

## ONTARIO CASES

Test Date	ONT CASES	Low	High	Outliers	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 + Week holiday
26-Dec	2143	OK	OK		16	OK			Boxing Day
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		306	OK			
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		303	OK			
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	

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29-Jan	1838	OK	OK		255	OK			
30-Jan	2063	OK	OK		225	OK			
31-Jan	1848	OK	OK		215	OK			
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			OK	319		C: Vaccine A: N/A P: N/A family day long weekend
15-Feb	961	OK	OK		20	OK			
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		C: Vaccine A: N/A P: N/A
9-Mar	1185	OK	OK			Failed	446		
10-Mar	1316	OK	OK		131	OK			

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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			
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			Provincial Shut down
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		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

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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
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		296	OK			
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		302	OK			
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			

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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			
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			

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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			
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	2	OK			
26-Jul	113	OK	OK		59	OK			
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	32	OK			
1-Aug	218	OK	OK		40	OK			
2-Aug	168	OK	OK		50	OK			
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			

bifrucation  
stage 3 starts; Ontario partial opening  
new bell cuve forming

increase  
C: Delta mutation A: wear mask P: Vaccine

increase  
C: Delta mutation A: wear mask P: Vaccine

civic day holiday long weekend

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22-Aug	722	OK	OK	run failure	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	run stop	95	OK			
30-Aug	694	OK	OK		46	OK			
31-Aug		OK	OK		694	Failed			
1-Sep		OK	OK		0	OK			
2-Sep		OK	OK		0	OK			
3-Sep		OK	OK		0	OK			
4-Sep		OK	OK		0	OK			
5-Sep		OK	OK		0	OK			
6-Sep		OK	OK		0	OK			Labour day holiday long weekend

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Count/Sum	254				201				
Mean	1622.38				98.22				
Standard Deviation	1271.90								
Kurtosis	-0.72	normal							
Skew	0.63	normal							
CP	1.1								
CPK	0.6								
	<b>Bin</b>								
Upper Control Limit	5438.07								
	4166.17								
	2894.28								
	1622.38								
	350.48								
	-921.42								
Lower Control Limit	-2193.31								