

Day# SQRT(2) = 1.4142

NZ Delta variant

$R_o = n * r^{(n+1)} * (r - 1) / (r^n - 1)$

$C = ar^d + c$        $n = \text{number of infectious days (n=10)}$

Ro & Re	d	n = 10	f				
a			f	f	f	f	
c			Total	Total	Total	Total	
r		Actual	Est C	Est	Est	Est	
	1.414214	Cases					
Tuesday, 10 August 2021	0	1.160	1				
Wednesday, 11 August 2021	1	1.640					
Thursday, 12 August 2021	2	2.320	2				
Friday, 13 August 2021	3	3.281	3				
Saturday, 14 August 2021	4	4.640					
Sunday, 15 August 2021	5	6.562					
Monday, 16 August 2021	6	9.280					
Tuesday, 17 August 2021	7	13.124					
Wednesday, 18 August 2021	8	18.560	10				
Thursday, 19 August 2021	9	26.248	20				
Friday, 20 August 2021	10	37.120	30				
Saturday, 21 August 2021	11	52.496	51	107.1	99.7	110.2	120.7
Sunday, 22 August 2021	12	74.240	72	151.2	141.1	155.9	170.8
Monday, 23 August 2021	13	104.991	107	224.7	199.5	220.5	241.5
Tuesday, 24 August 2021	14	148.480	148	310.8	282.1	311.8	341.5
Wednesday, 25 August 2021	15	209.982	210	441	399.0	441.0	483.0
Thursday, 26 August 2021	16	296.960		0	564.2	623.6	683.0
Friday, 27 August 2021	17	419.965		0	797.9	881.9	965.9
Saturday, 28 August 2021	18	593.920		0	1128.4	1247.2	1366.0
Sunday, 29 August 2021	19	839.930		0	1595.9	1763.9	1931.8
Monday, 30 August 2021	20	1187.840		0	2256.9	2494.5	2732.0
Tuesday, 31 August 2021	21	1679.859		0	3191.7	3527.7	3863.7
Wednesday, 1 September 2021	22	2375.680		0	4513.8	4988.9	5464.1

Total Case Numbers

Midpoint reached	Low	Mid	High
Saturday, 28 August 2021	1100	1250	1350
Sunday, 29 August 2021	1600	1750	2000
Monday, 30 August 2021	2250	2500	2700

Alan Grace

Thursday, 26 August 2021