

ONTARIO CASES

Test Date	cases	Low	High	Outliers	Comments	Range	Limit	Outliers	Notes	Comments / CAP
20-Dec	2316	OK	OK							Dec 14 first vaccination - pfizer
21-Dec	2123	OK	OK			193	OK			
22-Dec	2202	OK	OK			79	OK			
23-Dec	2408	OK	OK			206	OK			Moderna vaccine approved; shut down
24-Dec	2447	OK	OK			39	OK			
25-Dec	2159	OK	OK			288	OK			Christmas Day
26-Dec	2143	OK	OK			16	OK			Boxing Day holiday
27-Dec	2005	OK	OK			138	OK			
28-Dec	1939	OK	OK			66	OK			
29-Dec	2553	OK	OK				Failed	614	increased	C: Christmas A: Shut down P: Vaccine
30-Dec	2923	OK	OK				Failed	370	increased	C: Christmas A: Shut down P: Vaccine
31-Dec	3328	OK	OK				Failed	405	increased	new years eve : Christmas A: Shut down P: Vaccine
1-Jan	2476	OK	OK				Failed	852	increased	new years day C: Christmas A: Shut down P: Vaccine
2-Jan	3363	OK	OK				Failed	887	increased	C: Christmas A: shut down P: vaccine
3-Jan	2964	OK	OK				Failed	399	dropped	C: Vaccine A: N/A P: N/A
4-Jan	3270	OK	OK				Failed	306	increased	C: Christmas A: Shut down P: Vaccine
5-Jan	3128	OK	OK			142	OK			
6-Jan	3266	OK	OK			138	OK			
7-Jan	3519	OK	OK			253	OK			
8-Jan	4249	OK	OK				Failed	730	increased	C: New Years A: shut down P: vaccine
9-Jan	3443	OK	OK				Failed	806	dropped	C: Vaccine A: N/A P: N/A
10-Jan	3945	OK	OK				Failed	502	increased	C: New Years A: shut down P: vaccine
11-Jan	3338	OK	OK				Failed	607	dropped	C: Vaccine A: N/A P: N/A
12-Jan	2903	OK	OK				Failed	435	dropped	C: Vaccine A: N/A P: N/A
13-Jan	2961	OK	OK			58	OK			
14-Jan	3326	OK	OK				Failed	365	increased	C: New Years A: shut down P: vaccine
15-Jan	2998	OK	OK				Failed	328	dropped	C: Vaccine A: N/A P: N/A
16-Jan	3056	OK	OK			58	OK			Ron's Birthday
17-Jan	3422	OK	OK				Failed	366	increased	C: New Years A: shut down P: vaccine
18-Jan	2578	OK	OK				Failed	844	increased	C: New Years A: shut down P: vaccine
19-Jan	1913	OK	OK				Failed	665	dropped	C: Vaccine A: N/A P: N/A
20-Jan	2655	OK	OK				Failed	742	increased	C: New Years A: shut down P: vaccine
21-Jan	2632	OK	OK			23	OK			
22-Jan	2662	OK	OK			30	OK			
23-Jan	2359	OK	OK				Failed	303	increased	C: New Years A: shut down P: vaccine
24-Jan	2417	OK	OK			58	OK			
25-Jan	1958	OK	OK				Failed	459	dropped	C: Vaccine A: N/A P: N/A
26-Jan	1740	OK	OK			218	OK			
27-Jan	1670	OK	OK			70	OK			
28-Jan	2093	OK	OK				Failed	423	increase	
29-Jan	1838	OK	OK			255	OK			
30-Jan	2063	OK	OK			225	OK			
31-Jan	1848	OK	OK			215	OK			

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1-Feb	1969	OK	OK			121	OK			
2-Feb	745	OK	OK				Failed	1224	dropped	C: Vaccine A: N/A P: N/A
3-Feb	1172	OK	OK				Failed	427	increase	
4-Feb	1563	OK	OK				Failed	391	increase	
5-Feb	1670	OK	OK			107	OK			
6-Feb	1388	OK	OK			282	OK			
7-Feb	1489	OK	OK			101	OK			
8-Feb	1265	OK	OK			224	OK			
9-Feb	1022	OK	OK			243	OK			
10-Feb	1072	OK	OK			50	OK			
11-Feb	1100	OK	OK			28	OK			
12-Feb	1076	OK	OK			24	OK			
13-Feb	1300	OK	OK			224	OK			
14-Feb	981	OK	OK				Failed	319	Dropped	C: Vaccine A: N/A P: N/A
15-Feb	961	OK	OK			20	OK			family day long weekend
16-Feb	904	OK	OK			57	OK			
17-Feb	847	OK	OK			57	OK			
18-Feb	1038	OK	OK			191	OK			
19-Feb	1150	OK	OK			112	OK			
20-Feb	1228	OK	OK			78	OK			
21-Feb	1087	OK	OK			141	OK			
22-Feb	1058	OK	OK			29	OK			
23-Feb	975	OK	OK			83	OK			
24-Feb	1054	OK	OK			79	OK			
25-Feb	1138	OK	OK			84	OK			
26-Feb	1258	OK	OK			120	OK			Astra Zeneca vaccine approved
27-Feb	1185	OK	OK			73	OK			
28-Feb	1062	OK	OK			123	OK			
1-Mar	1023	OK	OK			39	OK			
2-Mar	996	OK	OK			27	OK			
3-Mar	958	OK	OK			38	OK			
4-Mar	994	OK	OK			36	OK			
5-Mar	1250	OK	OK			256	OK			
6-Mar	990	OK	OK			260	OK			
7-Mar	1255	OK	OK			265	OK			
8-Mar	1631	OK	OK				Failed	376		
9-Mar	1185	OK	OK				Failed	446		C: Vaccine A: N/A P: N/A
10-Mar	1316	OK	OK			131	OK			
11-Mar	1092	OK	OK			224	OK			
12-Mar	1371	OK	OK			279	OK			
13-Mar	1468	OK	OK			97	OK			
14-Mar	1747	OK	OK			279	OK			
15-Mar	1268	OK	OK				Failed	479	dropped	C: Vaccine A: N/A P: N/A
16-Mar	1074	OK	OK			194	OK			

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17-Mar	1508	OK	OK				Failed	434	increase	
18-Mar	1553	OK	OK			45	OK			
19-Mar	1745	OK	OK			192	OK			
20-Mar	1829	OK	OK			84	OK			
21-Mar	1791	OK	OK			38	OK			
22-Mar	1699	OK	OK			92	OK			
23-Mar	1546	OK	OK			153	OK			
24-Mar	1571	OK	OK			25	OK			
25-Mar	2380	OK	OK				Failed	809	increase	
26-Mar	2169	OK	OK			211	OK			
27-Mar	2453	OK	OK			284	OK			
28-Mar	2448	OK	OK			5	OK			
29-Mar	2094	OK	OK				Failed	354	dropped	C: Vaccine A: N/A P: N/A
30-Mar	2366	OK	OK			272	OK			
31-Mar	2333	OK	OK			33	OK			
1-Apr	2557	OK	OK			224	OK			Provincial Shut down
2-Apr	3089	OK	OK				Failed	532	increase	Good friday long week end
3-Apr	3009	OK	OK			80	OK			
4-Apr	3041	OK	OK			32	OK			Easter Sunday long weekend
5-Apr	2938	OK	OK			103	OK			
6-Apr	3065	OK	OK			127	OK			
7-Apr	3215	OK	OK			150	OK			
8-Apr	3295	OK	OK			80	OK			
9-Apr	4227	OK	OK				Failed	932	increase	C: Easter weekend A: Shut down P: vaccine
10-Apr	3813	OK	OK				Failed	414	dropped	Provincial shutdown Extended
11-Apr	4456	OK	OK				Failed	643	dropped	Ramadam starts - month long C:Vaccine A: NA P:NA
12-Apr	4401	OK	OK			55	OK			
13-Apr	3670	OK	OK				Failed	731	dropped	C: Vaccine A: N/A P: N/A
14-Apr	4156	OK	OK				Failed	486	dropped	C: Vaccine A: N/A P: N/A
15-Apr	4736	OK	OK				Failed	580	increase	C: Easter Weekend A: Shut down P: vaccine
16-Apr	4812	OK	OK	Apex		76	OK			
17-Apr	4362	OK	OK				Failed	450	dropped	C: Vaccine A: N/A P: N/A
18-Apr	4250	OK	OK			112	OK			
19-Apr	4447	OK	OK			197	OK			
20-Apr	3469	OK	OK				Failed	978	increase	vaccine 40+ C: Ramadam/Easter A: Shut down P:Vaccine
21-Apr	4212	OK	OK				Failed	743	increase	C: Ramadam A: shut down P: vaccine
22-Apr	3683	OK	OK				Failed	529	increase	C: Ramadam A: shut down P: vaccine
23-Apr	4505	OK	OK				Failed	822	dropped	C: Vaccine A: N/A P: N/A
24-Apr	4094	OK	OK				Failed	411	dropped	C: Vaccine A: N/A P: N/A
25-Apr	3947	OK	OK			147	OK			
26-Apr	3510	OK	OK				Failed	437	increase	C: Ramadam A: shut down P: vaccine
27-Apr	3265	OK	OK			245	OK			
28-Apr	3480	OK	OK			215	OK			
29-Apr	3871	OK	OK				Failed	391	dropped	C: Vaccine A: N/A P: N/A

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30-Apr	3887	OK	OK			16	OK			
1-May	3369	OK	OK				Failed	518	dropped	C: Vaccine A: N/A P: N/A
2-May	3732	OK	OK				Failed	363	increase	C: Ramadam A: shut down P: vaccine
3-May	3436	OK	OK				Failed	296	dropped	C: Vaccine A: N/A P: N/A
4-May	2791	OK	OK				Failed	645	increase	C: Ramadam A: shut down P: vaccine
5-May	2941	OK	OK			150	OK			
6-May	3887	OK	OK				Failed	946	increase	C: Ramadam A: shut down P: vaccine
7-May	3166	OK	OK				Failed	721	dropped	C: Vaccine A: N/A P: N/A
8-May	2864	OK	OK				Failed	302	increase	C: Ramadam A: shut down P: vaccine
9-May	3216	OK	OK				Failed	352	dropped	C: Vaccine A: N/A P: N/A
10-May	2761	OK	OK				Failed	455	dropped	Ramadam ends - month long; C:Vaccine N/A P: N/A
11-May	2073	OK	OK				Failed	688	increase	C: Ramadam A: shut down P: vaccine
12-May	2320	OK	OK			247	OK			
13-May	2759	OK	OK				Failed	439	increase	C: Ramadam A: shut down P: vaccine
14-May	2362	OK	OK				Failed	397	dropped	C: Vaccine A: N/A P: N/A
15-May	2584	OK	OK			222	OK			
16-May	2199	OK	OK				Failed	385	dropped	36 hour vaccine clinic Brampton
17-May	2170	OK	OK			29	OK			
18-May	1616	OK	OK				Failed	554	dropped	C: Vaccine A: N/A P: N/A
19-May	1588	OK	OK			28	OK			Ramadan ends
20-May	2400	OK	OK				Failed	812	increase	C:Ramadam A:shutdown P:vaccine
21-May	1890	OK	OK				Failed	510	dropped	outdoor reopening May 22nd; C: Vaccine A: NA P: NA
22-May	1794	OK	OK			96	OK			
23-May	1691	OK	OK			103	OK			
24-May	1446	OK	OK			245	OK			Victoria Day long weekend
25-May	1039	OK	OK				Failed	407	dropped	C: Vaccine A: N/A P: N/A
26-May	1095	OK	OK			56	OK			
27-May	1135	OK	OK			40	OK			
28-May	1273	OK	OK			138	OK			
29-May	1057	OK	OK			216	OK			
30-May	1033	OK	OK			24	OK			
31-May	916	OK	OK			117	OK			
1-Jun	699	OK	OK			217	OK			
2-Jun	733	OK	OK			34	OK			
3-Jun	870	OK	OK			137	OK			
4-Jun	914	OK	OK			44	OK			
5-Jun	744	OK	OK			170	OK			
6-Jun	663	OK	OK			81	OK			
7-Jun	525	OK	OK			138	OK			
8-Jun	469	OK	OK			56	OK			
9-Jun	411	OK	OK			58	OK			
10-Jun	590	OK	OK			179	OK			
11-Jun	574	OK	OK			16	OK			stage 1 reopening
12-Jun	502	OK	OK			72	OK			

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13-Jun	530	OK	OK			28	OK			
14-Jun	447	OK	OK			83	OK			
15-Jun	296	OK	OK			151	OK			
16-Jun	384	OK	OK			88	OK			
17-Jun	370	OK	OK			14	OK			
18-Jun	345	OK	OK			25	OK			
19-Jun	355	OK	OK			10	OK			
20-Jun	318	OK	OK			37	OK			
21-Jun	270	OK	OK			48	OK			
22-Jun	296	OK	OK			26	OK			
23-Jun	255	OK	OK			41	OK			
24-Jun	296	OK	OK			41	OK			
25-Jun	256	OK	OK			40	OK			
26-Jun	346	OK	OK			90	OK			
27-Jun	287	OK	OK			59	OK			
28-Jun	210	OK	OK			77	OK			
29-Jun	299	OK	OK			89	OK			90 cases in TO prev period
30-Jun	184	OK	OK			115	OK			Stage 2 starts
1-Jul	284	OK	OK			100	OK			Canada Day long weekend
2-Jul	200	OK	OK			84	OK			
3-Jul	209	OK	OK			9	OK			
4-Jul	213	OK	OK			4	OK			
5-Jul	170	OK	OK			43	OK			
6-Jul	244	OK	OK			74	OK			80 cases prev period
7-Jul	194	OK	OK			50	OK			
8-Jul	210	OK	OK			16	OK			
9-Jul	183	OK	OK			27	OK			
10-Jul	179	OK	OK			4	OK			
11-Jul	166	OK	OK			13	OK			
12-Jul	114	OK	OK			52	OK			
13-Jul	146	OK	OK			32	OK			
14-Jul	153	OK	OK			7	OK			
15-Jul	143	OK	OK			10	OK			
16-Jul	159	OK	OK			16	OK			stage 3 starts; Ontario partial opening
17-Jul	176	OK	OK			17	OK			
18-Jul	177	OK	OK			1	OK			
19-Jul	130	OK	OK			47	OK			
20-Jul	127	OK	OK			3	OK			
21-Jul	135	OK	OK			8	OK			
22-Jul	185	OK	OK			50	OK			
23-Jul	192	OK	OK			7	OK			
24-Jul	170	OK	OK			22	OK			
25-Jul	172	OK	OK		run failure increase	2	OK	increase		C: Delta mutation A: wear mask P: Vaccine
26-Jul	113	OK	OK			59	OK			

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27-Jul	129	OK	OK			16	OK			
28-Jul	158	OK	OK			29	OK			
29-Jul	218	OK	OK			60	OK			
30-Jul	226	OK	OK			8	OK			
31-Jul	258	OK	OK		run failure increase	32	OK		increase	C: Delta mutation A: wear mask P: Vaccine
1-Aug	218	OK	OK			40	OK			
2-Aug	168	OK	OK			50	OK			civic day holiday long weekend
3-Aug	164	OK	OK			4	OK			
4-Aug	139	OK	OK			25	OK			
5-Aug	213	OK	OK			74	OK			
6-Aug	340	OK	OK			127	OK			
7-Aug	378	OK	OK			38	OK			
8-Aug	423	OK	OK			45	OK			
9-Aug	325	OK	OK			98	OK			
10-Aug	321	OK	OK			4	OK			
11-Aug	324	OK	OK			3	OK			
12-Aug	513	OK	OK			189	OK			
13-Aug	510	OK	OK			3	OK			
14-Aug	578	OK	OK			68	OK			
15-Aug	511	OK	OK			67	OK			
16-Aug	526	OK	OK			15	OK			
17-Aug	348	OK	OK			178	OK			
18-Aug	485	OK	OK			137	OK			
19-Aug	531	OK	OK			46	OK			
20-Aug	650	OK	OK			119	OK			
21-Aug	689	OK	OK			39	OK			
22-Aug	722	OK	OK		run failure increase	33	OK		increase	C: Delta mutation A: wear mask P: Vaccine
23-Aug	639	OK	OK			83	OK			
24-Aug	486	OK	OK			153	OK			
25-Aug	660	OK	OK			174	OK			
26-Aug	678	OK	OK			18	OK			
27-Aug	781	OK	OK			103	OK			
28-Aug	835	OK	OK			54	OK			
29-Aug	740	OK	OK			95	OK			
30-Aug	694	OK	OK			46	OK			
31-Aug	525	OK	OK			169	OK			
1-Sep	656	OK	OK			131	OK			
2-Sep	865	OK	OK			209	OK			
3-Sep	807	OK	OK			58	OK			
4-Sep	944	OK	OK			137	OK			
5-Sep	811	OK	OK			133	OK			
6-Sep	581	OK	OK			230	OK			Labour day holiday long weekend
7-Sep	564	OK	OK			17	OK			
8-Sep	554	OK	OK			10	OK			

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9-Sep	798	OK	OK			244	OK			
10-Sep	848	OK	OK			50	OK			
11-Sep	857	OK	OK			9	OK			
12-Sep	784	OK	OK			73	OK			
13-Sep	600	OK	OK			184	OK			
14-Sep	577	OK	OK			23	OK			
15-Sep	593	OK	OK			16	OK			
16-Sep	864	OK	OK			271	OK			
17-Sep	795	OK	OK			69	OK			
18-Sep	821	OK	OK			26	OK			
19-Sep	715	OK	OK			106	OK			
20-Sep	610	OK	OK			105	OK			
21-Sep	574	OK	OK			36	OK			
22-Sep	463	OK	OK			111	OK			Vaccine certificate required
23-Sep	677	OK	OK			214	OK			
24-Sep	727	OK	OK			50	OK			
25-Sep	640	OK	OK			87	OK			
26-Sep	653	OK	OK			13	OK			
27-Sep	613	OK	OK			40	OK			
28-Sep	466	OK	OK			147	OK			
29-Sep	495	OK	OK			29	OK			
30-Sep	647	OK	OK			152	OK			
1-Oct	668	OK	OK			21	OK			
2-Oct	704	OK	OK			36	OK			
3-Oct	580	OK	OK			124	OK			
4-Oct	511	OK	OK			69	OK			
5-Oct	429	OK	OK			82	OK			
6-Oct	476	OK	OK			47	OK			
7-Oct	587	OK	OK			111	OK			
8-Oct	573	OK	OK			14	OK			
9-Oct	654	OK	OK			81	OK			
10-Oct	535	OK	OK			119	OK			
11-Oct	458	OK	OK			77	OK			Thanks giving day holiday long weekend
12-Oct	390	OK	OK			68	OK			
13-Oct	306	OK	OK		run failure dropped	84	OK		dropped	C: Vaccine A: N/A P: N/A
14-Oct	417	OK	OK			111	OK			
15-Oct	496	OK	OK			79	OK			
16-Oct	486	OK	OK			10	OK			
17-Oct	443	OK	OK			43	OK			
18-Oct	373	OK	OK			70	OK			
19-Oct	328	OK	OK			45	OK			
20-Oct	304	OK	OK			24	OK			
21-Oct	413	OK	OK			109	OK			
22-Oct	492	OK	OK			79	OK			

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23-Oct	373	OK	OK			119	OK			
24-Oct	370	OK	OK			3	OK			
25-Oct	326	OK	OK			44	OK			Some restrictions lifted
26-Oct	269	OK	OK			57	OK			
27-Oct	321	OK	OK			52	OK			
28-Oct	409	OK	OK			88	OK			
29-Oct	419	OK	OK			10	OK			
30-Oct	356	OK	OK			63	OK			Halloween weekend
31-Oct	340	OK	OK			16	OK			
1-Nov	422	OK	OK			82	OK			
2-Nov	331	OK	OK			91	OK			
3-Nov	378	OK	OK			47	OK			
4-Nov	438	OK	OK			60	OK			
5-Nov	563	OK	OK			125	OK			
6-Nov	508	OK	OK			55	OK			
7-Nov	636	OK	OK			128	OK			
8-Nov	480	OK	OK			156	OK			
9-Nov	441	OK	OK			39	OK			
10-Nov	454	OK	OK			13	OK			
11-Nov	642	OK	OK			188	OK			Remembrance day
12-Nov	598	OK	OK			44	OK			
13-Nov	661	OK	OK			63	OK			
14-Nov	666	OK	OK			5	OK			
15-Nov	552	OK	OK			114	OK			
16-Nov	481	OK	OK			71	OK			
17-Nov	512	OK	OK			31	OK			
18-Nov	711	OK	OK			199	OK			
19-Nov	793	OK	OK			82	OK			Diwali Night
20-Nov	728	OK	OK			65	OK			
21-Nov	741	OK	OK			13	OK			
22-Nov	627	OK	OK			114	OK			
23-Nov	613	OK	OK			14	OK			
24-Nov	591	OK	OK			22	OK			
25-Nov		OK	OK			591	Failed			
26-Nov		OK	OK			0	OK			
27-Nov		OK	OK			0	OK			
28-Nov		OK	OK			0	OK			
29-Nov		OK	OK			0	OK			
30-Nov		OK	OK			0	OK			
1-Dec		OK	OK			0	OK			

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Sum	460581					283		63		pop = 14.57 million
Mean	1354.65					89.60		548.19		percent of population infected
Standard Deviation	1194.12							207.33		3.16
Kurtosis	0.02	normal						0.49	normal	
Skew	1.07	not normal						1.01	not normal	
CP	1.1									
CPK	0.6									
	Bin									
Upper Control Limit	4937.02									
	3742.90									
	2548.77									
	1354.65									
	160.53									
	-1033.60									
Lower Control Limit	-2227.72	flu not covid								