

#### **Additional file 4: Sample weather data input file (in CSV format) for the ABM<sub>vagus</sub>**

The ABM<sub>vagus</sub> (Additional file 2) also requires an weather data file as its another input. The standard text editor (e.g., Notepad for Windows, TextEdit for Mac, etc.) can be used to view and to modify. It contains four columns. They are Date, Max (i.e., Maximum temperature of the day), Min (i.e., Minimum temperature of the day), Avg(i.e., Average temperature of the day), Rainfall (in mm of the day).