

Report on Weekly Deaths

Week 35

1 January – 1 September 2020

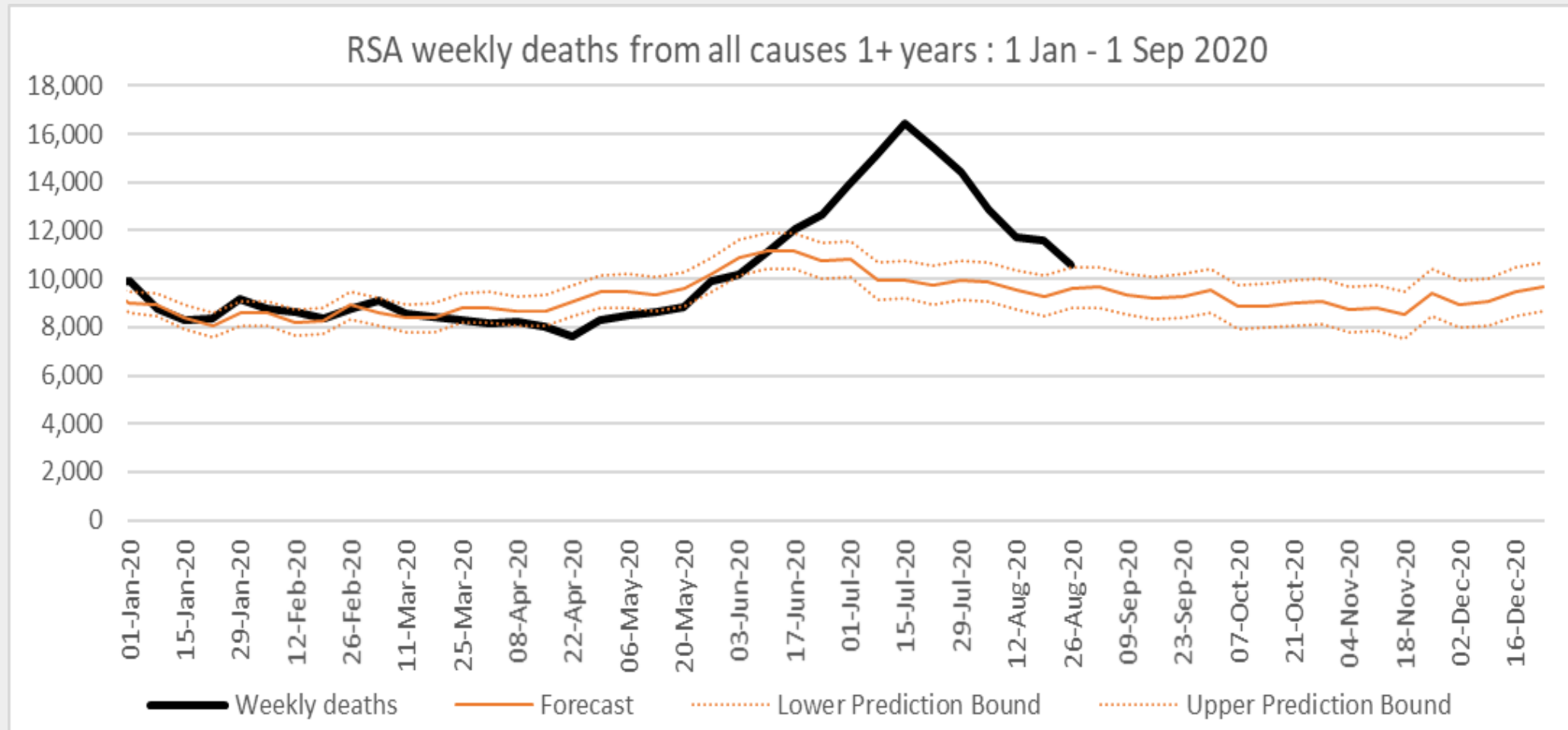
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Data source

- Data on deaths on the National Population Register are obtained from the Department of Home Affairs on a weekly basis.
- Number of deaths are weighted upward to account for incomplete registration of deaths and those that do not have a South African ID number.
- Estimated number is compared with forecast numbers based on historical data from 2018 and 2019 to allow for the trend in the numbers and seasonal variations – for metros and provinces.
- Babies under 1-years are excluded from analysis.

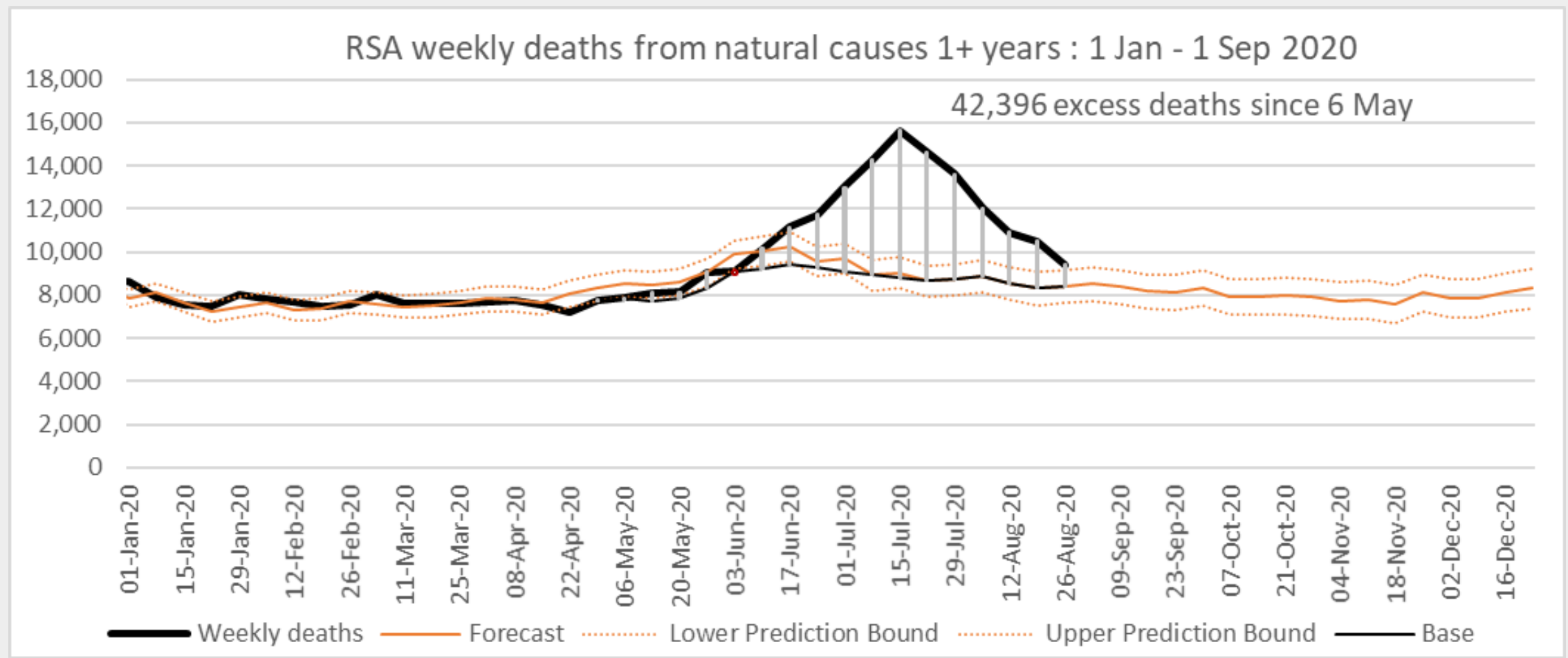
The number of deaths has continued decreasing since week starting 15 July 2020

- Black line shows the weekly number of deaths in 2020
- Orange line shows the number predicted from historical data with bounds of uncertainty – a lower bound and upper bound

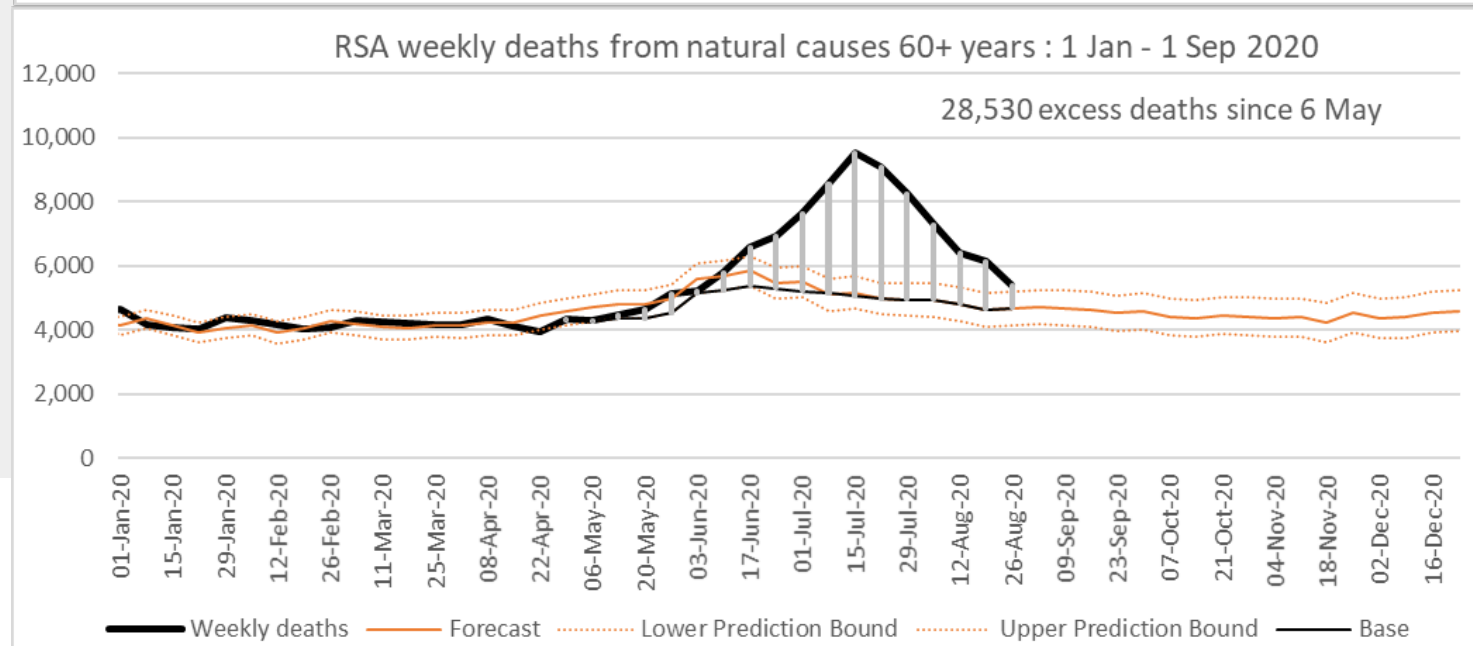
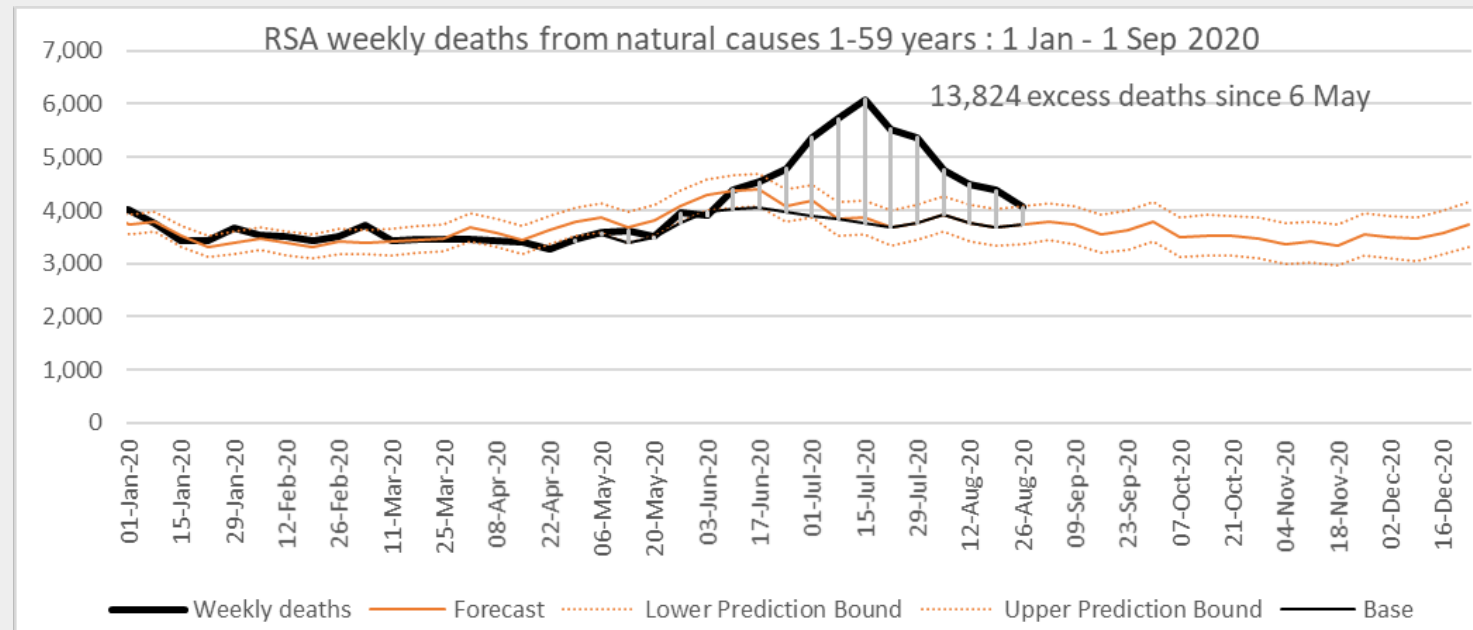


Estimated 42,396 excess natural deaths since 6 May

- Black line shows the weekly number of deaths
- Orange line shows the number predicted from historical data with bounds of uncertainty – a lower bound and upper bound

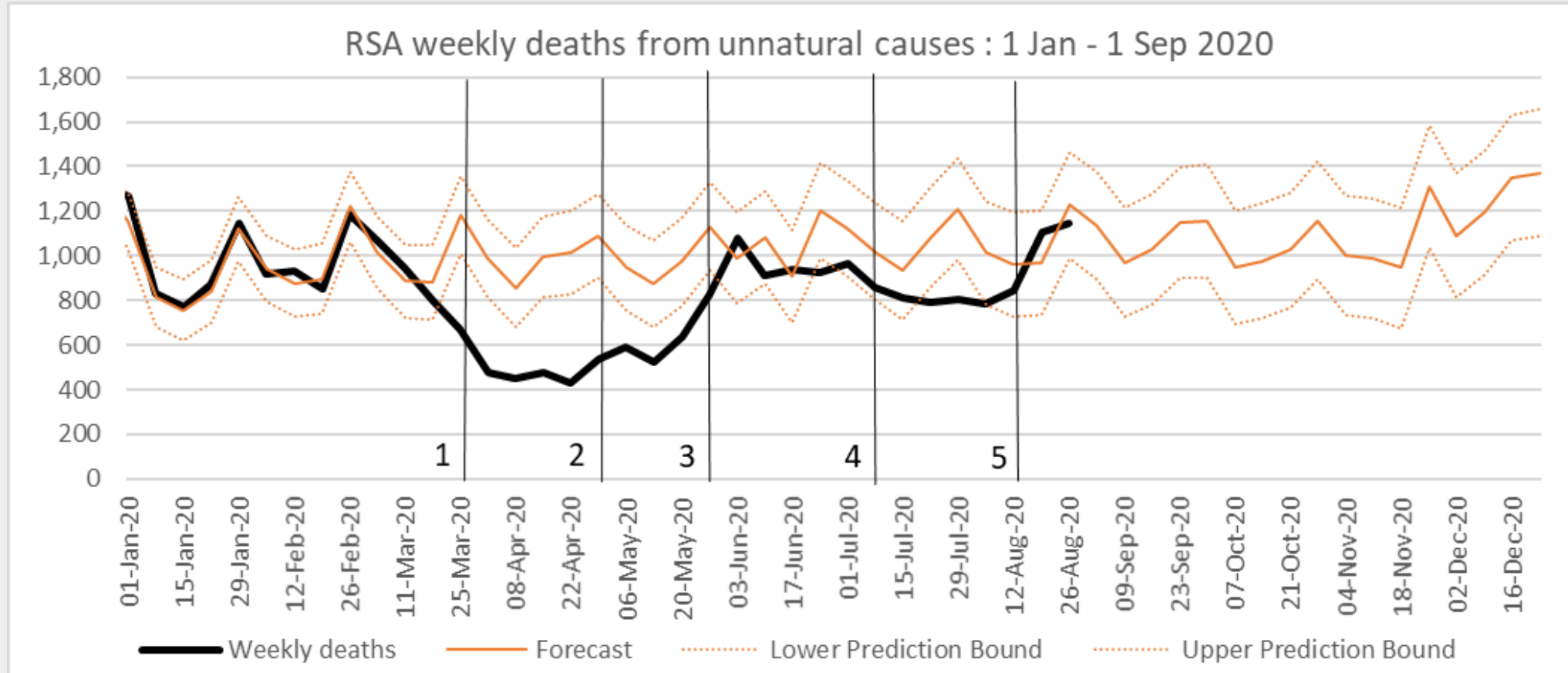


Excess natural deaths in persons 60+ years more than double the number 1-59 years



Deaths from unnatural causes have increased since lockdown level 2

- Historical data shows that weekly numbers of death from unnatural causes vary considerably depending on the time of month



Vertical time lines:

1. Week lockdown level 5 introduced
2. Week lockdown changed to level 4 with curfew
3. Week lockdown changed to level 3 including unbanning sale of alcohol
4. Week sale of alcohol re-banned and curfew re-introduced
5. Week lockdown changed to level 2 including unbanning sale of alcohol

Excess mortality

Used in epidemiology and public health to measure the mortality impact of a crisis when not all causes of death are known.

The World Health Organization defines 'excess mortality' as:

“Mortality above what would be expected based on the non-crisis mortality rate in the population of interest. Excess mortality is thus mortality that is attributable to the crisis conditions. It can be expressed as a rate (the difference between observed and non-crisis mortality rates), or as a total number of excess deaths.”

Measure of Excess Deaths	Purpose of measure
Excess All Cause Deaths	This provides an overall measure of the difference between the number of death that have occurred in the period compared with earlier years – but is a combination of several competing effects that cancel each other.
Excess Naturals vs adjusted base	This measure aims to identify the excess number of natural deaths that might have resulted from the direct and indirect effects of COVID-19, by taking into account that lockdown had reduced the number of deaths from natural causes.

What does this week's report show?

- The weekly number of deaths of persons 1+ years of age from all causes has continued to drop since the week starting 15 July 2020.
- Excess natural deaths increased to 42,396 (vs confirmed COVID-19 deaths of 13,824) and suggests
 - some COVID-19 deaths that occur in the community are not reported
 - there may be collateral impact of the COVID-19 epidemic.
- The rapid rise and then decline in excess deaths in many provinces in recent weeks is entirely consistent with an epidemic peak.

WEEK 35 ENDING 1 SEPTEMBER 2020

Region	Excess deaths vs revised base	DoH confirmed deaths
South Africa	42,396	13,824
Province		
Eastern Cape	9,827	2,892
Free State	3,214	626
Gauteng	11,573	3,491
KwaZulu-Natal	6,970	2,064
Limpopo	1,433	191
Mpumalanga	2,166	339
Northern Cape	832	22
North West	1,837	45
Western Cape	5,223	3,810

What can be done to investigate the causes of death in recent weeks?

- Statistics South Africa and the Department of Home Affairs are encouraged to fast-track processing the death notification forms completed by doctors.
- National Department of Health and the National Institute for Communicable Diseases to work with the South African Medical Research Council to consolidate supplementary information using
 - Data linkage to consolidate health information about the deaths,
 - Conducting verbal autopsy interviews with next of kin.

<https://www.samrc.ac.za/reports/report-weekly-deaths-south-africa>

Living in a New Normal

- *Maintain physical distance*
- *Wear a face mask*
- *Wash hands / sanitise hands*
- *Take your medications for chronic conditions*
- *If not well, self-isolate and seek care*