

Cum +Cases		Daily Change	
789 994		2 292	
Active +Cases	+Cases per mill PoP	Deaths per mill PoP	
35 586	13 320	363,3	
Deaths Avg Age	Deaths Min Age	Deaths Max Age	
61,9	0,2	105	

RSA COVID-19 DASHBOARD

01 December 2020

Cum Deaths

21 547 **58**

Cases Deaths CFR %

Female : 59,2% 48,7% 1,72%

Male : 41,8% 51,3% 2,39%

30-Oct

% +Cases who Died (CFR)

2,73%

% of RSA PoP who Died (CMR)

0,0363%

Deaths Median Age

63,2

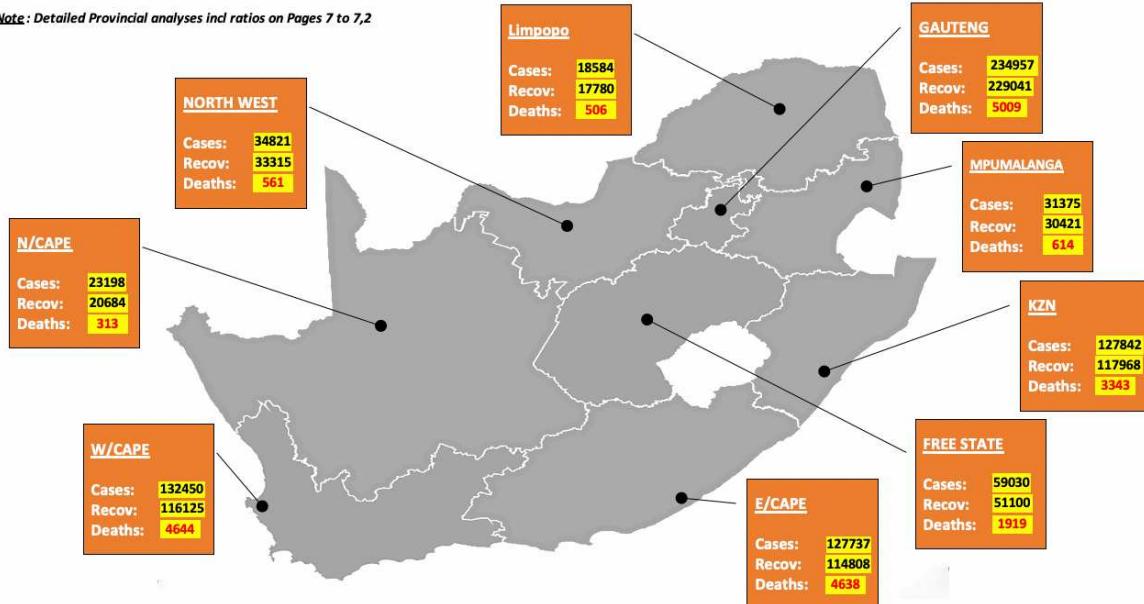
Cum Recoveries

731 242

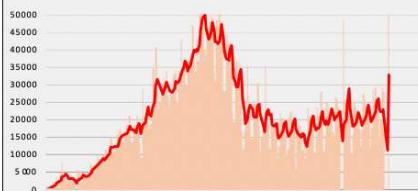
Cum Tests

5 519 167

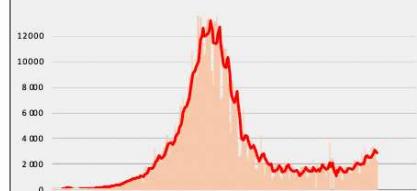
Note: Detailed Provincial analyses incl ratios on Pages 7 to 7,2



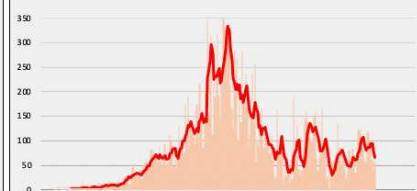
RSA Daily New Tests 5 day MA



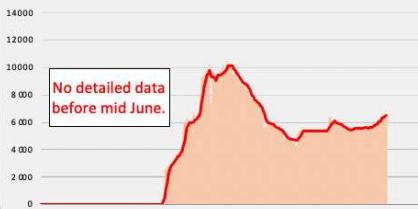
RSA Daily New Cases 5 day MA



RSA Daily New Deaths 5 day MA



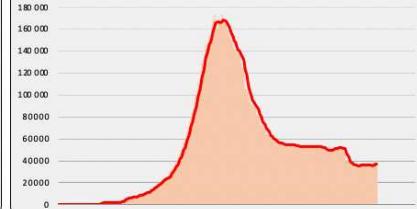
RSA Current Hospitalisations 5 day MA



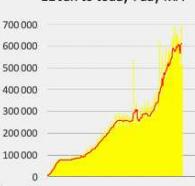
RSA Daily Recovered Cases 5 day MA



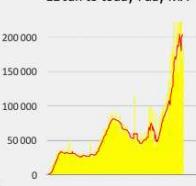
RSA Daily Still Active Cases 5 day MA



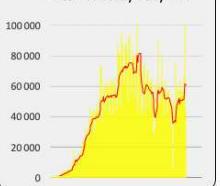
World Daily New Cases
11 Jan to today 7day MA



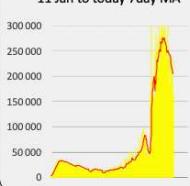
N/America Daily New Cases
11 Jan to today 7day MA



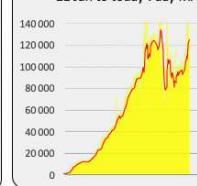
S/America Daily New Cases
11 Jan to today 7day MA



Europe Daily New Cases
11 Jan to today 7day MA



Asia Daily New Cases
11 Jan to today 7day MA



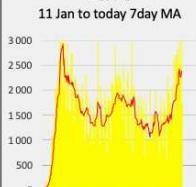
Africa Daily New Cases
11 Jan to today 7day MA



World Daily New Deaths
11 Jan to today 7day MA



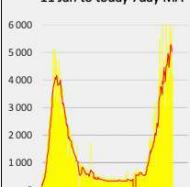
N/America Daily New Deaths
11 Jan to today 7day MA



S/America Daily New Deaths
11 Jan to today 7day MA



Europe Daily New Deaths
11 Jan to today 7day MA

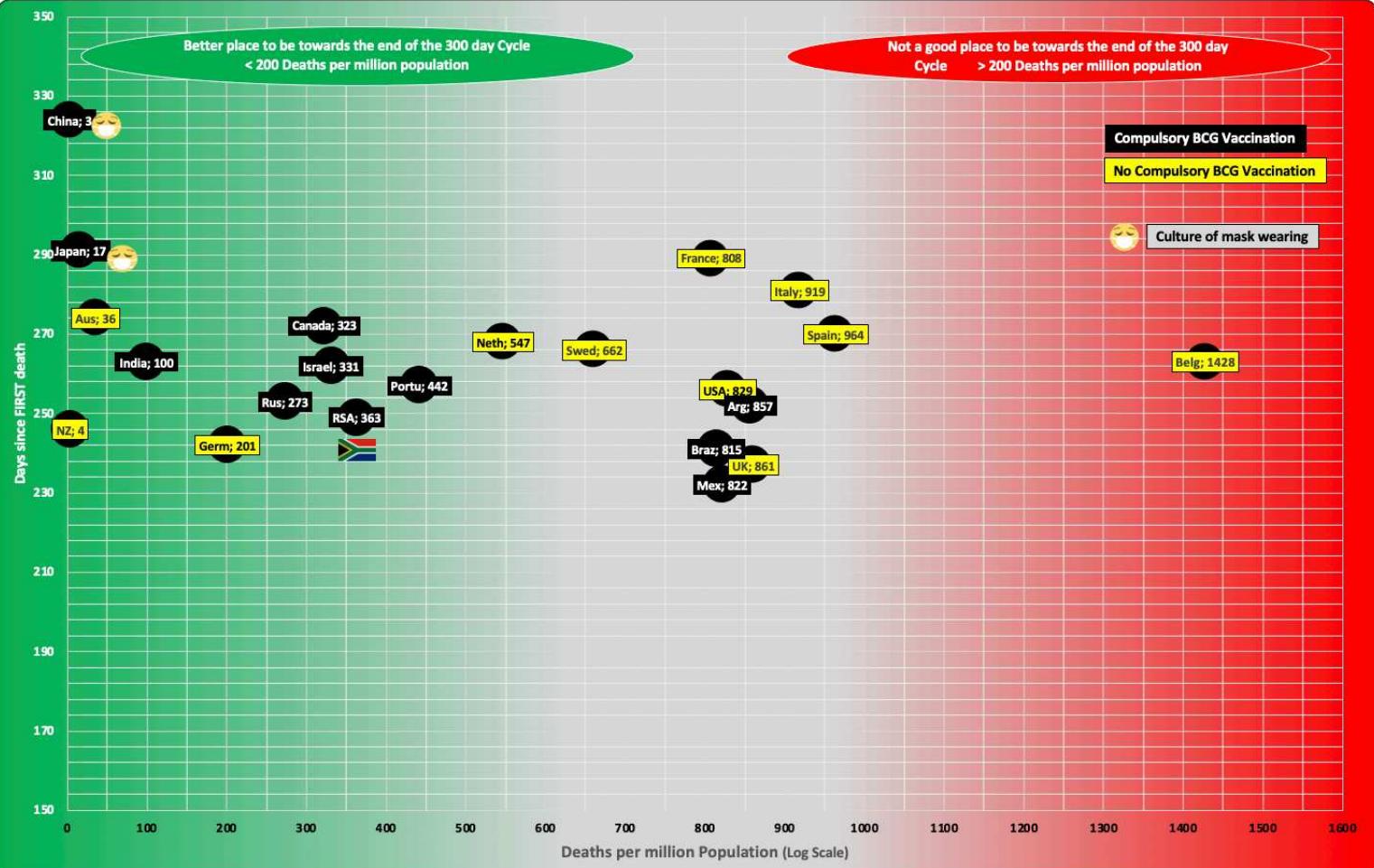


Asia Daily New Deaths
11 Jan to today 7day MA



Africa Daily New Deaths
11 Jan to today 7day MA

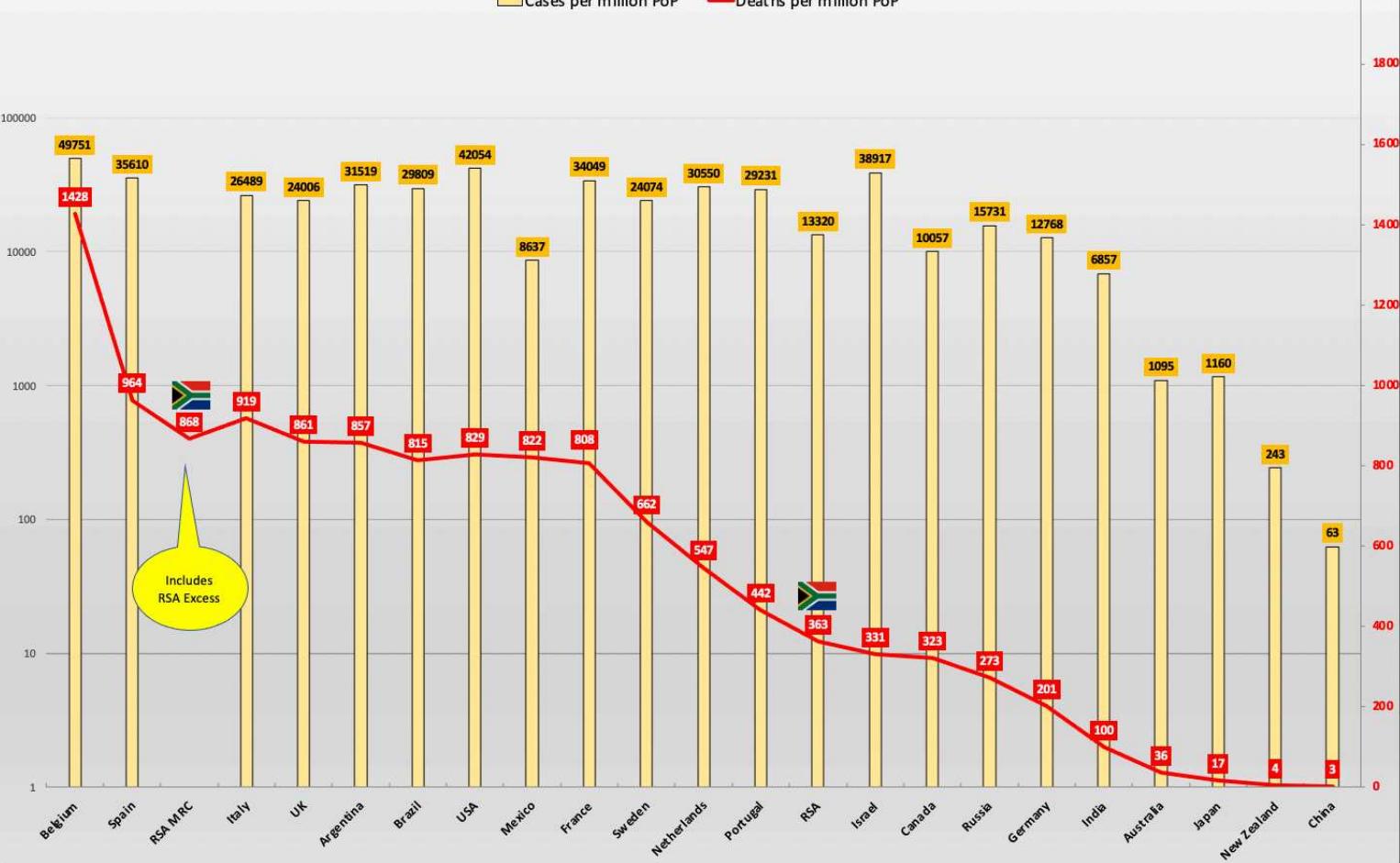




Current Cum Cases & Cum Deaths per million PoP

(Two axes primary Y Log 2nd Y Linear)

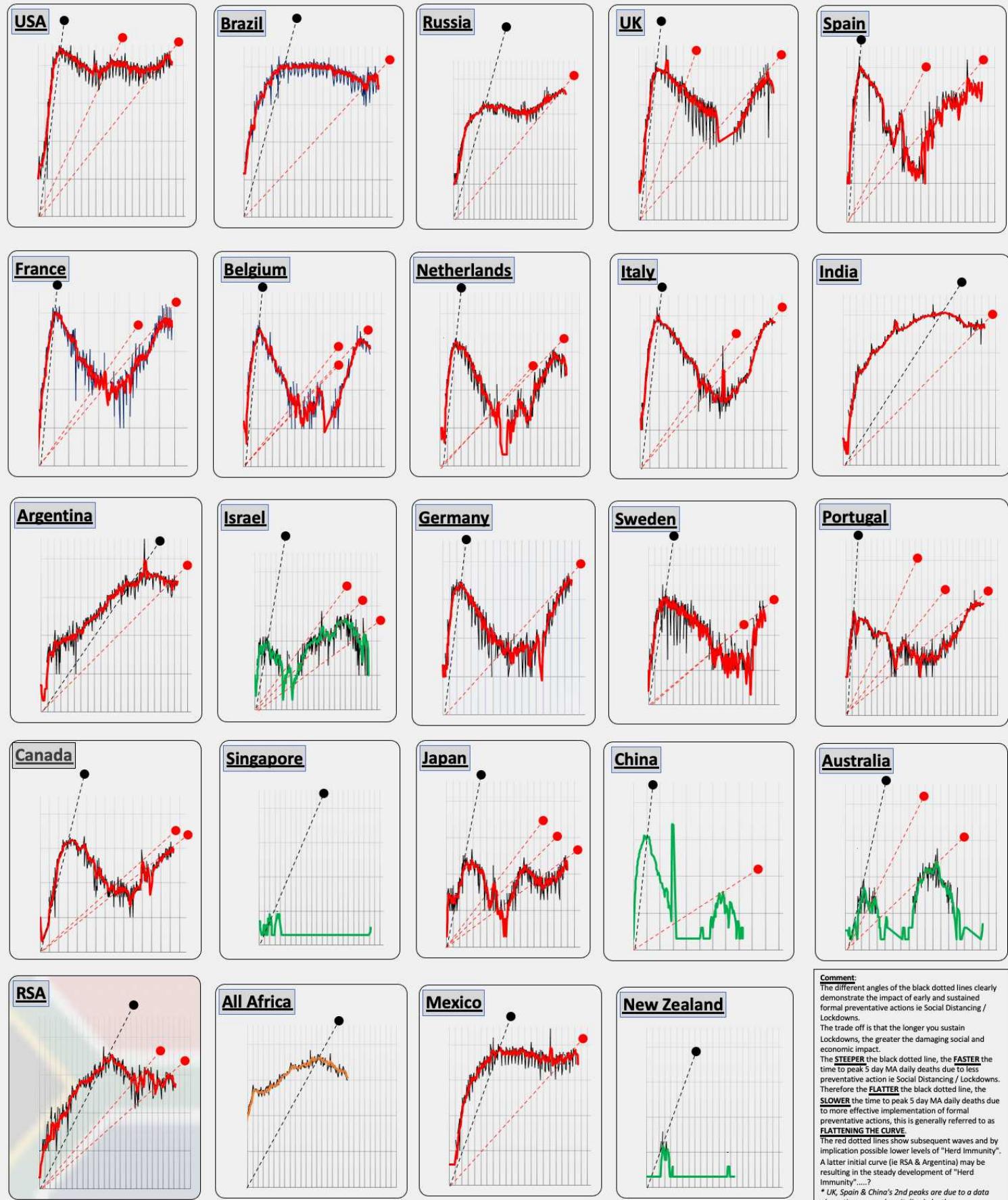
Cases per million PoP — Deaths per million PoP



Daily Deaths Curves & Rate of Onset and next Wave "Inclinometers"

5 day MA Trendline from date of 1st death (all on Log Scale)

- Peaked but spiking again
 - Passed peak but could rebound OR 2nd wave
 - Well past peak, unlikely to rebound
- | | |
|---|-----------------|
| ● | Onset/1st wave |
| ● | 2nd & 3rd waves |

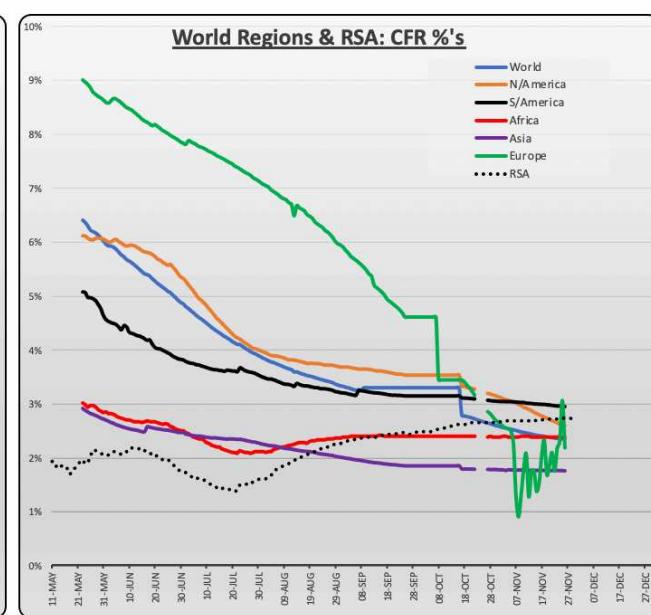
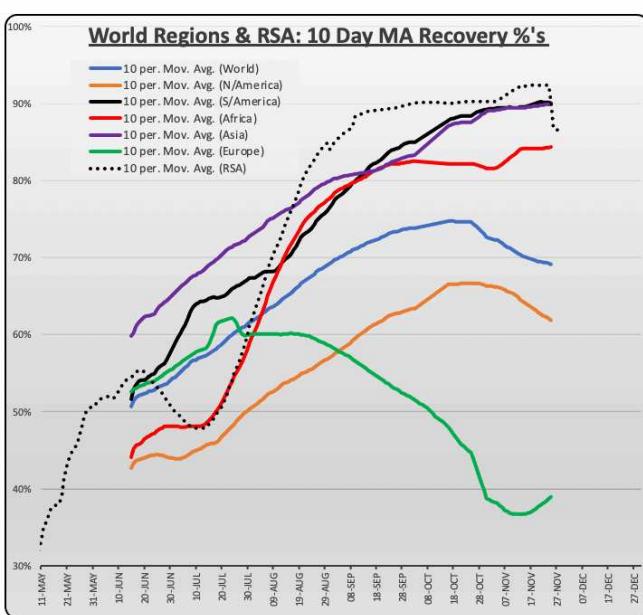
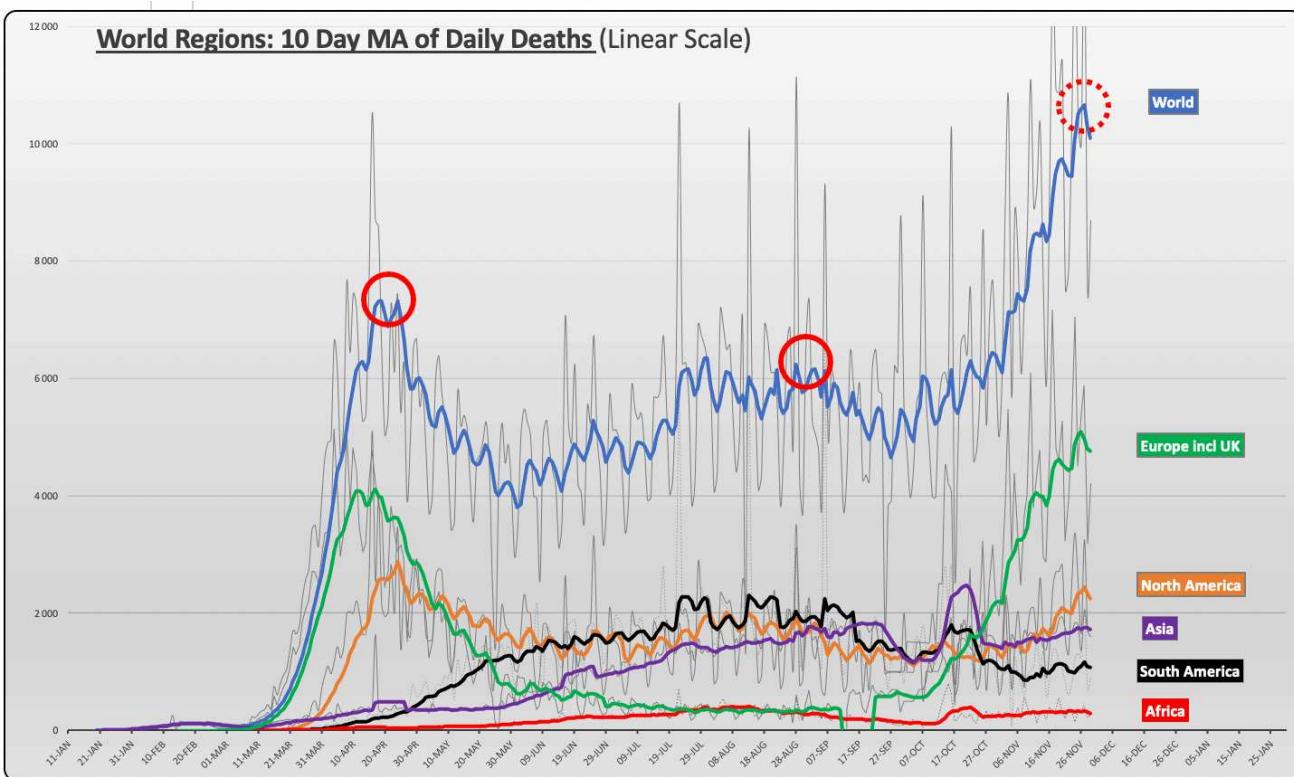
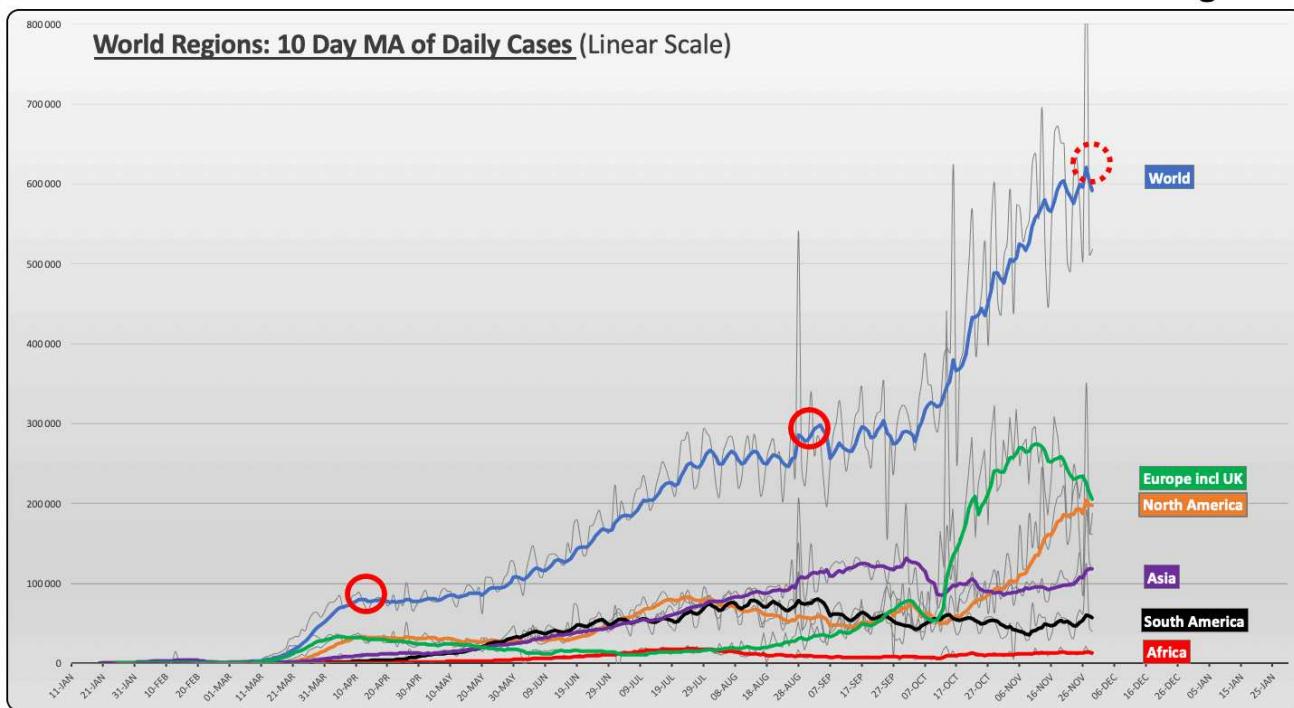


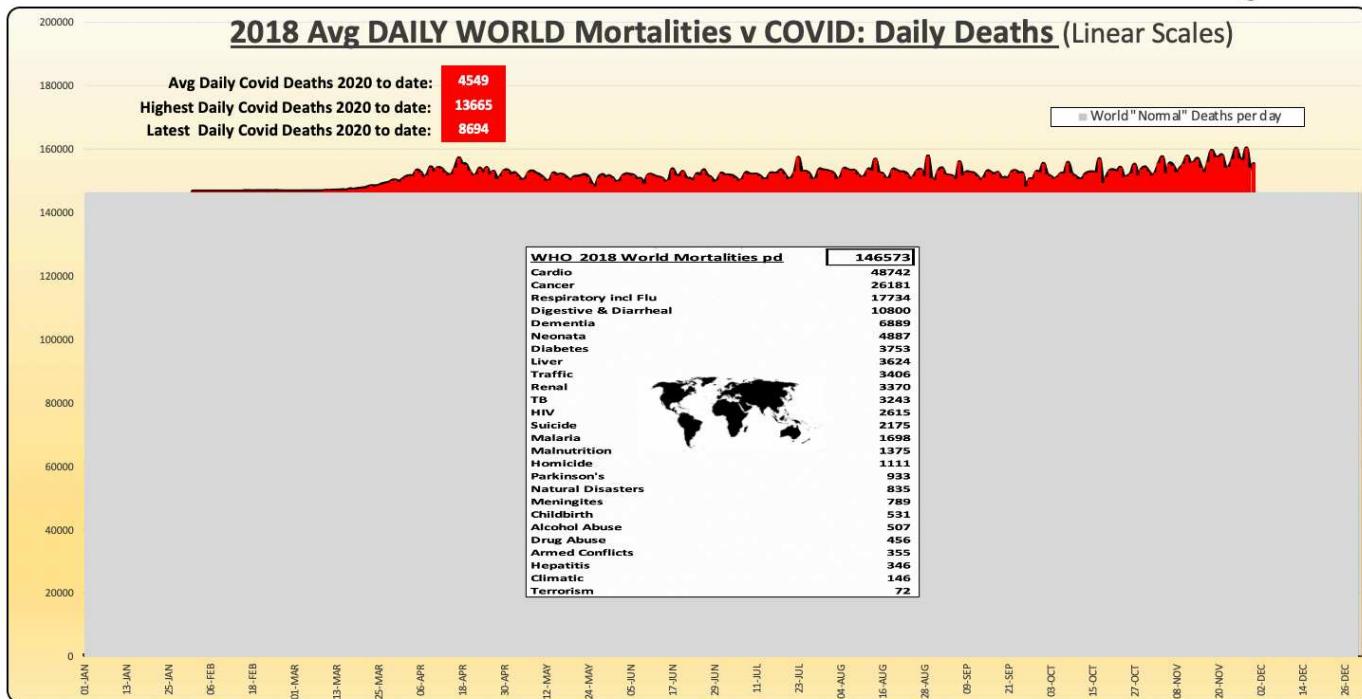
Comment:
The different angles of the black dotted lines clearly demonstrate the impact of early and sustained formal preventative actions ie Social Distancing / Lockdowns.

The trade off is that the longer you sustain Lockdowns, the greater the damaging social and economic impact.

The **STeeper** the black dotted line, the **FASTER** the time to peak 5 day MA daily death due to less preventative action ie Social Distancing / Lockdowns. Therefore the **FLATTER** the black dotted line, the **SLOWER** the time to peak 5 day MA daily deaths due to more effective implementation of formal preventative actions, this is generally referred to as **FLATTENING THE CURVE**.

The red dotted lines show subsequent waves and by implication possible lower levels of "Herd Immunity". A latter initial curve (ie RSA & Argentina) may be resulting in the steady development of "Herd Immunity".....?
* UK, Spain & China's 2nd peaks are due to a data aberration on non-hospitalised deaths.



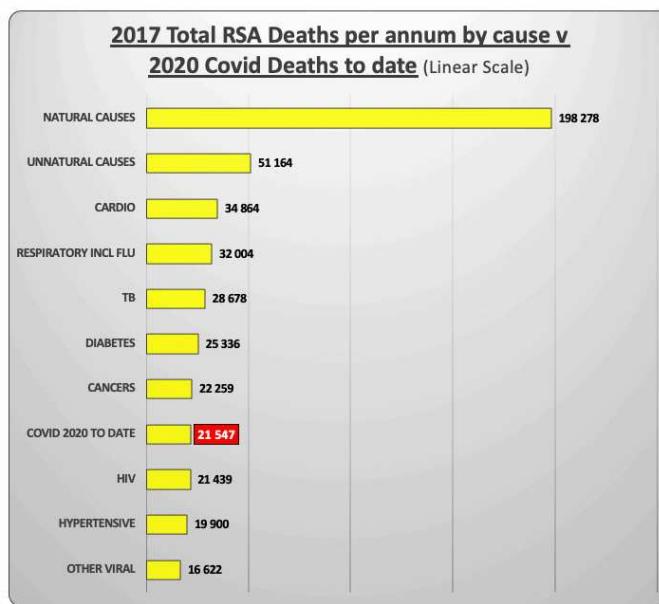
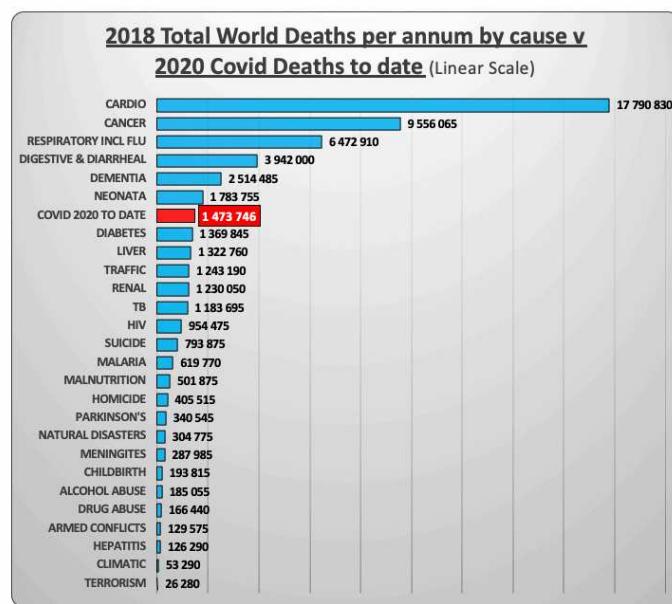
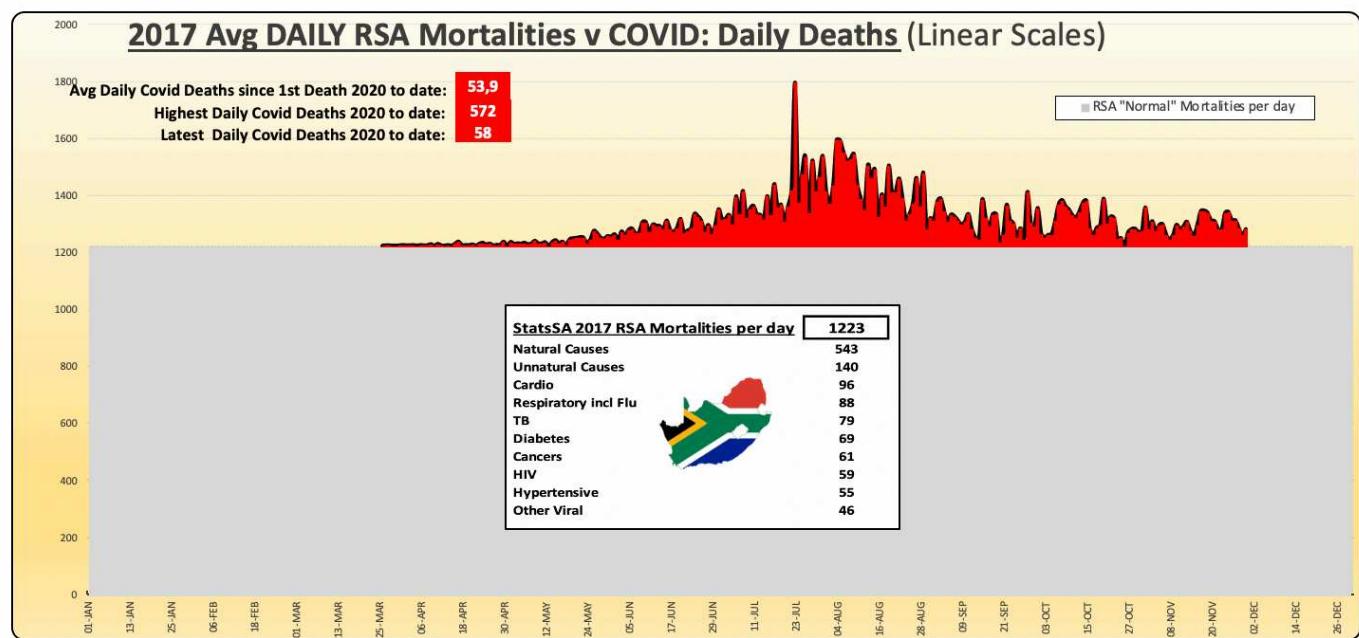


The two graphs WORLD (above) and RSA (below) attempt to put the number of Covid Deaths into some sort of perspective graphically.

The big GREY blocks are TOTAL Daily Avg Deaths from ALL causes over a full calendar year.

The RED area/lines on top of the Grey blocks are the INCREMENTAL Actual Daily Deaths due to Covid.

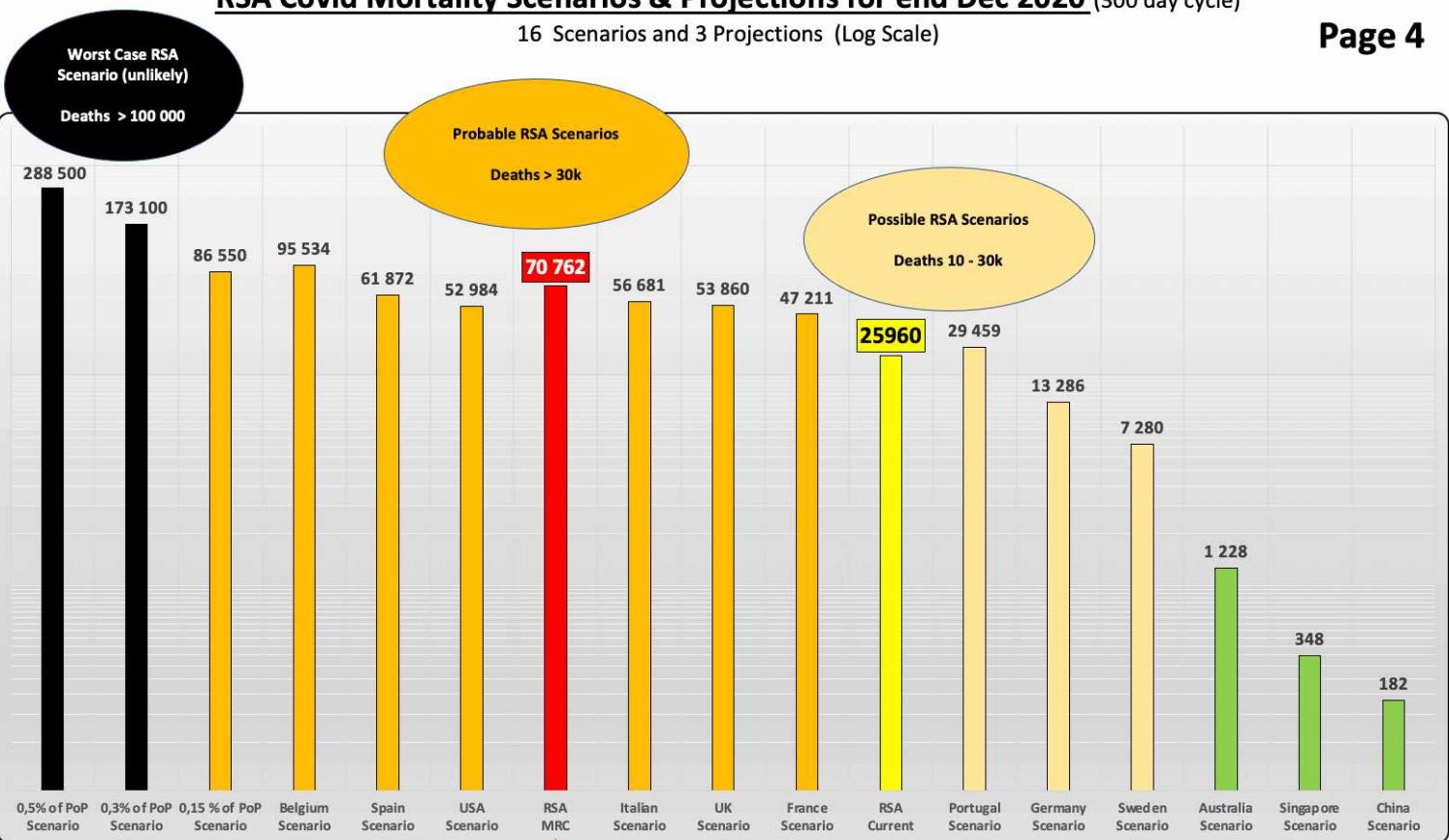
Obviously some of the Covid Deaths will "overlap" with the "normal" Deaths due to comorbidities.



RSA Covid Mortality Scenarios & Projections for end Dec 2020 (300 day cycle)

16 Scenarios and 3 Projections (Log Scale)

Page 4



Key:

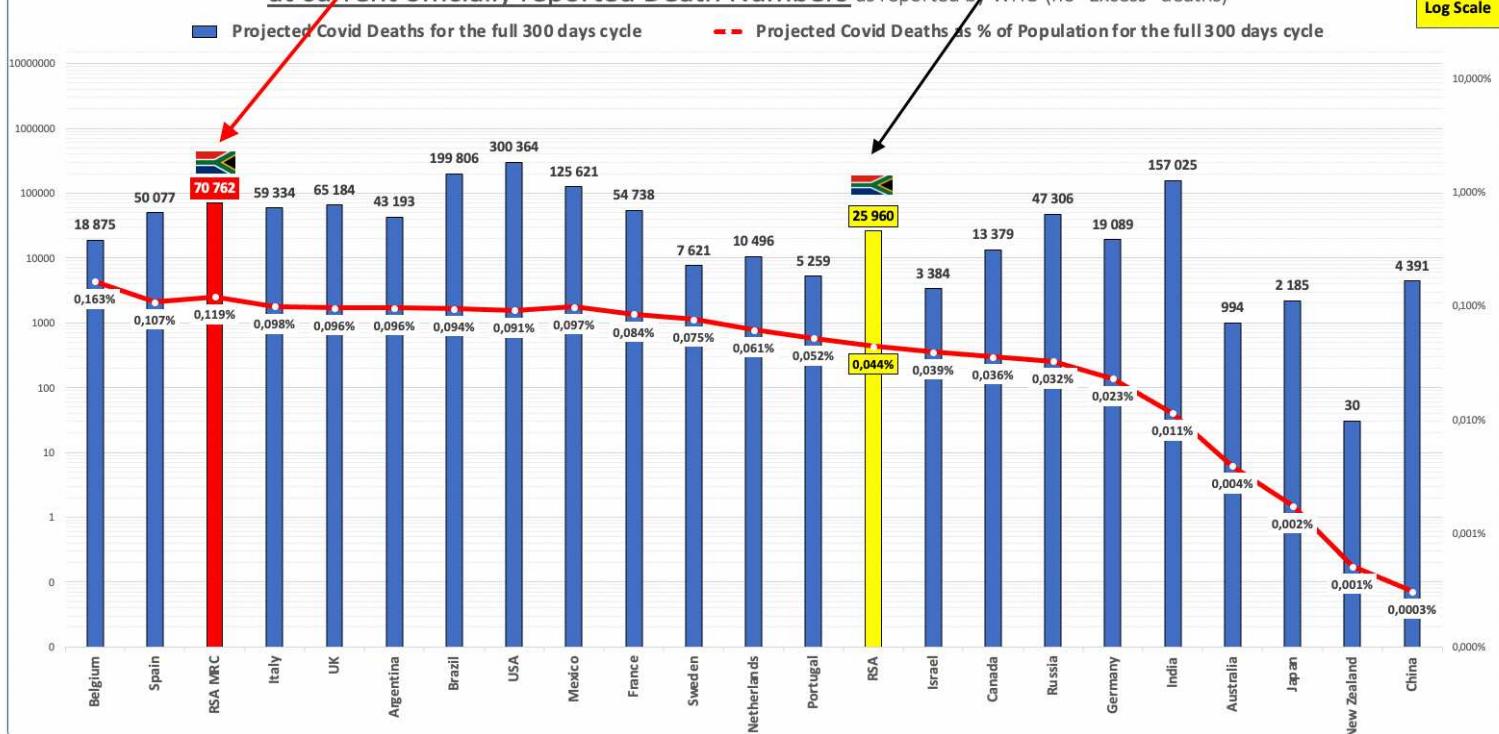
All Scenarios duly adjusted for population size and for the different timelines into the deemed 300 day pandemic cycle.

This projection uses the SA Medical Research Council data on "Excess Deaths". The assumption is that 90% of their reported Excess Deaths are probably due to Covid. The ratios are updated bi-weekly by the MRC but I apply these ratios to the official stats on a daily basis for this projection.

This number is simply the avg daily Deaths as reported to date x 300 (deemed cycle).

Projected Deaths by end Dec 2020 per country and % Deaths per Country Populations

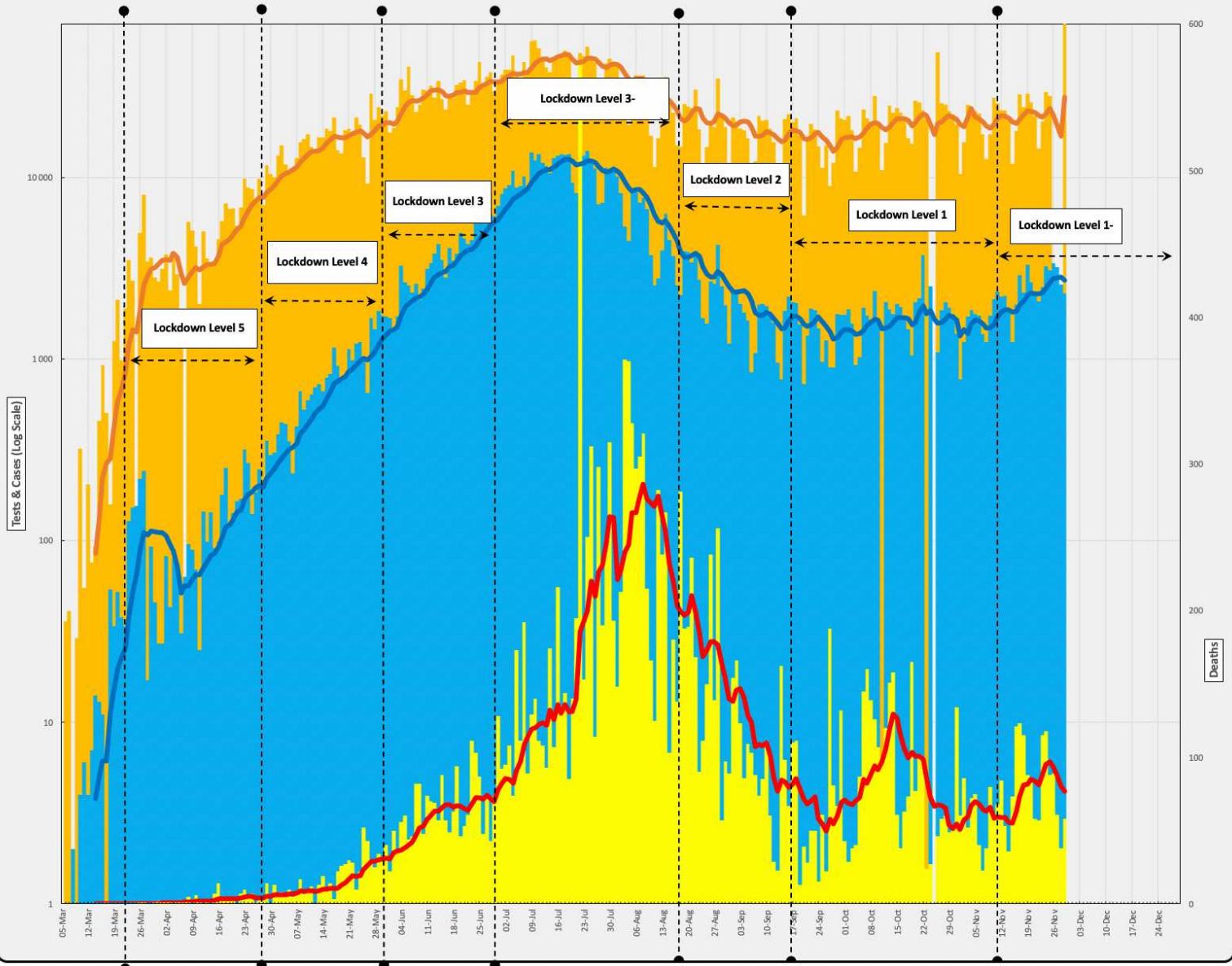
at current officially reported Death Numbers as reported by WHO (no "Excess" deaths)



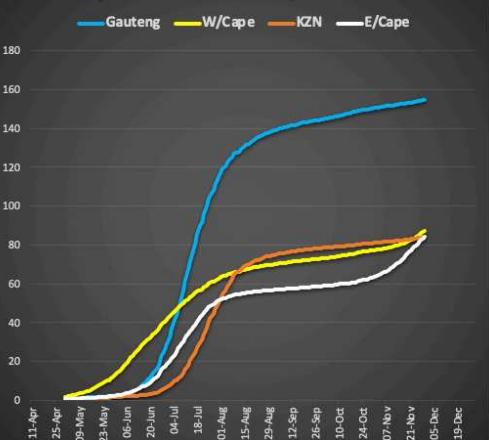
Note: Above Mortality %'s are overall projected mortality of the populations (PMR), NOT deaths of only those infected (CFR).

RSA Daily Testing v Daily Cases (Log Scale y-axis) v Daily Deaths (Non Log 2nd Y-axis)

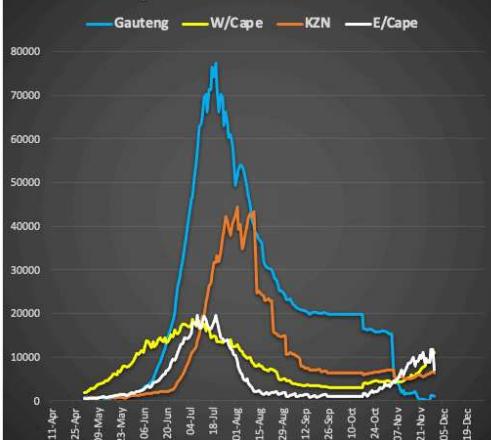
Daily Tests Daily Cases Daily Deaths 10 per. Mov. Avg. (Daily Tests) 10 per. Mov. Avg. (Daily Cases) 10 per. Mov. Avg. (Daily Deaths)



Major Prov Cum Cases per 100k PoP



Major Prov Still Active Cases



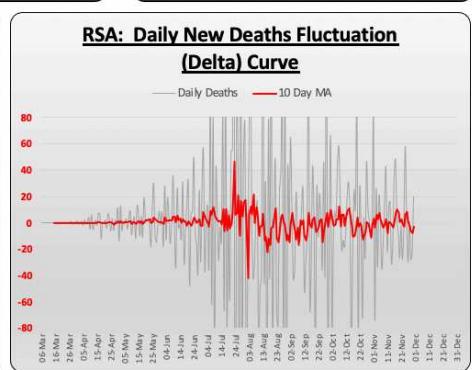
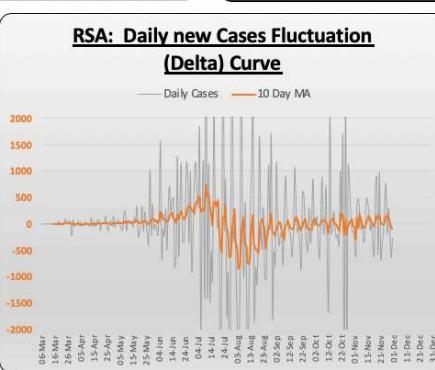
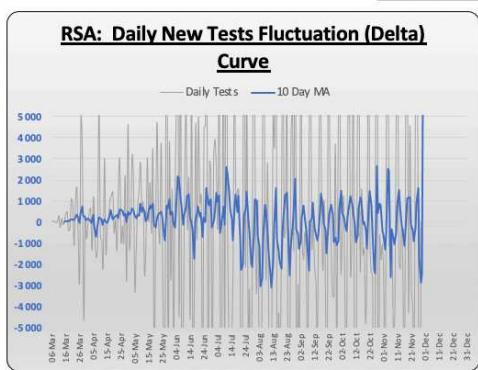
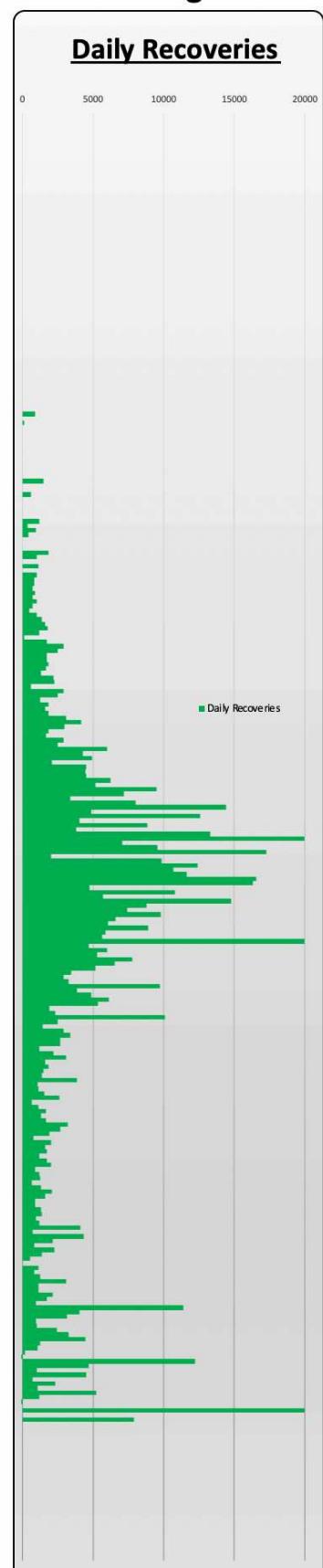
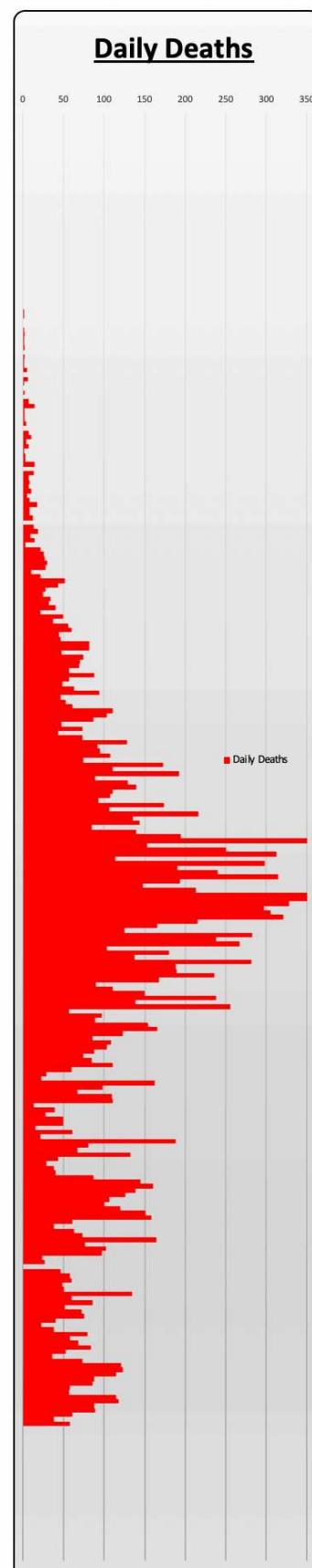
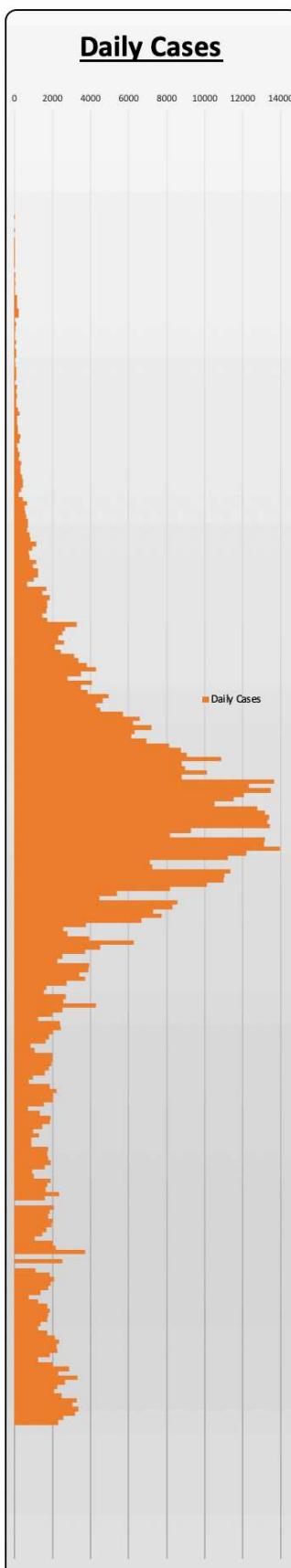
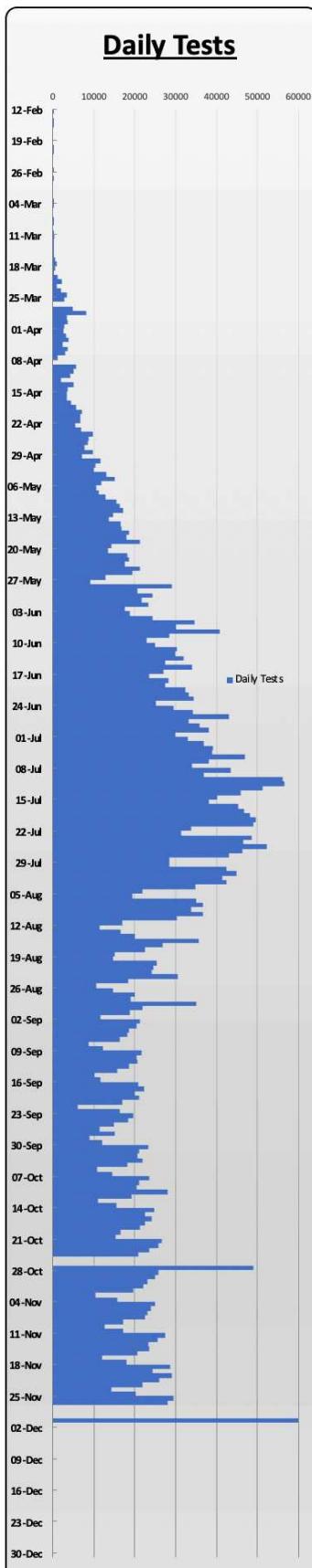
Major Prov Cum Deaths per 100k PoP



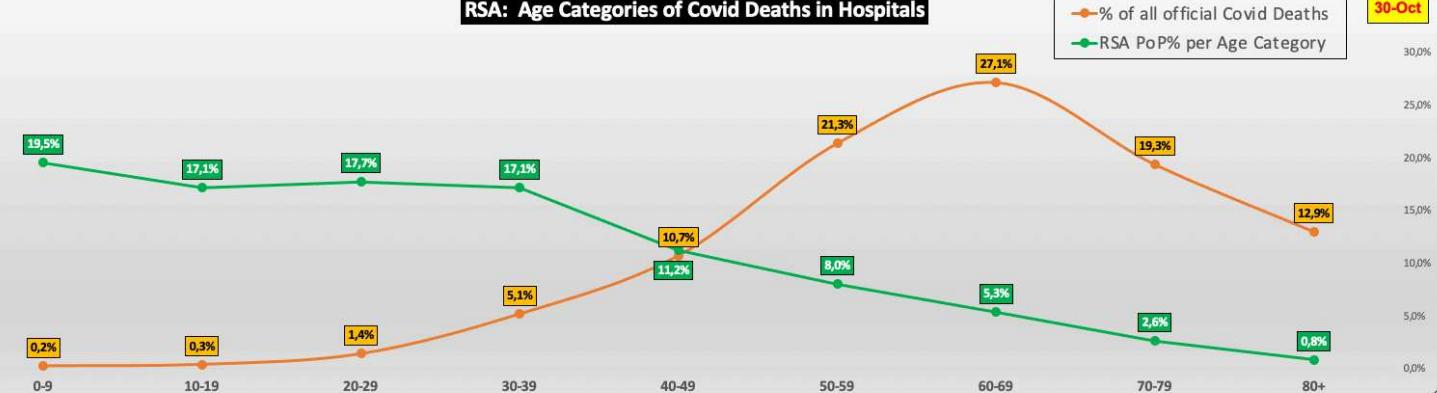
Data as at: 01 December 2020

Unless otherwise indicated

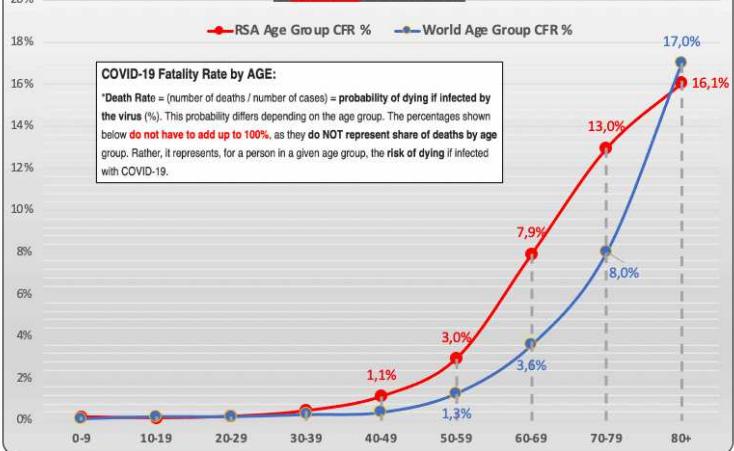
hdg 01 December 2020



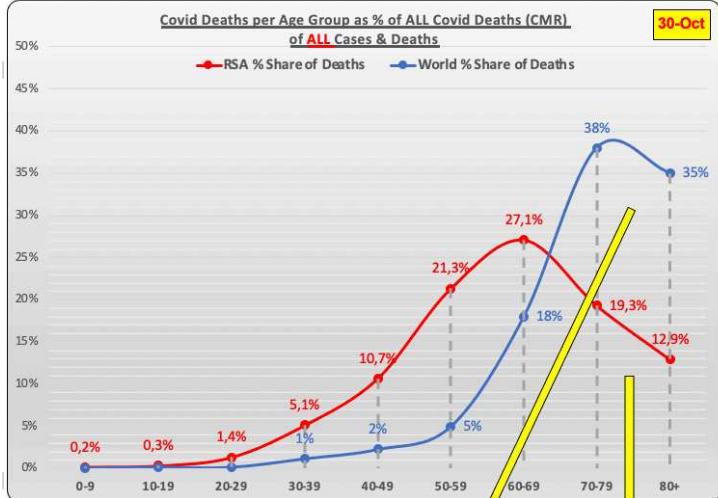
RSA: Age Categories of Covid Deaths in Hospitals



Probability of DYING based on % Deaths of Cases in each Age Group (Age Group CFR) of ALL Covid Cases & Deaths

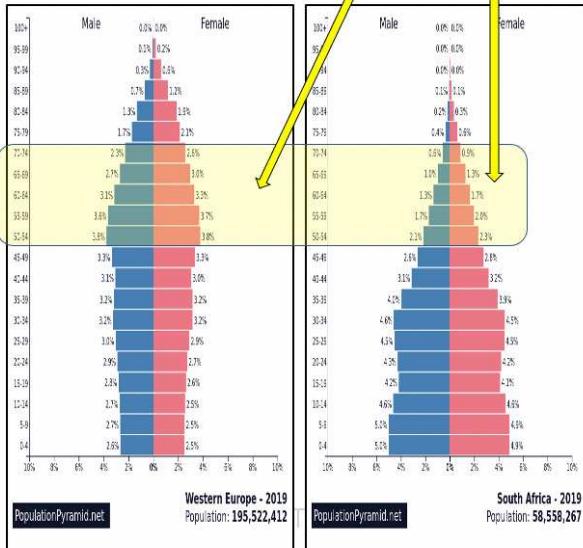


Covid Deaths per Age Group as % of ALL Covid Deaths (CMR) of ALL Cases & Deaths

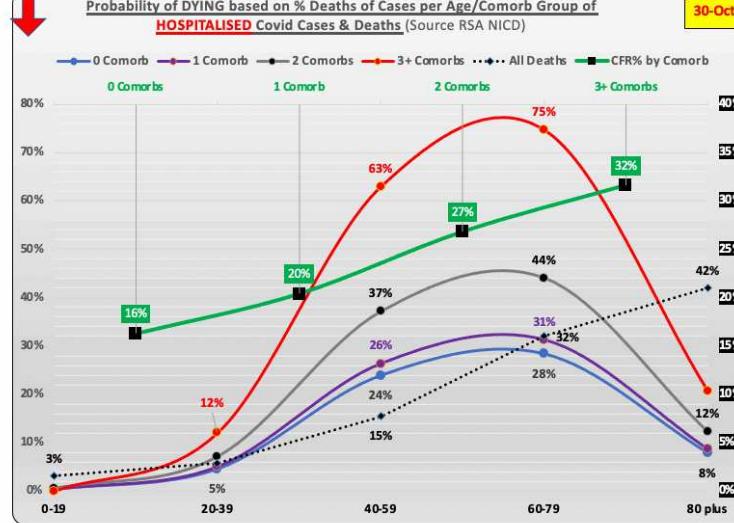


COVID-19 Fatality Rate by AGE:

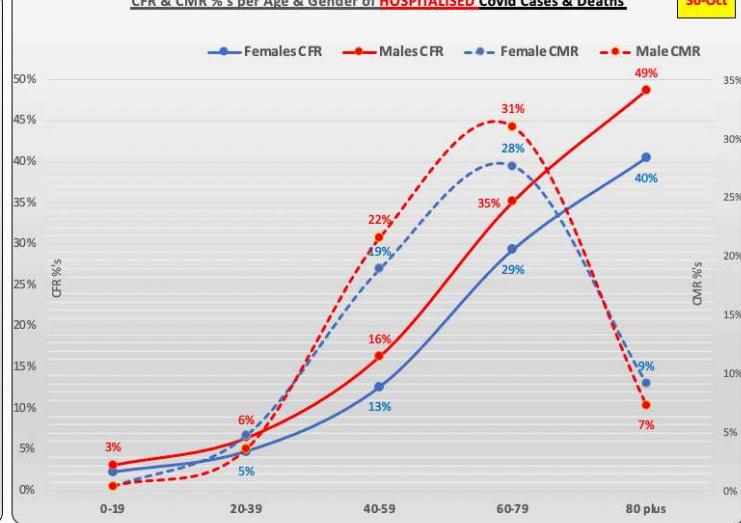
*Death Rate = (number of deaths / number of cases) = probability of dying if infected by the virus (%). This probability differs depending on the age group. The percentages shown below do not have to add up to 100%, as they do NOT represent share of deaths by age group. Rather, it represents, for a person in a given age group, the risk of dying if infected with COVID-19.



Probability of DYING based on % Deaths of Cases per Age/Comorb Group of HOSPITALISED Covid Cases & Deaths (Source RSA NICD)



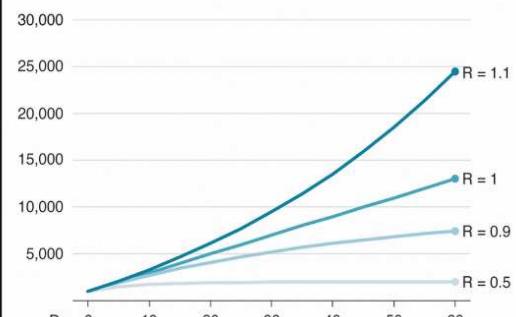
CFR & CMR %'s per Age & Gender of HOSPITALISED Covid Cases & Deaths



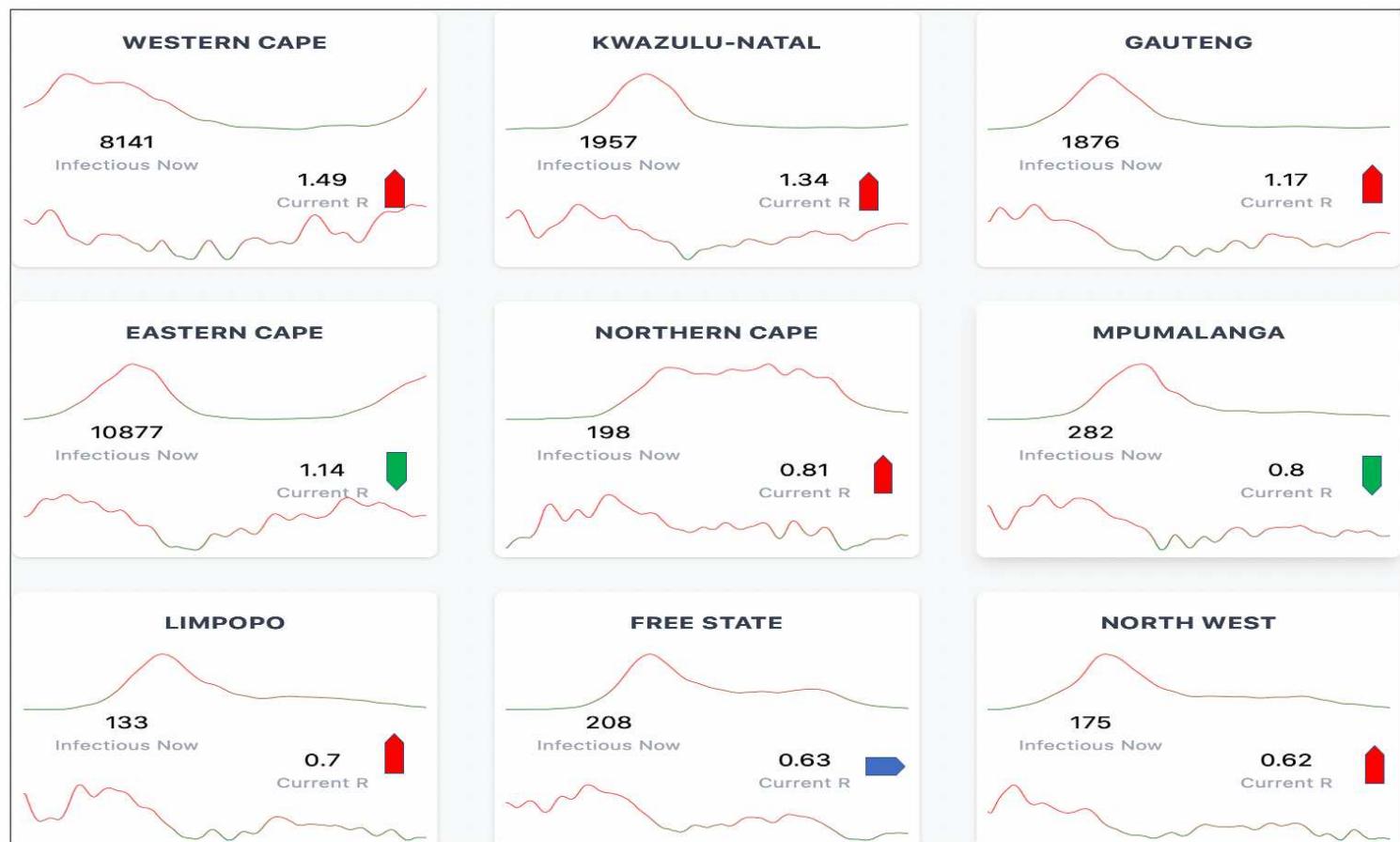
The Reproduction Number, R, derived from Currently Infectious estimates, see below



How 1,000 cases would increase under different infection rates



↑ ↓ → Movement from previous day

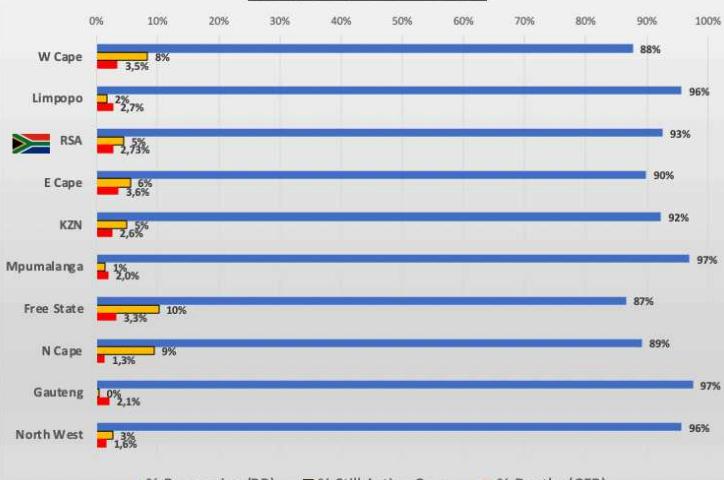


Rt graphs from:

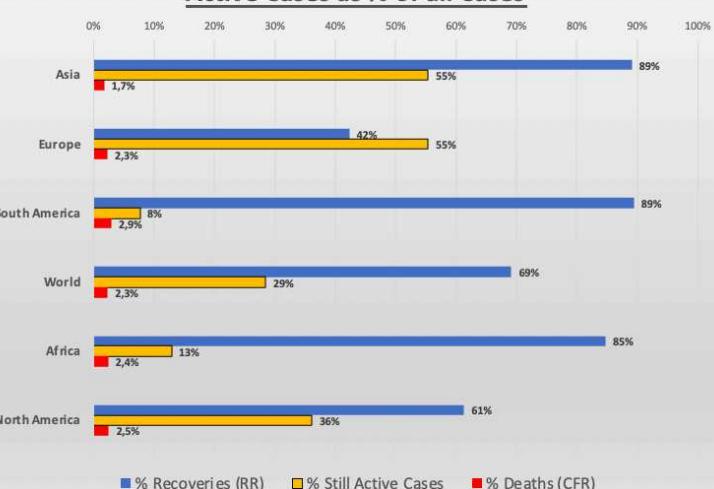


<https://reproduction.live/world/ZA>

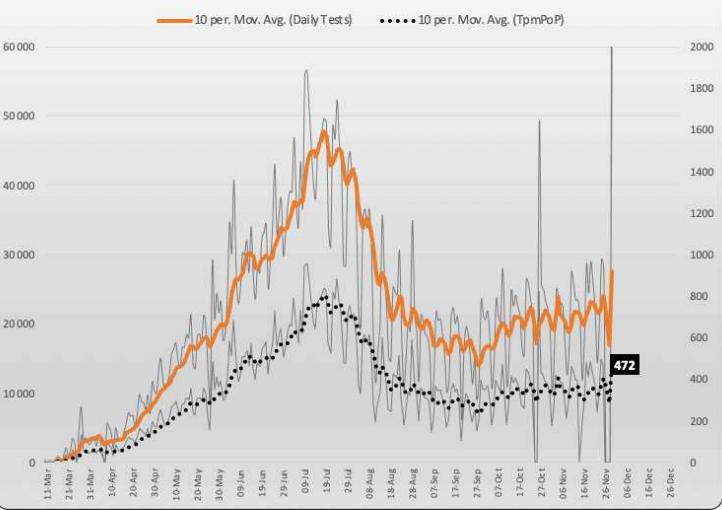
RSA Deaths (CFR), Recoveries (RR) and still-Active Cases as % of all Cases



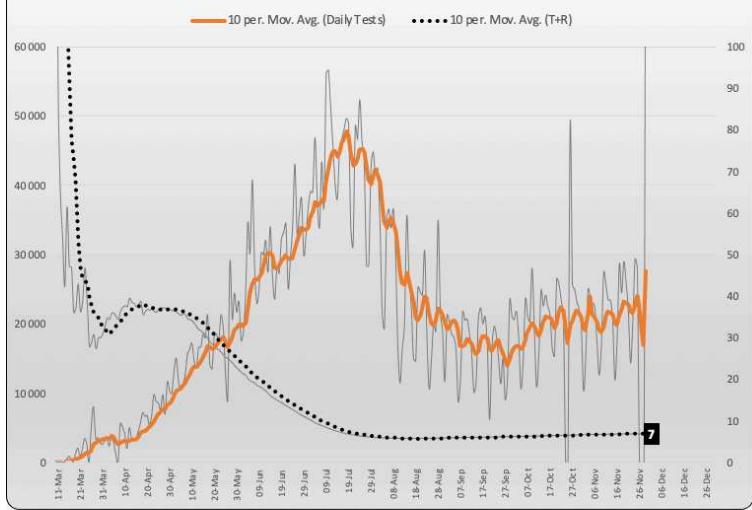
World Deaths (CFR), Recoveries (RR) and still-Active Cases as % of all Cases



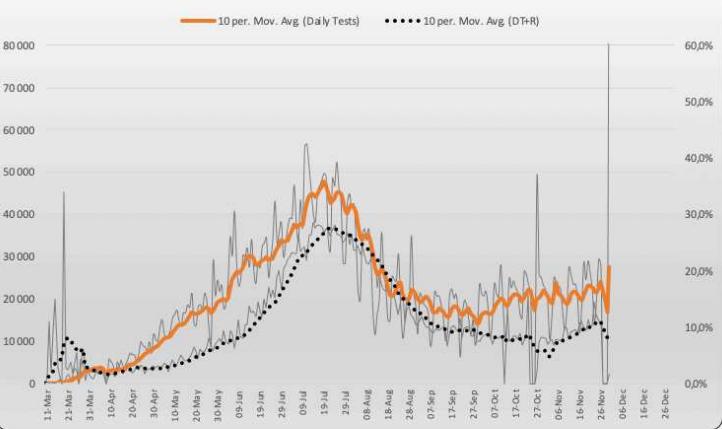
RSA: Daily Tests conducted per million PoP



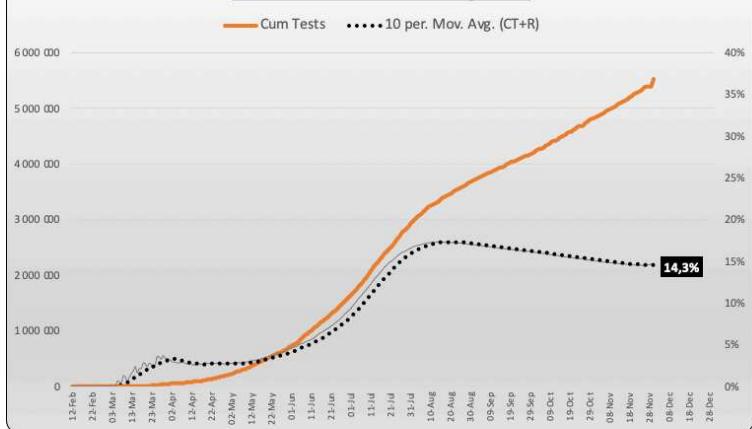
RSA: Daily Tests per +Case



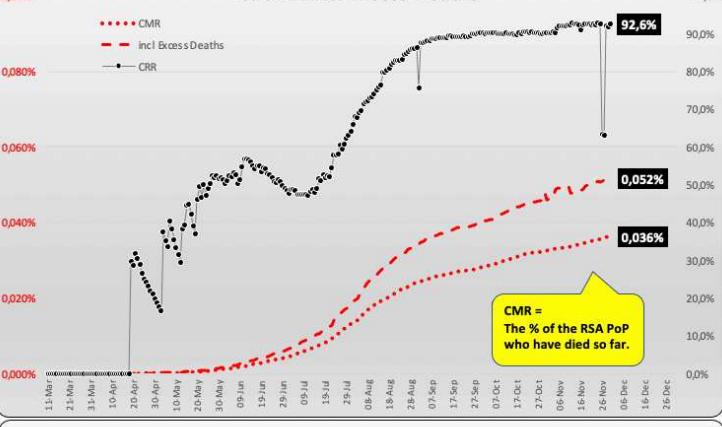
RSA: Daily Tests Positivity %



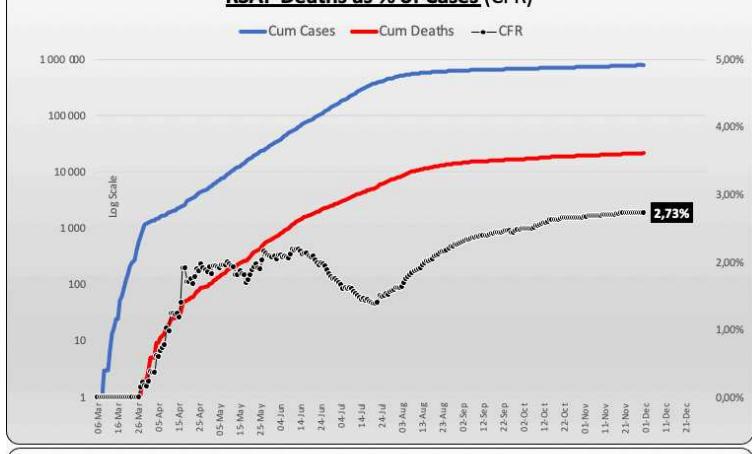
RSA: Cum Tests Positivity Rate



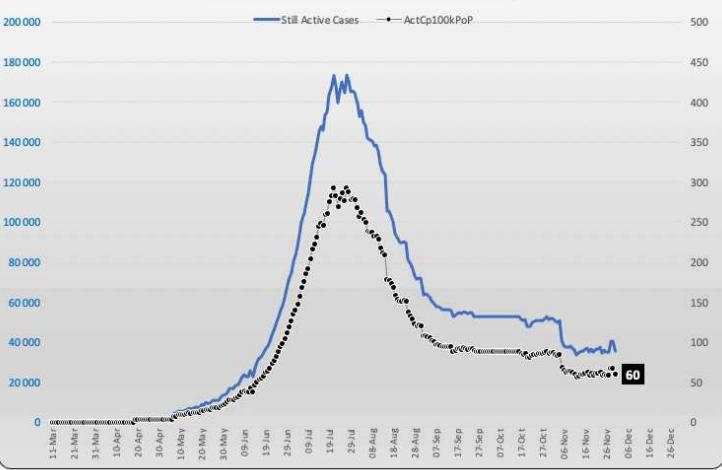
RSA: Case Recovery Rate (CRR) & Case Mortality Rate (CMR) & CMR incl Excess Deaths



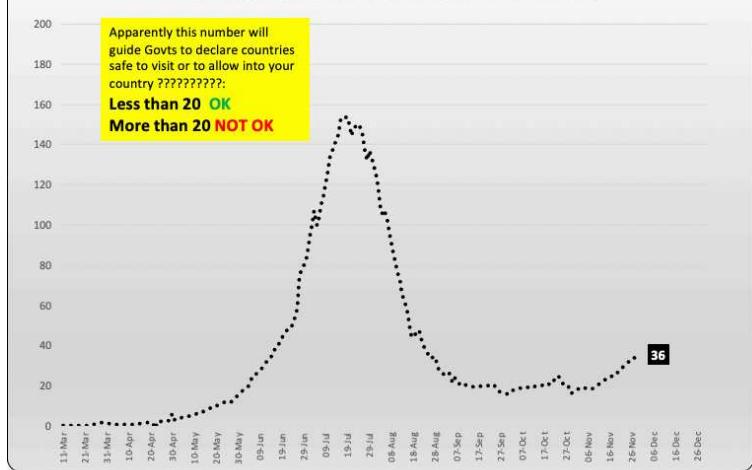
RSA: Deaths as % of Cases (CFR)



RSA: Active Cases per 100k PoP

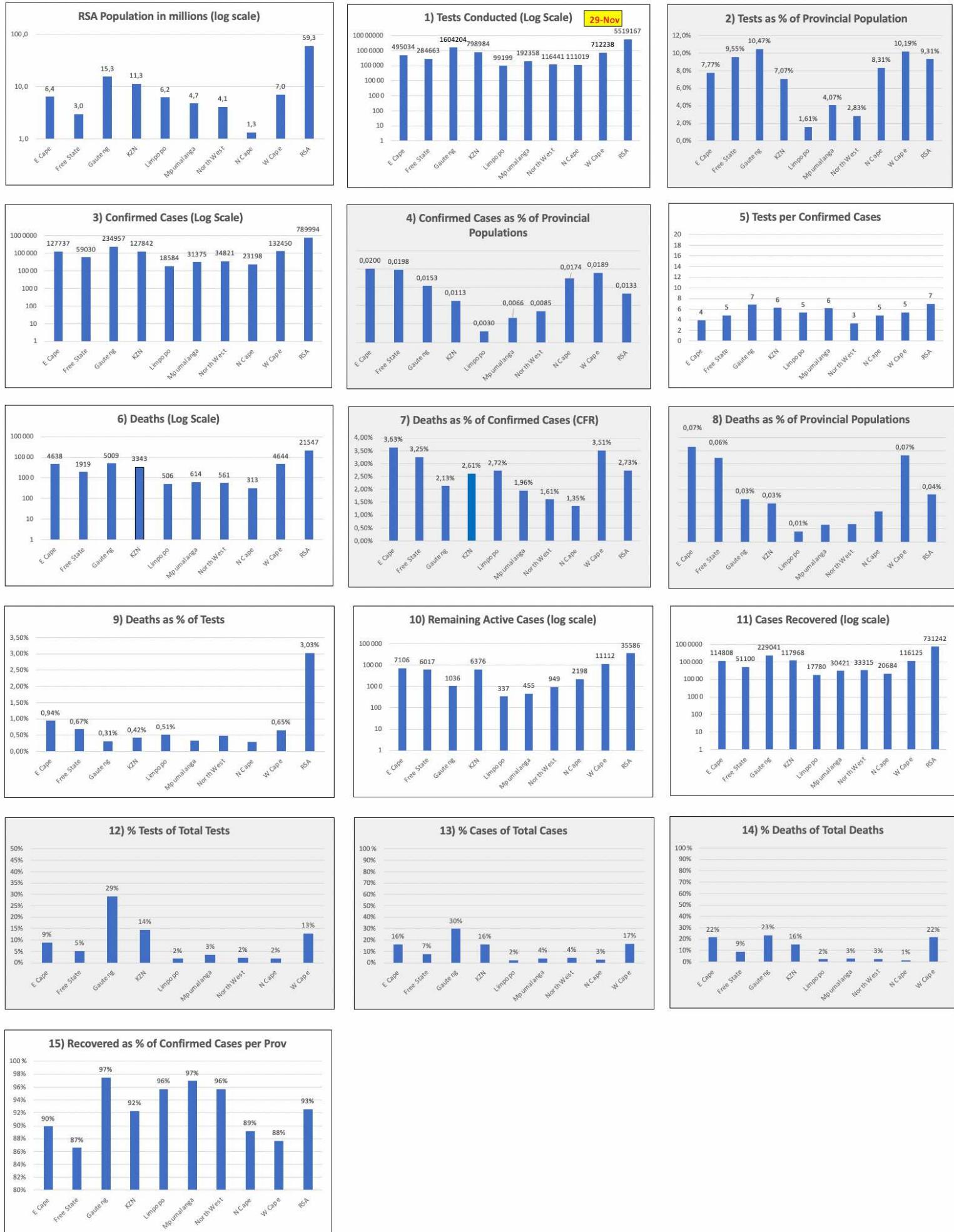


RSA: Avg New Cases per week per 100k PoP



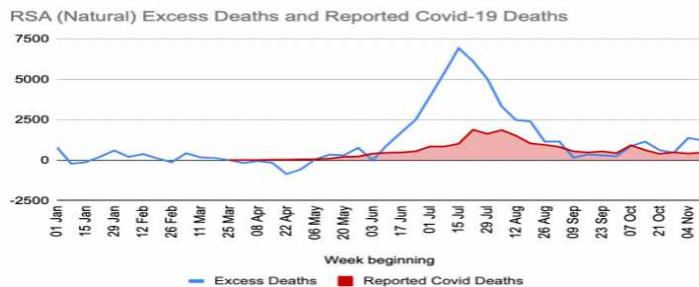
RSA Covid Stats: National & Provincial Analysis

Page 6

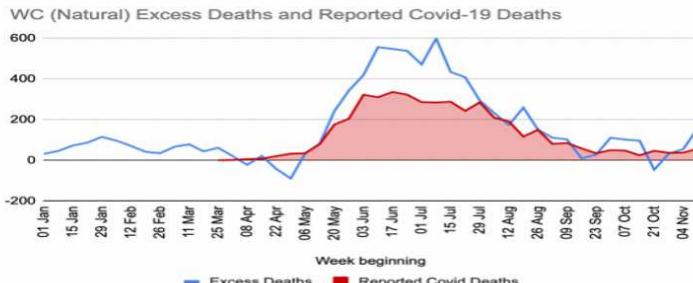
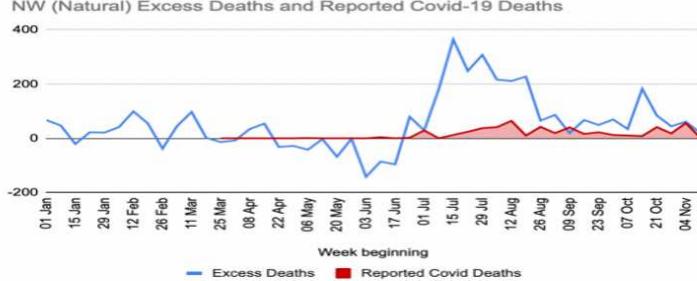
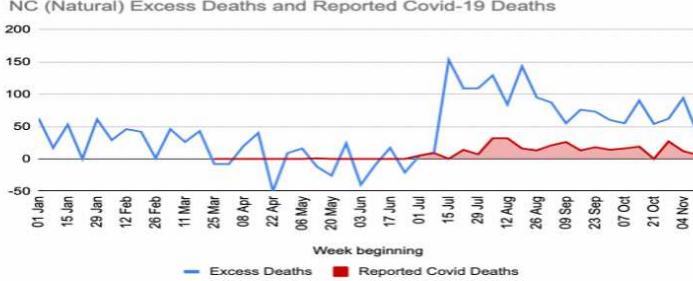
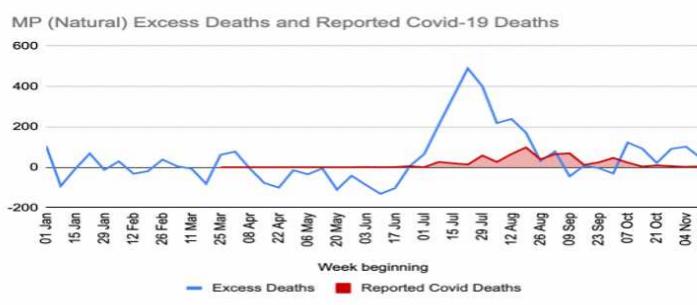
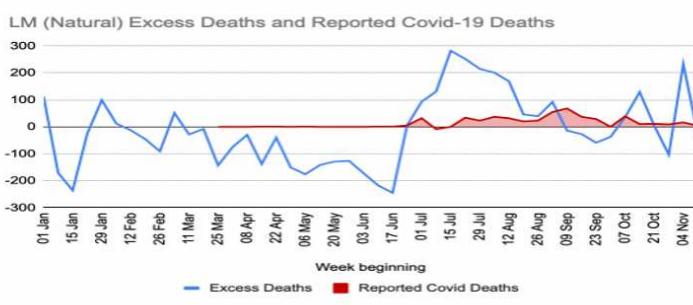
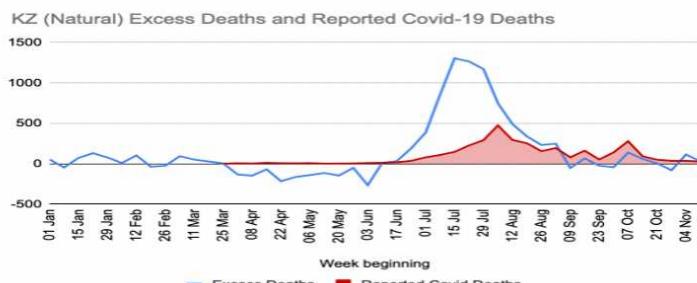
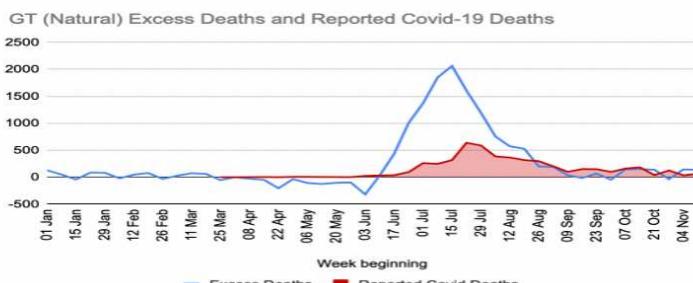
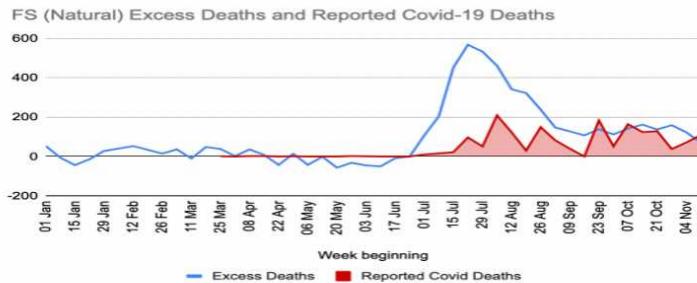
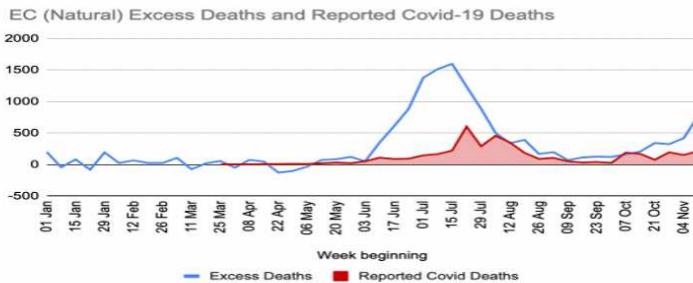


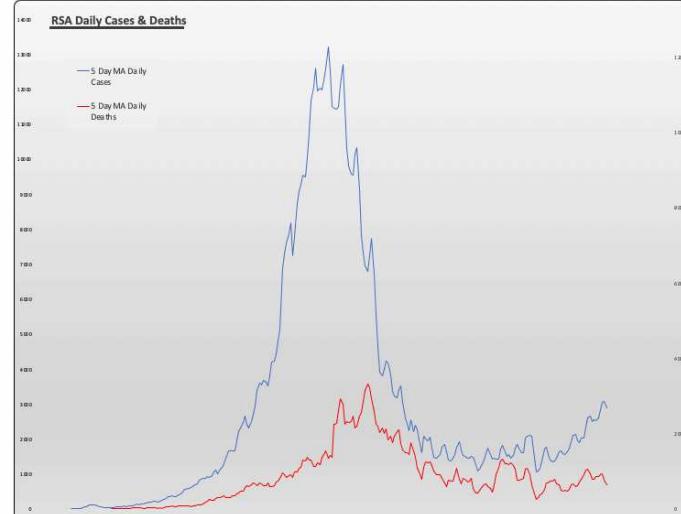
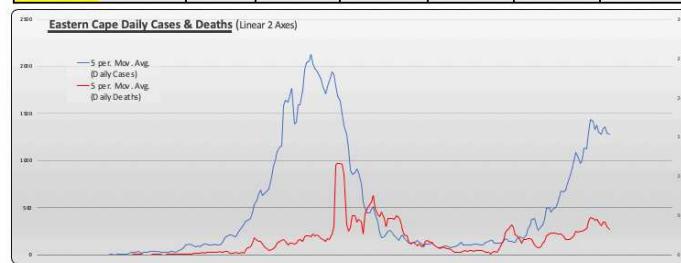
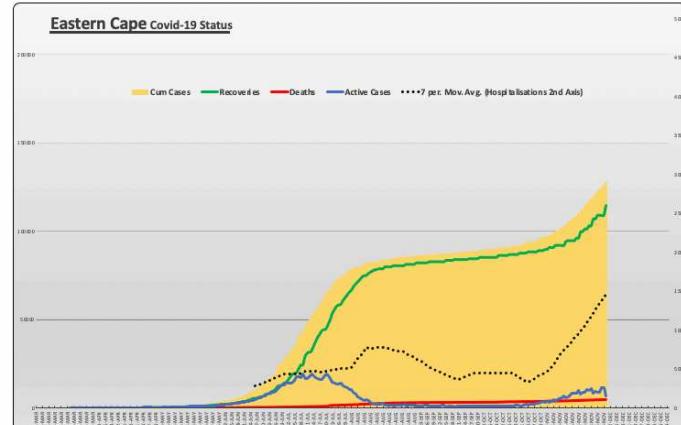
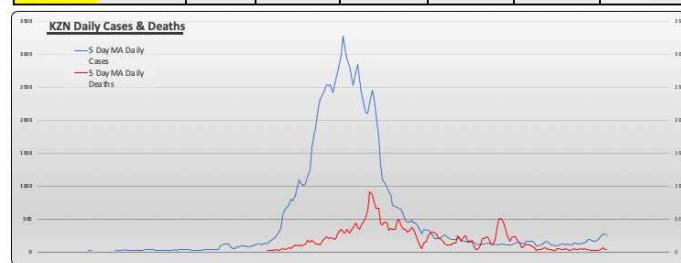
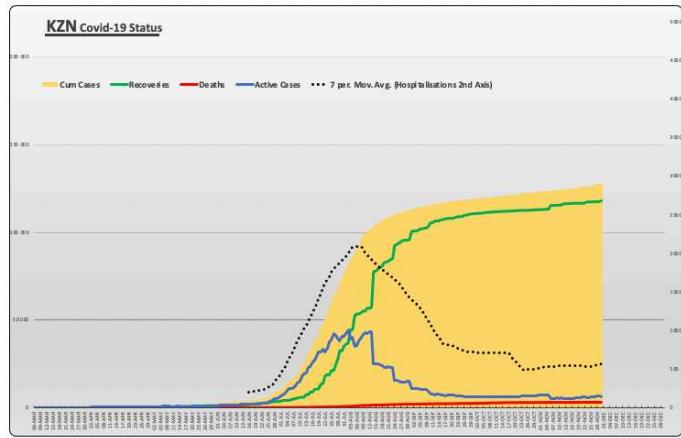
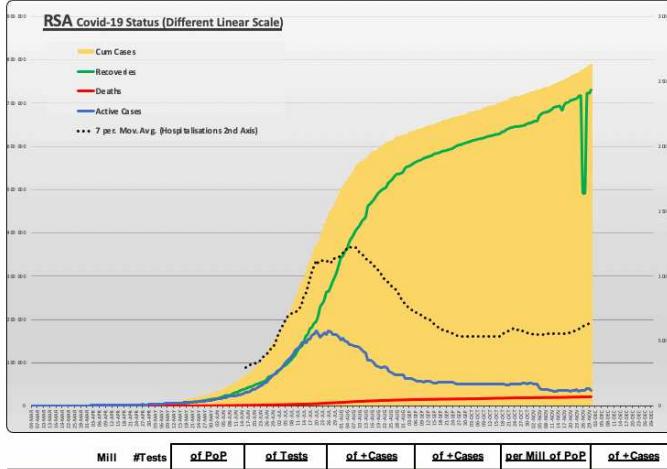
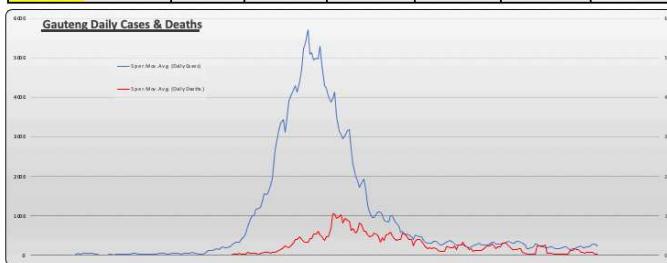
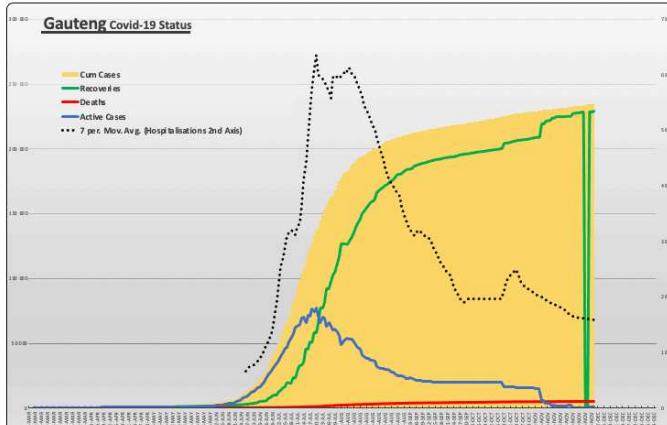
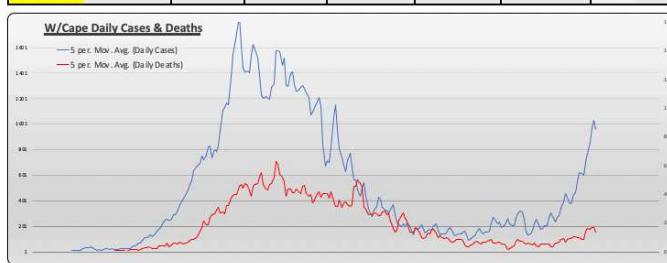
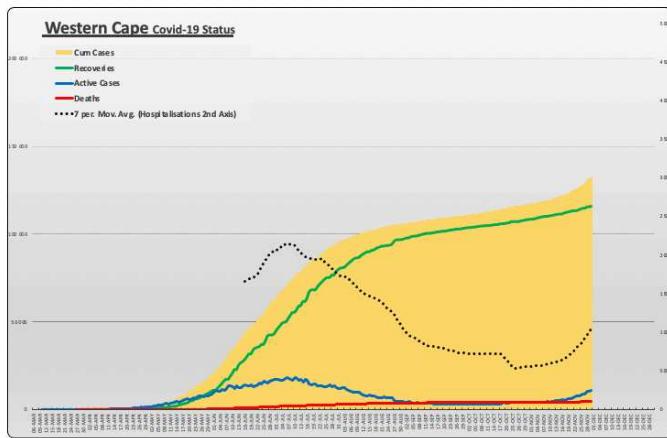
RSA Excess Deaths as per SA Medical Research Council

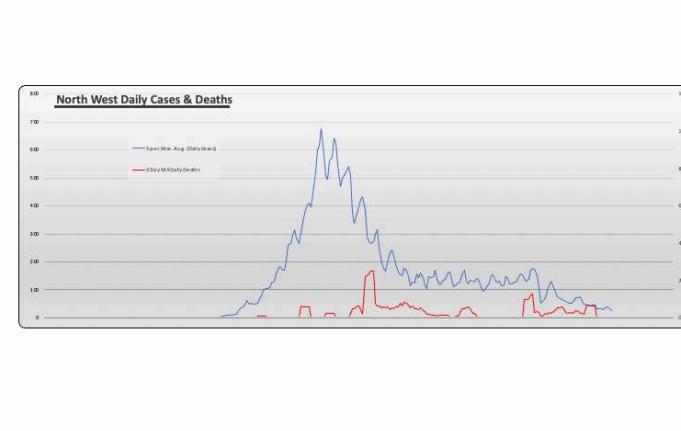
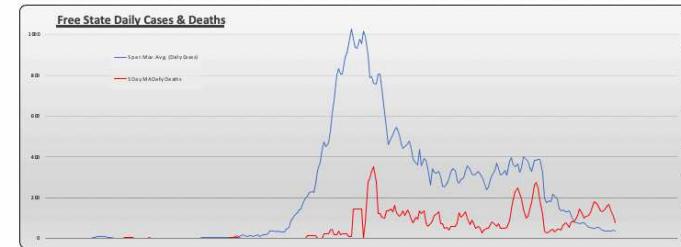
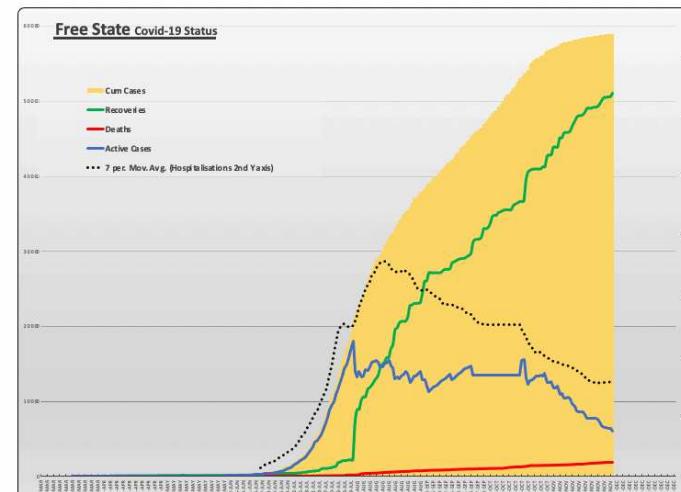
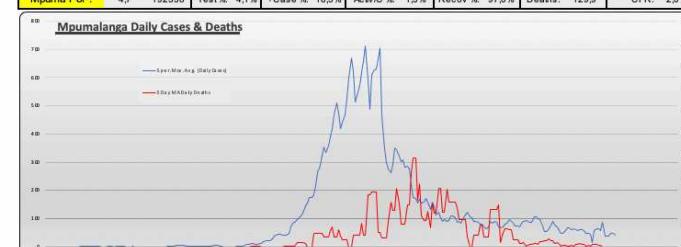
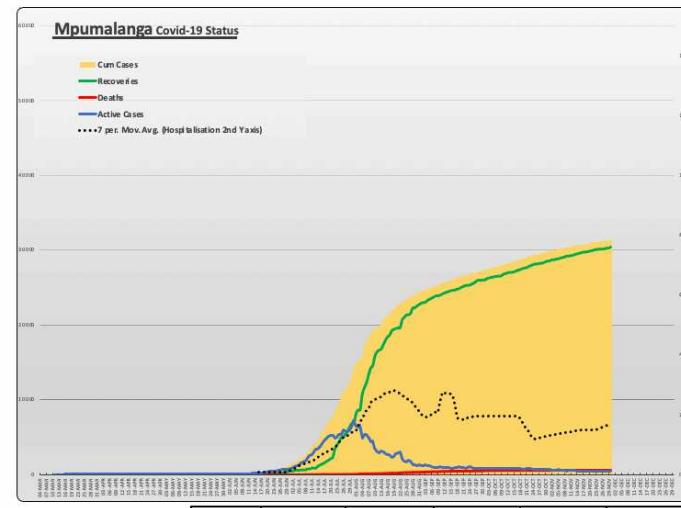
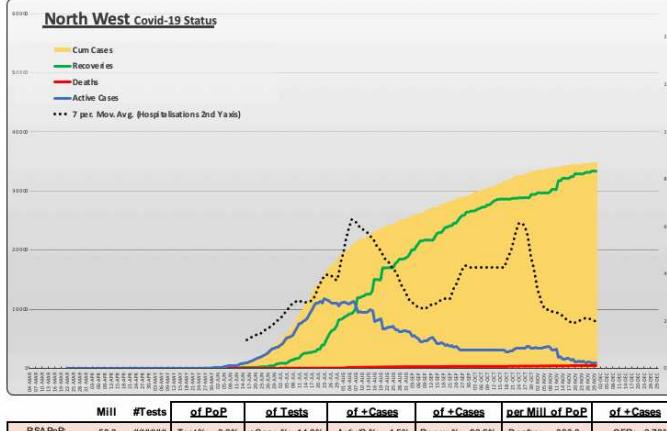
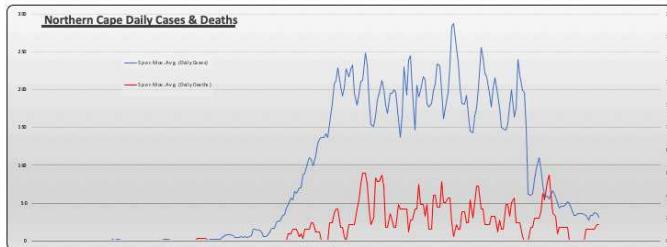
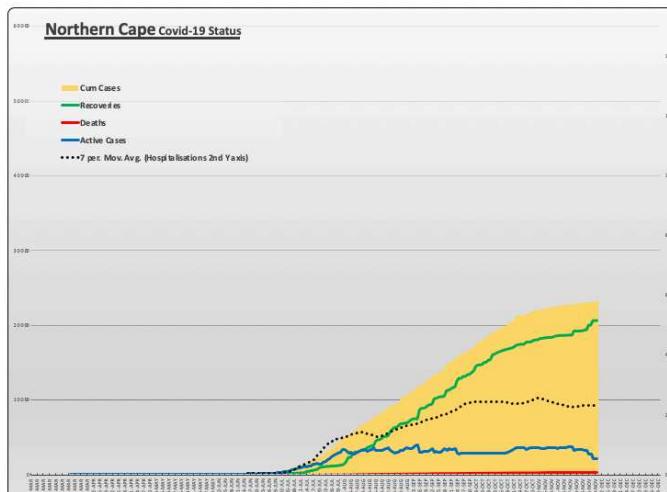
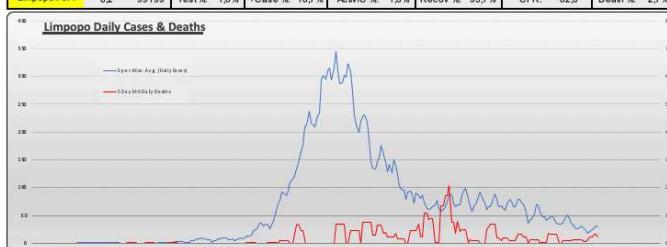
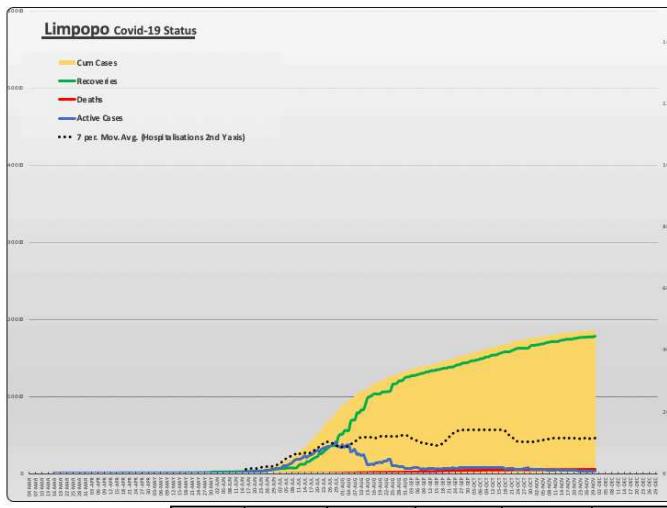
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Provinces







Apparently you can now visit friends... But
you must stay in the car

