Contents

NSW Covid Update for 2022-09-03

This report is available in several formats:

- NSW Covid Report 2022-09-03 PDF Format

- NSW Covid Report 2022-09-03 Word Format

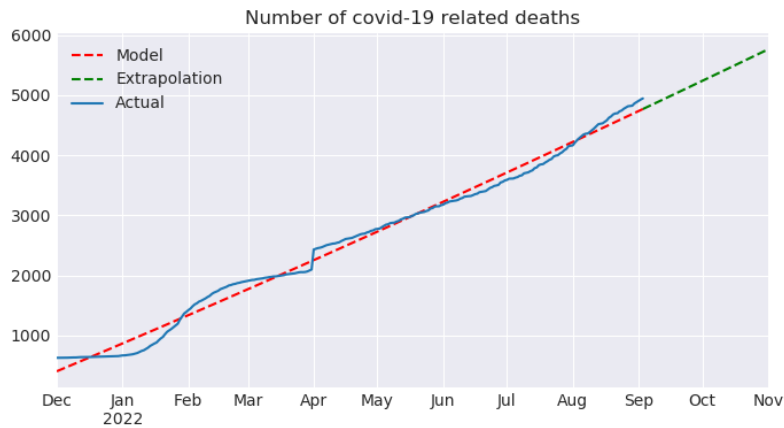- Online web page (always up-to-date)

Deaths

Predictions:

| When	Total Deaths	Deaths that Day
Sunday 4th September 2022	4793	16
Saturday 10th September 2022	4894	16
Monday 3rd October 2022	5280	16

The death rate will peak on **Tuesday 31st October 2023**.

The final number of deaths (long-term) will be close to **40616**.

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 **Friday 31st December 2021**.

Number of covid-19 patients in hospital
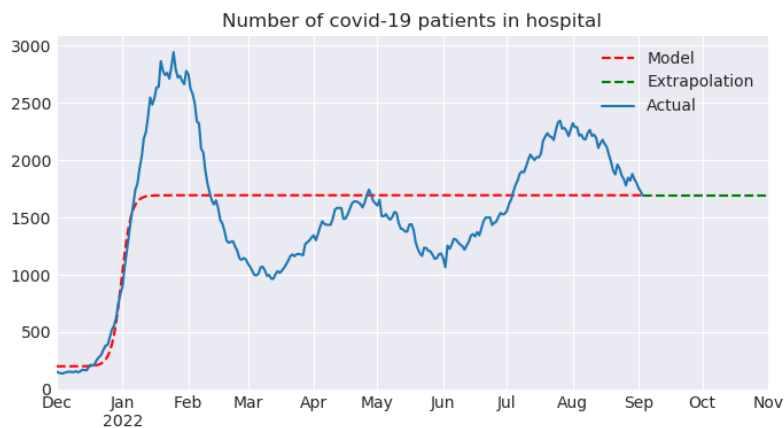
ICU

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
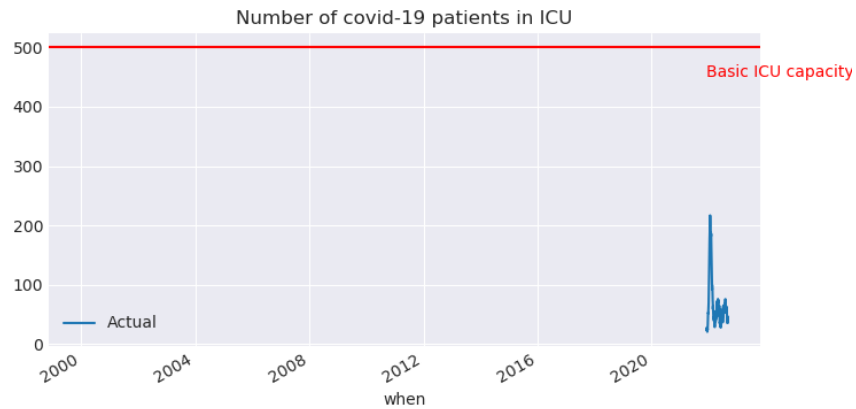
Number of people on ventilators

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
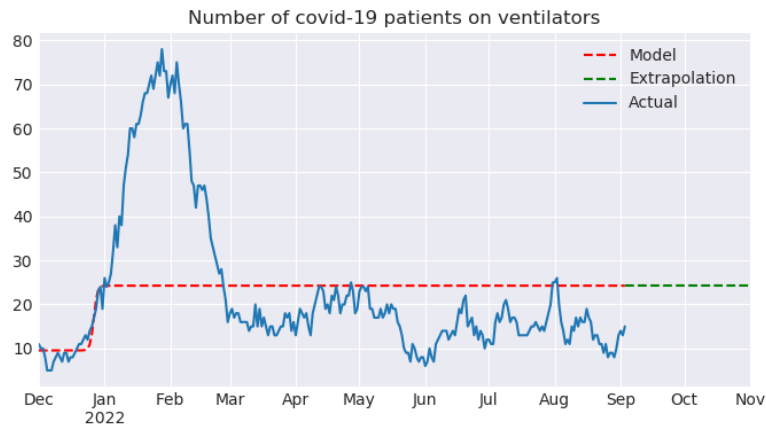
Number of confirmed infections

Predictions:

| When	Total Infections	Infections that day
Sunday 4th September 2022	3458551	7303
Saturday 10th September 2022	3501635	7093
Saturday 17th September 2022	3550328	6853

When	Total Infections	Infections that day
Monday 3rd October 2022	3655474	6327

The final number of infections (long-term) will be close to **4775261**.

According to the model, the number of people getting infected each day peaked on **Monday 4th October 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.
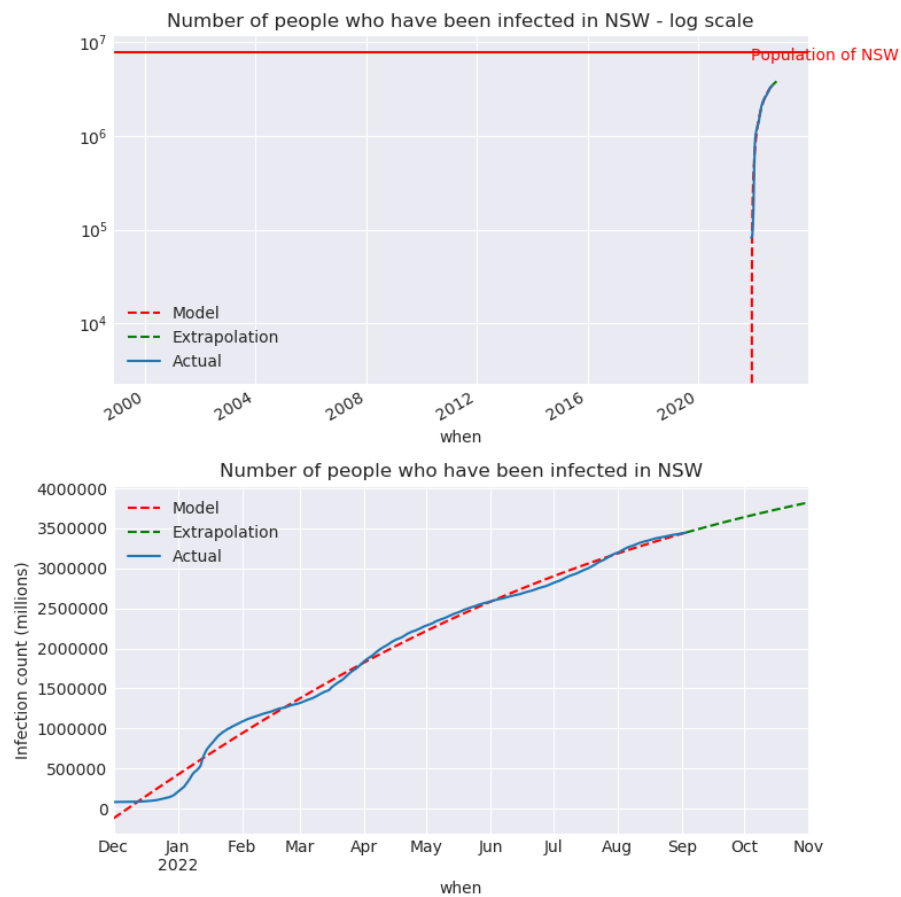
What could be wrong with this model?

- 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.