

RESPIRATORY VIRUS DETECTION REPORT

February 4 to February 10, 2024
(Surveillance Week 2024-06)



Please note that the Respiratory Virus Detection Surveillance System (RVDSS) is a sentinel laboratory surveillance system that does not capture all respiratory virus testing performed in Canada; differences may exist between the data presented in this report and provincial/territorial epidemiological reports. SARS-CoV-2 laboratory data is included in this report to facilitate the comparison of positivity with other respiratory viruses. Interpretation should be made with caution as testing practices differ among viruses.

For additional SARS-CoV-2 surveillance information, please refer to the [COVID-19 epidemiology update](#).

Overall Summary

In week 6 (week ending February 10, 2024) in Canada, participating RVDSS laboratories reported 3,033 detections of SARS-CoV-2 from 34,561 tests (8.8% positive). Among non-SARS-CoV-2 respiratory viruses, where test volumes are lower (range of 8,310 to 32,439 tests), activity of flu is highest but remains below expected levels for this time of year.

- National SARS-CoV-2 percent positivity has been decreasing since mid-December 2023.
- Activity of influenza A has been stable since mid-January and remains below expected levels for this time of year (3,302 detections; 10.2% positive). Activity of influenza B has been increasing over the past 4 weeks but remains low (538 detections; 1.7% positive).
- Activity of RSV is stable and remains below expected levels for this time of year (1,467 detections; 5.2% positive).
- Activity of all other non-SARS-CoV-2 respiratory viruses is low and near expected levels typical of this time of year.
- 34/35 sentinel laboratories reported surveillance data

Abbreviations

ADV: Adenovirus

Atl: Atlantic Canada

BC: British Columbia

Can: Canada

EORLA: Eastern Ontario Regional Laboratory Association

EV/RV: Enterovirus/Rhinovirus

Flu: Influenza

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

Flu A(H3): Influenza A(H3N2)

Flu A (UnS): Influenza A(Unsubtyped)

HCoV: Human coronavirus 229E/OC43/NL63/HKU1

HMPV: Human metapneumovirus

HPIV: Human parainfluenza virus

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

RSV: Respiratory syncytial virus

RVDSS: Respiratory Virus Detection Surveillance System

SARS-CoV-2: Severe acute respiratory syndrome coronavirus 2

Terr: Territories of Canada

UHN: University Health Network

© His Majesty the King in Right of Canada, as represented by the Minister of Health, 2021

ISSN: 2564-2359 | Cat.: HP38-7E-PDF | Pub.: 210284

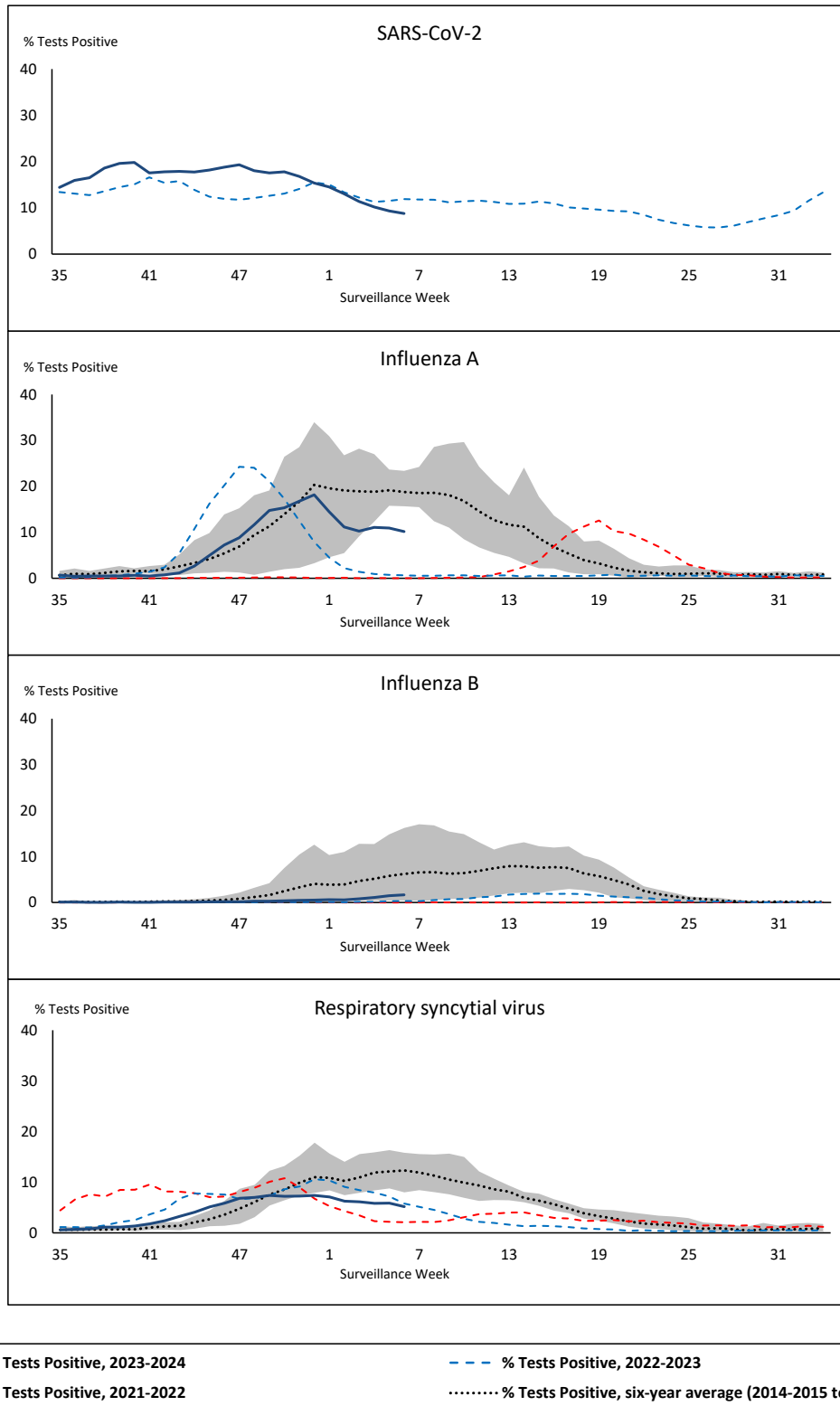


Public Health
Agency of Canada

Agence de la santé
publique du Canada

Canada

Figure 1: Positive severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), influenza, and respiratory syncytial virus tests (%) reported by participating laboratories in Canada by surveillance week compared to average and range from 2014-2015 to 2019-2020 season



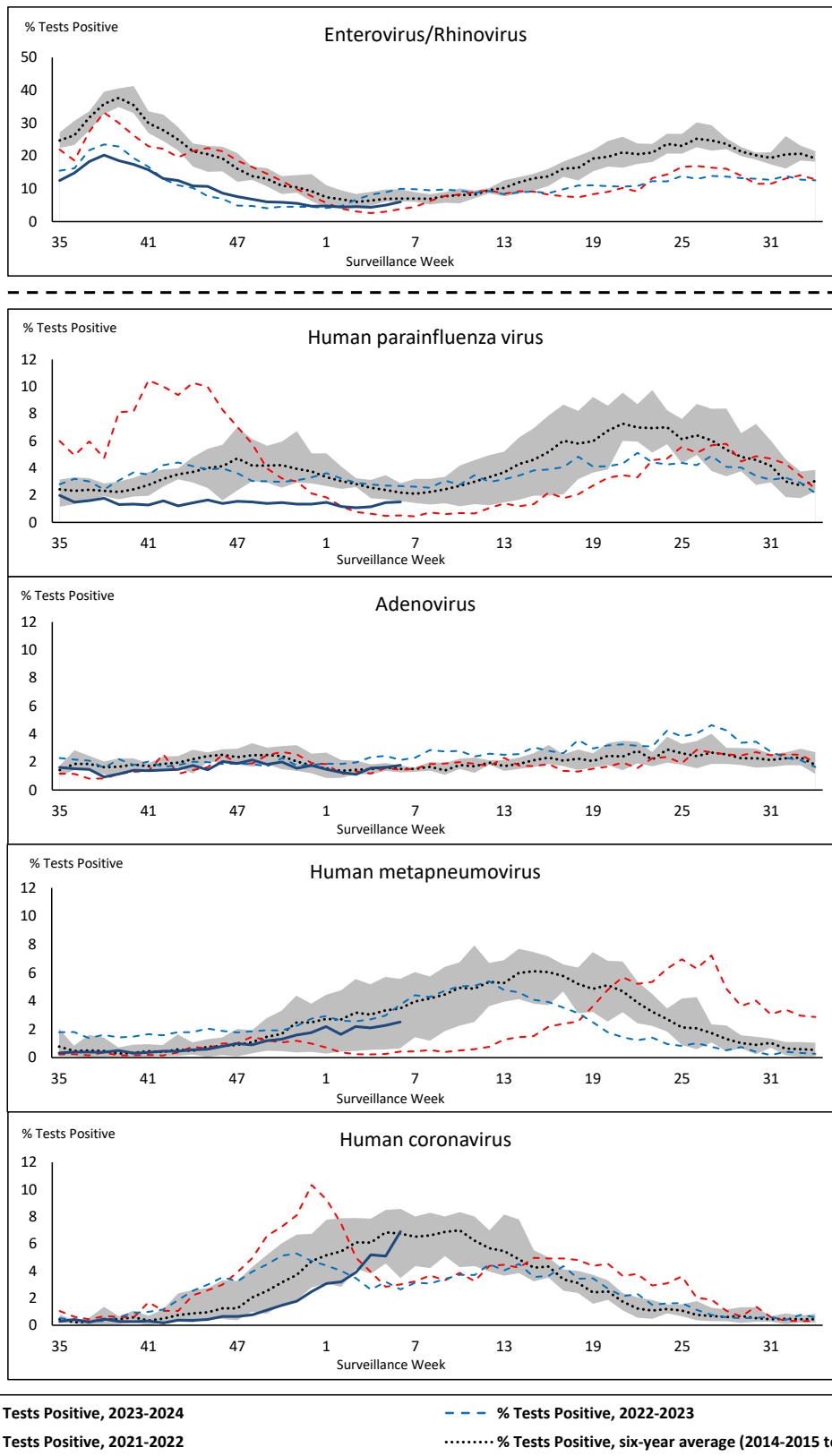
Shaded area represents the maximum and minimum % of respiratory virus tests positive reported by week from seasons 2014-2015 to 2019-2020

Note: Changes to testing practices during the COVID-19 pandemic may cause substantial changes to indicator estimates from previous years. Collection of laboratory testing practice meta-data to understand these changes is ongoing. Interpret trends with caution.

Note: SARS-CoV-2 surveillance was integrated into RVDSS at the beginning of the 2022-2023 season; no prior data is available for historical comparison.

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

Figure 2: Positive tests (%) of other respiratory viruses 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: Changes to testing practices during the COVID-19 pandemic may cause substantial changes to indicator estimates from previous years. Collection of laboratory testing practice meta-data to understand these changes is ongoing. Interpret trends with caution.

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

Table 1: Respiratory virus detections for the week ending February 10, 2024 (surveillance week 2024-06)

Reporting Laboratory	SARS-CoV-2 Tested	SARS-CoV-2 Positive	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	757	69	588	0	0	104	104	4	588	72	588	0	2	2	2	0	588	10	588	13	588	14	588	27	
Prince Edward Island	200	5	193	0	0	15	15	4	193	38	22	0	0	0	0	0	22	0	22	1	22	7	22	1	
Nova Scotia	1368	133	1234	0	0	193	193	22	954	35	30	0	0	0	0	0	30	1	30	0	30	4	30	0	
New Brunswick	1174	101	1215	39	0	49	88	34	1214	152	142	0	0	0	0	0	142	16	142	9	142	44	142	14	
Atlantic	3499	308	3230	39	0	361	400	64	2949	297	782	0	2	2	2	0	782	27	782	23	782	69	782	42	
Région Nord-Est	1572	99	1736	0	0	269	269	18	743	57	75	0	0	1	0	0	75	2	72	5	N.C.	N.C.	75	7	
Québec-Chaudière-Appalaches	1662	115	2103	0	0	513	513	34	1967	95	781	1	0	1	0	0	799	20	780	25	N.C.	N.C.	599	42	
Centre-du-Québec	2450	157	1451	0	0	328	328	11	928	44	33	0	0	0	0	0	33	1	33	1	N.C.	N.C.	34	10	
Montréal-Laval	2221	161	3403	0	0	498	498	15	1784	82	920	0	0	5	0	0	920	22	920	17	N.C.	N.C.	920	90	
Ouest du Québec	1316	118	686	0	0	100	100	10	673	21	17	0	0	1	0	0	17	2	17	0	N.C.	N.C.	17	4	
Montréal	1328	123	1520	0	0	216	216	8	1511	50	7	0	0	0	0	0	7	1	7	0	N.C.	N.C.	7	0	
Province of Québec	10549	773	10899	0	0	1924	1924	96	7606	349	1833	1	0	8	0	0	1851	48	1829	48	N.C.	N.C.	1652	153	
P.H.O.L. - Ottawa	295	97	199	4	2	11	16	1	199	3	115	0	0	0	0	9	115	0	115	2	115	3	115	8	
EOCLA	1066	71	618	0	0	63	63	11	618	13	46	0	1	1	0	0	46	0	46	0	46	4	46	0	
P.H.O.L. - Kingston	196	28	126	5	0	3	8	0	126	1	75	0	0	0	0	0	75	0	75	1	75	3	75	4	
UHN / Mount Sinai Hospital	936	50	732	0	0	19	19	1	732	0	76	0	0	0	0	0	76	0	76	0	76	3	76	6	
P.H.O.L. - Toronto	401	72	809	19	14	12	39	14	809	12	762	0	0	0	0	33	762	11	762	20	762	41	762	83	
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.	N.R.	N.R.	N.R.
Shared Hospital Laboratory	1835	58	1465	41	19	18	78	12	1468	18	1467	0	0	0	0	11	1465	7	1464	7	1464	38	1464	50	
P.H.O.L. - Sault Ste. Marie	9	1	18	2	0	0	2	0	18	2	16	0	0	0	0	0	16	0	16	0	16	1	16	7	
P.H.O.L. - Timmins	38	1	45	7	0	2	9	0	45	1	35	0	0	0	0	0	35	0	35	2	35	0	35	3	
St. Joseph's - London	859	61	702	0	0	61	61	6	702	13	64	0	0	0	0	1	64	2	64	0	64	5	64	6	
P.H.O.L. - London	354	58	318	22	7	17	45	3	318	10	278	0	0	0	0	9	278	1	278	3	278	4	278	40	
P.H.O.L. - Orillia	23	4	38	2	1	1	4	0	38	1	35	0	0	0	0	1	35	0	35	7	35	0	35	0	
P.H.O.L. - Thunder Bay	43	10	32	2	0	0	2	0	32	1	23	0	0	0	0	1	23	0	23	2	23	1	23	1	
P.H.O.L. - Sudbury	55	12	58	4	1	8	13	0	58	1	28	0	0	0	0	0	28	0	28	0	28	0	28	1	
P.H.O.L. - Hamilton	181	29	173	10	3	7	18	5	173	1	144	0	0	0	0	7	144	4	144	4	144	11	144	17	
P.H.O.L. - Peterborough	51	11	65	2	0	5	7	0	64	4	49	0	0	0	0	0	49	1	49	3	49	3	49	4	
St. Joseph's - Hamilton	1839	116	1735	0	0	150	150	53	1735	23	1735	0	0	11	0	0	1735	6	1735	26	1735	78	0	0	
Sault Area Hospital	210	32	148	7	1	1	9	0	148	12	122	0	0	0	0	0	122	1	122	2	122	9	122	4	
Province of Ontario	8391	711	7281	127	48	378	543	106	7283	116	5070	0	1	12	0	72	5068	33	5067	79	5067	204	3332	234	
Manitoba	1483	159	1128	0	0	14	14	17	1128	103	104	0	0	0	0	0	104	0	124	11	104	14	124	7	
Saskatchewan	1704	175	1282	0	0	18	18	61	1131	77	405	1	0	3	0	0	405	5	405	33	405	28	405	19	
Alberta	4803	479	4472	55	23	4	87	142	4231	248	1205	4	0	17	0	0	1203	10	1166	0	1182	85	1205	63	
Prairies	7990	813	6882	55	23	36	119	220	6490	428	1714	5	0	20	0	0	1712	15	1695	44	1691	127	1734	89	
British Columbia	3936	414	3988	58	20	8	316	48	3805	247	861	4	6	16	3	0	861	56	861	65	810	102	810	55	
Yukon	45	4	33	0	0	0	0	0	33	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	31	3	31	0	0	0	0	0	31	9	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	31	3	31	0	31	5	N.C.	N.C.	
Nunavut	120	7	95	0	0	0	0	4	95	21	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	196	14	159	0	0	0	0	4	159	30	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	31	3	31	0	31	5	N.C.	N.C.	
CANADA	34561	3033	32439	279	91	2707	3302	538	28292	1467	10260	10	9	58	5	72	10305	182	10265	259	8381	507	8310	573	

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.

Some 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: Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Vancouver Coastal Health sites, Victoria General Hospital, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

Due to different testing protocols of laboratories across Canada, influenza A subtype detection counts may not be included in total influenza A detection counts. Total influenza A and B positive counts are used to calculate percentage of tests positive.

Delays in the reporting of data may cause data to change retrospectively.

Table 2: Cumulative respiratory virus detections from August 27, 2023 to February 10, 2024 (surveillance weeks 2023-35 to 2024-06)

Reporting Laboratory	SARS-CoV-2 Tested	SARS-CoV-2 Positive	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	15352	2505	11088	0	0	1131	1131	28	11088	687	11088	8	52	21	96	0	11088	185	11088	142	11088	988	11088	193
Prince Edward Island	5600	659	3137	0	0	472	472	11	3137	227	359	2	0	0	8	0	358	18	348	3	358	105	342	4
Nova Scotia	35981	7584	22930	0	0	1815	1815	175	18908	1195	819	15	2	1	10	0	819	39	812	3	819	199	818	1
New Brunswick	26168	3377	23661	783	18	1731	2532	73	23257	1316	2093	7	4	1	24	0	2093	83	2093	24	2093	422	2093	70
Atlantic	83101	14125	60816	783	18	5149	5950	287	56290	3425	14359	32	58	23	138	0	14358	325	14341	172	14358	1714	14341	268
Région Nord-Est	42386	6648	36632	5	0	3923	3928	45	13858	997	1785	14	11	10	16	0	1785	80	1746	53	N.C.	N.C.	1785	30
Québec-Chaudière-Appalaches	51245	8904	29012	0	0	4035	4035	99	28157	2143	11625	20	9	7	10	0	11963	414	11624	245	N.C.	N.C.	9861	200
Centre-du-Québec	61862	11843	22446	0	0	2379	2379	44	15815	1281	915	15	8	13	7	0	915	46	915	29	N.C.	N.C.	943	32
Montréal-Laval	76685	13284	55034	2	1	4802	4805	79	36876	2415	19599	92	38	95	24	0	19599	394	19656	334	N.C.	N.C.	19599	445
Ouest du Québec	41923	9565	15978	4	0	1457	1461	66	15837	930	479	11	3	5	6	0	479	36	479	9	N.C.	N.C.	479	14
Monterégie	39634	7554	29432	0	0	2308	2308	52	28373	1488	154	1	0	0	1	0	154	6	154	1	N.C.	N.C.	154	1
Province of Québec	313735	57798	188534	11	1	18904	18916	385	138916	9254	34557	153	69	130	64	0	34895	976	34574	671	N.C.	N.C.	32821	722
P.H.O.L. - Ottawa	8952	3407	5913	250	53	113	293	8	5907	124	3478	0	0	0	0	55	3478	11	3476	39	3478	380	3476	82
EORLA	32704	4117	14521	0	0	1271	1271	78	14521	1068	932	2	4	9	4	0	907	9	932	7	932	173	932	16
P.H.O.L. - Kingston	6205	1987	3343	94	16	52	136	2	3343	164	2354	0	0	0	0	40	2354	10	2354	3	2354	307	2354	13
UHN / Mount Sinai Hospital	27309	2779	16726	40	8	438	486	40	16726	186	757	0	0	7	2	0	757	1	757	0	757	32	757	20
P.H.O.L. - Toronto	15760	5187	27289	1036	863	235	1501	87	27280	980	24850	0	0	0	0	680	24857	282	24835	251	24850	2531	24835	734
Sick Kids Hospital - Toronto	3025	260	2656	93	82	20	195	7	2656	300	2656	14	12	35	18	0	2656	65	2656	40	2656	467	2656	60
Shared Hospital Laboratory	41583	4234	35622	689	464	206	1359	88	35627	1289	35466	0	0	0	0	206	29812	264	35495	100	35540	1248	35517	310
P.H.O.L. - Sault Ste. Marie	338	185	397	39	3	11	47	0	397	41	282	0	0	0	0	3	282	1	282	0	282	21	282	9
P.H.O.L. - Timmins	847	244	784	53	8	21	71	0	784	59	641	0	0	0	0	14	641	4	641	4	641	45	641	7
St. Joseph's - London	21652	3162	10330	0	0	766	766	52	10330	680	1594	0	0	0	0	17	1613	25	1613	8	1615	189	1613	29
P.H.O.L. - London	11854	3806	8457	391	122	85	423	23	8454	448	6754	0	0	0	0	170	6754	34	6752	34	6754	629	6752	128
P.H.O.L. - Orillia	471	132	1137	56	17	7	80	0	1134	73	1084	0	0	0	0	26	1084	15	1084	12	1084	143	1084	9
P.H.O.L. - Thunder Bay	1517	445	902	55	0	7	34	1	899	21	740	0	0	0	0	25	740	5	740	19	740	53	740	3
P.H.O.L. - Sudbury	550	217	635	26	1	17	44	0	633	21	442	0	0	0	0	6	443	1	442	1	442	43	442	5
P.H.O.L. - Hamilton	6039	1947	4795	123	58	63	190	15	4794	169	3516	0	0	0	0	99	3516	63	3515	48	3516	477	3515	121
P.H.O.L. - Peterborough	1920	650	1879	200	201	38	110	7	1869	214	1519	0	0	0	0	44	1519	34	1519	21	1519	252	1519	27
St. Joseph's - Hamilton	46955	5355	41037	0	0	2550	2550	203	41037	1658	41037	0	0	240	0	0	41037	252	41037	214	41037	2420	0	0
Sault Area Hospital	4510	615	3046	161	8	48	217	4	3039	161	2376	23	0	10	16	0	2327	31	2327	2	2327	229	2337	11
Province of Ontario	232191	38729	179469	3306	1904	5948	9773	615	179430	7656	130478	39	16	301	40	1385	124777	1107	130457	803	130524	9639	89452	1584
Manitoba	40164	6167	30391	11	139	1904	2054	94	30391	1029	2278	0	9	7	41	0	2278	102	2957	95	2278	460	2957	57
Saskatchewan	52528	6476	35923	100	7	5278	5385	513	32668	1056	10965	23	9	19	20	0	10965	233	10965	576	10965	1125	10965	151
Alberta	135187	17481	114559	11494	620	567	12749	994	106632	4987	31568	110	79	189	3	0	31560	376	30835	21	31060	2957	31567	513
Prairies	227879	30124	180873	11605	766	7749	20188	1601	169691	7072	44811	133	97	215	64	0	44803	711	44757	692	44303	4542	45489	721
British Columbia	92402	12929	91996	3711	550	211	7233	277	90071	4760	21152	104	147	123	153	0	21154	664	21039	603	20276	3271	20253	413
Yukon	1333	152	871	30	12	0	49	1	864	41	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	869	61	810	166	6	1	173	1	810	79	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	611	30	611	7	810	105	N.C.
Nunavut	2979	276	2073	0	28	458	486	7	2073	234	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	5181	489	3754	196	46	459	708	9	3747	354	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	611	30	611	7	810	105	N.C.
CANADA	954489	154194	705442	19612	3285	38420	62768	3174	638145	32521	245357	461	387	792	459	1385	240598	3813	245779	2948	210271	19271	202356	3708

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.

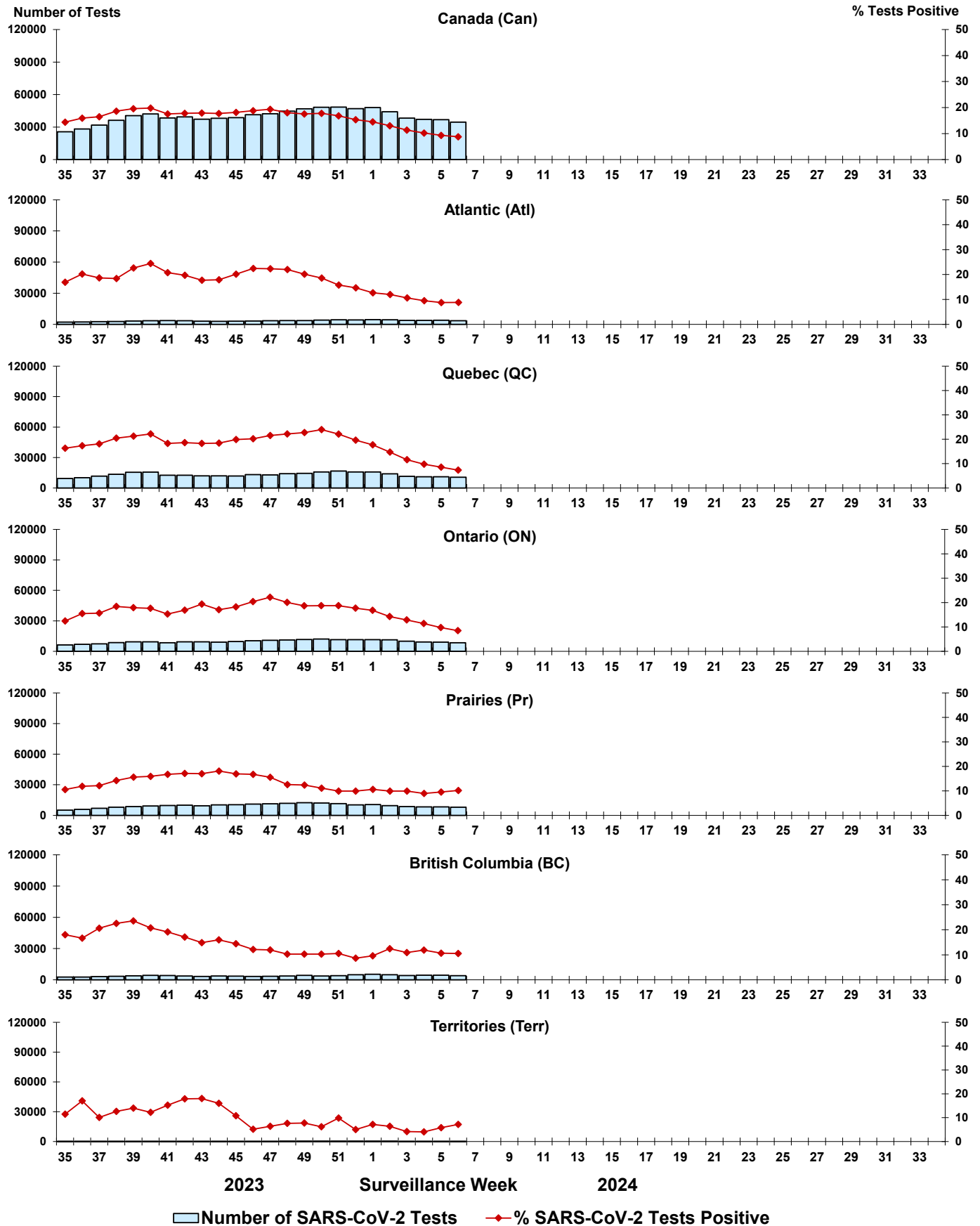
Some specimens from Yukon (YT) are sent to reference laboratories in British Columbia and reported results reflect specimens identified as originating from YT.

Results from British Columbia comprise of specimens from the following sites: Children's and Women's Hospital Laboratory, Fraser Health Medical Microbiology Laboratory, Island Health, Providence Health Care, Vancouver Coastal Health sites, Victoria General Hospital, BCCDC Public Health Laboratory, Interior Health Authority sites and Northern Health Authority sites.

Due to different testing protocols of laboratories across Canada, influenza A subtype detection counts may not be included in total influenza A detection counts. Total influenza A and B positive counts are used to calculate percentage of tests positive.

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.

Figure 3: Positive severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) tests (%) in Canada by region by surveillance week



Note: Differences in positivity between jurisdictions can reflect differences in testing practices. Please interpret with caution.

Figure 4: Positive Influenza (Flu) tests (%) in Canada by region by surveillance week

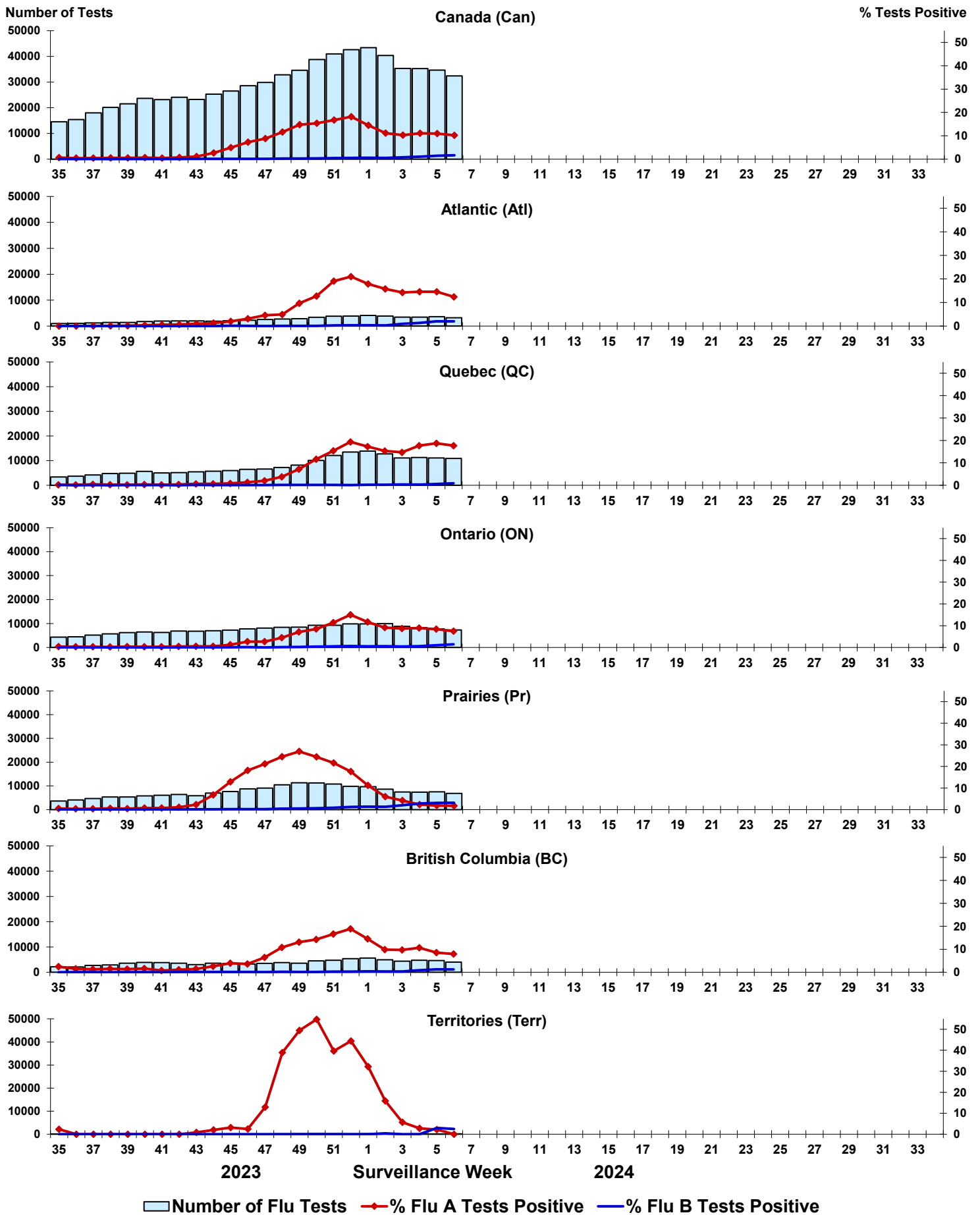


Figure 5: Positive Respiratory syncytial virus (RSV) tests (%) in Canada by region by surveillance week

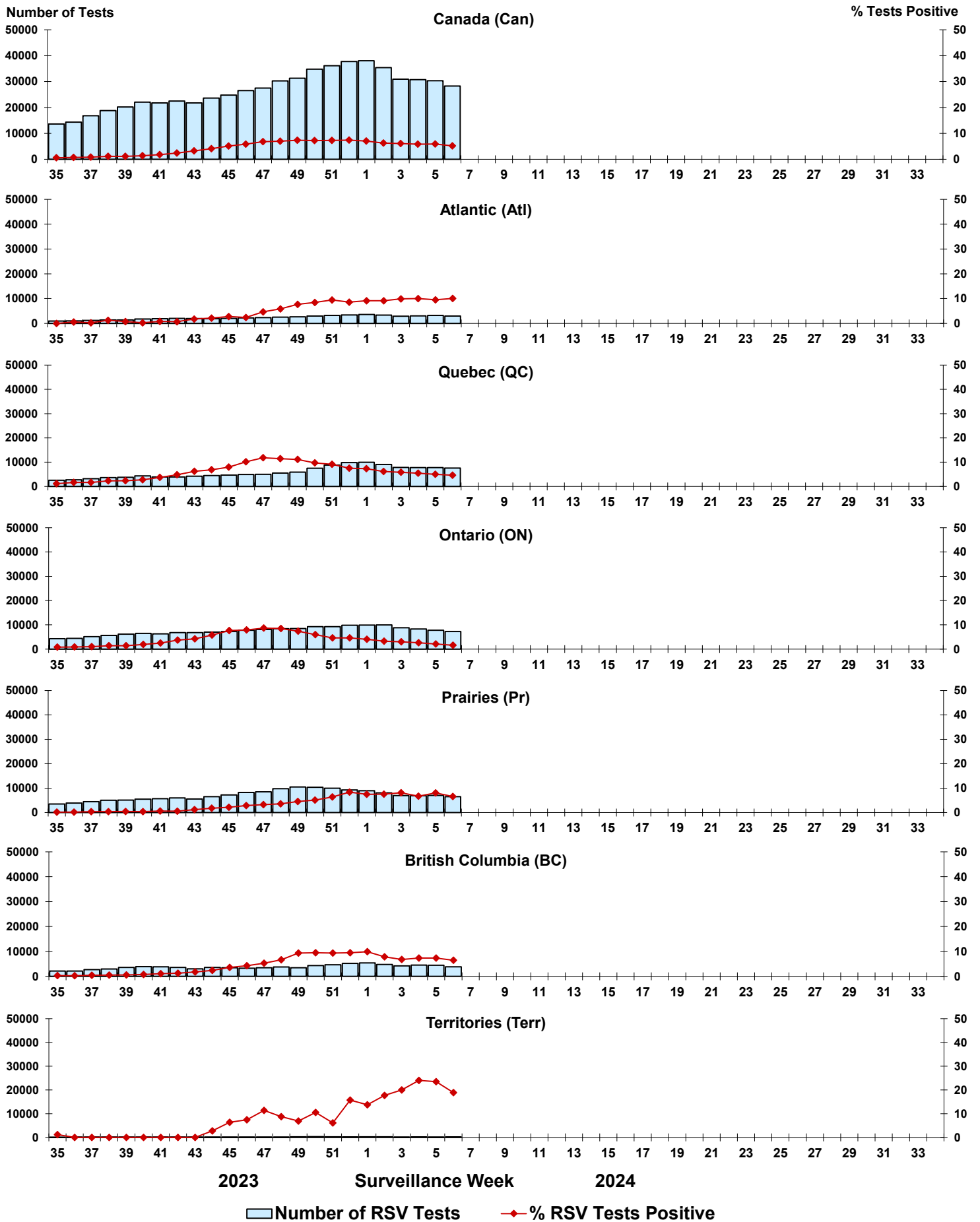


Figure 6: Positive Human parainfluenza virus (HPIV) tests (%) in Canada by region by surveillance week

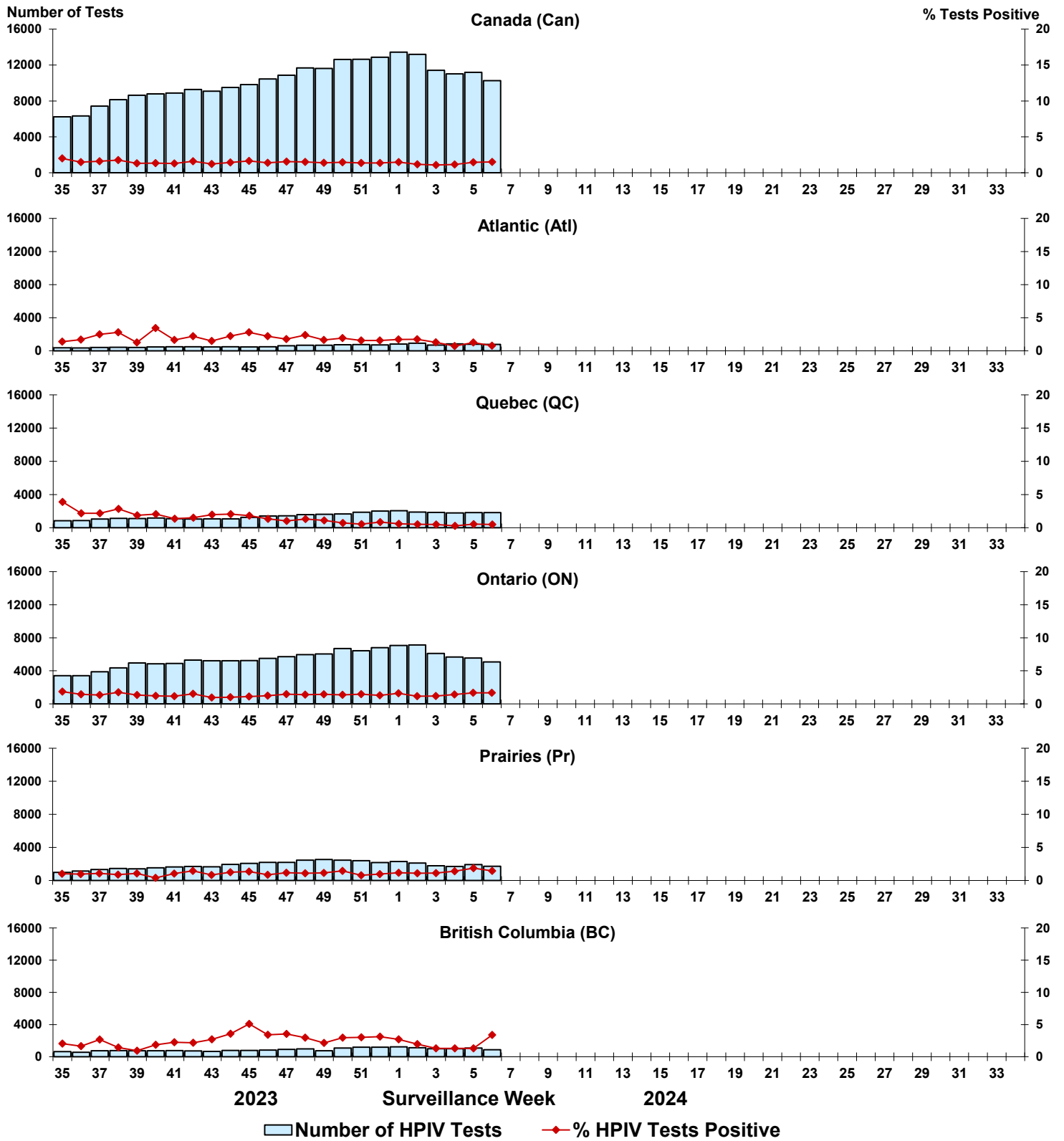


Figure 7: Positive Adenovirus (ADV) tests (%) in Canada by region by surveillance week

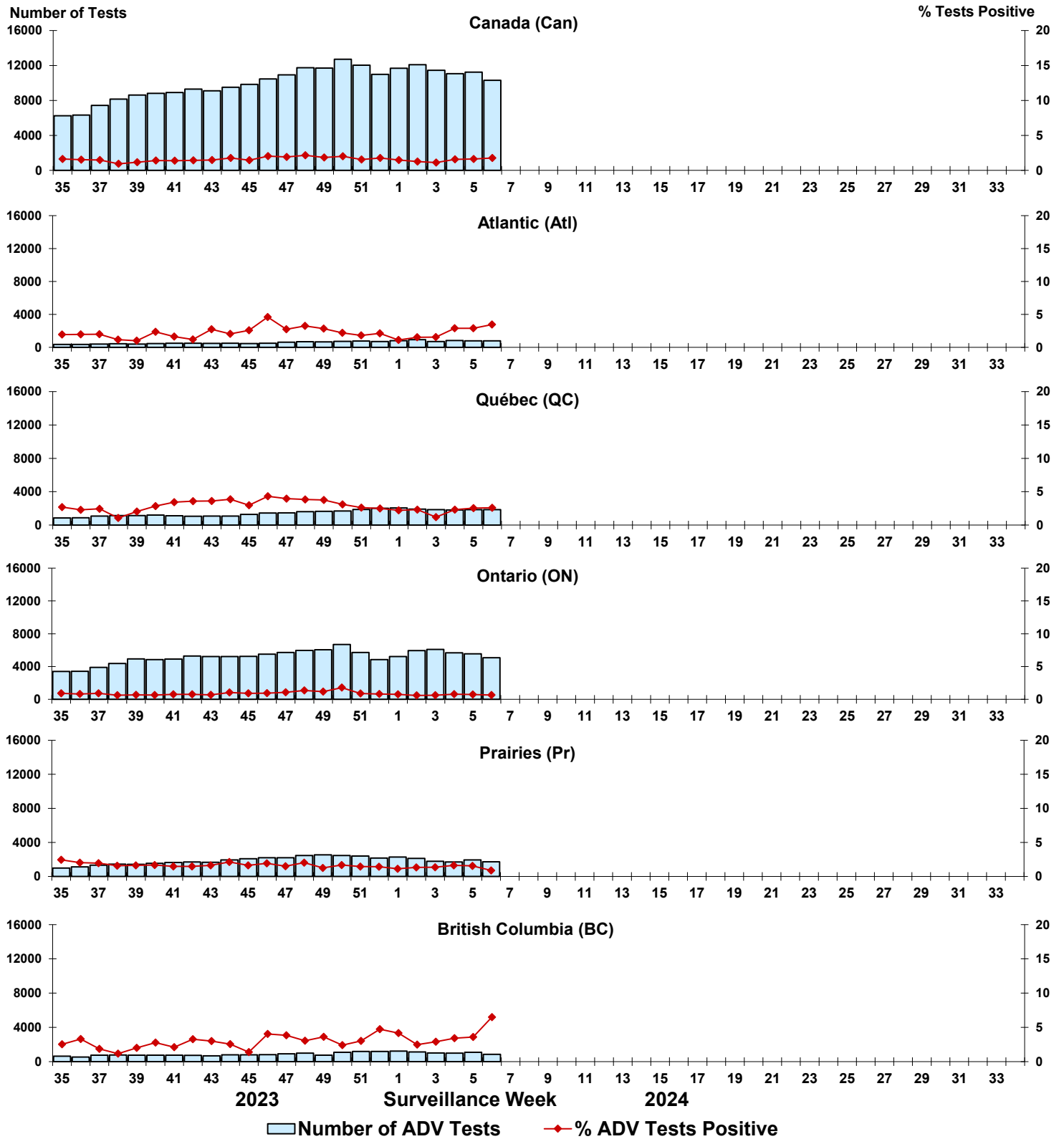


Figure 8: Positive Human metapneumovirus (HMPV) tests (%) in Canada by region by surveillance week

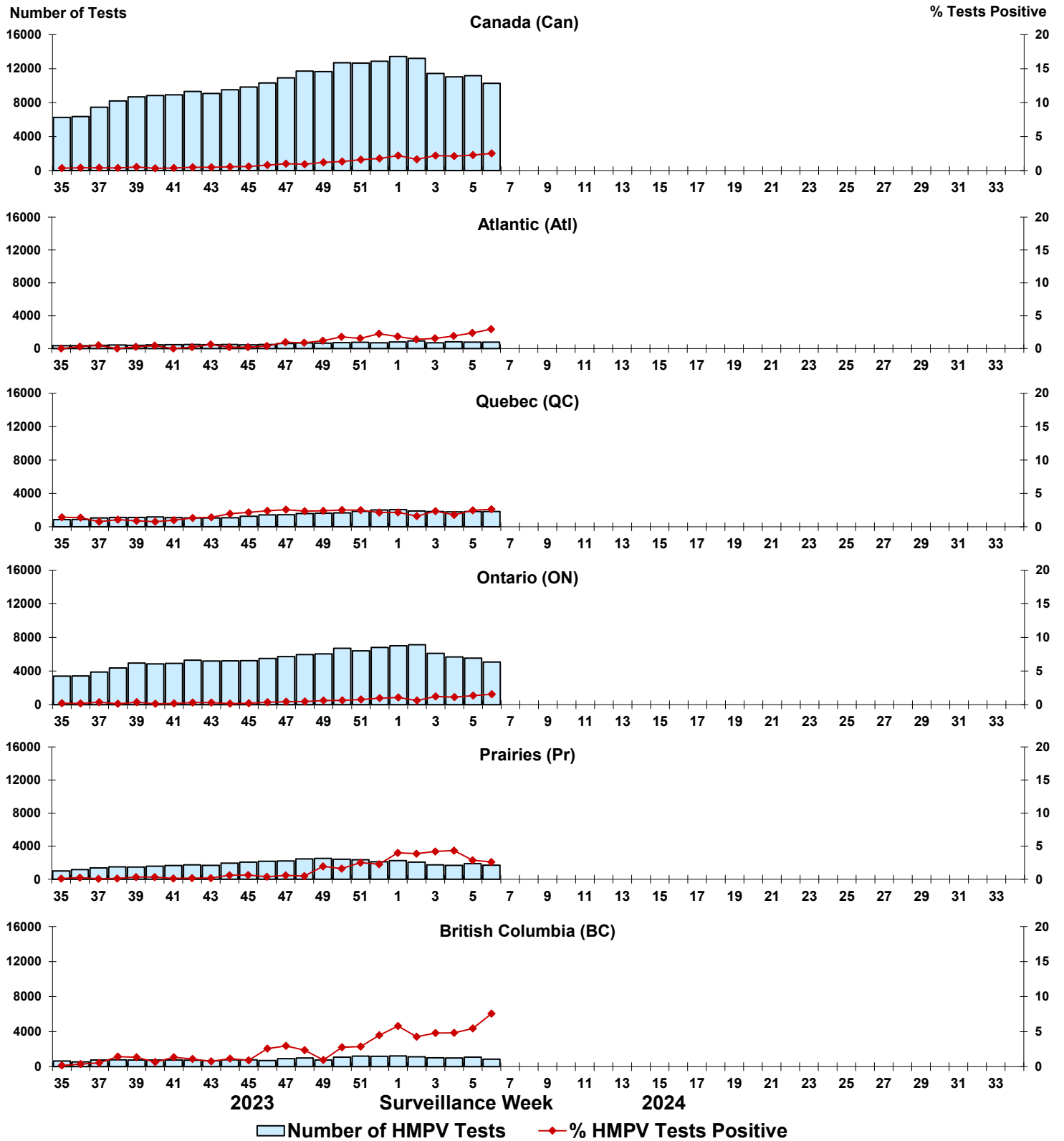


Figure 9: Positive Enterovirus/Rhinovirus (EV/RV) tests (%) in Canada by region by surveillance week

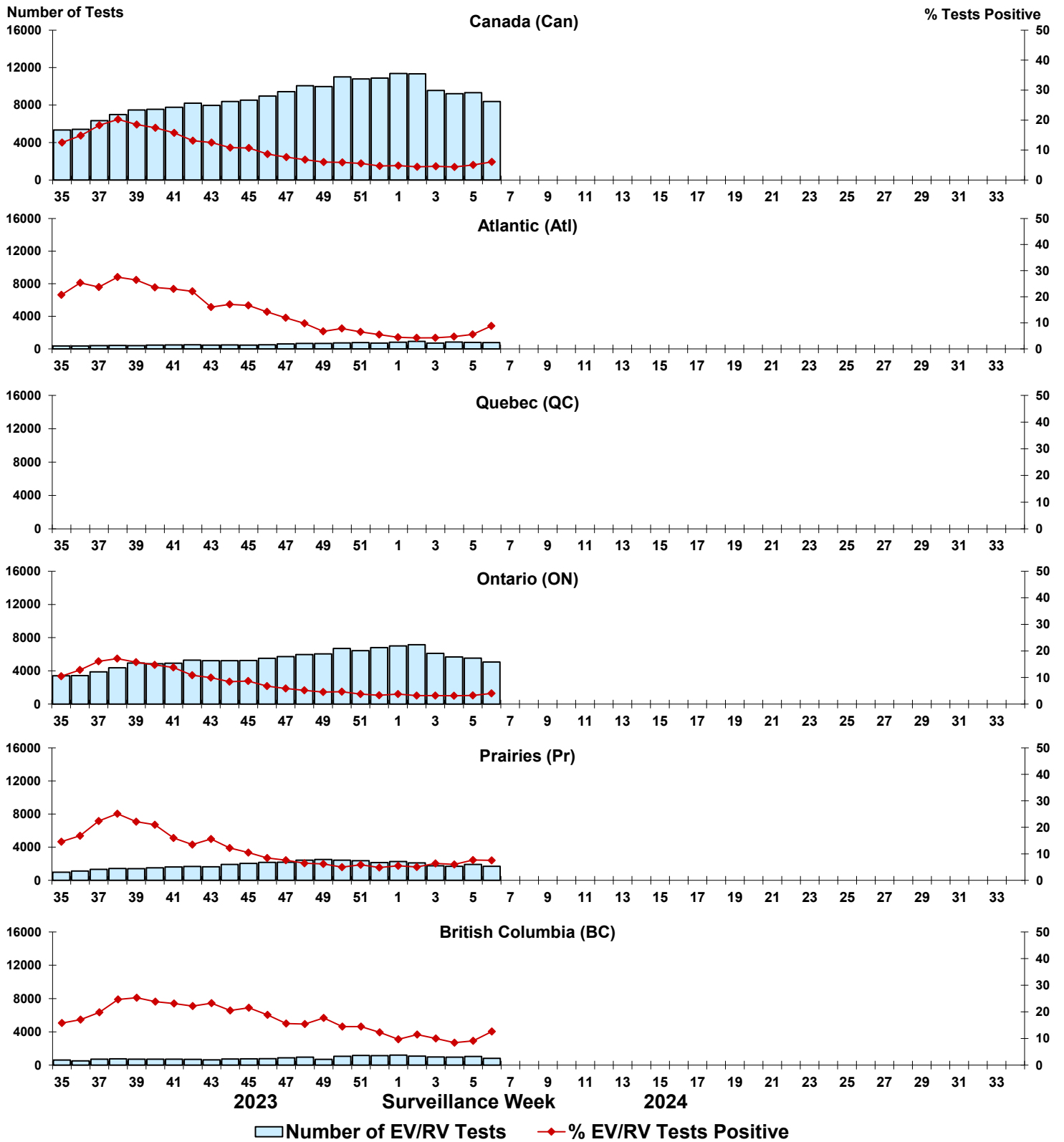


Figure 10: Positive Human coronavirus (HCoV) tests (%) in Canada by region by surveillance week

