

CSC8626 Data Visualization Summative Assignment: Data file 007 description



	Longitude	Latitude	Unique cell ID	Population of this cell	Simulation output 0	Simulation output 1	Simulation output 2	Simulation output 3	Mean of outputs	Variance of outputs	Standard deviation	Index of dispersion	Coeff. Of Variance
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	x	y	cell_id	population	infected_DM_0	infected_DM_1	infected_DM_2	infected_DM_3	u	var	sd	IoD	CoV
2	-2.26554	53.42045	6.5045E+18	22	1	0	0	2	0.75	0.916667	0.957427	1.222222	1.276569
3	-2.2656	53.42944	8.6856E+18	38	0	1	0	0	0.25	0.25	0.5	1	2
4	-2.26569	53.44472	-7.9034E+18	59	0	0	0	1	0.25	0.25	0.5	1	2
5	-2.26586	53.47169	3.4098E+18	125	0	0	1	0	0.25	0.25	0.5	1	2
6	-2.26412	53.43394	-5.5302E+16	54	1	1	0	0	0.5	0.333333	0.57735	0.666667	1.154701
7	-2.26415	53.43933	-1.7991E+18	68	1	1	0	1	0.75	0.25	0.5	0.333333	0.666667
8	-2.26418	53.44383	-6.9222E+18	42	0	1	1	0	0.5	0.333333	0.57735	0.666667	1.154701
9	-2.26433	53.4681	7.3135E+18	27	1	0	0	0	0.25	0.25	0.5	1	2

The city of Manchester has been divided into a grid of equal size cells, each row in the file refers to one cell. The simulation has estimated four outcomes (count of infected people) for each cell, in related but slightly different wind conditions. The four outputs are all calculated at the same point in time, and have also assumed that people don't move. Cells that have all zero values have been omitted from the data file.

Calculated for you is the mean of these outcomes and four measures of variance. In your visualization you can use the mean (u) of the four outcomes as the measure of impact (number of infections) and one of the four measures of variance given as the measure of uncertainty.

Variance and standard deviation are in units related to the data, the CoV and IoD are in relative units and can be better for comparisons.