

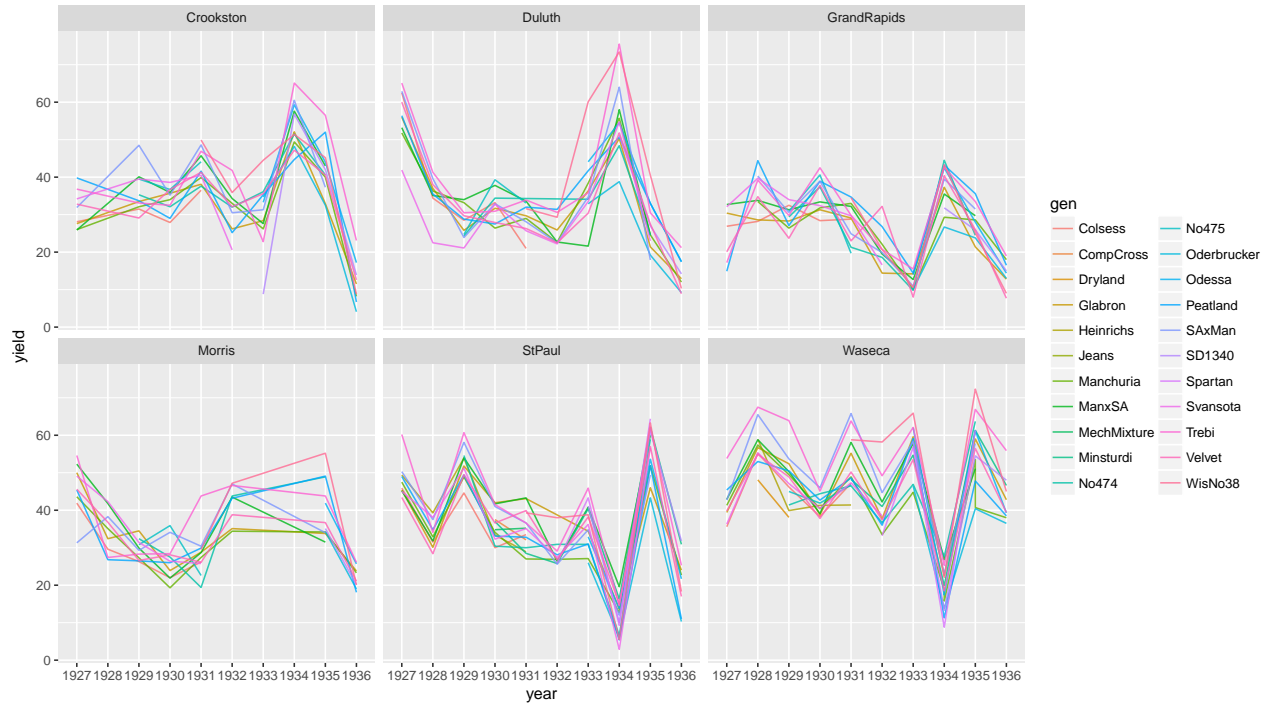
Assignment - 6

Dwipam

3/21/2017

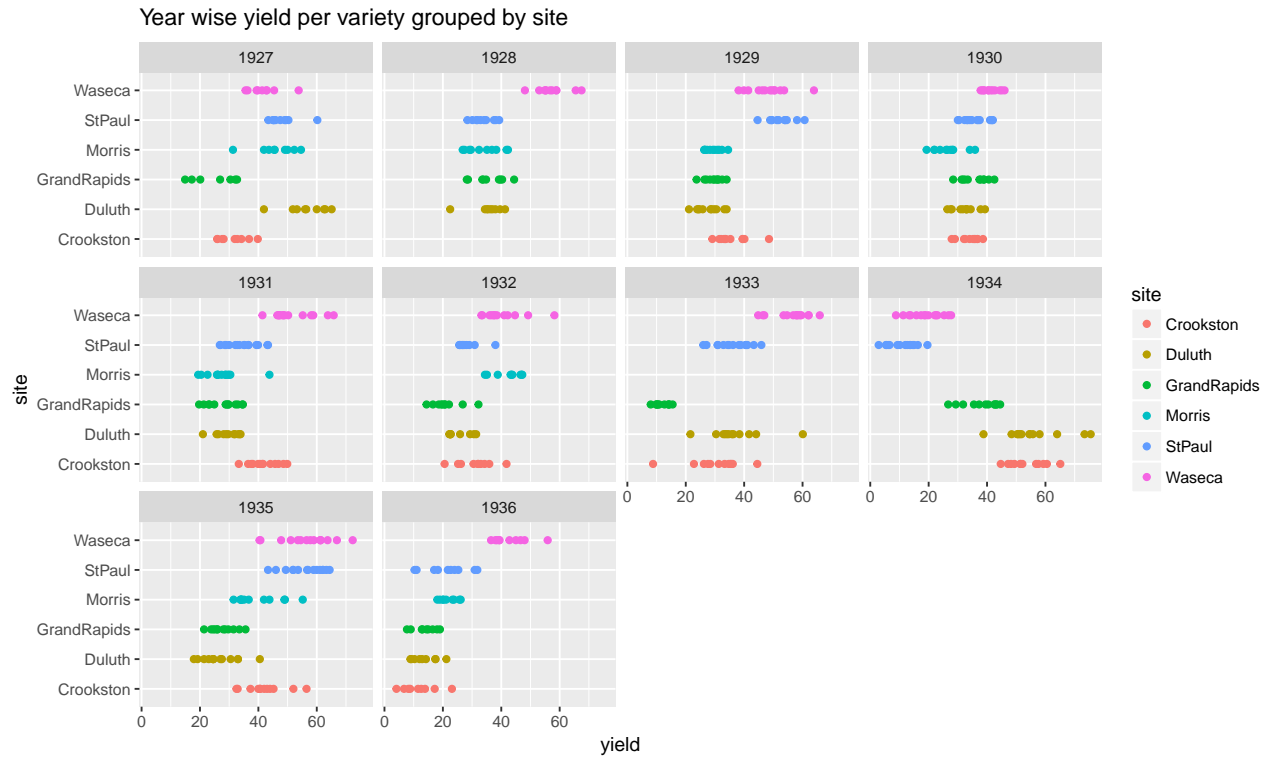
Question 1:

As there is no skewness in Yield, we can consider Yield as the response variable and not do any transformation.
Location wise per year yield grouped by Variety

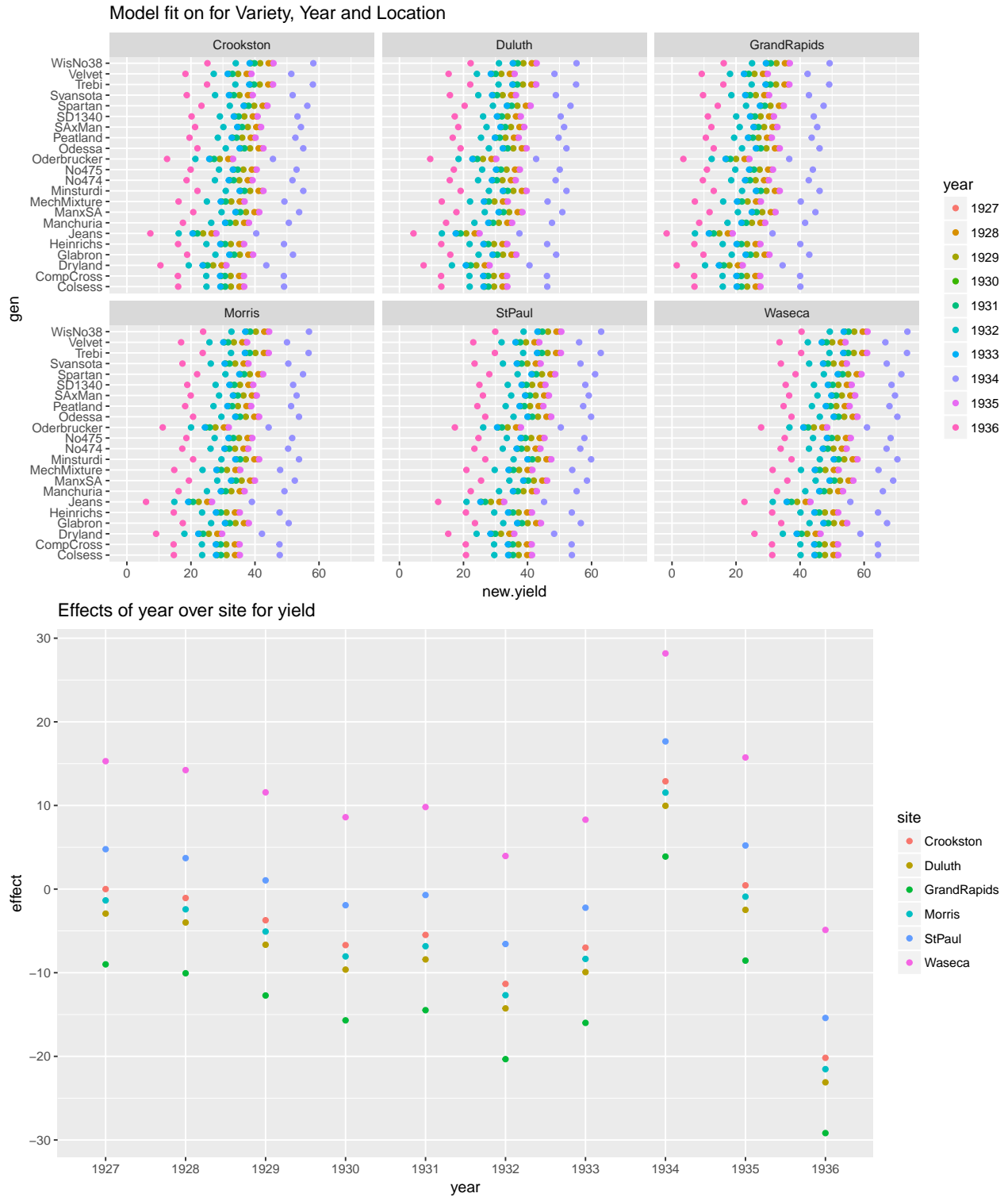


There seems to be some decreasing pattern for Duluth, StPaul, GrandRapids, while Crookston, Morris, Waseca seems to have constant pattern.(As professor said, it might be interesting to see grouped by variety)

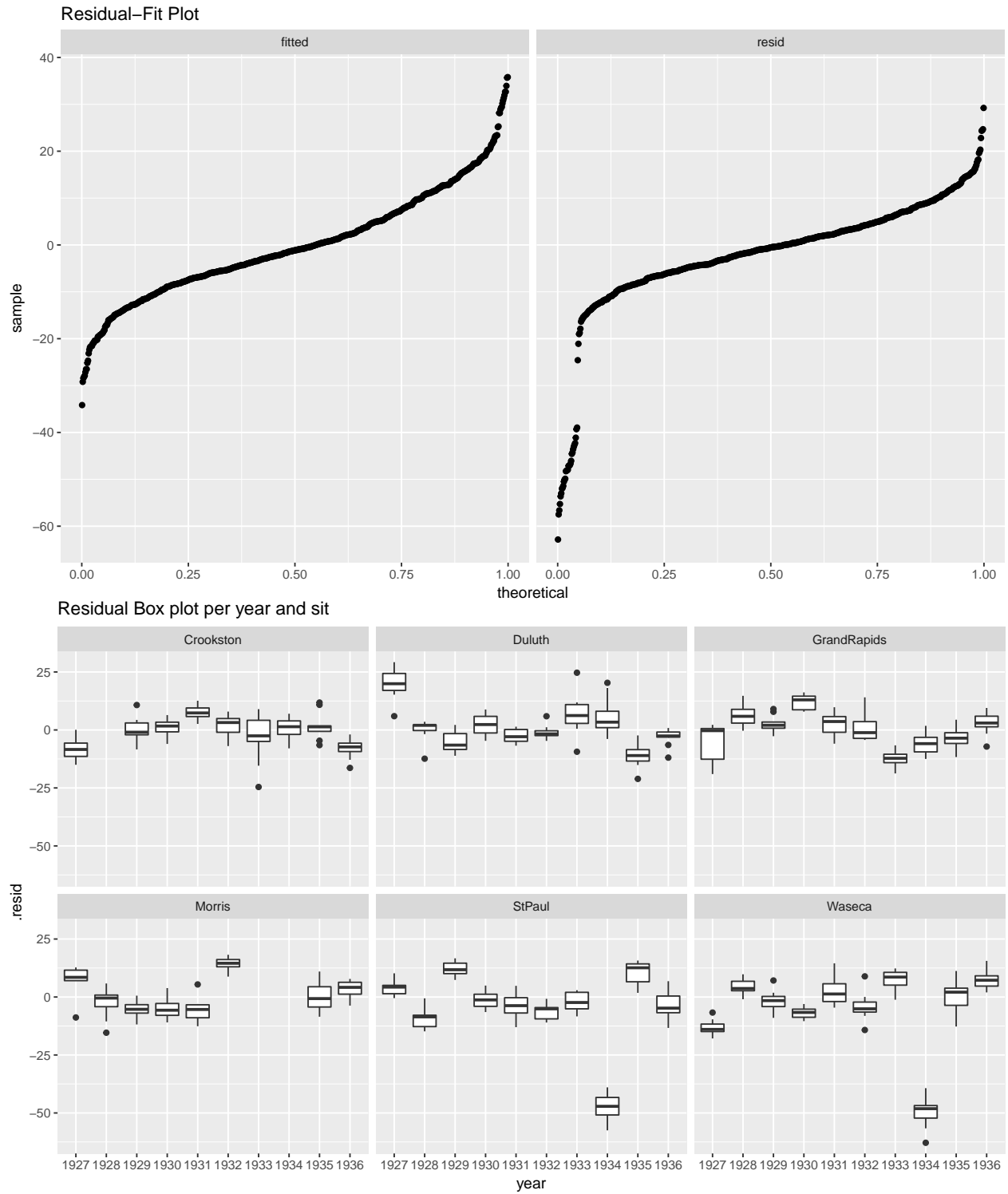
Question 2:

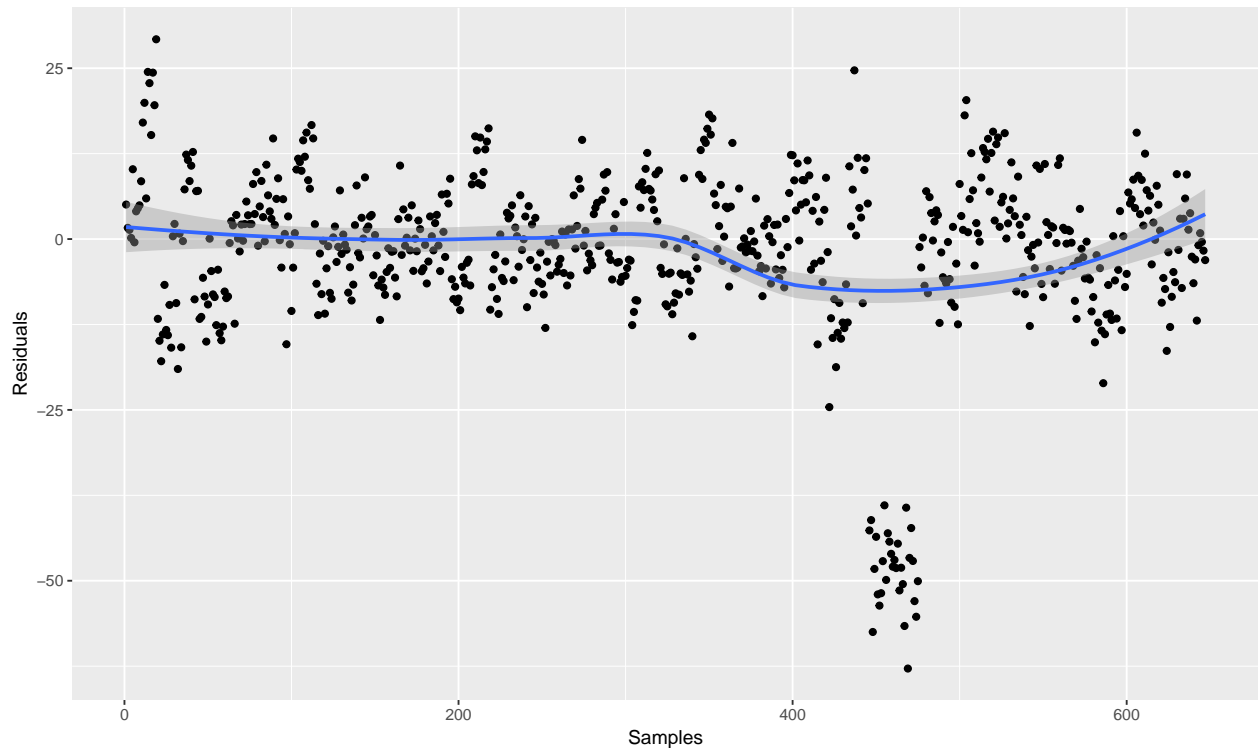


There does not seem to be a pattern for year and site, Hence for now I tried fitting simple model instead of interaction as only Year 1934 seems to be different than others for Waseca and StPaul site. Also not every site as data for all the given years, this would result into no values for the particular year and rlm with interaction won't be possible unless we impute missing values.



Question 3:





It seems for Year 1934 there are large amount of residuals still left because we can see that 1934 for Waseca and StPaul does not follow the pattern for the rest of the data as showed in Question 2. However for 1931 and 1932 seems to show no pattern in residuals.