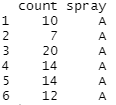
PS4 Report

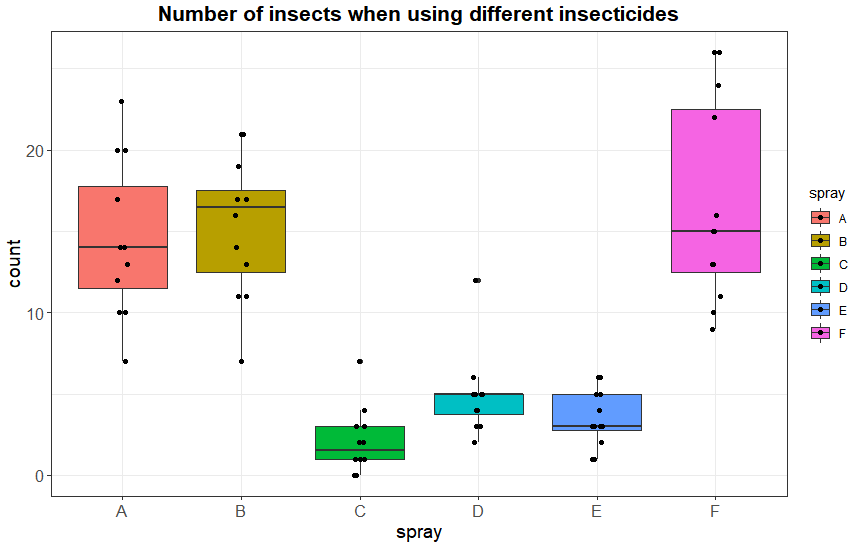
蒲东川 12049029

**1.**

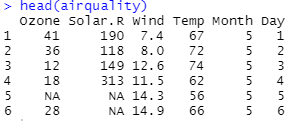
(1)

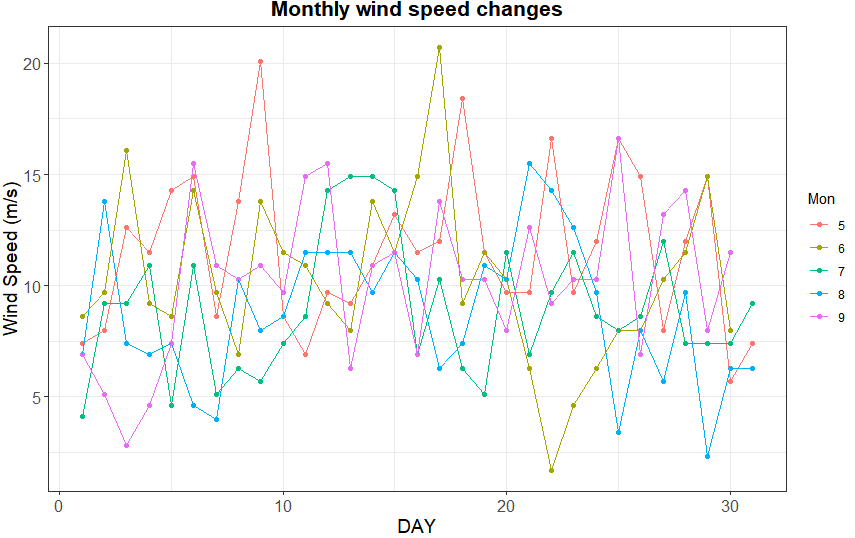
Select the InsectSprays data from R,which shows the number of insects when using different insecticides.



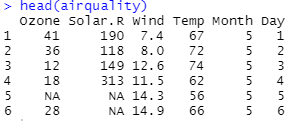


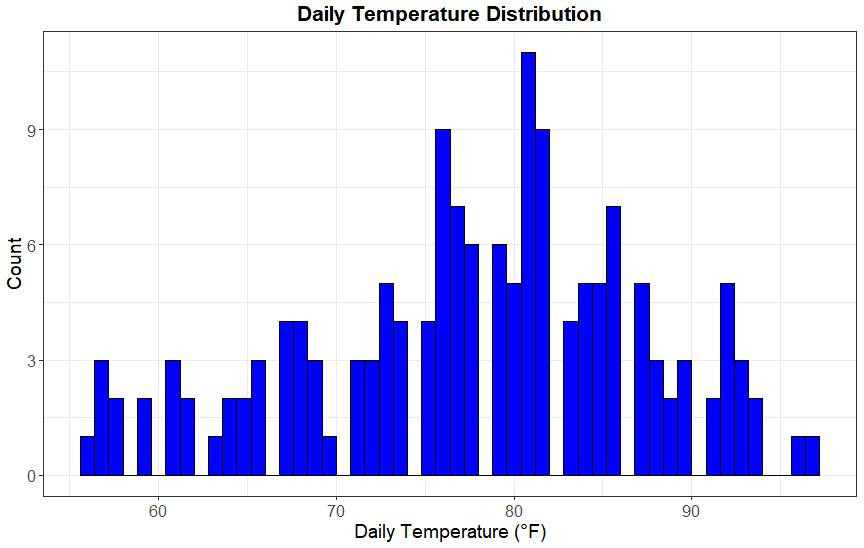
(2)Select the airquality data from R



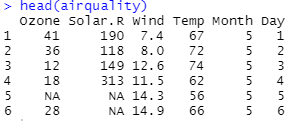


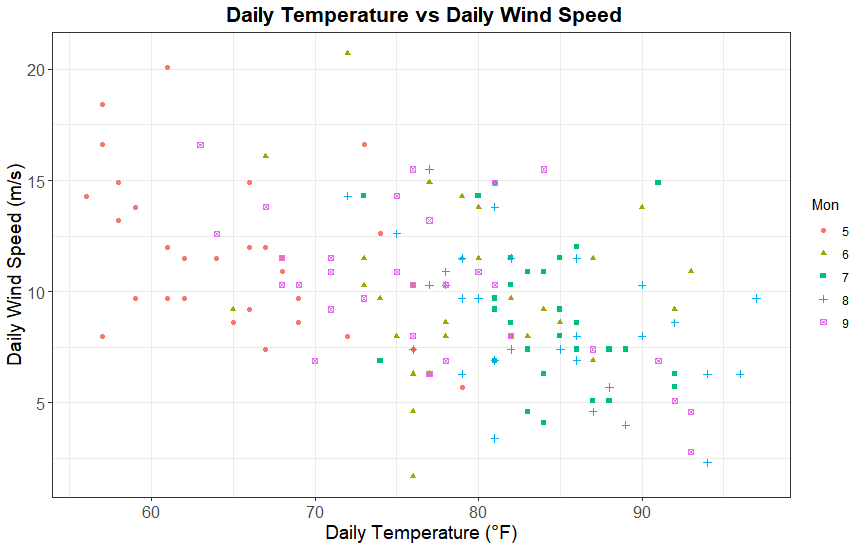
1. Select the airquality data from R



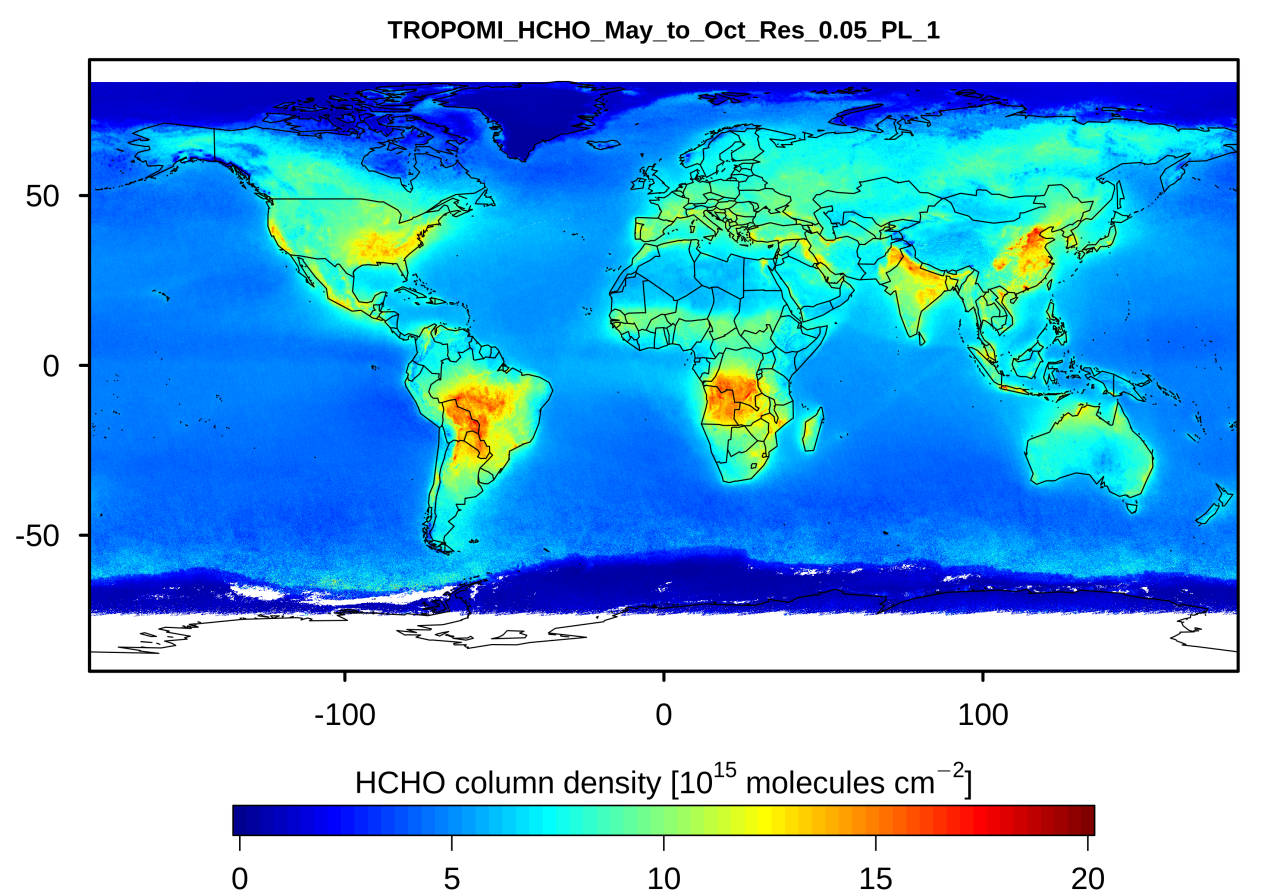


(4)Select the airquality data from R



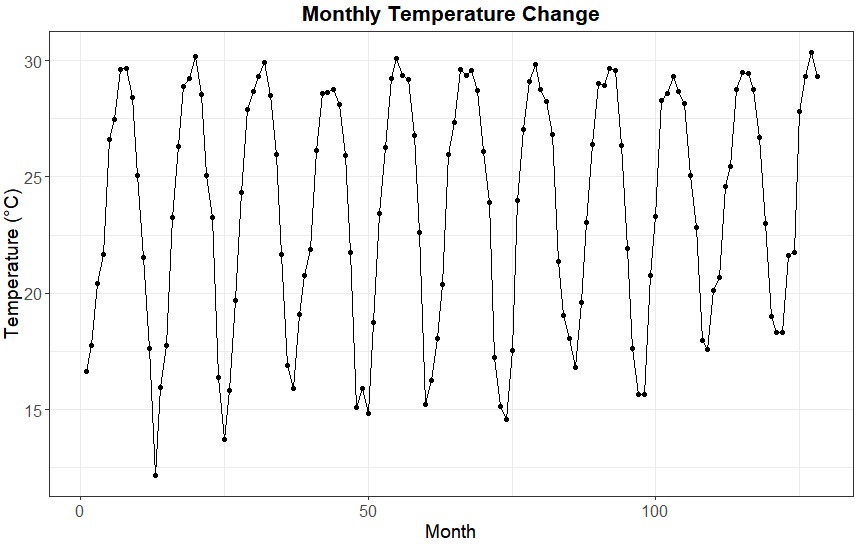


(5)

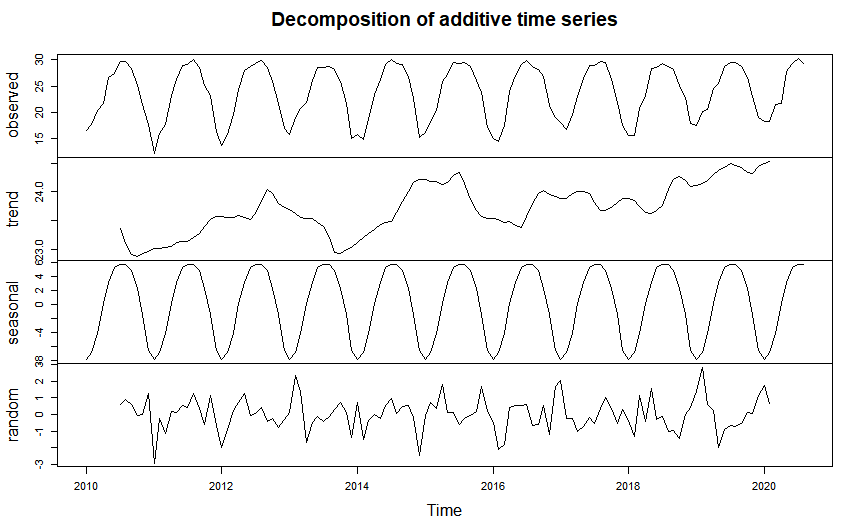


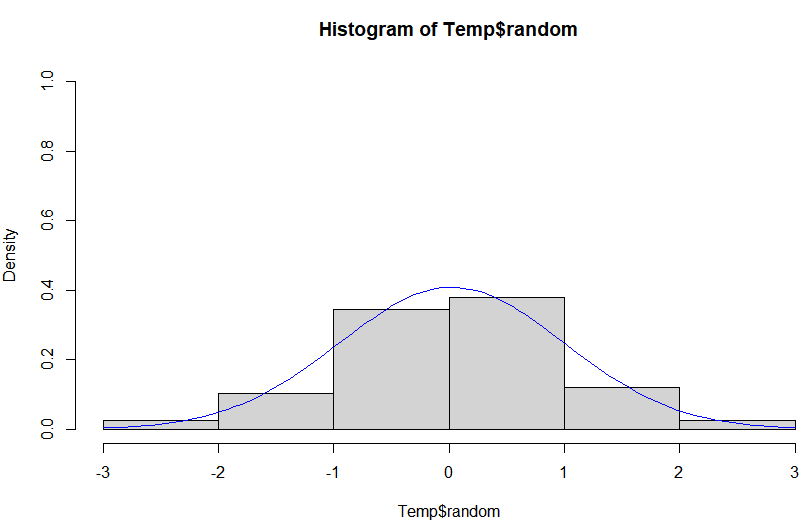
**2.**

**2.1**

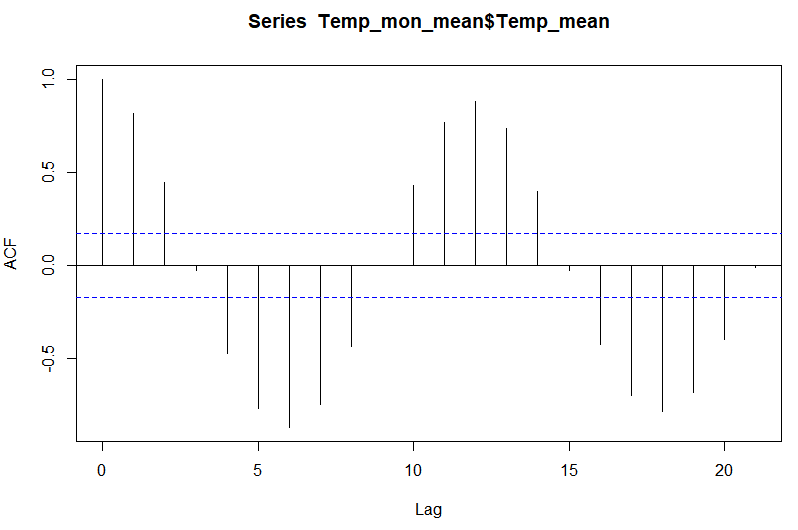


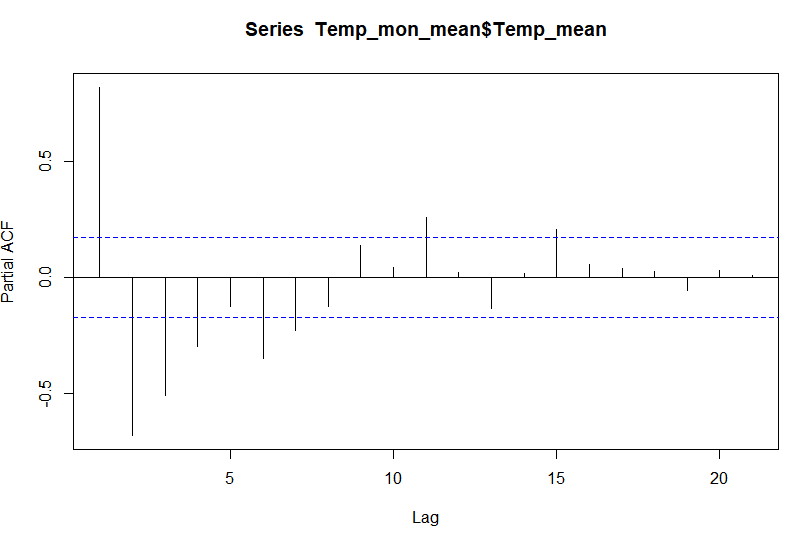
**2.2：**Decompose the time series using the decompose function. It can be seen that the noise satisfies the normal distribution

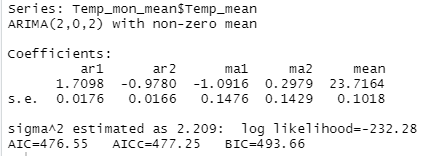




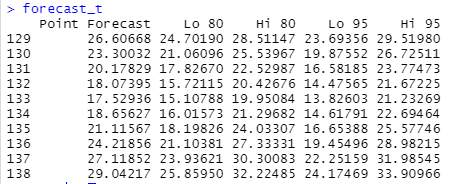
**2.3：**Use auto.arima function directly for fitting ARIMA model. This function can directly solve the ARIMA question.



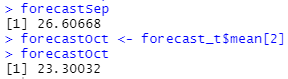




**2.4：**



Forecast results for September and October:



Actual value in September:

