Contents

NSW Covid Update for 2022-09-10

This report is available in several formats:

- NSW Covid Report 2022-09-10 PDF Format

- NSW Covid Report 2022-09-10 Word Format

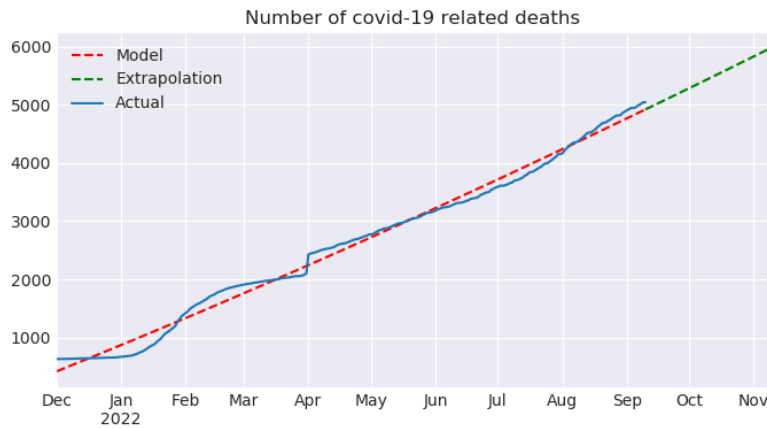- Online web page (always up-to-date)

Deaths

Predictions:

When	Total Deaths	Deaths that Day
Sunday 11th September 2022	4948	17
Saturday 17th September 2022	5052	17
Monday 10th October 2022	5454	17

The death rate will peak on **Saturday 18th November 2023**.

The final number of deaths (long-term) will be close to **38114**.

Number of covid-19 related deaths

Hospitalisation

This model isn't smart enough to realise that people get better and leave the hospital. So it ends up predicting a flat line instead of dropping back down to zero.

The number of people going into hospital peaked on **Thursday 30th December 2021**.

Number of covid-19 patients in hospital
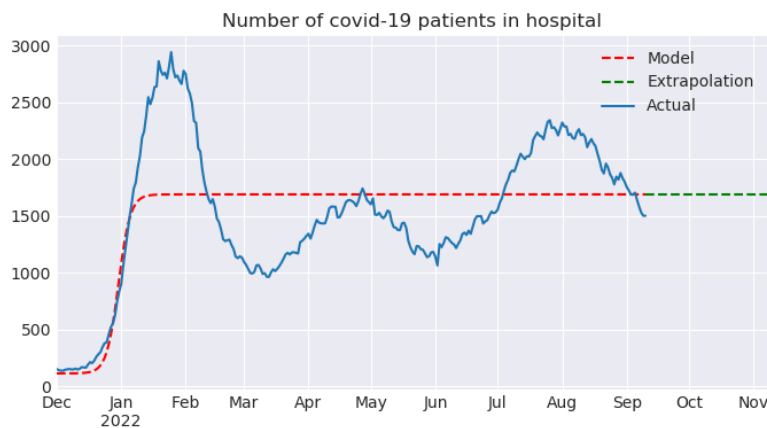
ICU

This model isn't smart enough to realise that people eventually leave the ICU (either by dying or recovering). So it ends up predicting a flat line instead of dropping back down to zero.

The number of people going into ICU peaked on **Monday 21st March 2022**.

Number of covid-19 patients in ICU
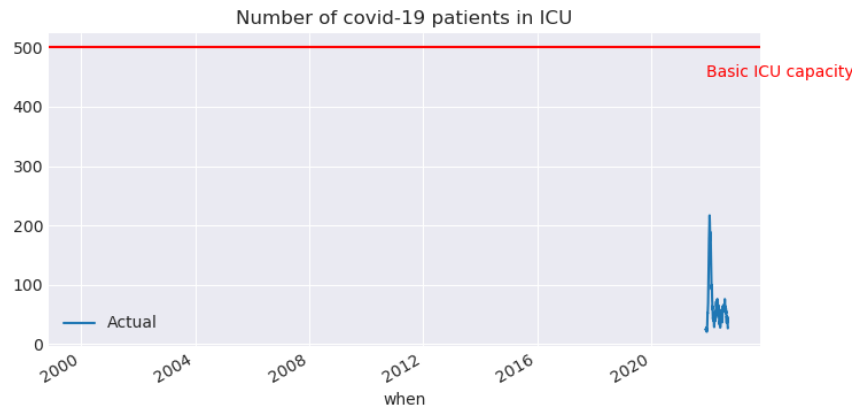
Number of people on ventilators

This model isn't smart enough to realise that people only need ventilators for a short time (either they recover or they die). So it ends up predicting a flat line.

The number of people needing ventilators peaked on **Sunday 26th December 2021**.

Number of covid-19 patients on ventilators
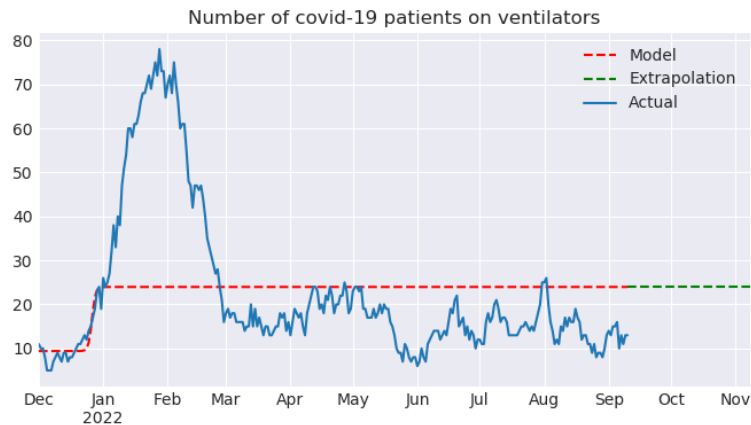
Number of confirmed infections

Predictions:

When	Total Infections	Infections that day
Sunday 11th September 2022	3555748	7875
Saturday 17th September 2022	3602339	7687
Saturday 24th September 2022	3655283	7471

When	Total Infections	Infections that day
Monday 10th October 2022	3770728	6992

The final number of infections (long-term) will be close to **5237900**.

According to the model, the number of people getting infected each day peaked on **Wednesday 8th September 2021**. This is a smoothed-out version of reality.

Note that the first chart (showing the population) is a *log* scale chart. Going up by one line in the chart means 10 times as many people have been infected.

It is possible that there are vastly more cases than have been reported (e.g. people who took a RAT test and then stayed home until they recovered without telling anyone and without taking a PCR test); it is also possible that people aren't testing (because they can't get RAT tests and because of the disincentives to testing) and so the numbers here are lower than reality.

Number of people who have been infected in NSW - log scale

Number of people who have been infected in NSW
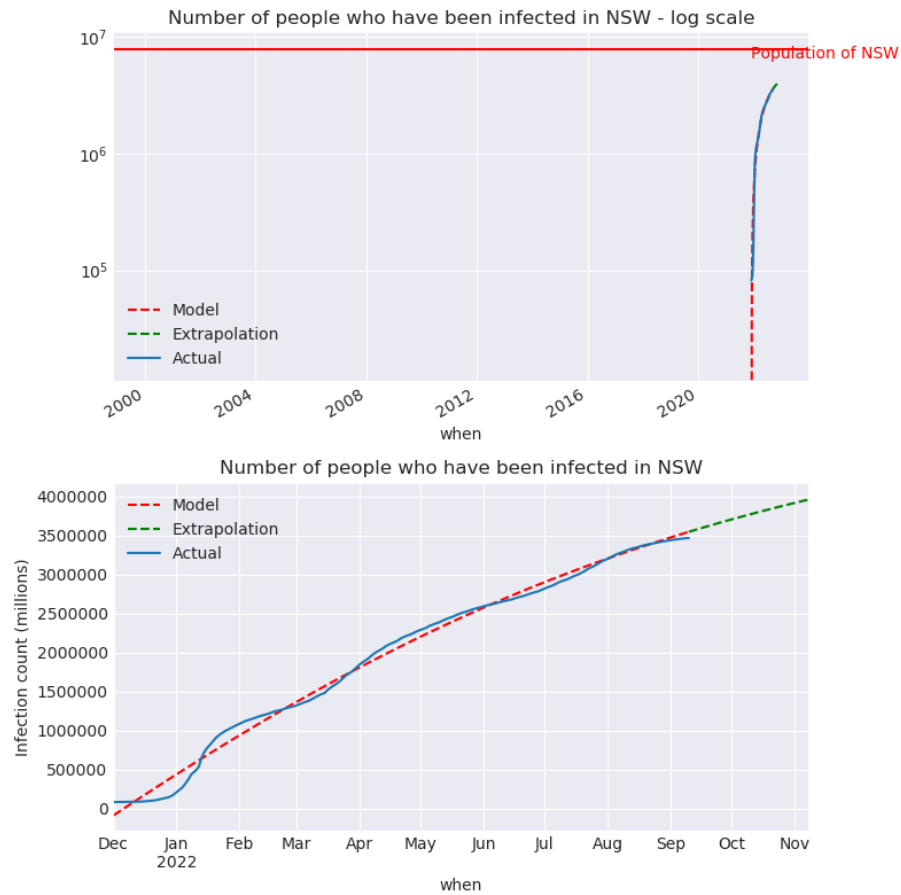
What could be wrong with this model?

- The hospitalisation, ICU and ventilator models all regress a logistic curve. They should regress a curve that returns back down to zero.

- I'm calculating everything independently of each other (hospitalisations aren't modelled as having a relationship to the number of cases). The further out you go the less accurate it is. Perhaps my inaccuracies are piling up so that even predicting 7 weeks into the future is wrong.