	859	19	99	0	0	6	0	0	99	0	99	0	99	6	99	1
New Brunswick	834	0	0	0	0	0	399	17	127	0	0	1	0	0	127	1	127	1	127	5	127	0
Atlantic	2042	0	0	1	1	1	1607	43	575	0	0	11	0	14	576	4	575	3	575	68	305	11
Région Nord-Est	712	0	0	0	0	0	288	70	97	0	0	0	1	0	2	0	2	0	N.C.	N.C.	97	1
Québec-Chaudière-Appalaches	344	0	0	0	0	1	345	45	48	0	0	0	0	0	48	4	48	2	N.C.	N.C.	48	2
Centre-du-Québec	349	0	0	1	1	0	321	47	21	0	0	0	0	0	21	2	21	0	N.C.	N.C.	21	0
Montréal-Laval	870	0	0	2	2	0	869	43	309	0	0	2	1	0	309	8	309	31	N.C.	N.C.	309	4
Ouest du Québec	224	0	0	0	0	0	224	28	0	0	0	0	0	0	0	0	0	0	N.C.	N.C.	0	0
Montérégie	85	0	0	0	0	0	85	5	0	0	0	0	0	0	0	0	0	0	N.C.	N.C.	0	0
Province of Québec	2584	0	0	3	3	1	2132	238	475	0	0	2	2	0	380	14	380	33	N.C.	N.C.	475	7
P.H.O.L. - Ottawa	384	0	0	0	0	0	384	88	384	0	0	0	0	43	384	28	384	4	384	131	384	16
EORLA	281	0	0	0	0	0	281	61	28	0	0	0	0	0	28	0	28	0	28	7	0	0
P.H.O.L. - Kingston	79	0	0	0	0	0	79	11	79	0	0	0	0	4	79	3	79	0	79	19	79	8
UHN / Mount Sinai Hospital	488	0	0	1	1	0	488	5	10	0	0	0	0	0	10	0	10	0	10	0	10	0
P.H.O.L. - Toronto	434	0	2	0	2	0	431	22	431	0	0	0	0	23	431	9	431	2	431	55	431	15
Sick Kids Hospital - Toronto	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
Sunnybrook & Women's College HSC	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
P.H.O.L. - Sault Ste. Marie	26	0	1	0	1	0	24	0	24	0	0	0	0	0	24	0	24	0	24	7	24	0
P.H.O.L. - Timmins	17	0	0	0	0	0	17	0	17	0	0	0	0	1	17	0	17	0	17	0	17	0
St. Joseph's - London	310	0	0	0	0	0	310	22	32	0	0	0	0	1	32	1	32	0	15	2	15	0
P.H.O.L. - London	137	0	0	0	0	0	137	32	137	0	0	0	0	8	137	1	137	0	137	33	137	3
P.H.O.L. - Orillia	35	0	0	0	0	0	35	3	35	0	0	0	0	2	35	3	35	1	35	9	35	0
P.H.O.L. - Thunder Bay	11	0	0	0	0	0	11	0	11	0	0	0	0	6	11	0	11	0	11	2	11	0
P.H.O.L. - Sudbury	5	0	0	0	0	0	5	1	5	0	0	0	0	0	5	0	5	0	5	0	5	2
P.H.O.L. - Hamilton	49	0	3	0	3	0	46	2	46	0	0	0	0	2	46	0	46	0	46	14	46	2
P.H.O.L. - Peterborough	52	0	0	0	0	0	52	13	52	0	0	0	0	0	52	0	52	0	52	13	52	2
St. Joseph's - Hamilton	606	0	2	0	2	0	606	136	606	0	0	23	0	0	606	8	606	2	606	109	0	0
Province of Ontario	2914	0	8	1	9	0	2906	396	1897	0	0	23	0	90	1897	53	1897	9	1880	401	1246	48
Province of Manitoba	1829	0	0	0	0	0	1829	17	34	0	0	3	0	0	34	0	81	0	34	6	34	0
Province of Saskatchewan	746	0	0	0	0	0	746	1	145	0	0	14	2	0	145	1	145	0	145	12	145	2
Province of Alberta	2093	0	0	0	0	0	820	105	820	0	1	48	6	0	820	7	820	0	820	144	820	67
Prairies	4668	0	0	0	0	0	3395	123	999	0	1	65	8	0	999	8	1046	0	999	162	999	69
British Columbia	4195	0	0	0	14	10	4155	423	540	0	0	66	5	14	540	9	540	2	525	89	525	6
Yukon	89	0	0	0	0	0	89	0	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
Northwest Territories	14	0	0	0	0	0	12	0	2	0	0	0	0	0	2	0	2	0	12	1	2	0
Nunavut	145	0	0	0	0	0	145	0	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
Territories	248	0	0	0	0	0	246	0	2	0	0	0	0	0	2	0	2	0	12	1	2	0
CANADA	16651	0	8	5	27	12	14441	1223	4488	0	1	167	15	118	4394	88	4440	47	3991	721	3552	141

The data in the RVDSS report represent surveillance data available at the time of writing. Data missing from the current week are denoted by N.R. Data not collected by reporting lab denoted by N.C.

Note: 0 reported influenza detections this week were known to be associated with recent live attenuated influenza vaccine (LAIV) receipt and were excluded from the data as they do not represent community transmission of seasonal influenza viruses.

The reporting laboratory previously listed as CHEO - Ottawa is now listed as EORLA to better reflect data submitted by this provider.

Specimens from Yukon (YT) and Northwest Territories (NT) are sent to reference laboratories in other provinces and reported results reflect specimens identified as originating from YT or NT.

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, 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 British Columbia, only data from subtyped influenza A specimens are included in the weekly number of influenza detections. 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 2: Number of positive respiratory virus tests reported by participating laboratories in Canada by surveillance week

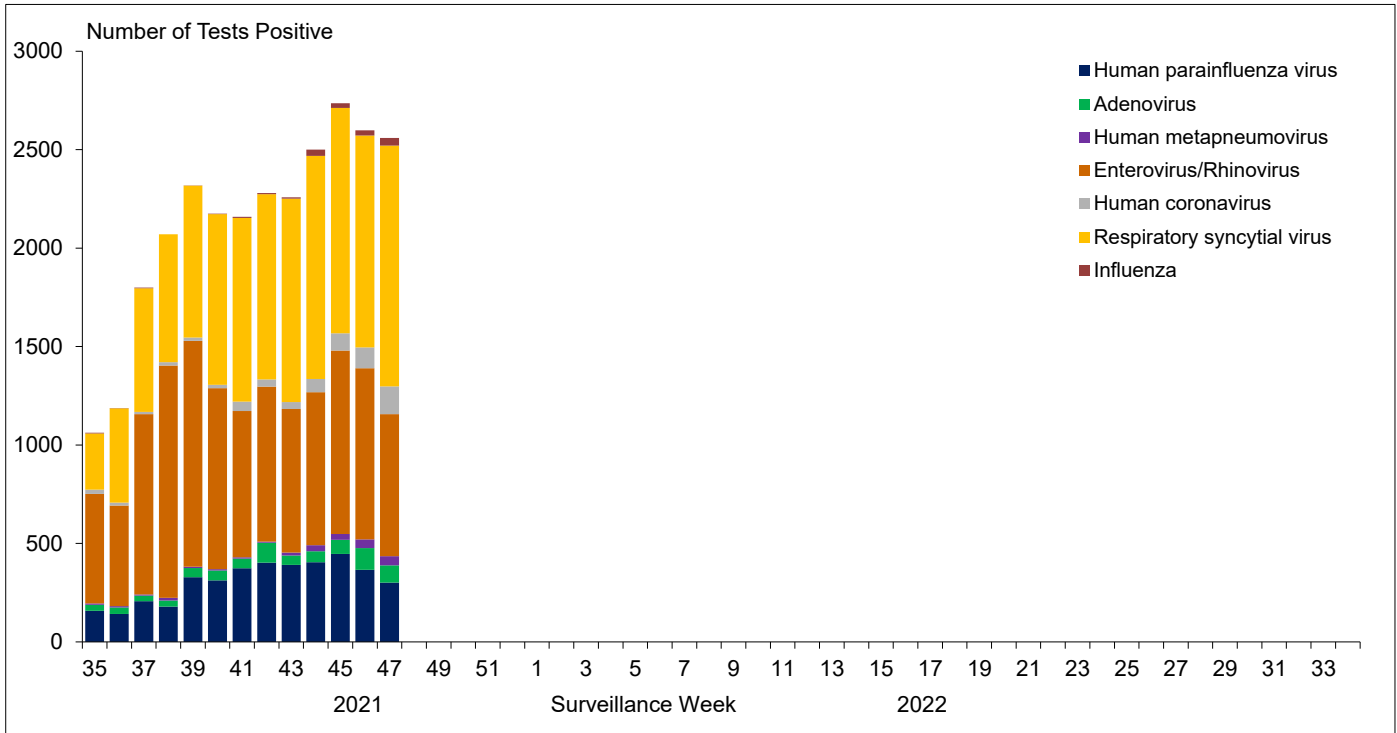


Figure 3: Positive Influenza (Flu) tests (%) in Canada by region by surveillance week

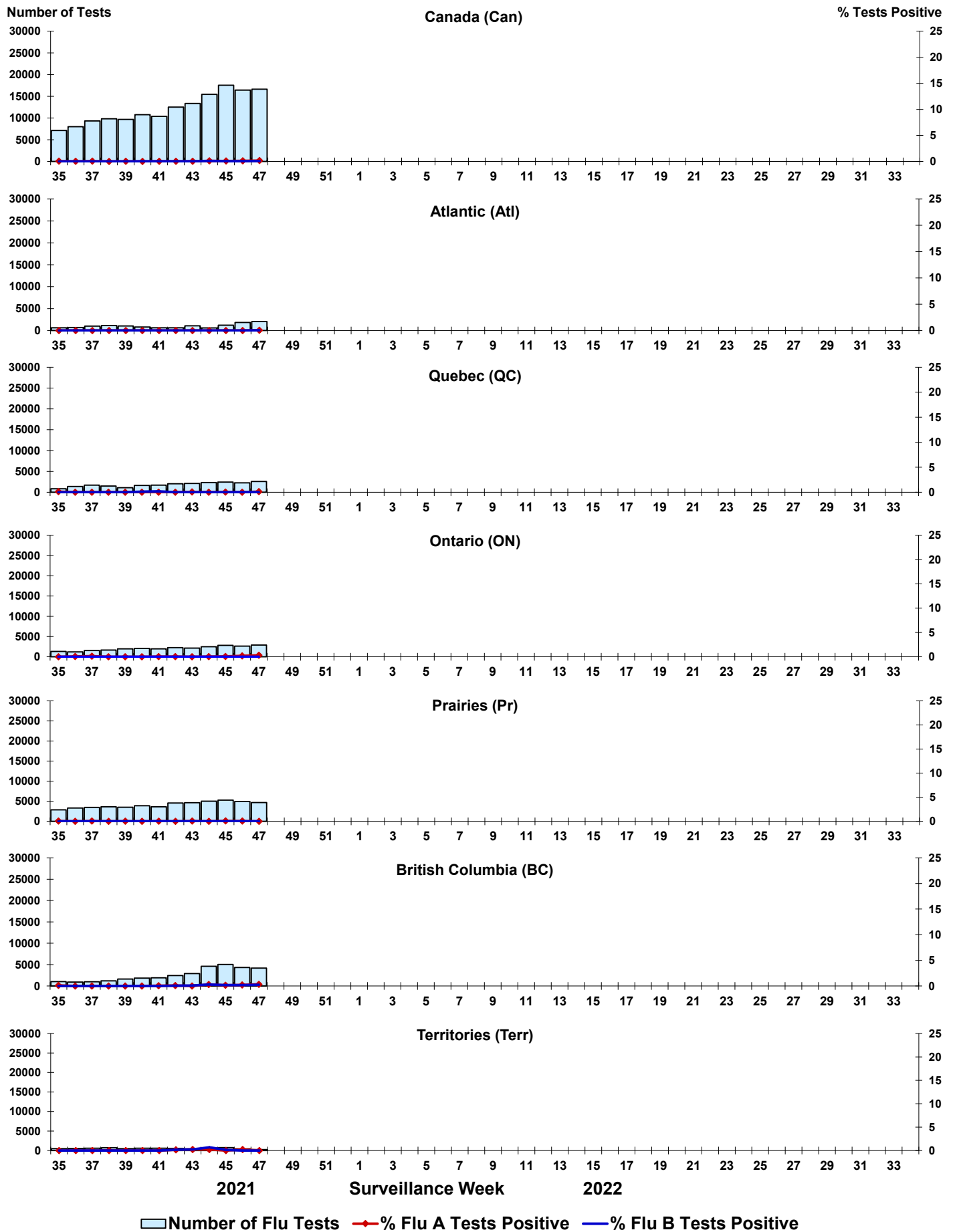
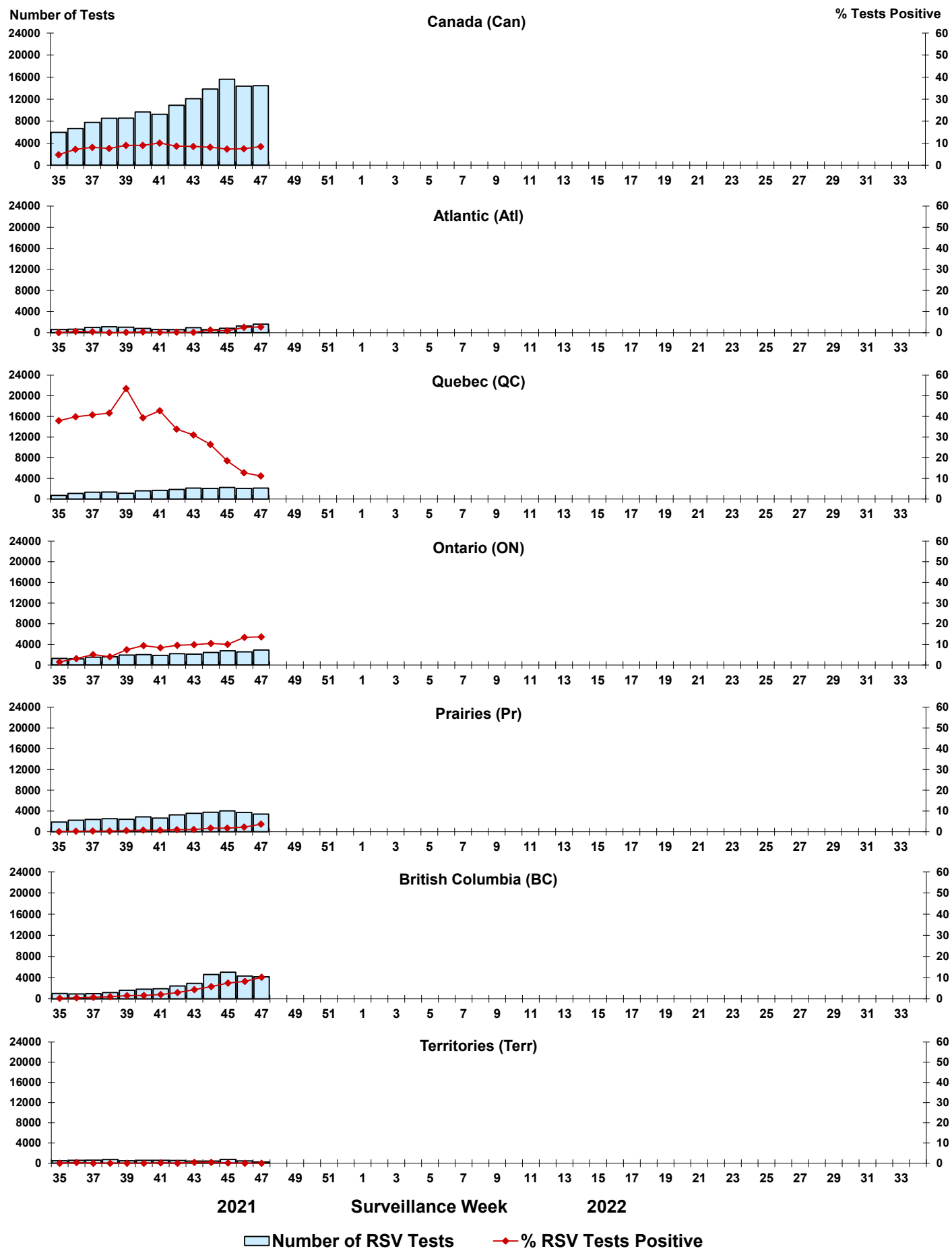


Figure 4: Positive Respiratory syncytial virus (RSV) tests (%) in Canada by region by surveillance week



Legend: █ Number of RSV Tests ◆ % RSV Tests Positive

Figure 5: Positive Human parainfluenza virus (HPIV) tests (%) in Canada by region by surveillance week

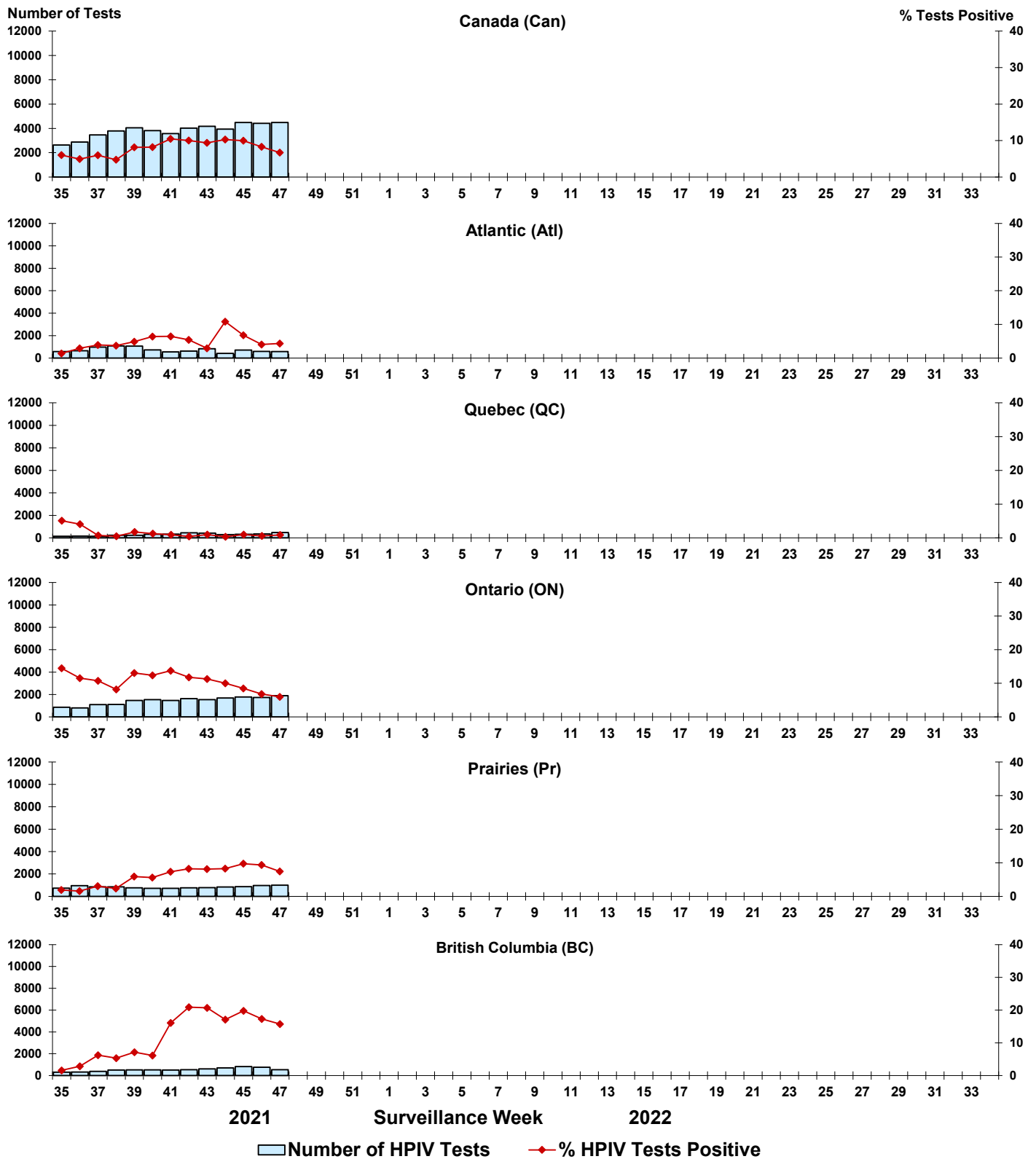


Figure 6: Positive Adenovirus (ADV) tests (%) in Canada by region by surveillance week

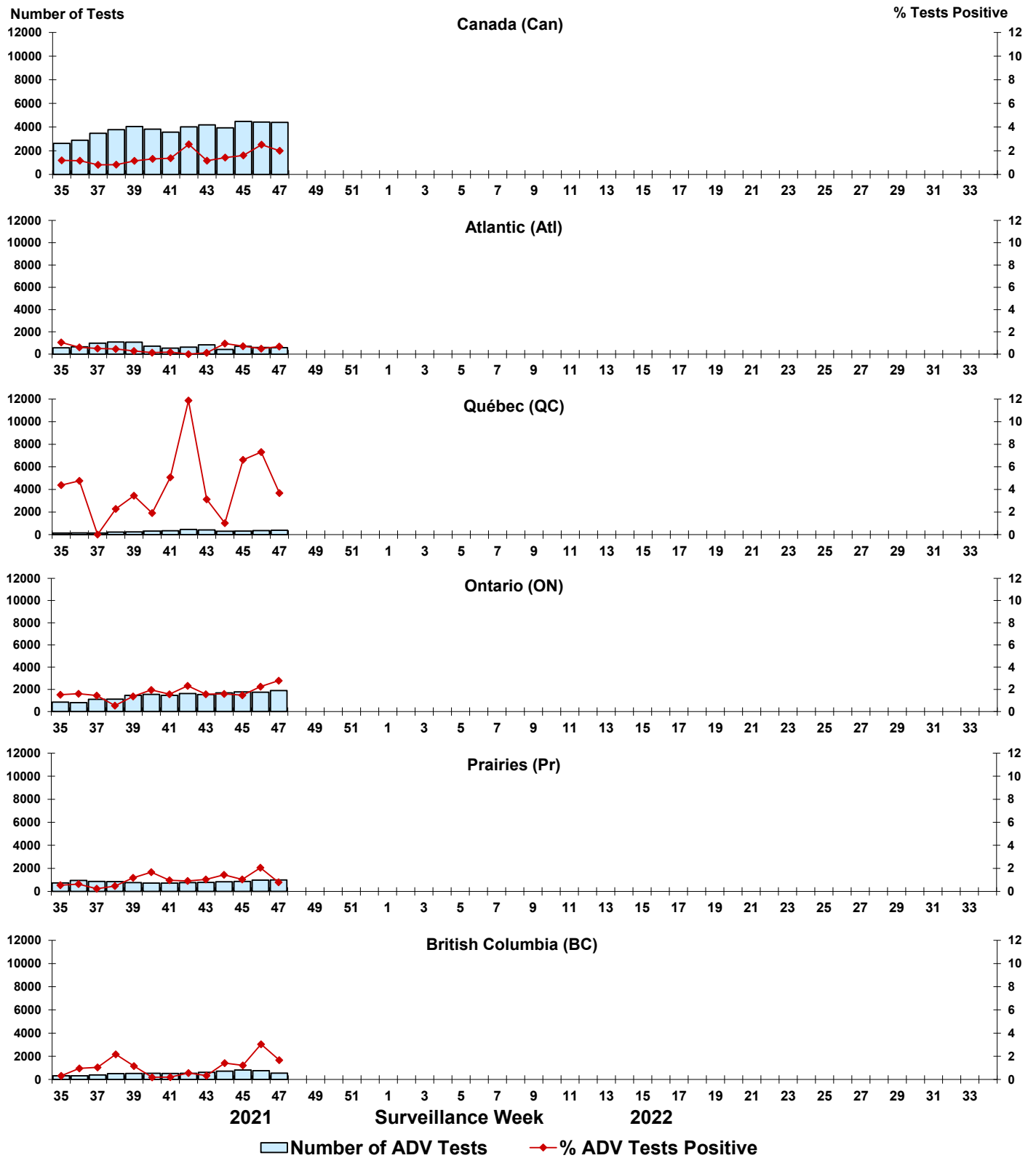


Figure 7: Positive Human metapneumovirus (HMPV) tests (%) in Canada by region by surveillance week

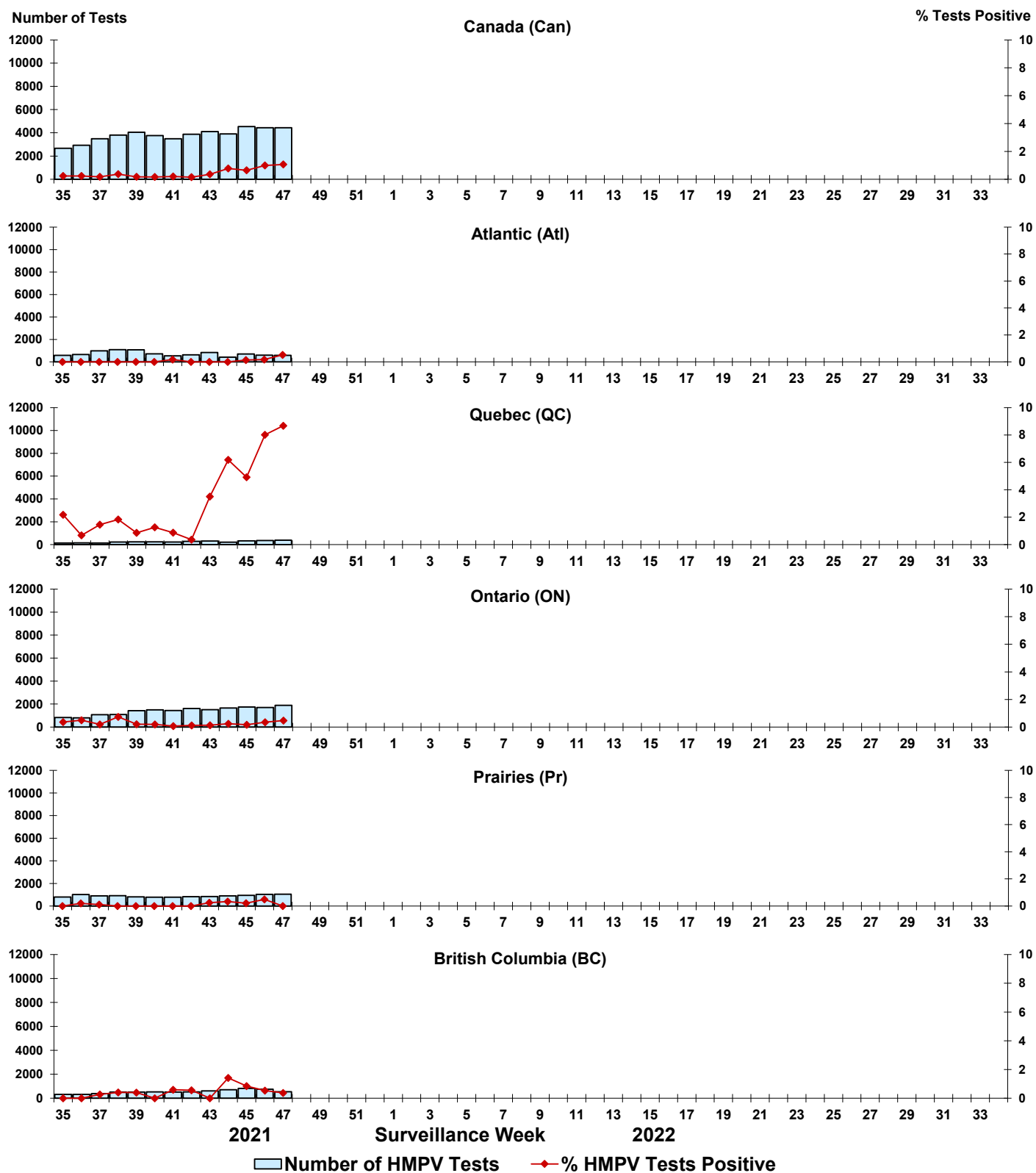


Figure 8: Positive Enterovirus/Rhinovirus (EV/RV) tests (%) in Canada by region by surveillance week

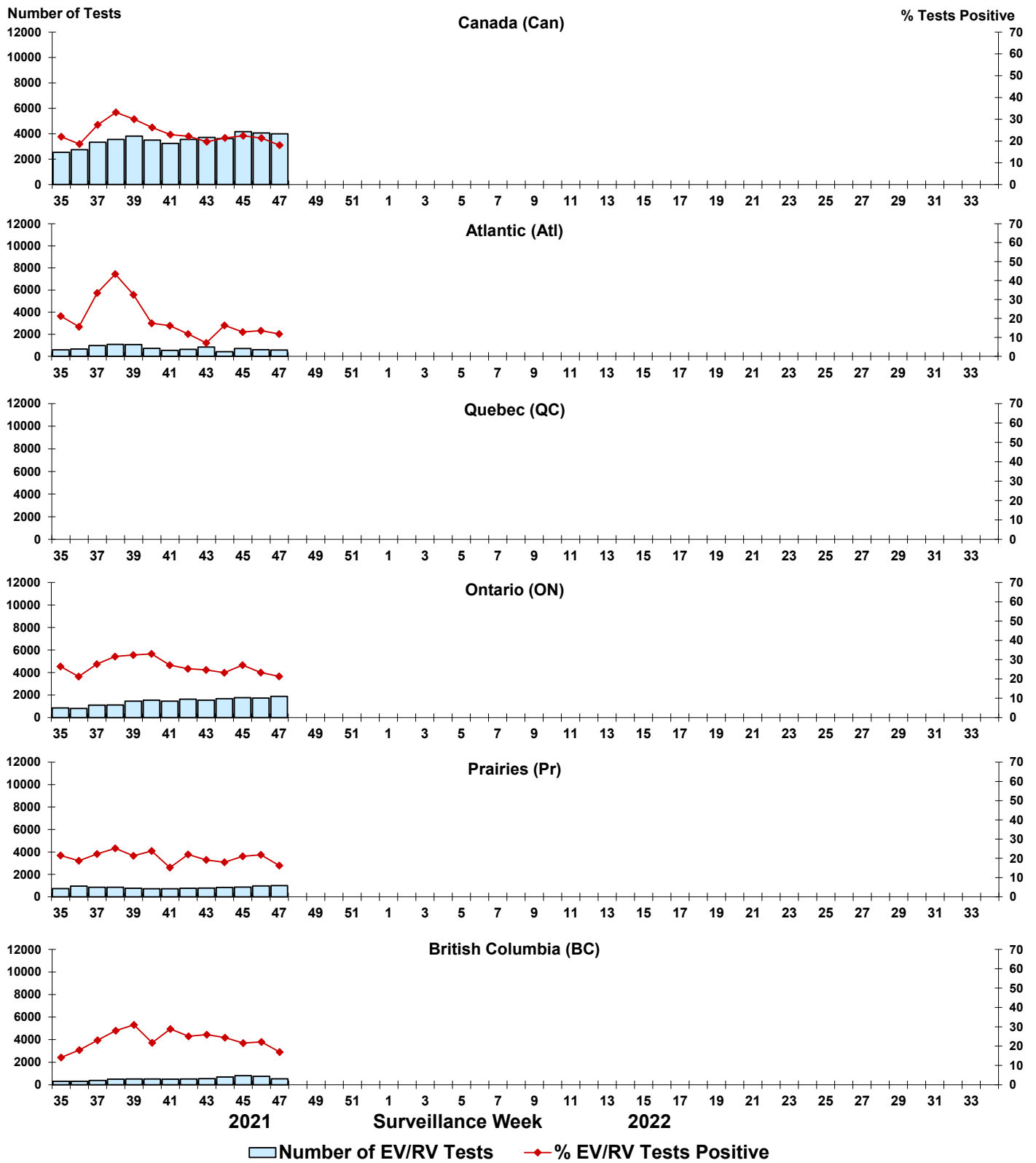


Figure 9: Positive Human coronavirus (HCoV) tests (%) in Canada by region by surveillance week

