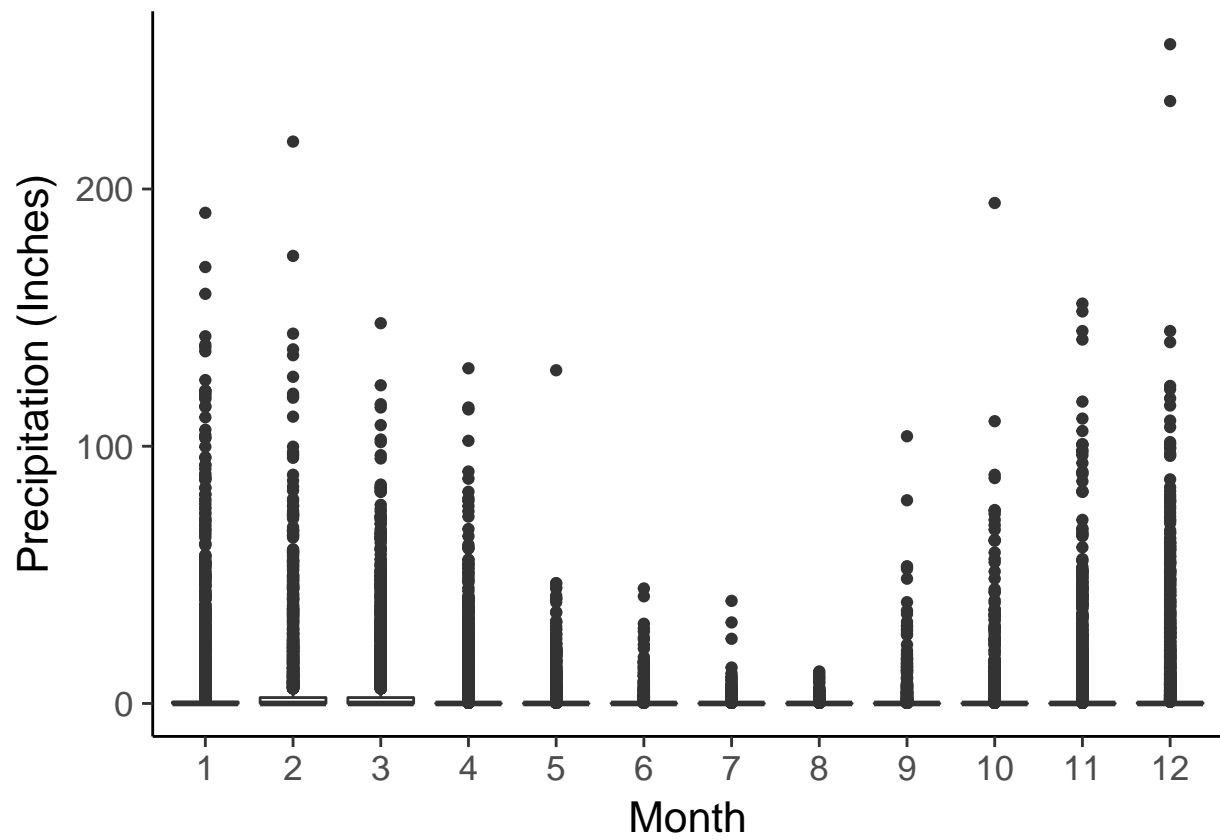


ESM 262 Assignment 1

Rucha Thakar

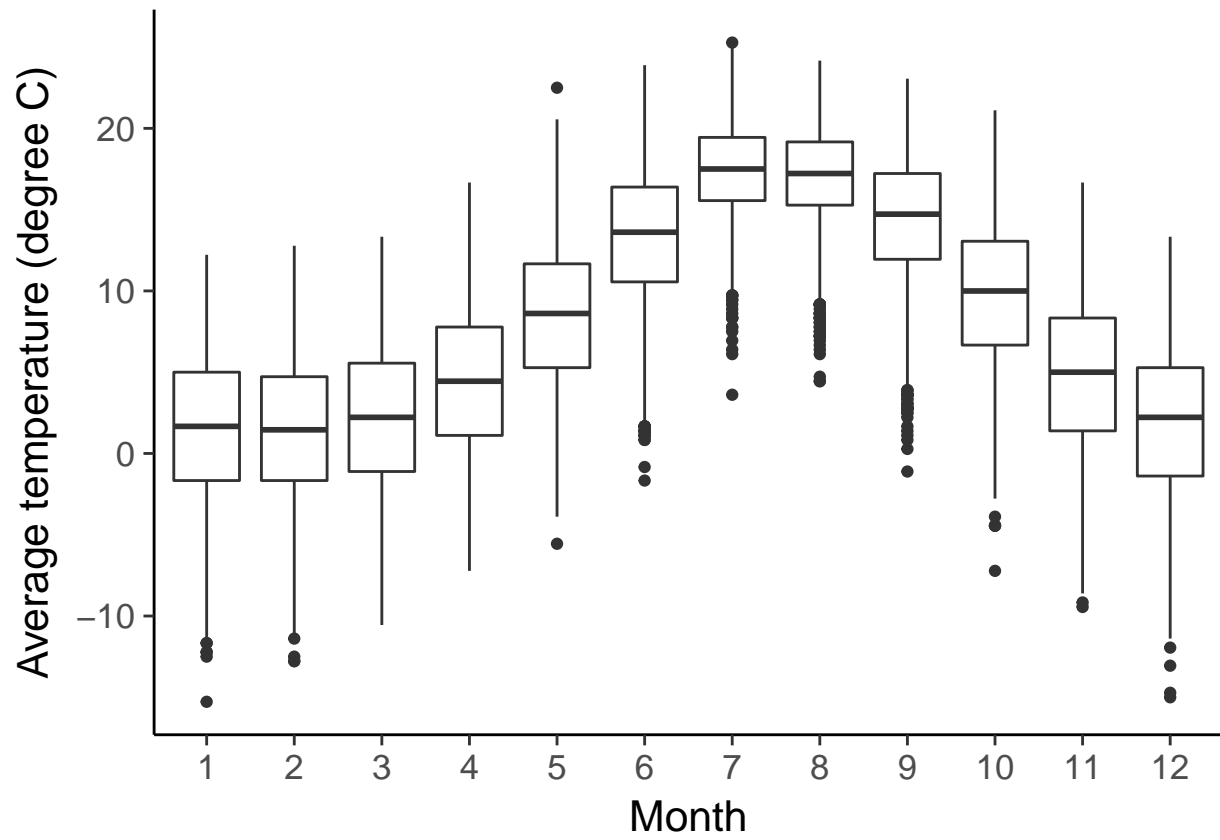
May 3, 2017

Precipitation by month

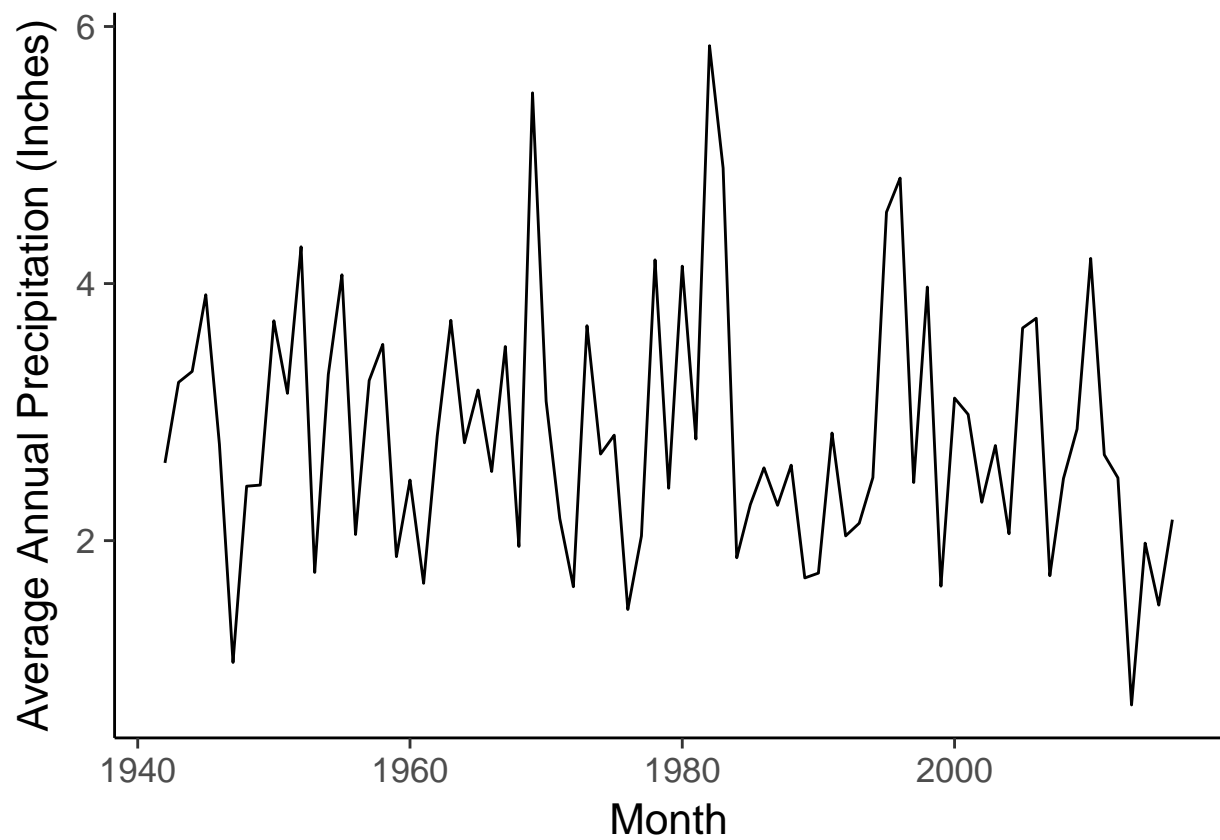


Temperature by month

Average monthly temperature is calculated as the average of minimum and maximum temperatures.



Wettest and driest years



Year of maximum precipitation i.e. wettest year is 1982 Year of minimum precipitation is 2013.

Visual representation of wet ecosystem



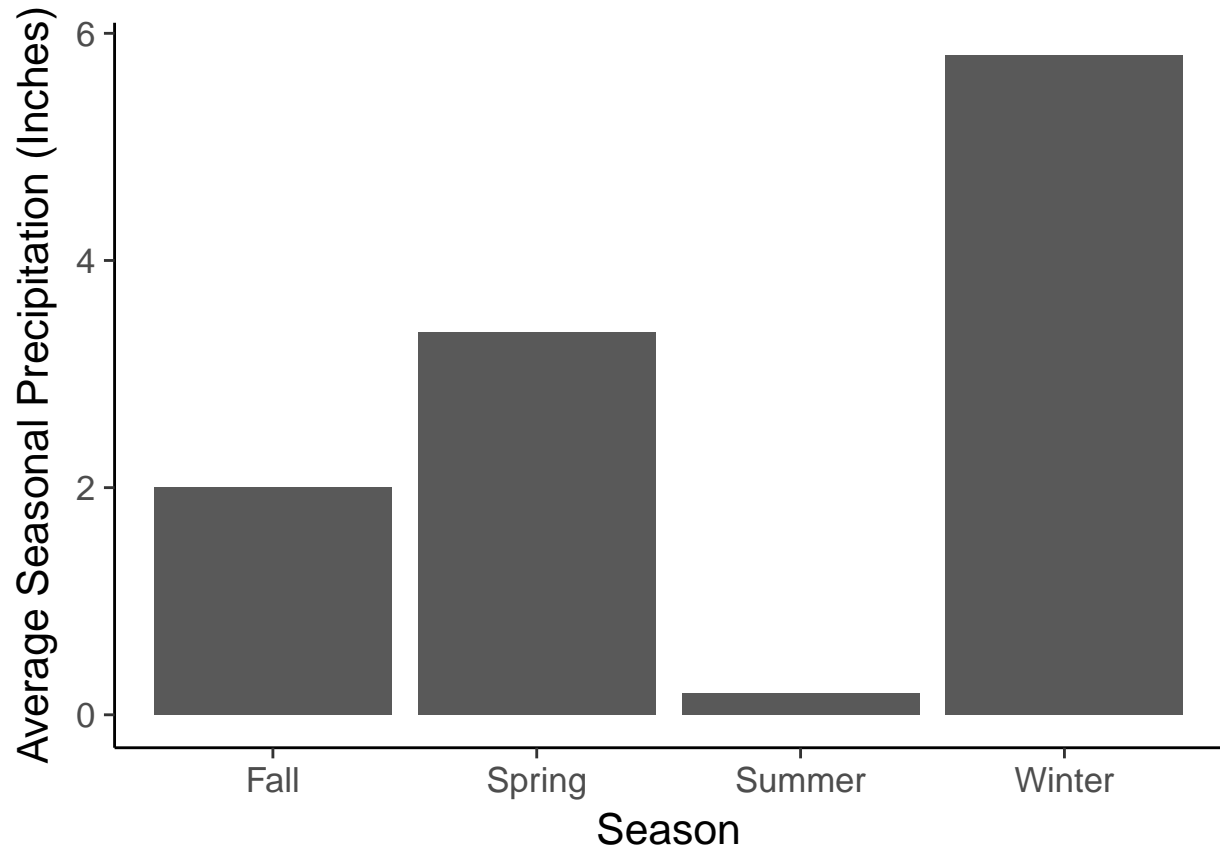
Figure 1: wet year for an urban ecosystem

Visual representation of wet ecosystem



Figure 2: dry year for an urban ecosystem

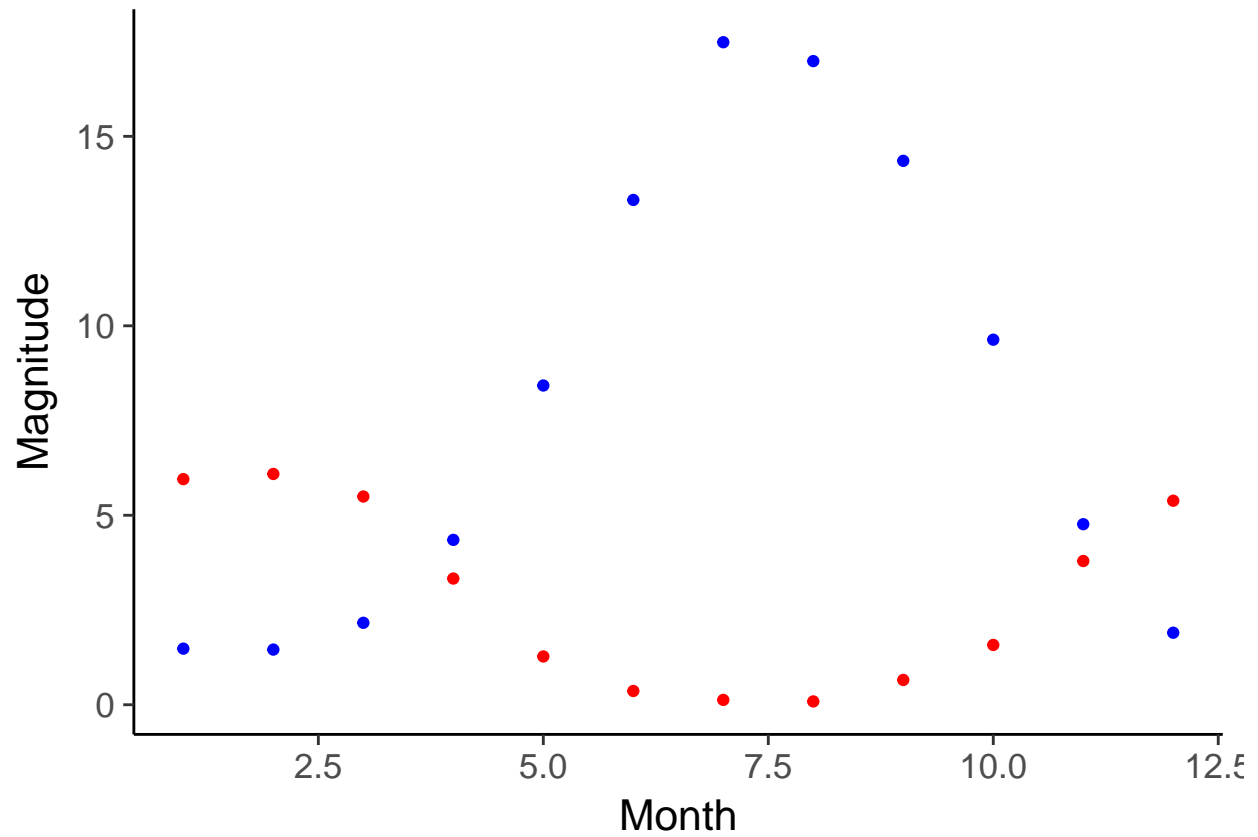
Seasonal variability



Winter is the wettest season and Summer is the driest season.

Relationship between summer and winter

Average monthly values are calculated as mean of monthly observations over the number of years in clim.txt dataset.



Blue represents average monthly temperature and red represents average monthly rainfall. As seen from this graph, in summer months (month 5 to 8) temperature increases and in winter months (month 11 to 2), rainfall is high. This is explanatory of the location's water cycle - water that evaporates in summer because of high temperature returns to the earth's surface reservoirs through rainfall in winter.