

Respiratory Virus Detections in Canada

Respiratory Virus Report, Week 33 - ending August 18, 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 August 18, 2018 (Reporting Week 201833)

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	11	0	0	0	0	0	11	0	11	0	0	1	0	0	11	0	11	0	11	3	N.A.	N.A.
Prince Edward Island	2	0	0	0	0	0	2	0	2	0	0	1	0	0	2	1	2	0	2	0	2	0
Nova Scotia	10	0	0	0	0	0	10	1	10	0	0	0	0	0	10	0	10	0	10	0	10	1
New Brunswick	48	0	0	0	0	0	48	0	27	0	0	1	0	0	27	0	27	0	27	4	27	0
Atlantic	71	0	0	0	0	0	71	1	50	0	0	3	0	0	50	1	50	0	50	7	39	1
Région Nord-Est	17	0	0	0	0	1	18	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	24	0	0	0	0	0	43	1	42	0	0	0	0	0	42	0	41	0	N.A.	N.A.	41	0
Centre-du-Québec	6	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	332	0	0	1	1	1	342	3	313	1	3	0	2	0	313	11	306	0	N.A.	N.A.	306	1
Ouest du Québec	19	0	0	0	0	0	15	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Monterégie	14	0	0	1	1	0	14	2	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	412	0	0	2	2	2	437	8	355	1	3	0	2	0	355	11	347	0	N.A.	N.A.	347	1
Ottawa P.H.L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHEO - Ottawa	57	0	0	0	0	1	57	0	21	0	0	1	0	0	21	1	21	0	21	3	21	0
Kingston P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	3	0	1	0	0	0
UHN / Mount Sinai Hospital	126	0	0	0	0	0	126	0	16	0	2	0	0	0	0	0	16	0	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	114	0	0	0	0	0	114	0	114	0	0	0	0	0	114	0	110	0	4	0	0	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	34	0	0	0	0	0	34	0	34	0	0	2	0	0	34	0	34	0	34	4	34	0
Sault Ste. Marie P.H.L.	5	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	0	0	0	0	0
Timmins P.H.L.	2	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	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
London P.H.L.	22	0	0	0	0	0	22	0	22	0	0	0	0	0	22	0	18	0	4	0	0	0
Orillia P.H.L.	4	0	0	0	0	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	0
Thunder Bay P.H.L.	3	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	0
Sudbury P.H.L.	9	0	0	0	0	0	9	1	9	0	0	0	0	0	9	0	9	0	0	0	0	0
Hamilton P.H.L.	29	0	0	0	0	0	29	0	29	1	0	1	0	0	29	1	29	0	1	0	0	0
Peterborough P.H.L.	5	0	0	0	0	0	5	0	5	0	1	1	0	0	5	0	5	0	0	0	0	0
Province of Ontario	414	0	0	0	0	1	414	1	268	1	3	5	0	0	252	2	259	0	81	8	71	0
Manitoba	115	0	0	0	0	0	115	0	94	0	0	0	1	0	94	0	41	0	94	12	41	0
Regina	104	0	0	0	0	0	104	0	104	0	1	2	0	0	104	0	104	0	104	40	104	0
Saskatoon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Province of Saskatchewan	104	0	0	0	0	0	104	0	104	0	1	2	0	0	104	0	104	0	104	40	104	0
Province of Alberta	260	0	1	0	1	1	251	0	251	0	1	1	0	0	251	8	251	1	251	44	251	0
Prairies	479	0	1	0	1	1	470	0	449	0	2	3	1	0	449	8	396	1	449	96	396	0
British Columbia	158	0	1	0	1	0	158	1	98	0	0	11	1	0	98	0	98	0	83	15	83	0
Yukon	1	0	0	0	0	0	1	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	8	0	0	0	0	0	8	0	8	0	0	2	0	0	8	1	8	0	8	2	8	0
Nunavut	1	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1	0
Territories	10	0	0	0	0	0	10	0	9	0	0	2	0	0	9	1	9	0	9	3	9	0
CANADA	1544	0	2	2	4	4	1560	11	1229	2	8	24	4	0	1213	23	1159	1	672	129	945	2

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 27, 2017 - August 18, 2018 (Reporting Weeks 201735-201833)

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	4654	0	3	476	479	436	4654	244	4654	98	22	66	0	0	4654	51	4655	240	4654	273	N.A.	N.A.
Prince Edward Island	1319	8	134	4	146	171	1351	176	94	1	0	2	2	0	94	5	94	5	94	19	94	7
Nova Scotia	4263	0	0	567	567	302	4315	541	632	5	1	16	1	0	632	9	632	35	632	96	632	18
New Brunswick	12363	36	249	1428	1713	1282	11933	783	3167	26	40	56	16	0	3167	92	3167	142	3167	406	3167	155
Atlantic	22599	44	386	2475	2905	2191	22253	1744	8547	130	63	140	19	0	8547	157	8548	422	8547	794	3893	180
Région Nord-Est	13940	0	0	1846	1846	1405	12019	873	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Québec-Chaudière-Appalaches	16707	0	0	2622	2622	2076	16674	1355	3836	45	3	49	20	0	3927	131	3341	38	N.A.	N.A.	3260	26
Centre-du-Québec	19803	0	0	2814	2814	2657	15770	1416	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montréal-Laval	51212	0	0	5086	5086	3816	46029	2672	25092	224	59	423	62	0	25264	867	24271	652	N.A.	N.A.	22315	609
Ouest du Québec	13278	0	0	1886	1886	1535	8760	755	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Montérégie	9472	0	0	1263	1263	865	9330	645	0	0	0	0	0	0	0	0	0	0	N.A.	N.A.	0	0
Province of Québec	124412	0	0	15517	15517	12354	108582	7716	28928	269	62	472	82	0	29191	998	27612	690	N.A.	N.A.	25575	635
Ottawa P.H.L.	1014	4	122	57	183	143	588	12	588	6	1	8	0	0	588	4	555	15	52	6	10	1
CHEO - Ottawa	9200	0	0	796	796	568	9200	713	1043	13	1	45	9	0	1070	33	1131	24	1074	237	1073	48
Kingston P.H.L.	1163	5	103	38	146	93	882	27	882	9	0	10	1	0	882	5	813	17	176	7	22	0
UHN / Mount Sinai Hospital	13453	0	2	635	637	567	13453	415	856	7	4	27	9	0	0	0	818	18	N.A.	N.A.	N.A.	N.A.
P.H.O.L. - Toronto	17931	175	1577	139	1891	1170	14334	272	14336	114	17	162	1	0	14335	132	13837	220	971	48	234	5
Sick Kids Hospital - Toronto	3507	20	59	122	201	177	2859	202	2859	30	9	67	35	0	2859	63	2859	159	2859	703	2859	144
Sunnybrook & Women's College HSC	3439	14	209	3	226	178	3439	76	3439	22	9	40	10	0	3439	2	3439	103	3439	314	3439	103
Sault Ste. Marie P.H.L.	656	1	98	8	107	52	491	12	491	9	0	2	1	0	491	0	477	3	28	3	12	0
Timmins P.H.L.	501	7	84	8	99	36	366	23	366	1	0	3	0	0	366	3	357	2	24	1	2	0
St. Joseph's - London	4551	0	0	416	416	417	4551	373	1414	24	4	12	11	0	1286	33	1231	56	716	150	666	21
London P.H.L.	5102	28	456	112	596	645	3550	193	3550	40	3	43	3	0	3550	21	3425	74	315	21	63	0
Orillia P.H.L.	1621	8	153	65	226	134	1189	53	1189	19	0	6	0	0	1189	11	1165	31	56	4	11	0
Thunder Bay P.H.L.	1192	2	196	22	220	94	862	27	862	12	2	7	0	0	862	6	846	17	20	0	3	0
Sudbury P.H.L.	1269	3	118	7	128	95	1035	12	1035	11	2	3	0	0	1034	7	987	3	68	1	13	0
Hamilton P.H.L.	3780	29	208	97	334	343	2905	132	2904	34	5	39	3	0	2904	34	2815	52	214	21	64	2
Peterborough P.H.L.	1952	6	99	52	157	126	1603	44	1603	21	1	6	0	0	1603	7	1592	34	59	12	44	2
Province of Ontario	70331	302	3484	2577	6363	4838	61307	2586	37417	372	58	480	83	0	36458	361	36347	828	10132	1540	8568	328
Manitoba	12670	22	378	737	1137	640	12417	583	5511	67	21	64	20	0	5511	74	2850	152	5511	604	2850	97
Regina	14864	70	1164	61	1295	1335	14864	869	14864	376	172	184	68	0	14864	253	14864	744	14864	2841	14864	832
Saskatoon	6197	19	0	394	413	348	6197	255	6096	34	9	39	4	0	6197	62	6197	78	6047	558	6197	99
Province of Saskatchewan	21061	89	1164	455	1708	1683	21061	1124	20960	410	181	223	72	0	21061	315	21061	822	20911	3399	21061	931
Province of Alberta	42224	283	4011	1427	5721	3399	34663	0	34663	554	231	550	331	0	34663	603	34663	2018	34663	5314	34663	1453
Prairies	75955	394	5553	2619	8566	5722	68141	1707	61134	1031	433	837	423	0	61235	992	58574	2992	61085	9317	58574	2481
British Columbia	23150	521	1524	447	2492	3022	22969	891	9984	167	59	162	89	0	9984	116	9984	498	7342	1621	7342	407
Yukon	458	7	48	21	76	43	458	46	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	791	4	126	0	130	56	785	0	785	11	2	6	24	0	785	31	785	52	785	107	785	52
Nunavut	443	6	40	0	46	6	430	8	431	7	4	21	7	0	430	29	428	26	256	77	247	14
Territories	1692	17	214	21	252	105	1673	54	1216	18	6	27	31	0	1215	60	1213	78	1041	184	1032	66
CANADA	318139	1278	11161	23656	36095	28232	284925	14698	147226	1987	681	2118	727	0	146630	2684	142278	5508	88147	13456	104984	4097

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, 2017-18

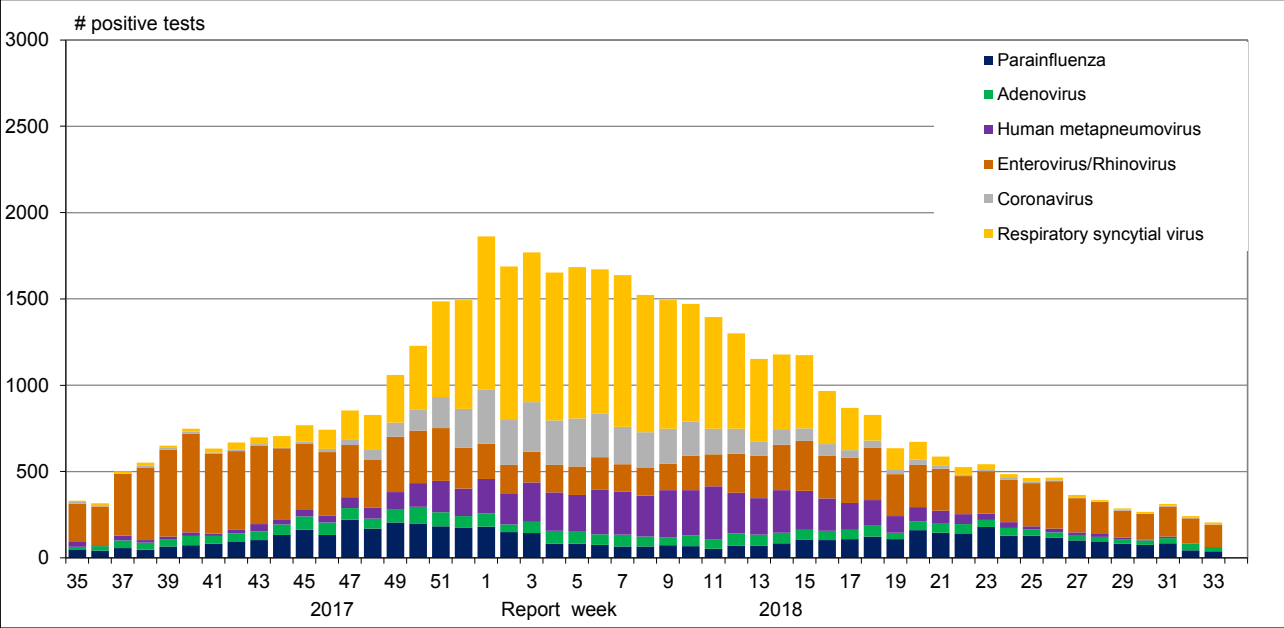


Figure 2: Positive Influenza Tests (%) in Canada by Region by Week of Report

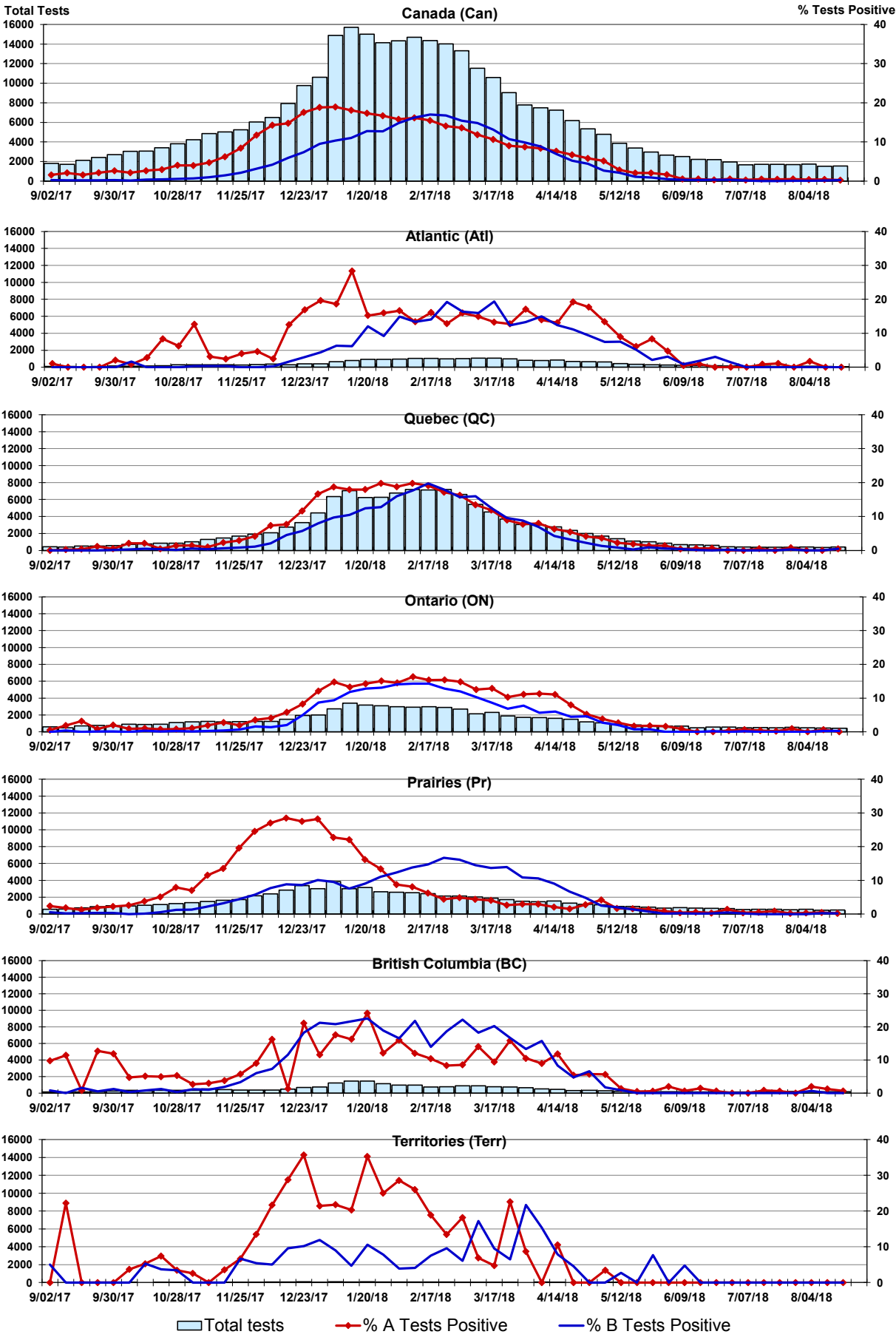


Figure 3: Positive Respiratory syncytial virus (RSV) Tests (%) in Canada by Region by Week of Report

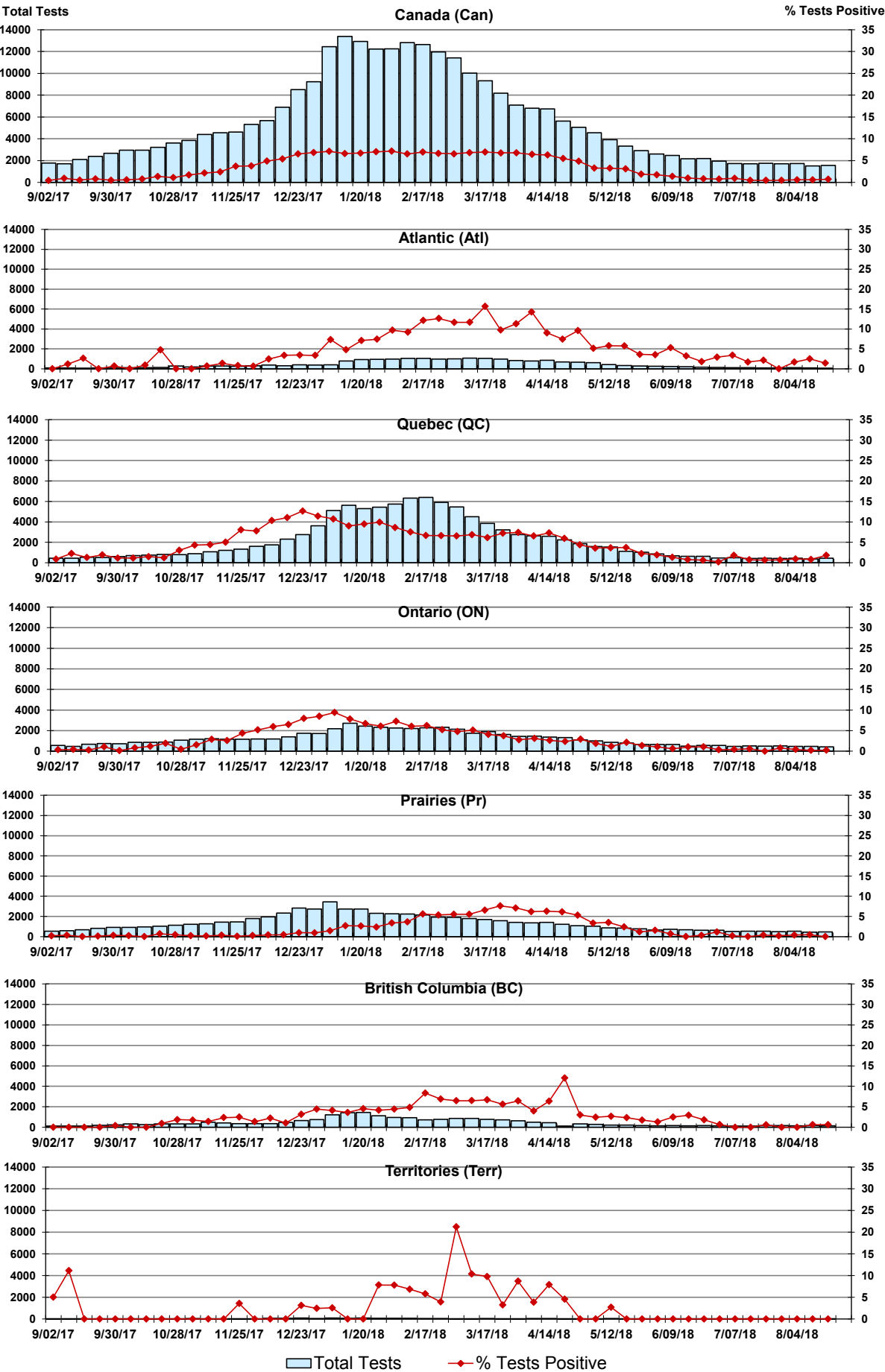


Figure 4: Positive Parainfluenza (PIV) Tests (%) in Canada by Region by Week of Report

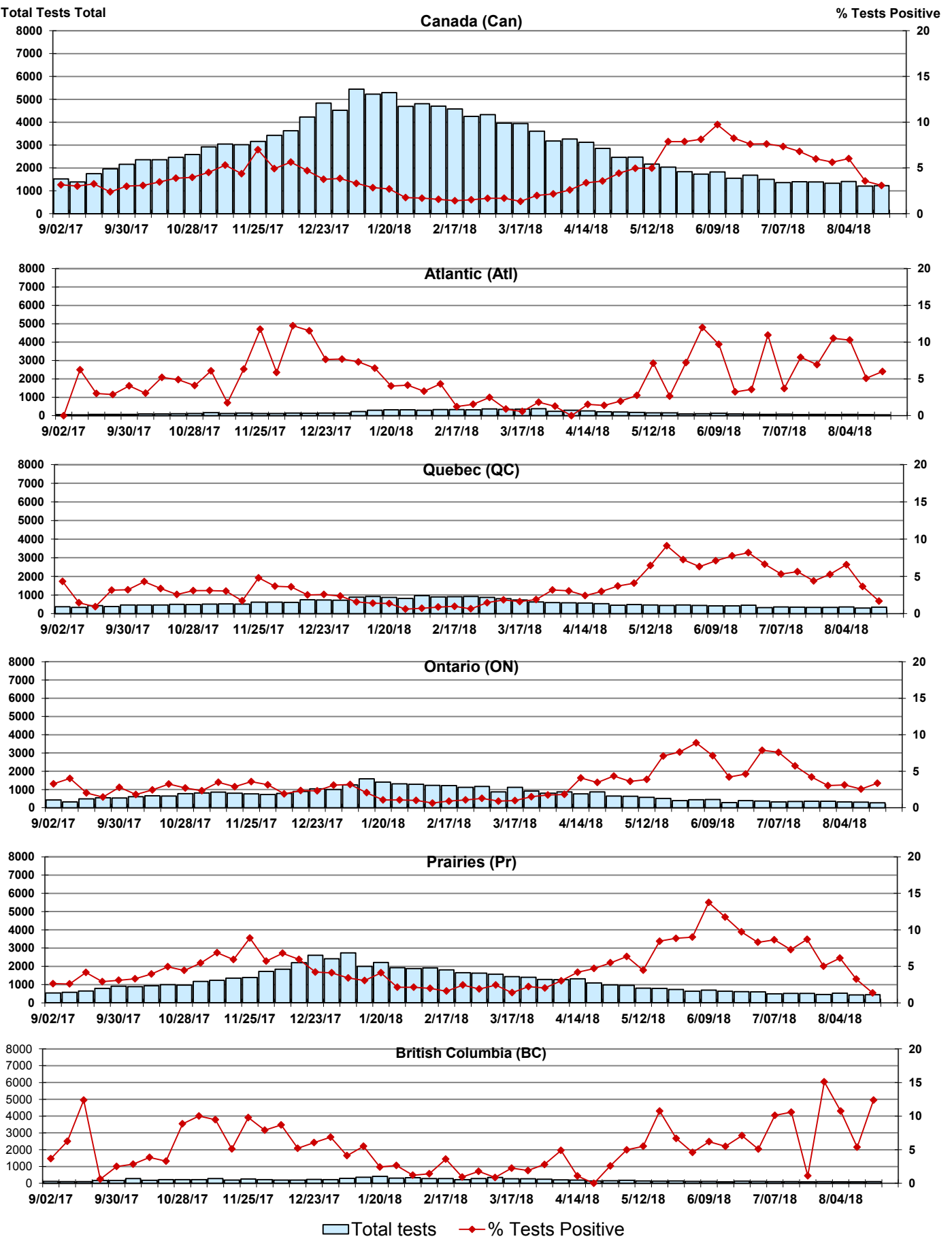


Figure 5: Positive Adenovirus (adeno) Tests (%) in Canada by Region by Week of Report

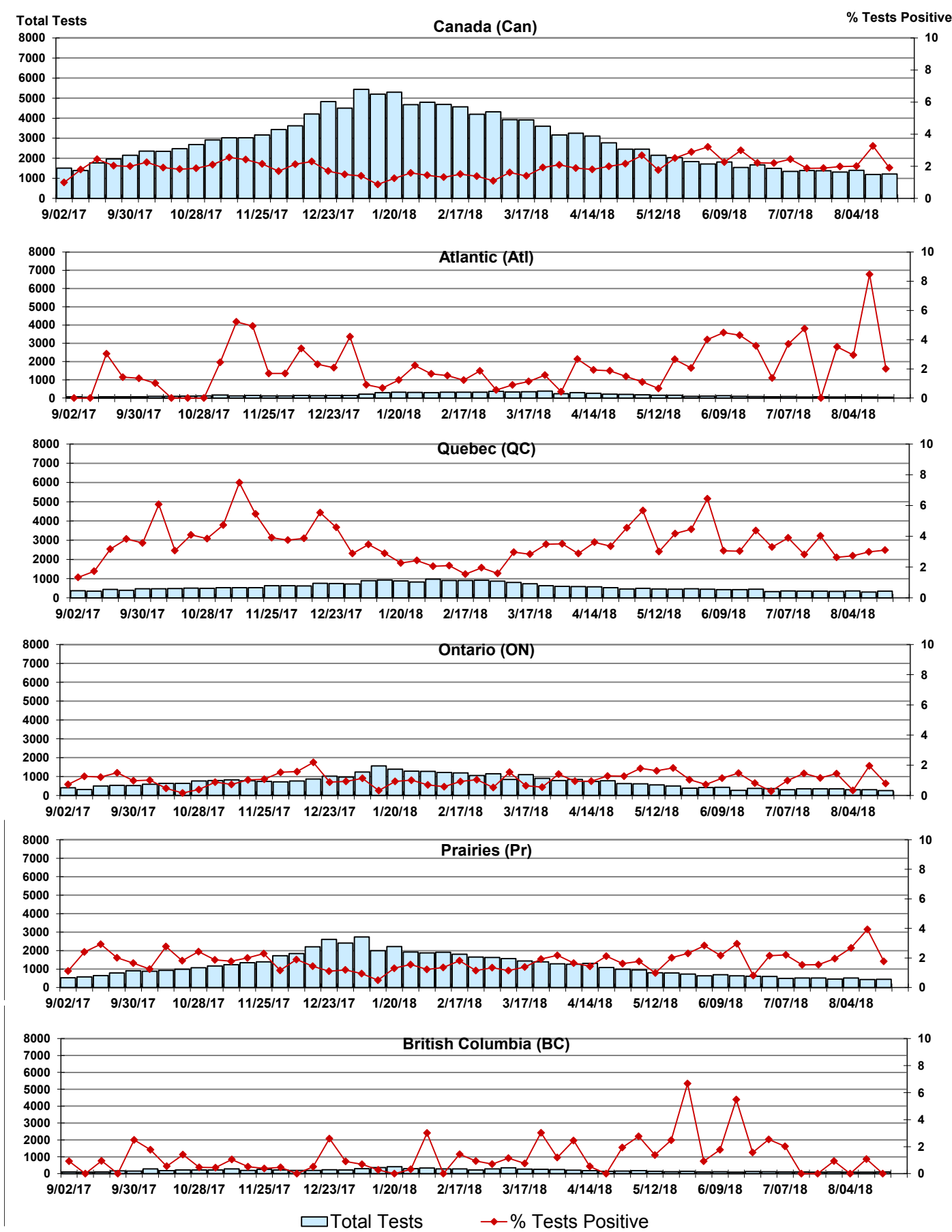


Figure 6: Positive human metapneumovirus (hMPV) Tests (%) in Canada by Region by Week of Report

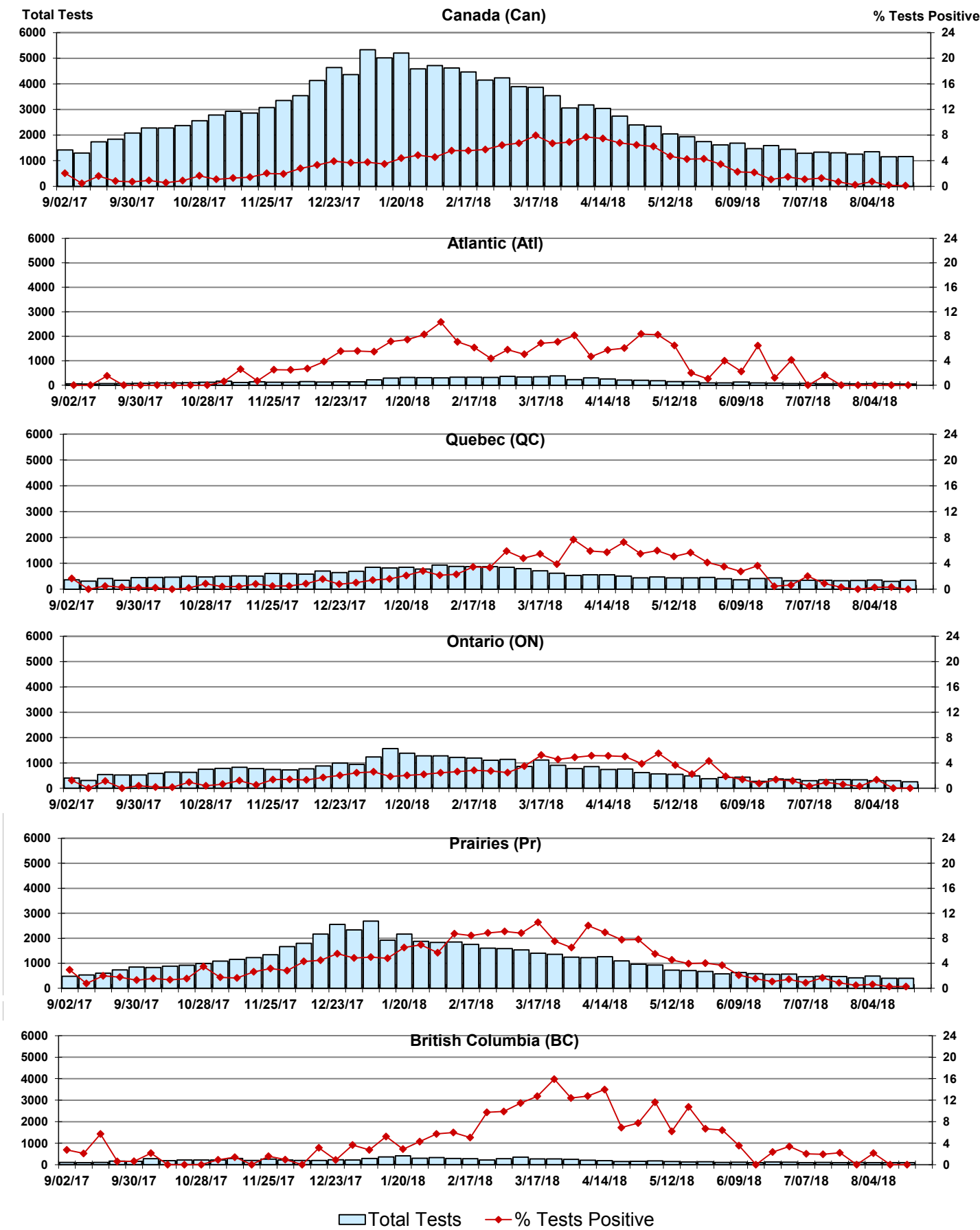


Figure 7: Positive Enterovirus/Rhinovirus (entero/rhino) Tests (%) in Canada by Region by Week of Report

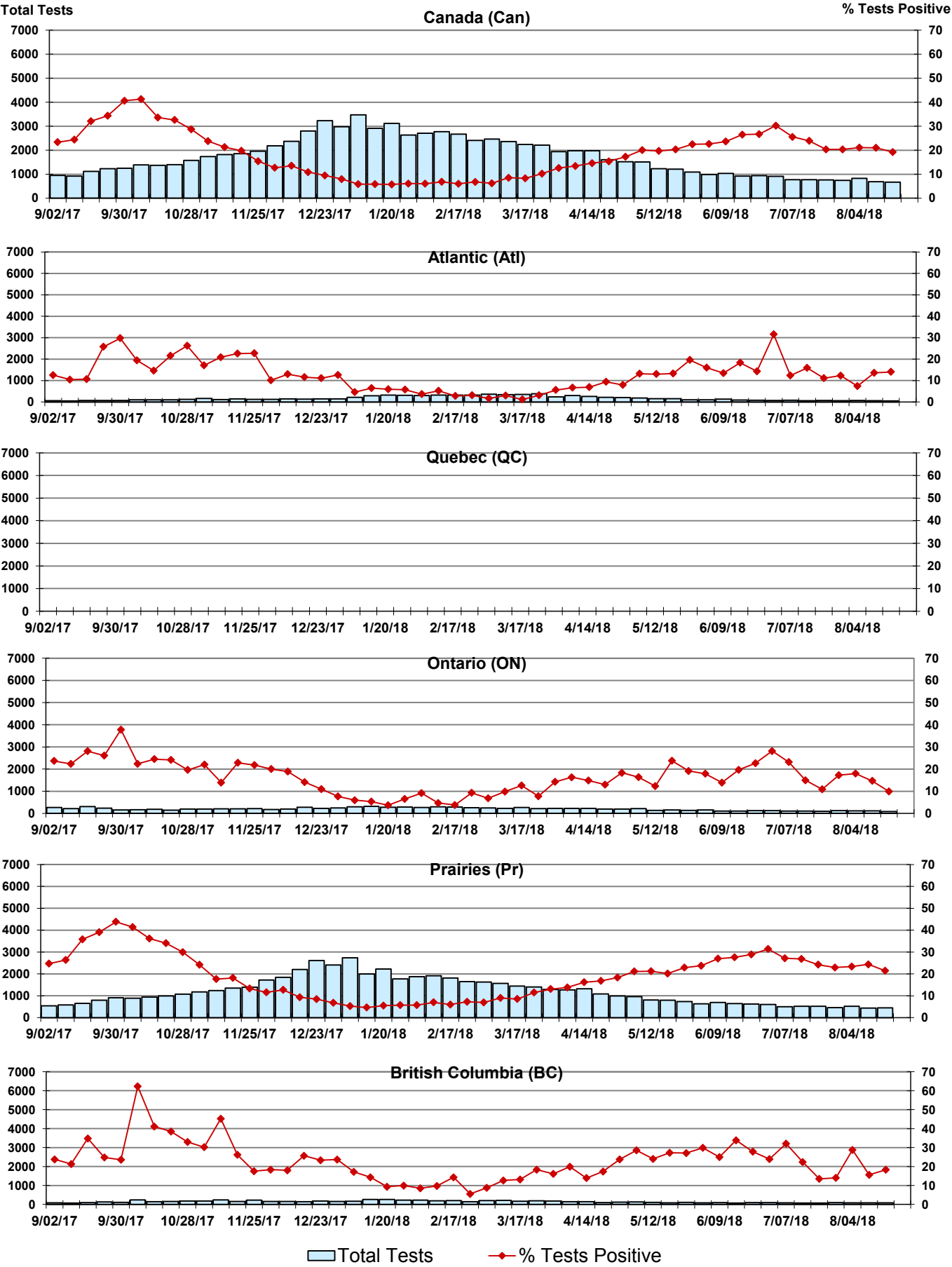
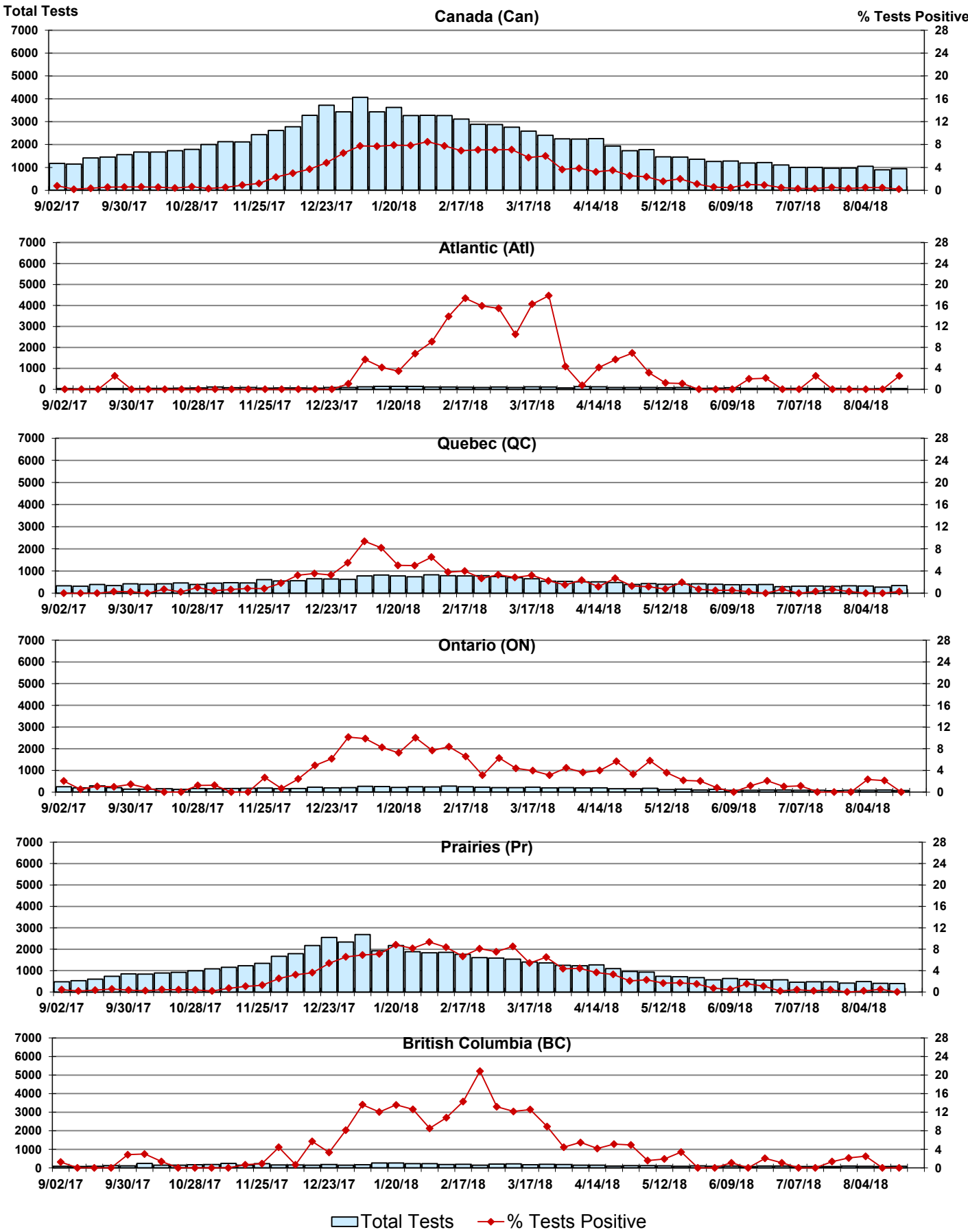


Figure 8: Positive Coronavirus (coron) Tests (%) in Canada by Region by Week of Report



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.

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