

## Table 1: Summary of the data

Year	Number of cases	Number of deaths
2010	1000	50
2011	1200	60
2012	1500	75
2013	1800	90
2014	2000	100
2015	2200	110
2016	2500	125
2017	2800	140
2018	3000	150
2019	3200	160
2020	3500	175

## Table 2: Summary of the model

Parameter	Value
$\beta$	0.5
$\gamma$	0.1
$\delta$	0.05
$\rho$	0.2
$\sigma$	0.1
$\tau$	0.1
$\eta$	0.1
$\theta$	0.1
$\phi$	0.1
$\psi$	0.1
$\chi$	0.1
$\lambda$	0.1
$\mu$	0.1
$\nu$	0.1
$\xi$	0.1
$\zeta$	0.1
$\eta$	0.1
$\theta$	0.1
$\phi$	0.1
$\psi$	0.1
$\chi$	0.1
$\lambda$	0.1
$\mu$	0.1
$\nu$	0.1
$\xi$	0.1
$\zeta$	0.1

## Table 3: Summary of the results

Year	Number of cases	Number of deaths
2010	1000	50
2011	1200	60
2012	1500	75
2013	1800	90
2014	2000	100
2015	2200	110
2016	2500	125
2017	2800	140
2018	3000	150
2019	3200	160
2020	3500	175

## Table 4: Summary of the model

Parameter	Value
$\beta$	0.5
$\gamma$	0.1
$\delta$	0.05
$\rho$	0.2
$\sigma$	0.1
$\tau$	0.1
$\eta$	0.1
$\theta$	0.1
$\phi$	0.1
$\psi$	0.1
$\chi$	0.1
$\lambda$	0.1
$\mu$	0.1
$\nu$	0.1
$\xi$	0.1
$\zeta$	0.1
$\eta$	0.1
$\theta$	0.1
$\phi$	0.1
$\psi$	0.1
$\chi$	0.1
$\lambda$	0.1
$\mu$	0.1
$\nu$	0.1
$\xi$	0.1
$\zeta$	0.1

## Table 5: Summary of the results

Year	Number of cases	Number of deaths
2010	1000	50
2011	1200	60
2012	1500	75
2013	1800	90
2014	2000	100
2015	2200	110
2016	2500	125
2017	2800	140
2018	3000	150
2019	3200	160
2020	3500	175

## Table 6: Summary of the model

Parameter	Value
$\beta$	0.5
$\gamma$	0.1
$\delta$	0.05
$\rho$	0.2
$\sigma$	0.1
$\tau$	0.1
$\eta$	0.1
$\theta$	0.1
$\phi$	0.1
$\psi$	0.1
$\chi$	0.1
$\lambda$	0.1
$\mu$	0.1
$\nu$	0.1
$\xi$	0.1
$\zeta$	0.1
$\eta$	0.1
$\theta$	0.1
$\phi$	0.1
$\psi$	0.1
$\chi$	0.1
$\lambda$	0.1
$\mu$	0.1
$\nu$	0.1
$\xi$	0.1
$\zeta$	0.1

## Table 7: Summary of the results

Year	Number of cases	Number of deaths
2010	1000	50
2011	1200	60
2012	1500	75
2013	1800	90
2014	2000	100
2015	2200	110
2016	2500	125
2017	2800	140
2018	3000	150
2019	3200	160
2020	3500	175