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NSW Covid Update for 2022-09-12

This report is available in several formats:

- NSW Covid Report 2022-09-12 PDF Format
- NSW Covid Report 2022-09-12 Word Format
- Online web page (always up-to-date)

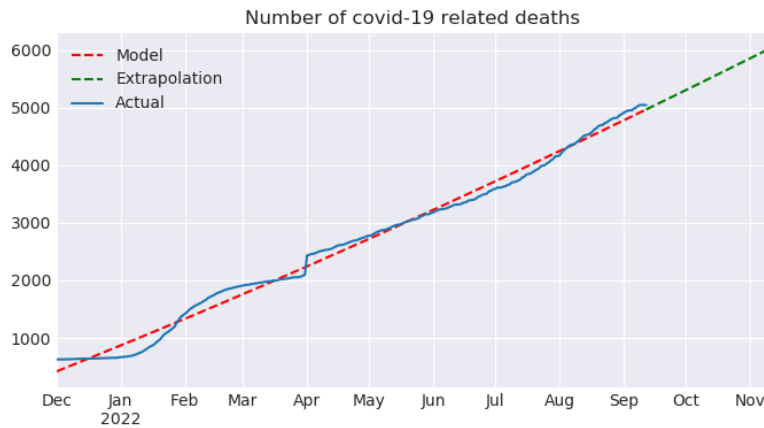
Deaths

Predictions:

When	Total Deaths	Deaths that Day
Tuesday 13th September 2022	4993	17
Monday 19th September 2022	5098	17
Wednesday 12th October 2022	5503	17

The death rate will peak on **Friday 22nd December 2023**.

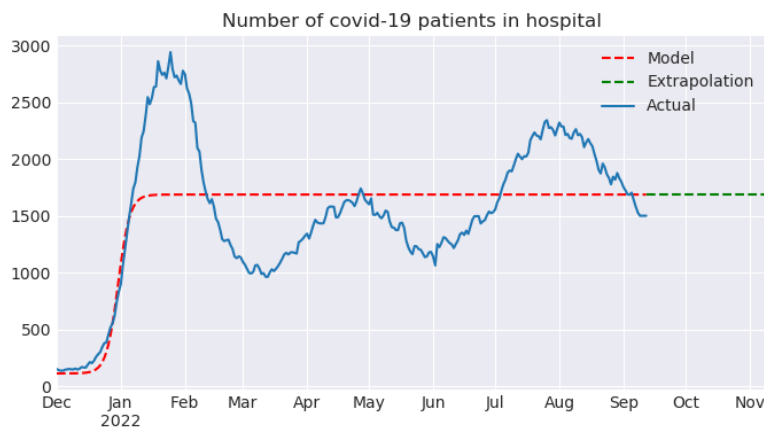
The final number of deaths (long-term) will be close to **39378**.



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.

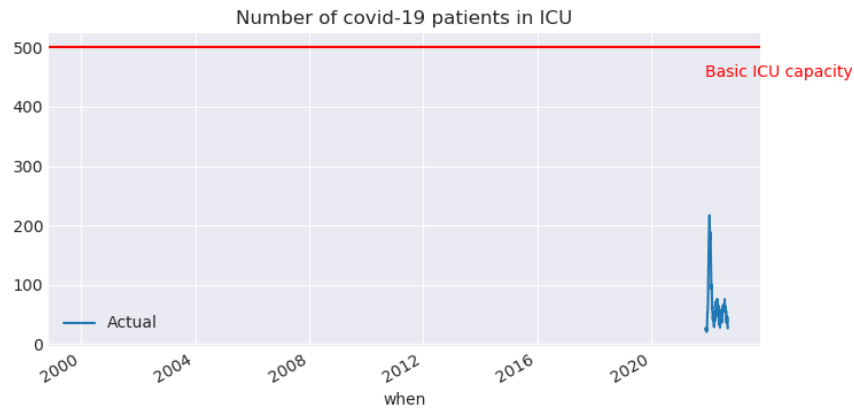
The number of people going into hospital peaked on **Thursday 30th December 2021**.



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.

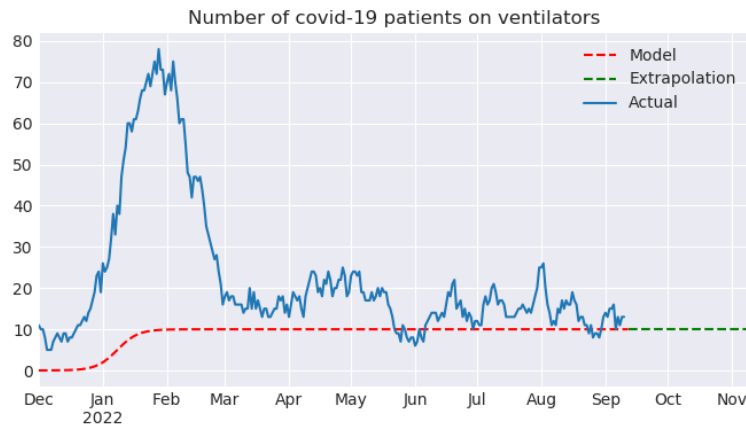
The number of people going into ICU peaked on **Monday 21st March 2022**.



Number of 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 **Saturday 8th January 2022**.



Number of confirmed infections

Predictions:

When	Total Infections	Infections that day
Tuesday 13th September 2022	3511782	6820
Monday 19th September 2022	3551977	6612
Monday 26th September 2022	3597318	6376

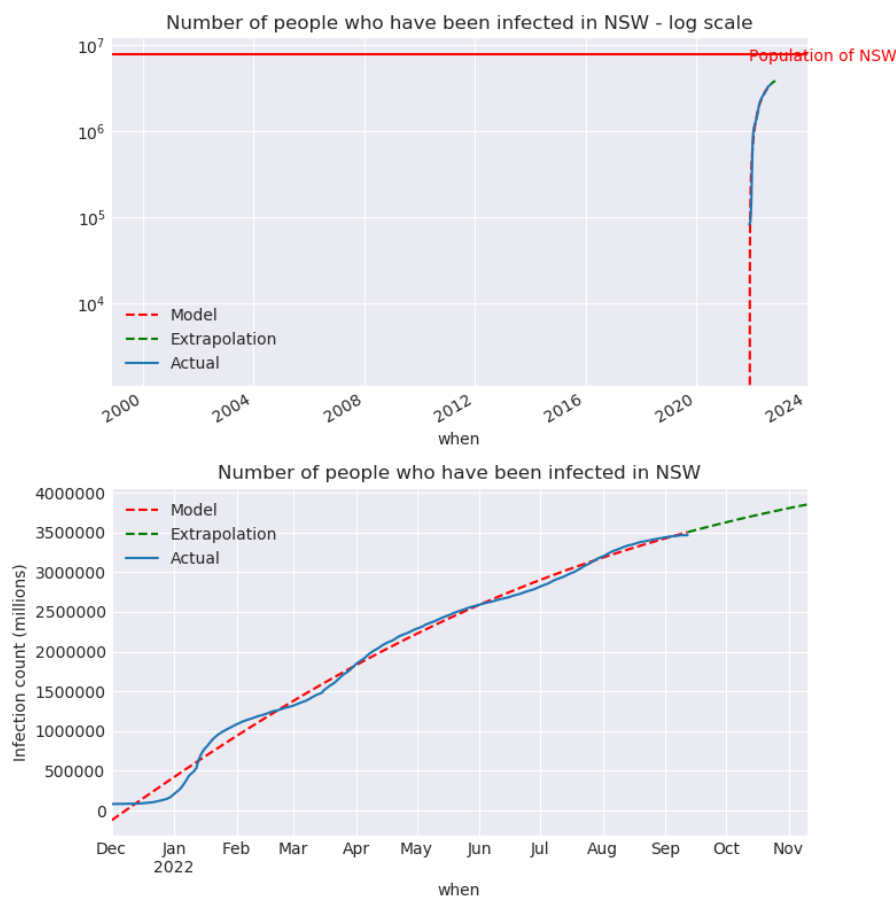
When	Total Infections	Infections that day
Wednesday 12th October 2022	3694899	5859

The final number of infections (long-term) will be close to **4683353**.

According to the model, the number of people getting infected each day peaked on **Friday 15th 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.