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## NSW Covid Update for 2022-01-23

This report is available in several formats:

- NSW Covid Report 2022-01-23 PDF Format
- NSW Covid Report 2022-01-23 Word Format
- Online web page (always up-to-date)

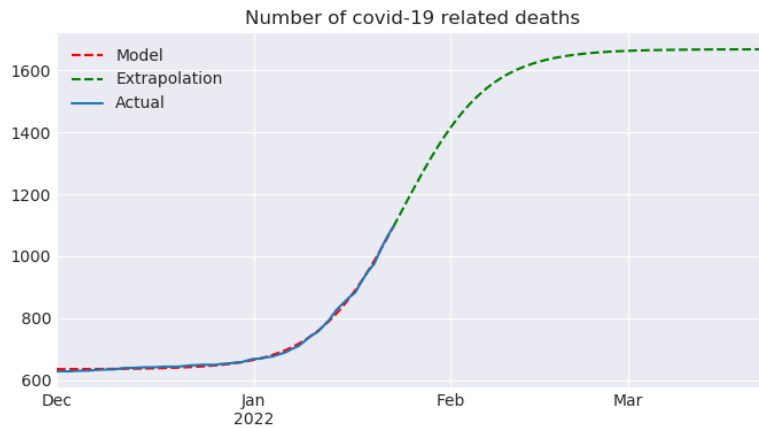
## Deaths

Predictions:

When	Total Deaths	Deaths that Day
Monday 24th January 2022	1154.0	39.0
Sunday 30th January 2022	1371.0	33.0
Tuesday 22nd February 2022	1655.0	2.0

The death rate will peak on **Monday 24th January 2022**.

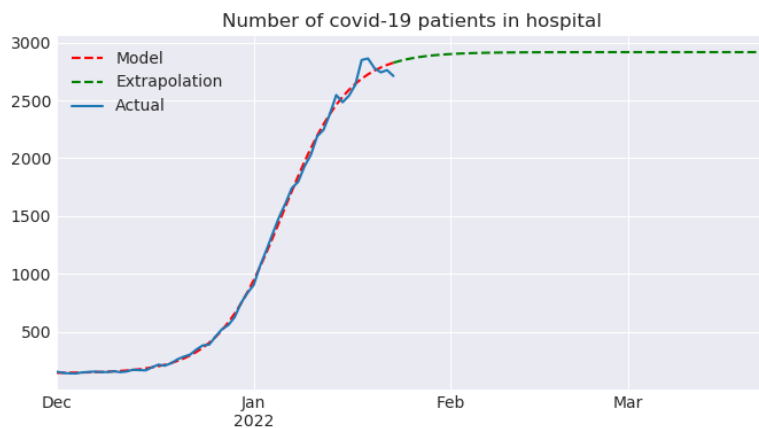
The final number of deaths (long-term) will be close to **1669.0**.



## 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 **Wednesday 5th January 2022**.

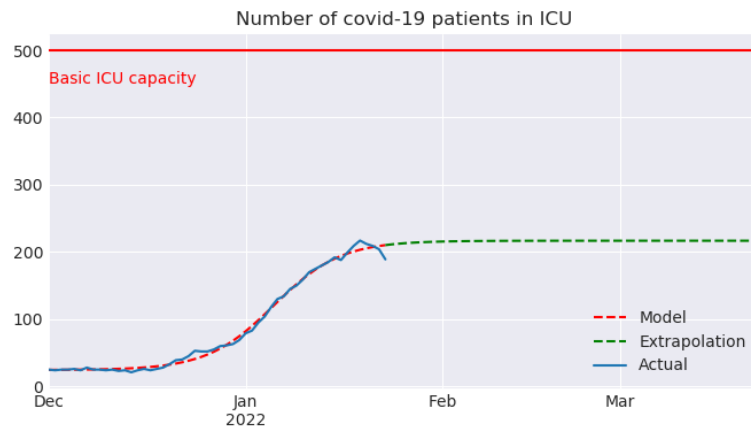


## ICU

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 **Wednesday 5th January**

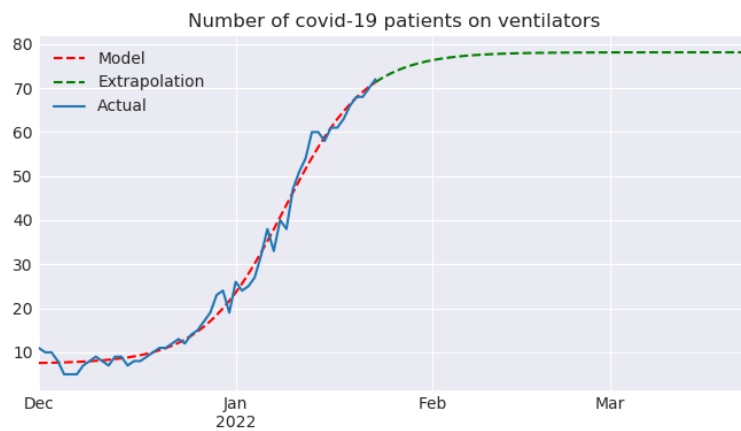
2022.



## 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

When	Total Infections	Infections that day
Monday 24th January 2022	994703.0	17393.0
Sunday 30th January 2022	1058530.0	6909.0
Sunday 6th February 2022	1084614.0	2099.0

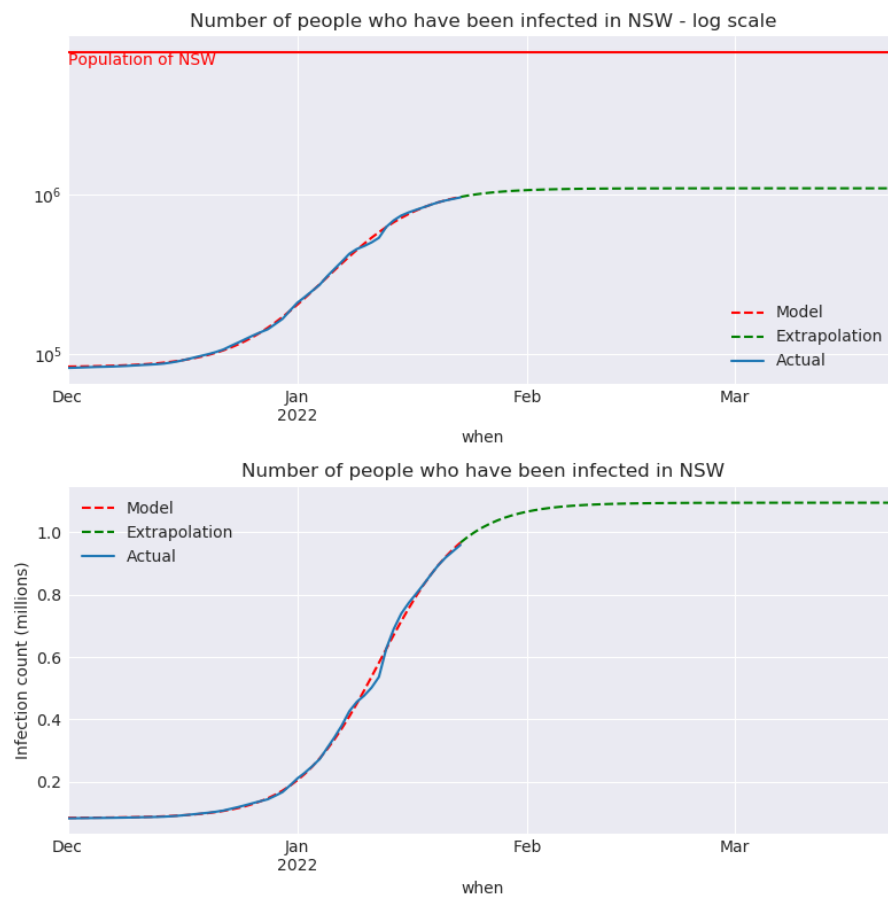
When	Total Infections	Infections that day
Tuesday 22nd February 2022	1094864.0	124.0

The final number of infections (long-term) will be close to **1095497.0**.

According to the model, the number of people getting infected each day peaked on **Wednesday 12th January 2022**. 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.