

RESPIRATORY VIRUS DETECTION REPORT

February 6 to February 12, 2022
(Surveillance Week 2022-06)



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

Detections of seasonal respiratory viruses have dropped sharply since the end of December 2021. In recent weeks, activity of all seasonal respiratory viruses has stabilized and is within or below expected levels for this time of year.

- Respiratory syncytial virus (233 detections; 2.0% positive) is the most common seasonal respiratory viruses detected in Canada, but activity is below expected levels for this time of year.
- Detections of other respiratory viruses are low.
- The number of tests performed for each virus is within expected levels.
 - Due to the current COVID-19 pandemic, changes in laboratory testing practices for the past week may affect the comparability of data to previous weeks.
- 31/34 sentinel laboratories reported surveillance data.

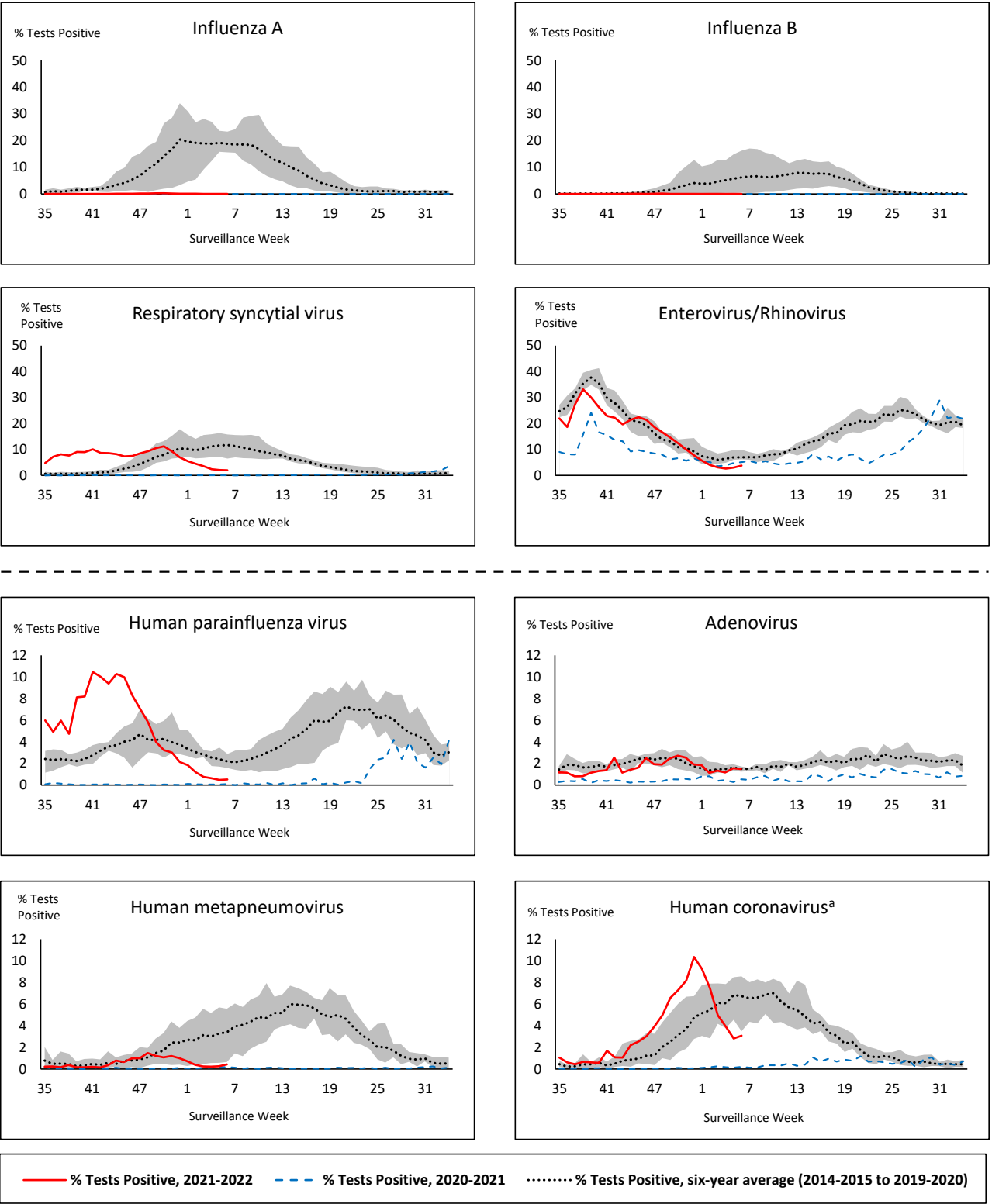
Abbreviations

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 February 12, 2022 (surveillance week 2022-06)

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	104	0	0	0	0	0	104	1	104	0	0	0	0	0	104	0	104	3	104	0	N.C.	N.C.
Prince Edward Island	33	0	0	0	0	0	33	10	33	0	0	0	0	0	33	2	33	0	33	2	33	0
Nova Scotia	564	0	0	0	0	0	564	4	25	0	0	0	1	0	25	1	25	0	25	0	25	0
New Brunswick	368	0	0	0	0	0	297	2	26	0	0	0	0	0	26	0	26	1	26	0	26	0
Atlantic	1069	0	0	0	0	0	998	17	188	0	0	0	1	0	188	3	188	4	188	2	84	0
Région Nord-Est	369	0	0	0	0	0	140	7	1	0	0	0	0	0	1	1	1	0	N.C.	N.C.	1	0
Québec-Chaudière-Appalaches	89	0	0	0	0	0	95	2	25	0	0	0	0	0	50	4	50	1	N.C.	N.C.	50	0
Centre-du-Québec	97	0	0	0	0	0	87	0	12	0	0	0	0	0	12	0	12	1	N.C.	N.C.	12	0
Montréal-Laval	313	0	0	1	1	0	310	2	173	0	0	0	0	0	173	7	173	4	N.C.	N.C.	173	3
Ouest du Québec	76	0	0	0	0	0	76	0	3	0	0	0	0	0	3	0	3	0	N.C.	N.C.	3	0
Montréal	41	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	N.C.	N.C.	0	0
Province of Québec	985	0	0	1	1	0	749	11	214	0	0	0	0	0	239	12	239	6	N.C.	N.C.	239	3
P.H.O.L. - Ottawa	17	0	0	0	0	0	17	0	17	0	0	0	0	0	17	0	17	0	17	0	17	3
EORLA	145	0	0	0	0	0	145	2	18	0	0	0	0	0	18	0	18	0	18	2	18	0
P.H.O.L. - Kingston	18	0	0	0	0	0	18	0	18	0	0	0	0	0	18	0	18	0	18	3	18	0
UHN / Mount Sinai Hospital	386	0	0	0	0	0	386	0	19	0	0	0	0	0	19	0	19	0	19	1	19	0
P.H.O.L. - Toronto	164	0	0	0	0	0	163	2	163	0	0	0	0	2	163	2	163	0	163	6	163	1
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	6	0	0	0	0	0	6	0	6	0	0	0	0	0	6	0	6	0	6	0	6	1
P.H.O.L. - Timmins	13	0	0	0	0	0	13	0	13	0	0	0	0	0	13	0	13	0	13	0	13	1
St. Joseph's - London	623	0	0	0	0	0	623	9	623	0	0	0	0	0	623	8	623	0	623	8	6	0
P.H.O.L. - London	67	0	0	0	0	0	67	0	67	0	0	0	0	0	67	2	67	1	67	1	67	6
P.H.O.L. - Orillia	3	0	0	0	0	0	3	1	3	0	0	0	0	0	3	0	3	0	3	0	3	0
P.H.O.L. - Thunder Bay	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0
P.H.O.L. - Sudbury	9	0	0	0	0	0	9	0	9	0	0	0	0	0	9	0	9	0	9	0	9	0
P.H.O.L. - Hamilton	32	0	0	0	0	0	32	0	32	0	0	0	0	0	32	0	32	0	32	0	32	2
P.H.O.L. - Peterborough	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	4	1	4	0
St. Joseph's - Hamilton	493	0	0	0	0	0	493	4	493	0	0	1	0	0	493	5	493	0	493	15	0	0
Province of Ontario	1981	0	0	0	0	0	1980	18	1486	0	0	1	0	2	1486	17	1486	1	1486	37	376	14
Province of Manitoba	842	0	0	0	0	0	842	30	108	0	0	1	0	0	108	0	118	0	108	1	118	0
Province of Saskatchewan	583	0	0	1	1	0	583	27	117	0	0	1	1	0	117	3	117	0	117	3	117	9
Province of Alberta	1528	0	0	0	0	0	711	56	711	0	0	1	1	0	711	3	711	2	711	39	711	27
Prairies	2953	0	0	1	1	0	2136	113	936	0	0	3	2	0	936	6	946	2	936	43	946	36
British Columbia	5242	0	0	0	1	0	5109	64	593	0	0	1	4	4	593	13	593	2	587	40	587	16
Yukon	131	0	0	0	0	0	131	10	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	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.
Nunavut	731	0	0	0	0	0	731	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	867	0	0	0	0	0	864	10	2	0	0	0	0	0	2	0	2	0	2	0	2	0
CANADA	13097	0	0	2	3	0	11836	233	3419	0	0	5	7	6	3444	51	3454	15	3199	122	2234	69

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.

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) are sent to reference laboratories in British Columbia and reported results reflect specimens identified as originating from YT.

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.

Table 2: Cumulative respiratory virus detections from August 29, 2021 to February 12, 2022 (surveillance week 2021-35 to 2022-06)

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	7345	0	0	0	0	0	7344	80	7347	1	3	116	0	154	7352	23	7341	32	7348	1728	N.C.	N.C.
Prince Edward Island	1708	0	0	0	0	0	1708	124	1663	0	0	152	0	0	1708	44	1708	4	1708	434	1708	100
Nova Scotia	11691	0	1	12	13	4	11690	294	1180	0	2	38	7	0	1194	11	1194	2	1194	93	1194	29
New Brunswick	10052	0	0	6	6	0	6355	256	2507	0	0	23	1	0	2500	7	2507	5	2507	35	2416	5
Atlantic	30796	0	1	18	19	4	27097	754	12697	1	5	329	8	154	12754	85	12750	43	12757	2290	5318	134
Région Nord-Est	13632	0	0	2	2	2	6578	1431	589	0	0	6	1	0	684	14	90	1	N.C.	N.C.	840	12
Québec-Chaudière-Appalaches	4349	0	0	5	5	4	4910	994	1212	0	3	7	5	0	1135	42	1046	50	N.C.	N.C.	957	43
Centre-du-Québec	5161	0	0	3	3	4	5297	1079	445	0	0	19	0	0	445	19	453	16	N.C.	N.C.	438	9
Montréal-Laval	15680	0	0	33	33	4	15582	2431	5024	5	2	21	5	0	5023	296	5020	312	N.C.	N.C.	5020	62
Ouest du Québec	3948	0	1	7	8	0	3905	927	50	0	0	2	0	0	43	3	39	1	N.C.	N.C.	39	1
Montréal-Laval	2435	0	0	2	2	0	2428	386	0	0	0	0	0	0	0	0	0	0	N.C.	N.C.	0	0
Province of Québec	45205	0	1	52	53	14	38700	7248	7320	5	5	55	11	0	7330	374	6648	380	N.C.	N.C.	7294	127
P.H.O.L. - Ottawa	6359	2	1	0	3	0	6359	1437	6359	0	0	0	0	727	6359	310	6358	38	6359	2205	6358	257
EORLA	4651	0	0	0	0	0	4626	594	599	0	2	19	0	0	599	11	280	3	599	113	257	15
P.H.O.L. - Kingston	1066	0	0	0	0	0	1065	112	1064	0	0	0	0	129	1064	18	1061	2	1064	279	1061	75
UHN / Mount Sinai Hospital	11373	0	0	8	8	2	11373	85	358	0	0	0	0	0	358	0	358	0	358	11	358	2
P.H.O.L. - Toronto	6425	0	13	0	13	0	6409	260	6409	0	0	0	0	263	6411	76	6408	11	6409	845	6409	199
Sick Kids Hospital - Toronto	839	0	0	0	0	0	0	0	839	0	2	68	1	0	839	12	839	1	839	233	839	10
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	216	0	1	0	1	0	214	4	214	0	0	0	0	7	214	3	214	1	214	47	214	8
P.H.O.L. - Timmins	285	0	0	0	0	0	285	12	285	0	0	0	0	17	285	1	285	0	285	29	285	15
St. Joseph's - London	9152	0	0	14	14	0	9155	732	7598	0	0	7	0	83	7598	98	7598	9	7552	390	493	2
P.H.O.L. - London	2709	0	6	0	6	0	2702	448	2702	0	0	0	0	152	2702	62	2702	9	2702	397	2702	205
P.H.O.L. - Orillia	644	0	1	0	1	0	644	101	644	0	0	0	0	41	644	22	642	6	644	160	642	46
P.H.O.L. - Thunder Bay	210	0	0	0	0	0	210	17	210	0	0	0	0	19	210	0	210	0	210	49	210	20
P.H.O.L. - Sudbury	246	0	0	0	0	0	246	10	246	0	0	0	0	8	246	1	246	2	246	29	246	5
P.H.O.L. - Hamilton	1260	0	7	0	7	0	1252	66	1252	0	0	0	0	43	1253	9	1252	6	1252	198	1252	74
P.H.O.L. - Peterborough	497	0	0	0	0	0	497	44	496	0	0	0	0	11	496	1	494	0	496	84	494	35
St. Joseph's - Hamilton	14790	0	4	7	11	1	14784	1579	14784	2	0	648	0	0	14784	159	14784	25	14784	1555	0	0
Province of Ontario	60722	2	33	29	64	3	59821	5501	44059	2	4	742	1	1500	44062	783	43731	113	44013	6624	21820	968
Manitoba	41470	1	15	8	24	0	41470	629	1329	1	4	69	0	0	1329	19	2385	6	1329	193	2191	46
Province of Saskatchewan	18945	2	7	15	24	0	18920	303	2790	0	1	189	27	0	2789	48	2789	2	2789	398	2787	180
Province of Alberta	50870	0	8	30	38	2	20092	2079	20092	0	18	650	131	0	20092	175	20092	43	20092	2693	20092	1175
Prairies	111285	3	30	53	86	2	80482	3011	24211	1	23	908	158	0	24210	242	25266	51	24210	3284	25070	1401
British Columbia	127570	3	36	3	165	83	125338	8132	14898	5	7	1041	152	143	14898	267	14894	62	14563	2565	14612	297
Yukon	4491	0	1	0	4	7	4560	275	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	548	0	0	0	0	0	506	4	62	0	0	1	0	0	62	2	62	0	505	89	62	0
Nunavut	12246	0	0	0	0	0	12235	7	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	17285	0	1	0	4	7	17301	286	78	0	0	1	0	0	78	3	78	0	521	97	75	0
CANADA	392863	8	102	155	391	113	348739	24932	103263	14	44	3076	330	1797	103332	1754	103367	649	96064	14860	74189	2927

The data in the RVDSS report represent surveillance data available at the time of writing. Data not collected by reporting lab denoted by N.C.

Note: Included in the cumulative detections this season are 11 co-infections of influenza A and B (total of 22 detections) that are suspected to be associated with recent live attenuated influenza vaccine (LAIV) receipt. Co-infections known or reported to be associated with recent LAIV are removed by the submitting laboratory or by PHAC beginning in week 44 as they do not represent community transmission of seasonal influenza viruses.

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Specimens from Yukon (YT) are sent to reference laboratories in British Columbia and reported results reflect specimens identified as originating from YT.

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. Due to these delays, the sum of weekly report totals do not add up to cumulative totals.

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

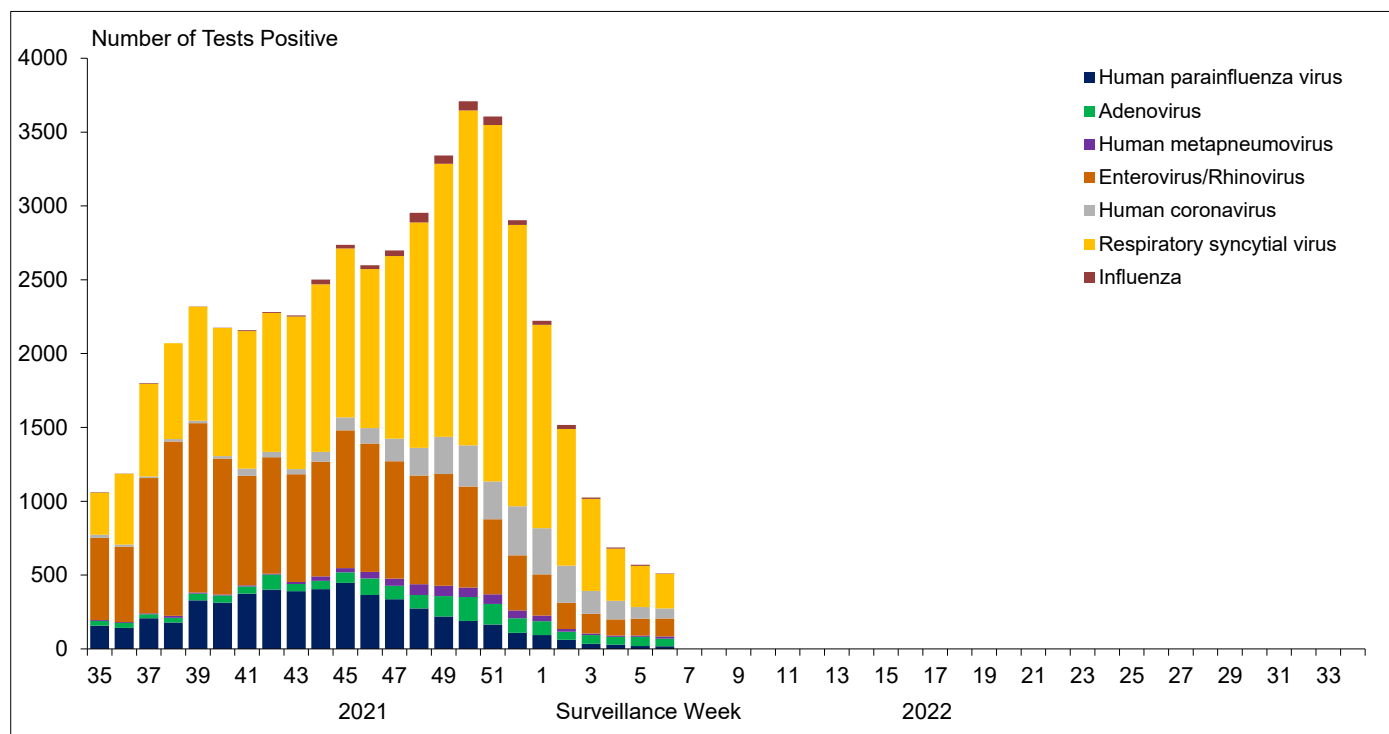


Figure 3: Positive Influenza (Flu) tests (%) in Canada by region by surveillance week

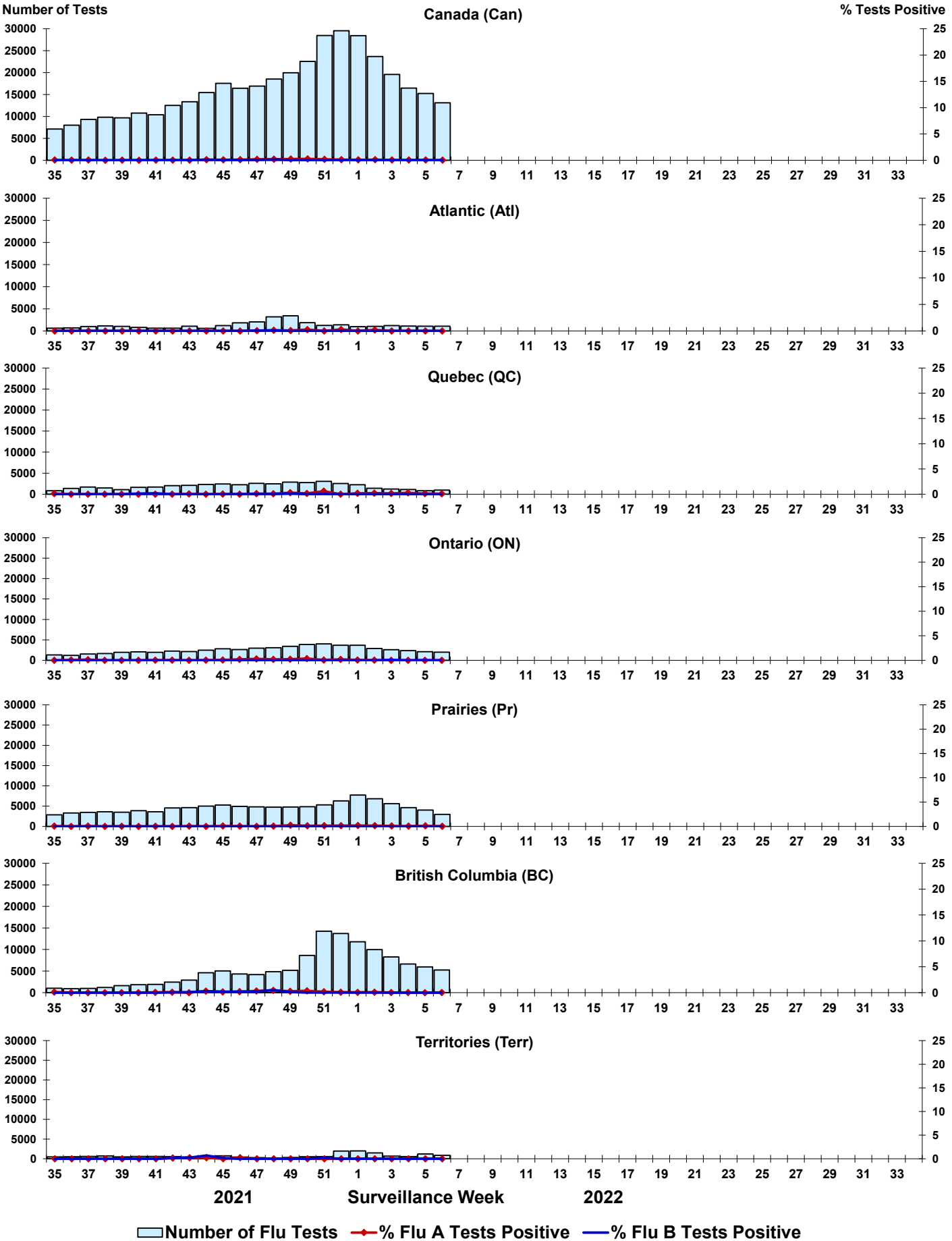


Figure 4: Positive Respiratory syncytial virus (RSV) tests (%) in Canada by region by surveillance week

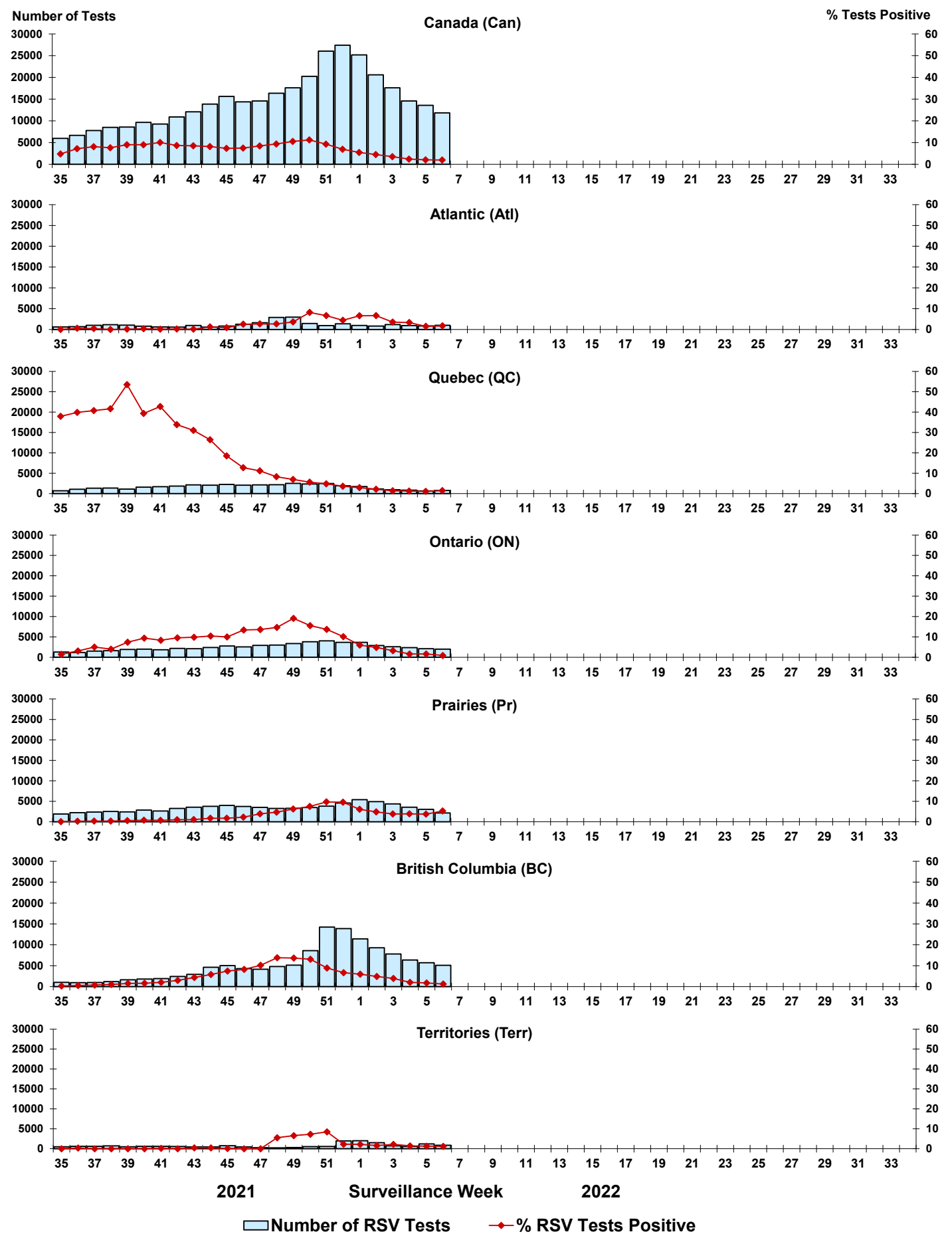


Figure 5: Positive Human parainfluenza virus (HPIV) tests (%) in Canada by region by surveillance week

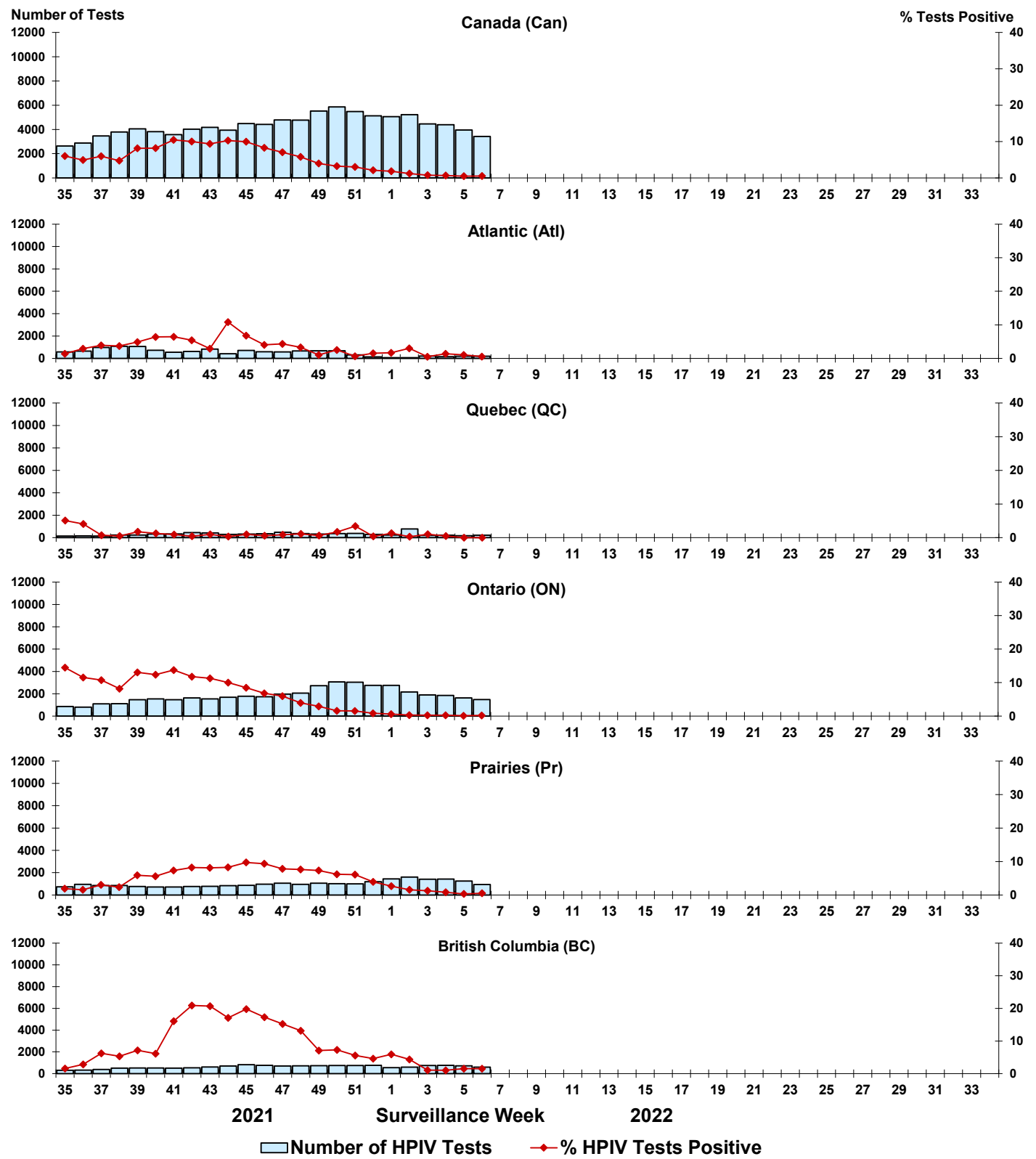


Figure 6: Positive Adenovirus (ADV) tests (%) in Canada by region by surveillance week

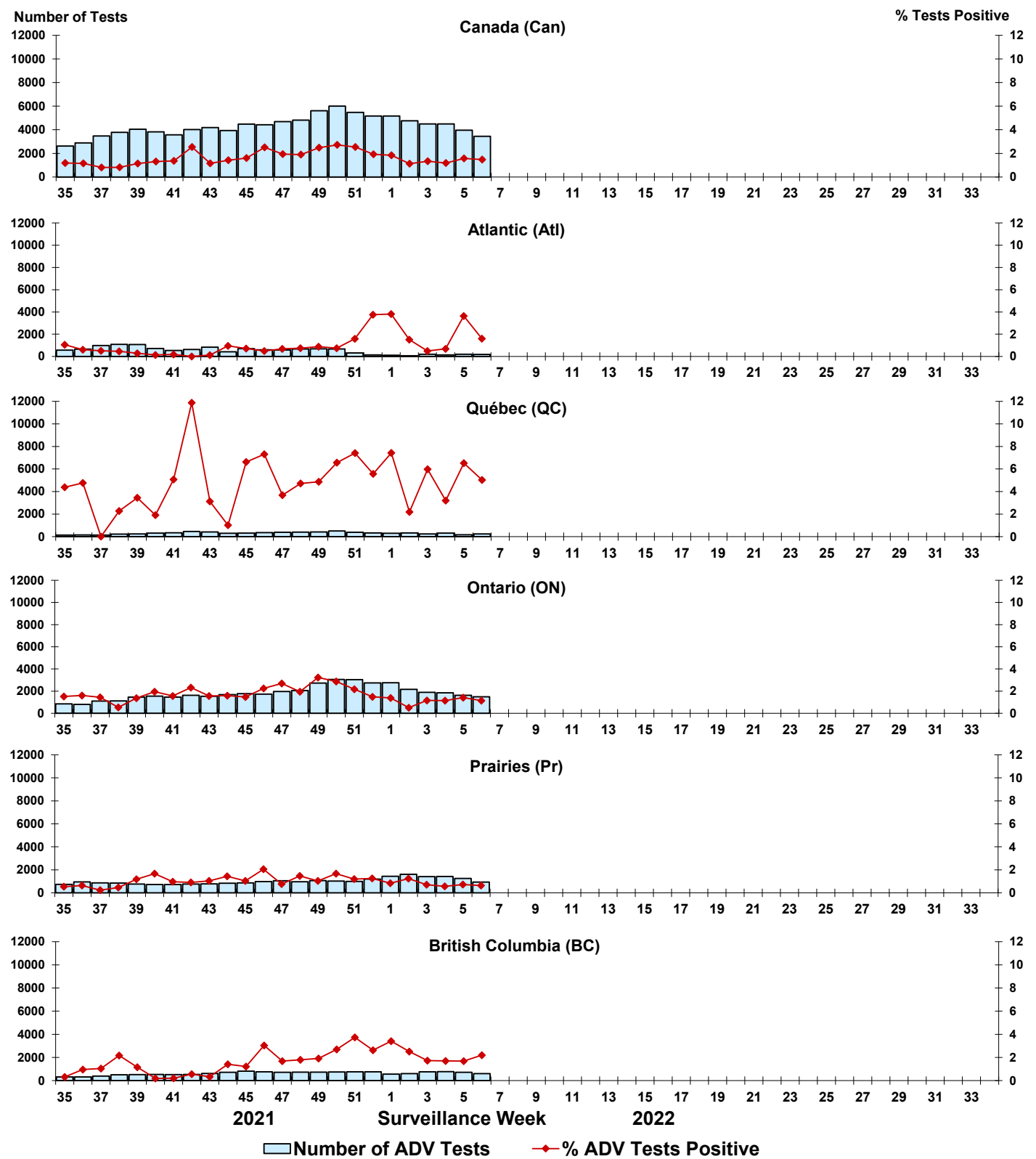


Figure 7: Positive Human metapneumovirus (HMPV) tests (%) in Canada by region by surveillance week

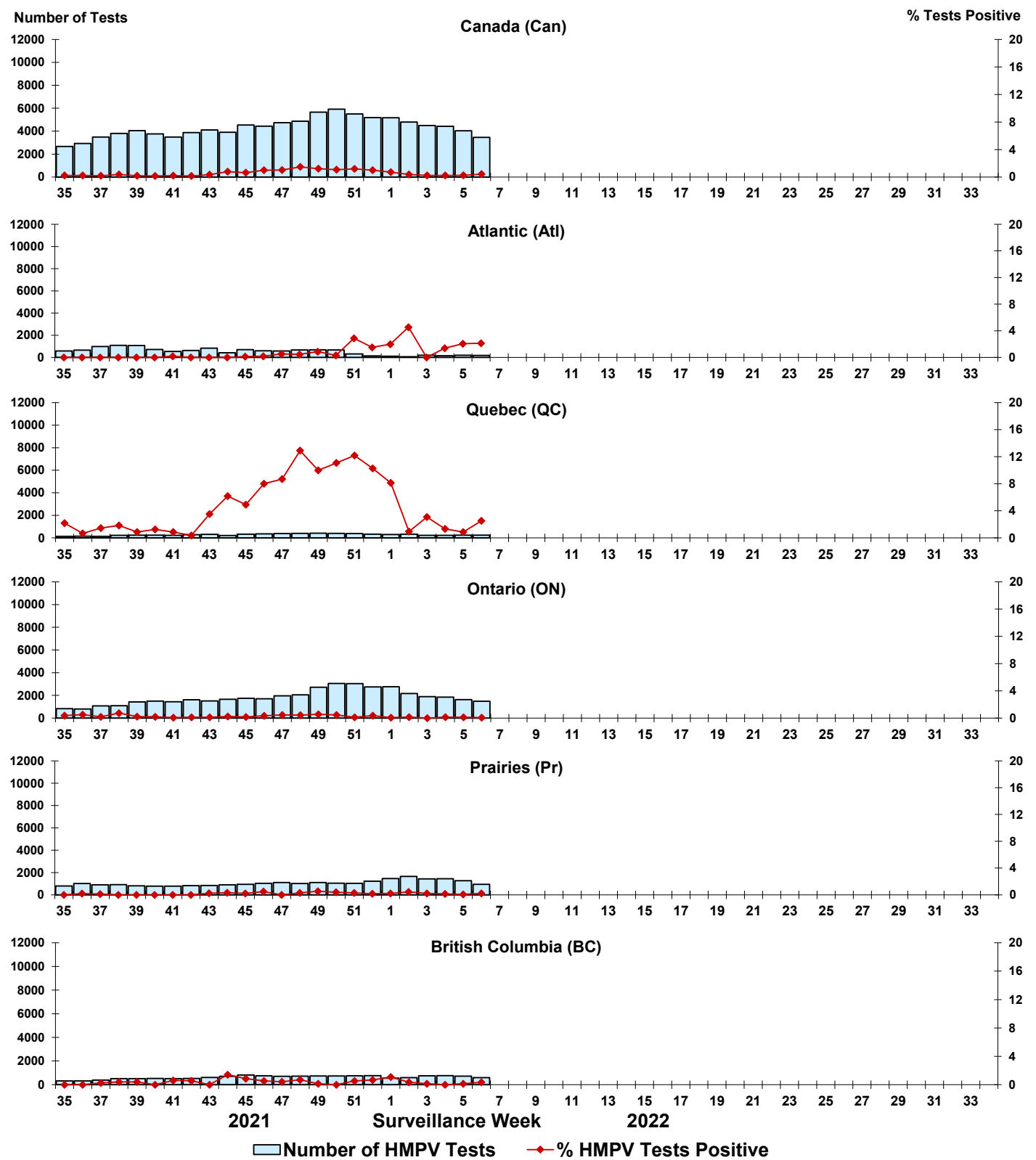


Figure 8: Positive Enterovirus/Rhinovirus (EV/RV) tests (%) in Canada by region by surveillance week

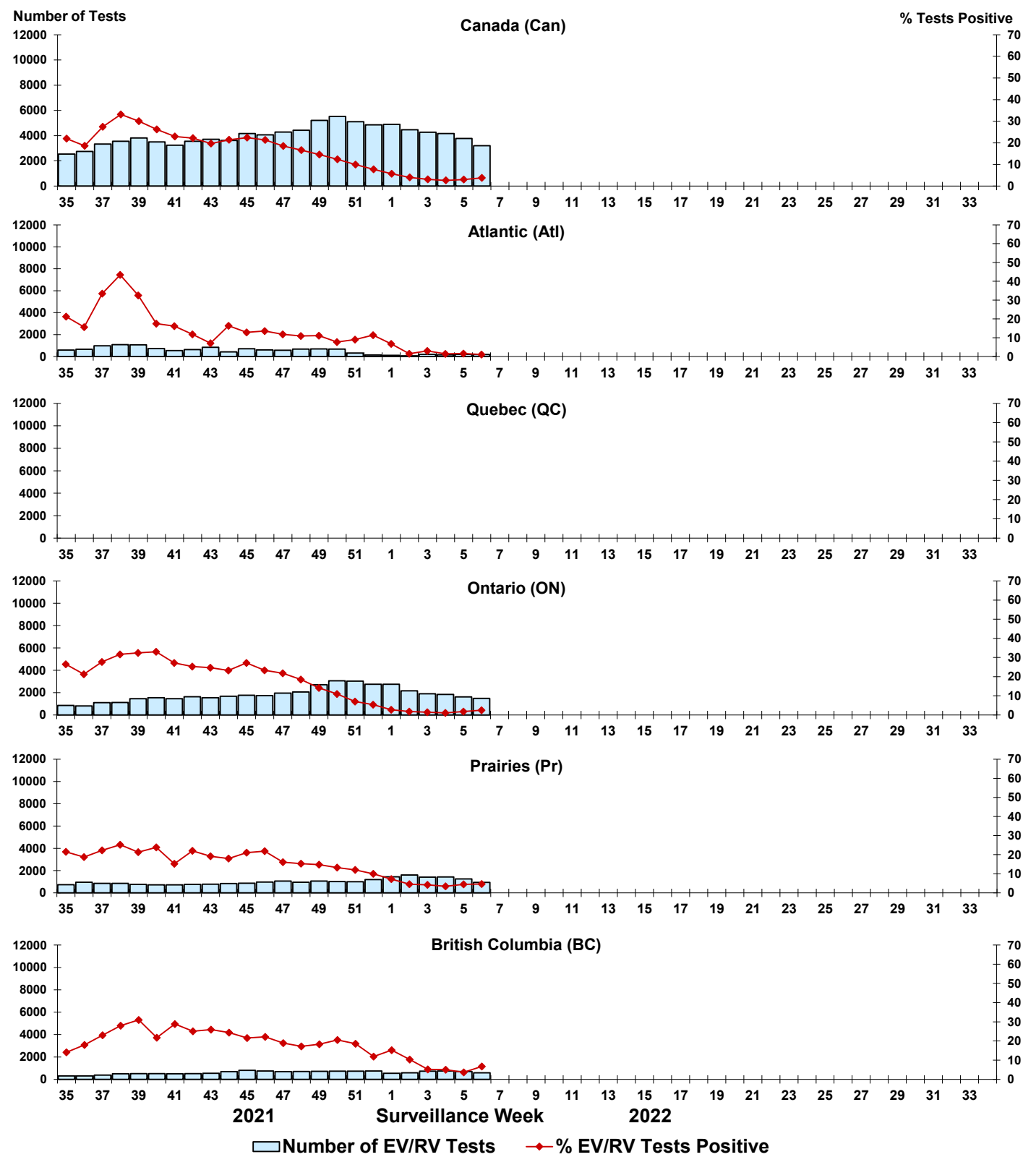


Figure 9: Positive Human coronavirus (HCoV) tests (%) in Canada by region by surveillance week

