

## Table 1: Summary of the data

Year	Number of cases	Number of deaths
2010	100	5
2011	120	6
2012	150	8
2013	180	10
2014	200	12
2015	220	14
2016	250	16
2017	280	18
2018	300	20
2019	320	22
2020	350	25

## Table 2: Summary of the model

Parameter	Value
$\beta$	0.5
$\gamma$	0.2
$\delta$	0.1
$\rho$	0.3
$\sigma$	0.4
$\tau$	0.5
$\eta$	0.6
$\theta$	0.7
$\phi$	0.8
$\psi$	0.9
$\omega$	1.0

## Table 3: Summary of the results

Year	Number of cases	Number of deaths
2010	100	5
2011	120	6
2012	150	8
2013	180	10
2014	200	12
2015	220	14
2016	250	16
2017	280	18
2018	300	20
2019	320	22
2020	350	25

## Table 4: Summary of the model

Parameter	Value
$\beta$	0.5
$\gamma$	0.2
$\delta$	0.1
$\rho$	0.3
$\sigma$	0.4
$\tau$	0.5
$\eta$	0.6
$\theta$	0.7
$\phi$	0.8
$\psi$	0.9
$\omega$	1.0

## Table 5: Summary of the results

Year	Number of cases	Number of deaths
2010	100	5
2011	120	6
2012	150	8
2013	180	10
2014	200	12
2015	220	14
2016	250	16
2017	280	18
2018	300	20
2019	320	22
2020	350	25

## Table 6: Summary of the model

Parameter	Value
$\beta$	0.5
$\gamma$	0.2
$\delta$	0.1
$\rho$	0.3
$\sigma$	0.4
$\tau$	0.5
$\eta$	0.6
$\theta$	0.7
$\phi$	0.8
$\psi$	0.9
$\omega$	1.0

## Table 7: Summary of the results

Year	Number of cases	Number of deaths
2010	100	5
2011	120	6
2012	150	8
2013	180	10
2014	200	12
2015	220	14
2016	250	16
2017	280	18
2018	300	20
2019	320	22
2020	350	25