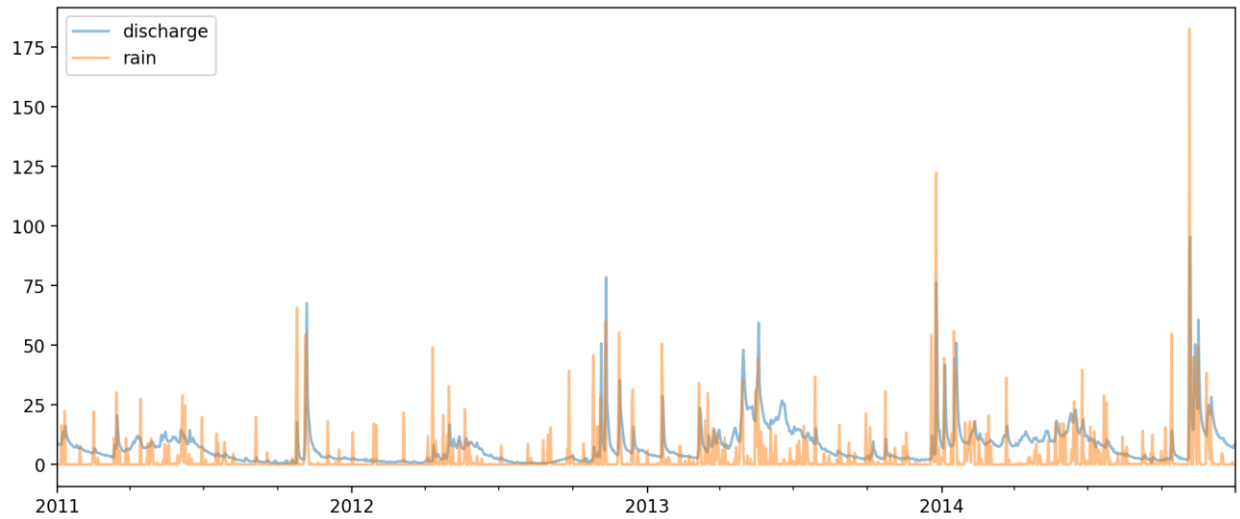


Line plot of precipitation and discharge:

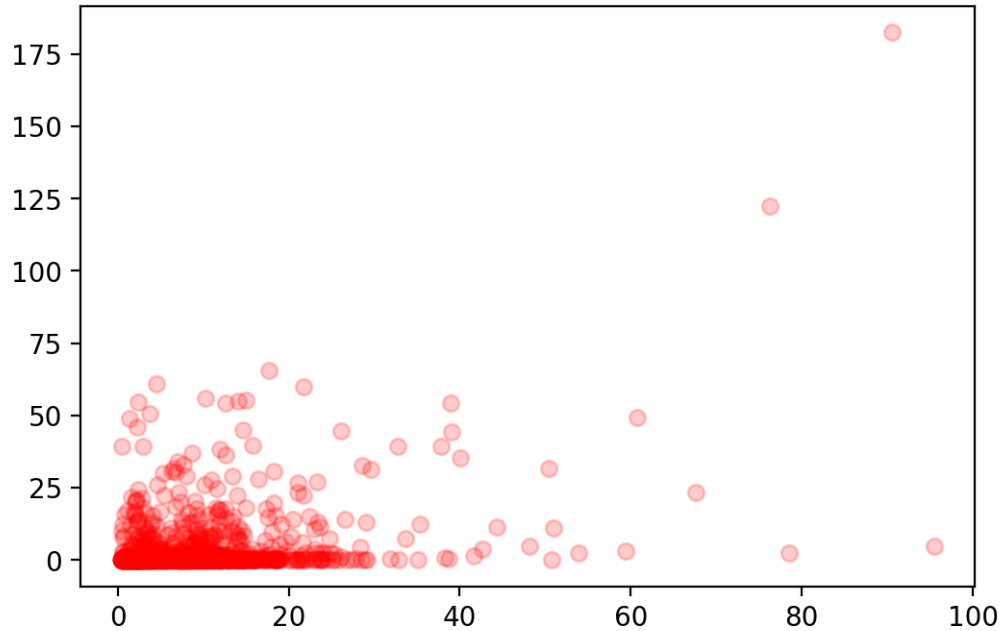


Correlation(R^2 value):

Whole Data:

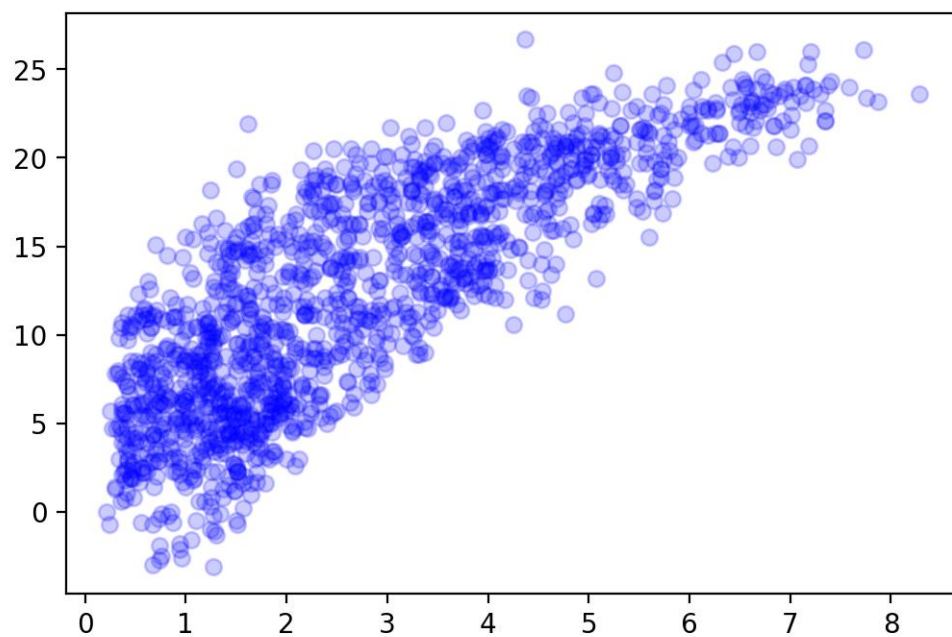
Discharge-Precipitation:

R^2 value = 0.39365043



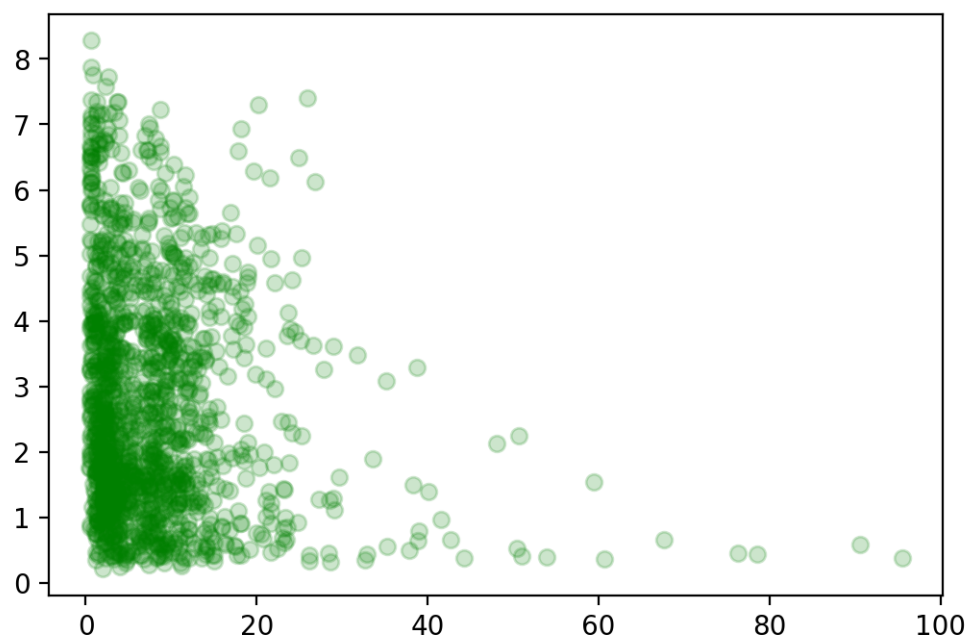
Evaporation-Temperature:

R² value = 0.81584188



Discharge-Evaporation:

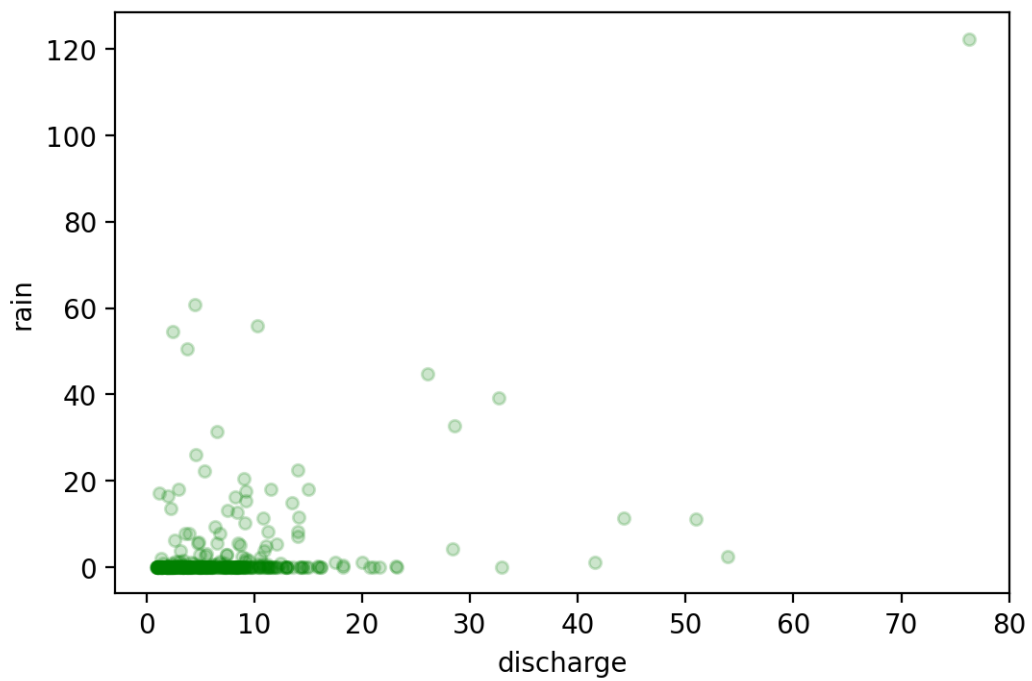
R² value = -0.14355718



Seasonal:

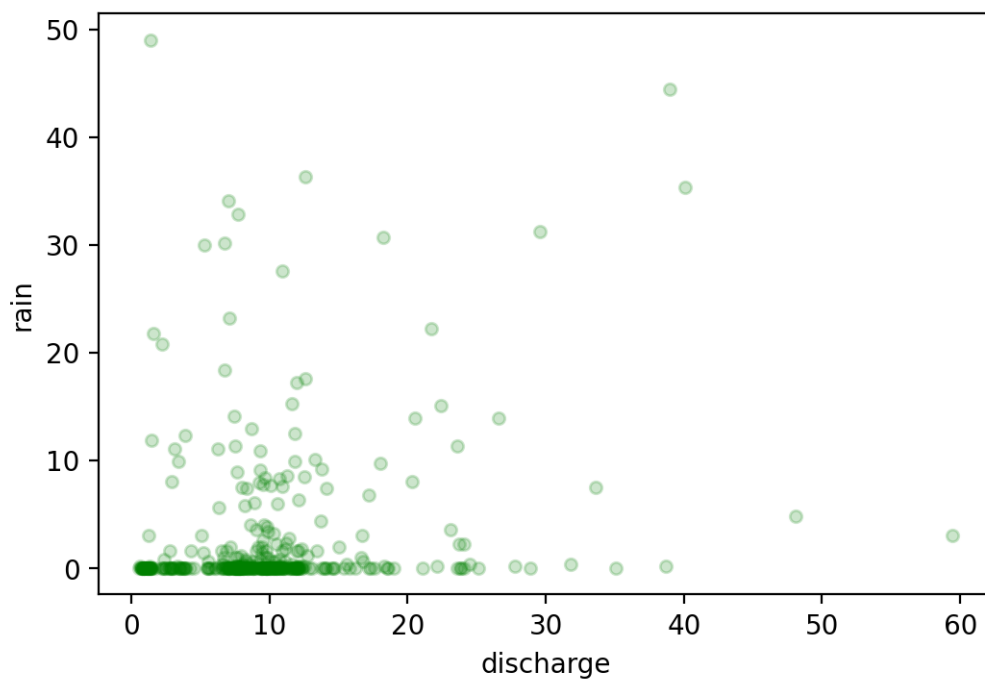
Winter Data:

R^2 value = 0.43496245



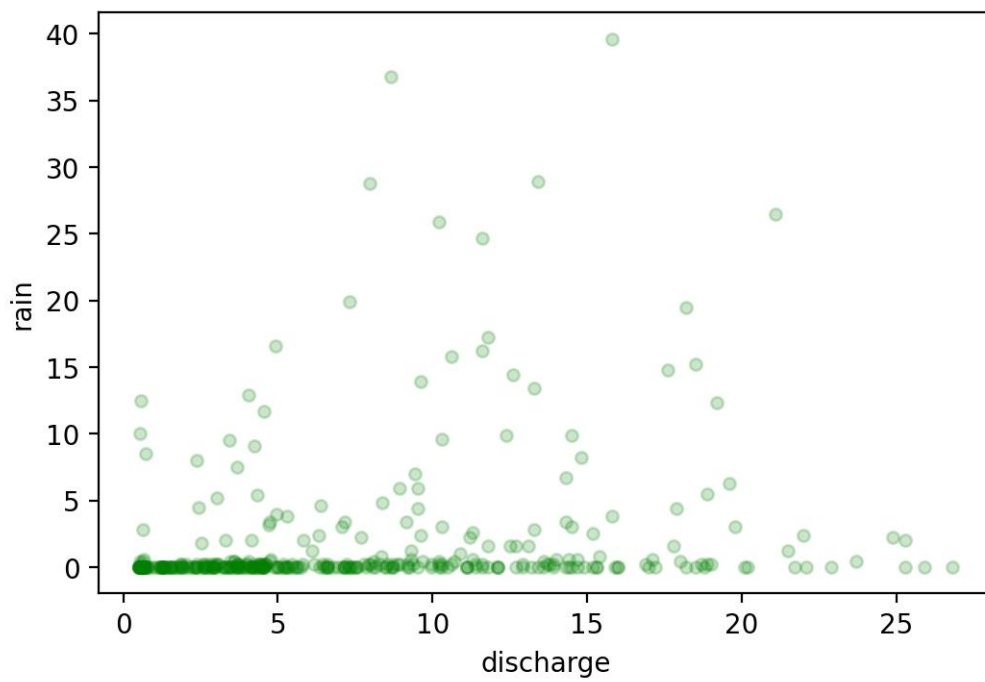
Spring Data:

R^2 value = 0.20112483



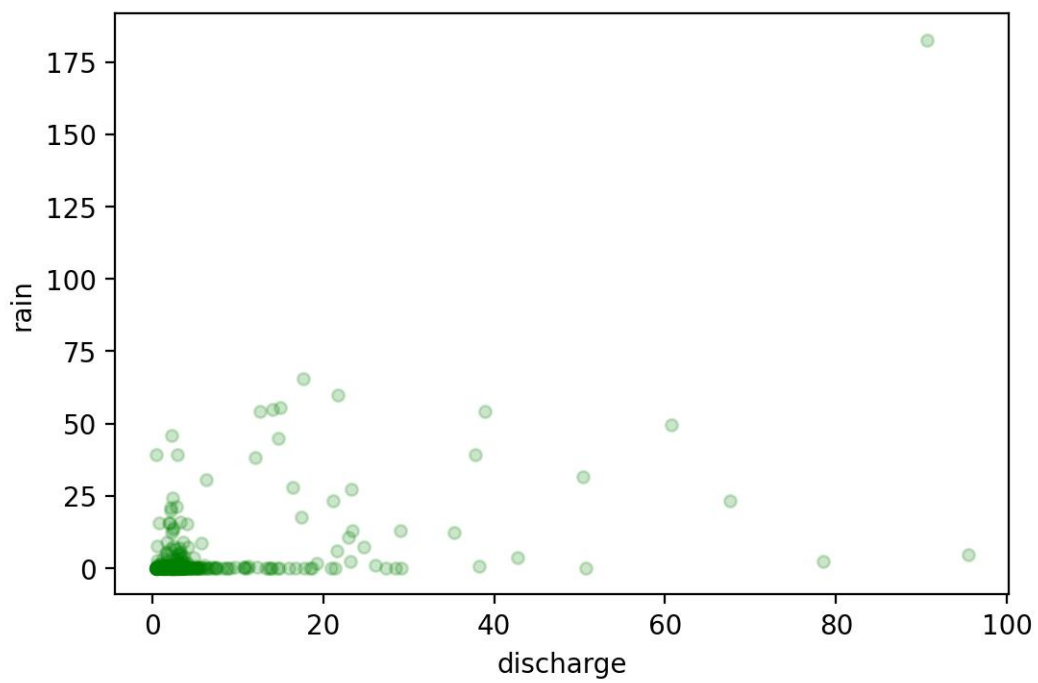
Summer Data:

R^2 value = 0.21377479



Autumn Data:

R^2 value = 0.49951697



Numerical Modeling:

I have prepared all the necessary data in the Arc Map and run the model in Mike-NAM as well as HEC-HMS. I think we have all the required data for running the numerical model we only need to discuss the value of some parameters.

Water Balance:

I have not calculated the water balance yet.