HJAndrews Exploratory Analysis

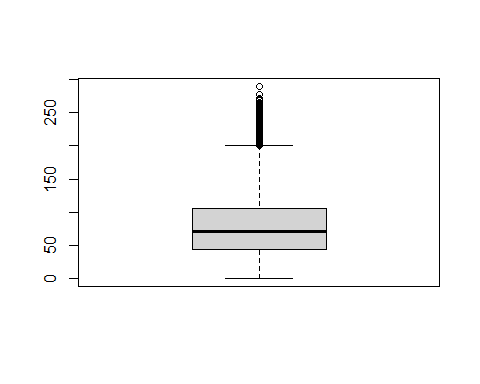
A. Cozza

3/3/2021

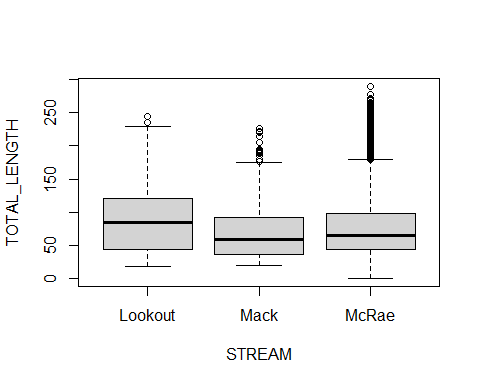
HJA=read.csv("AS01101.csv",header=TRUE)  
names(HJA)

## [1] "DBCODE" "ENTITY"   
## [3] "YEAR" "DATE"   
## [5] "STREAM" "SITE"   
## [7] "SITE\_CODE" "VISIT\_NO"   
## [9] "SAMPLING\_TEAM" "SAMPLING\_METHOD"   
## [11] "MARK\_RECAP" "PASS\_NUMBER"   
## [13] "PASS\_DIRECTION" "SPECIES"   
## [15] "VENT\_FORK\_LENGTH" "TOTAL\_LENGTH"   
## [17] "TF\_LENGTH\_LEGS\_EXTENDED" "WEIGHT"   
## [19] "LIFESTAGE\_DEVELOPMENT" "MARKED"   
## [21] "RECAPTURED" "COMMENTS"   
## [23] "QA\_NOTES" "VERT\_INDEX"

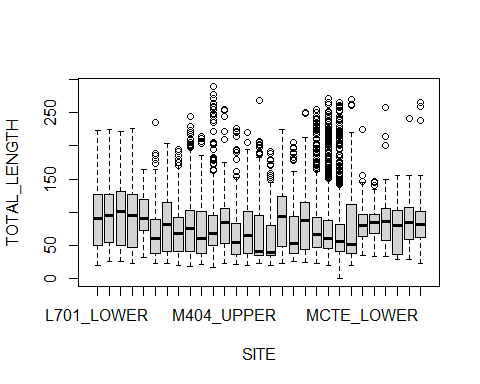
boxplot(HJA$TOTAL\_LENGTH)



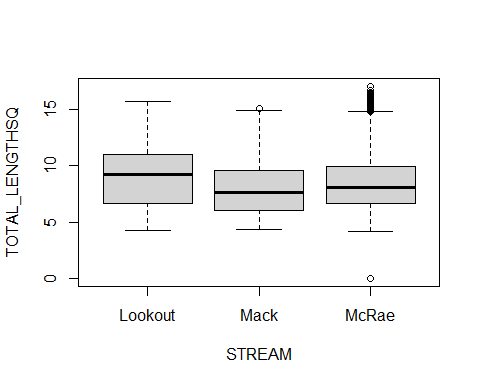
boxplot(TOTAL\_LENGTH~STREAM, data=HJA)



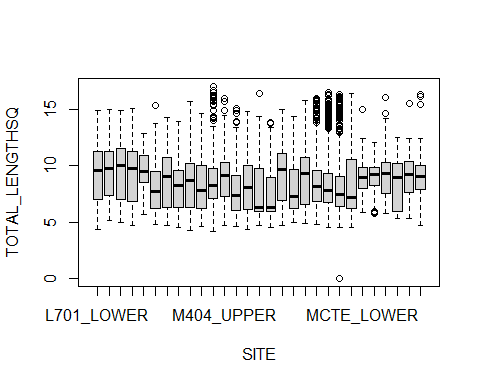
boxplot(TOTAL\_LENGTH~SITE, data=HJA)



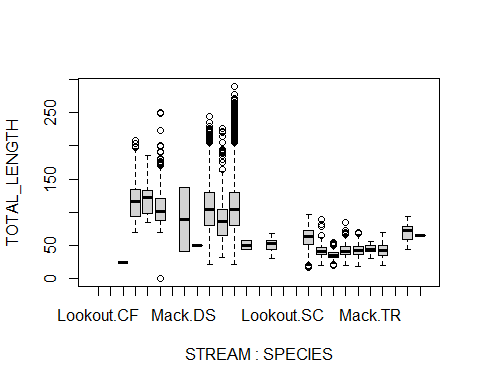
HJA$TOTAL\_LENGTHSQ=sqrt(HJA$TOTAL\_LENGTH)  
boxplot(TOTAL\_LENGTHSQ~STREAM, data=HJA)



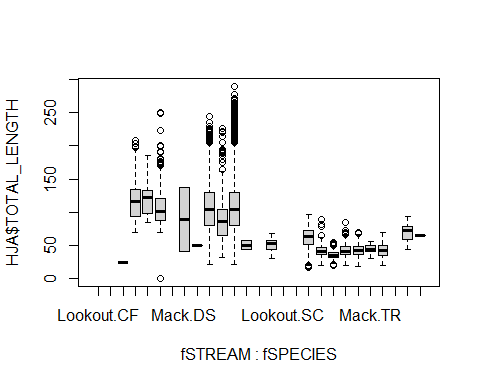
boxplot(TOTAL\_LENGTHSQ~SITE, data=HJA)



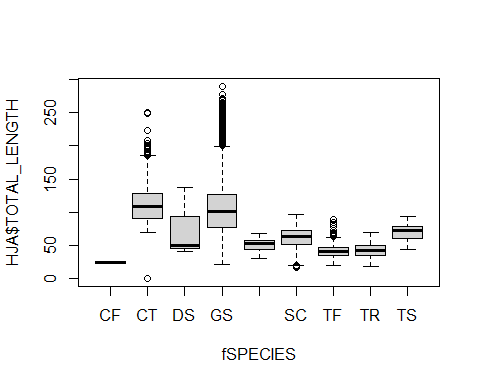
#Does transforming the data to square root help reduce outliers?   
#Yes, there were quite a few high length values particularly in McRae stream. By using the sqrt transformation, this lessened the outliers a lot. However, there are still quite a few left in McRae stream.   
  
boxplot(TOTAL\_LENGTH~STREAM+SPECIES, data=HJA)



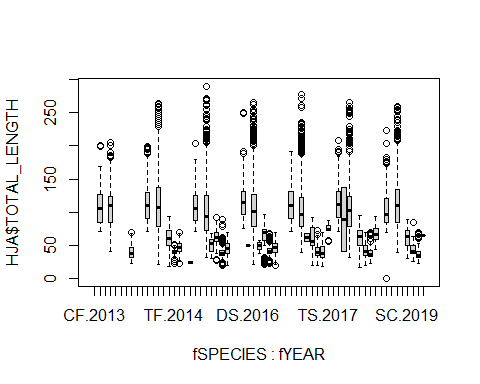
HJA$fSTREAM= factor(HJA$STREAM)  
HJA$fSITE=factor(HJA$SITE)  
HJA$fYEAR = factor(HJA$YEAR)  
HJA$fSPECIES=factor(HJA$SPECIES)  
  
boxplot(HJA$TOTAL\_LENGTH~fSTREAM+fSPECIES, data=HJA)



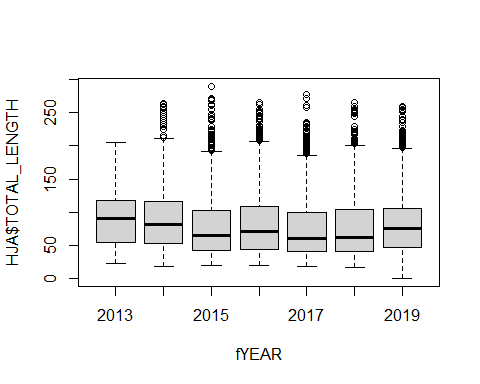
boxplot(HJA$TOTAL\_LENGTH~fSPECIES, data=HJA)



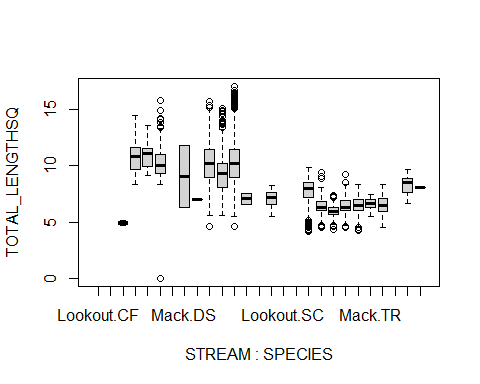
boxplot(HJA$TOTAL\_LENGTH~fSPECIES+fYEAR, data=HJA)



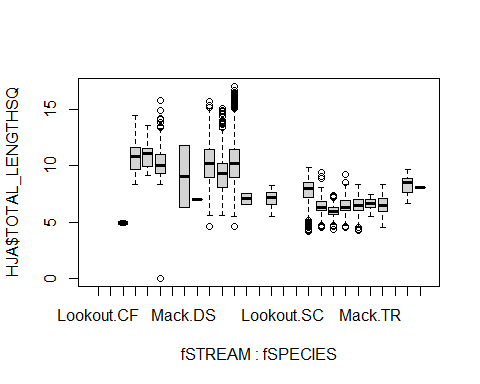
boxplot(HJA$TOTAL\_LENGTH~fYEAR, data=HJA)



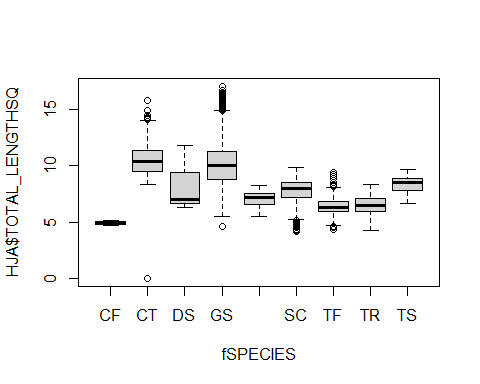
boxplot(TOTAL\_LENGTHSQ~STREAM+SPECIES, data=HJA)



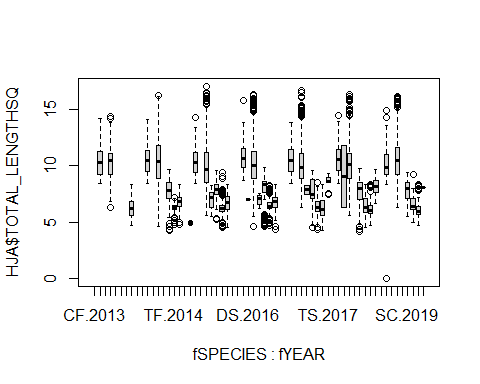
boxplot(HJA$TOTAL\_LENGTHSQ~fSTREAM+fSPECIES, data=HJA)



boxplot(HJA$TOTAL\_LENGTHSQ~fSPECIES, data=HJA)



boxplot(HJA$TOTAL\_LENGTHSQ~fSPECIES+fYEAR, data=HJA)

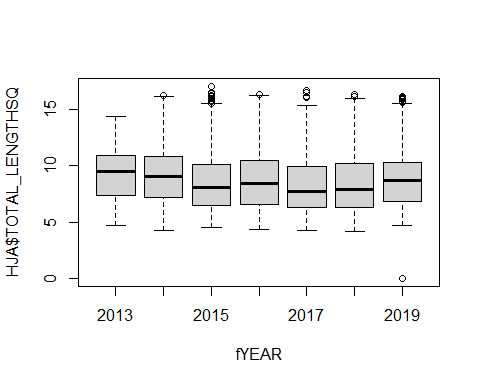


boxplot(HJA$TOTAL\_LENGTHSQ~fYEAR, data=HJA)  
#Looking into variables that may influence the outliers.  
  
library(tidyverse)

## -- Attaching packages --------------------------------------- tidyverse 1.3.0 --

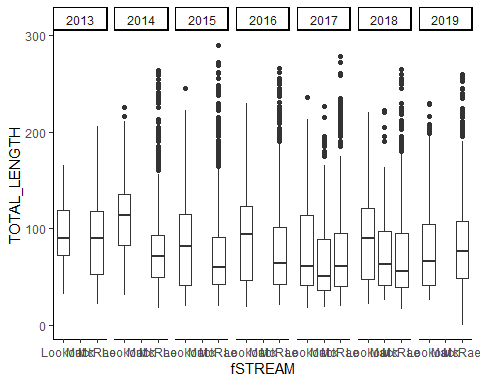
## v ggplot2 3.3.3 v purrr 0.3.4  
## v tibble 3.0.6 v dplyr 1.0.4  
## v tidyr 1.1.2 v stringr 1.4.0  
## v readr 1.4.0 v forcats 0.5.1

## -- Conflicts ------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()



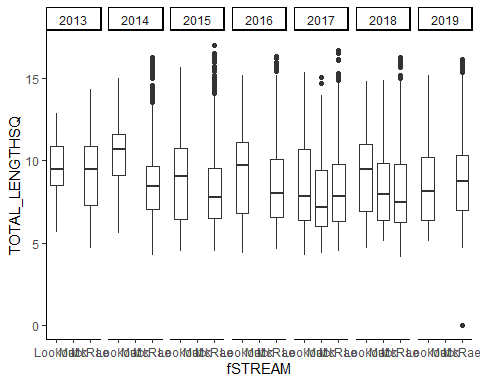
library(ggplot2)  
ggplot(HJA, aes(y=TOTAL\_LENGTH,x=fSTREAM))+geom\_boxplot()+facet\_grid(~fYEAR)+theme\_classic()

## Warning: Removed 558 rows containing non-finite values (stat\_boxplot).

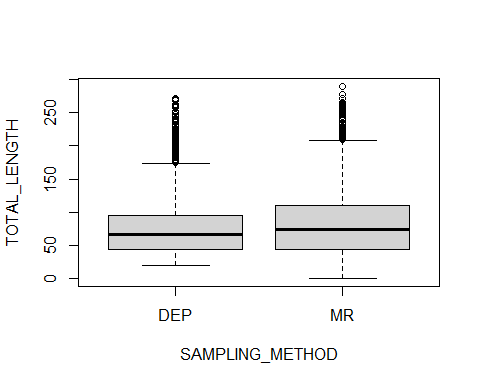


ggplot(HJA, aes(y=TOTAL\_LENGTHSQ,x=fSTREAM))+geom\_boxplot()+facet\_grid(~fYEAR)+theme\_classic()

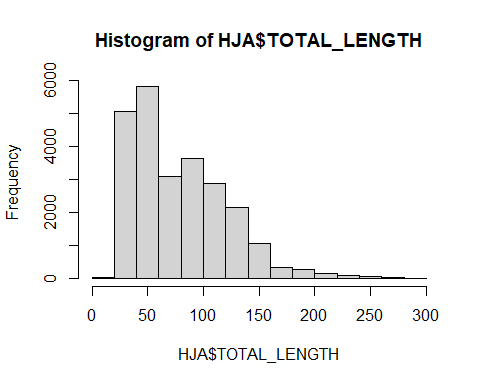
## Warning: Removed 558 rows containing non-finite values (stat\_boxplot).



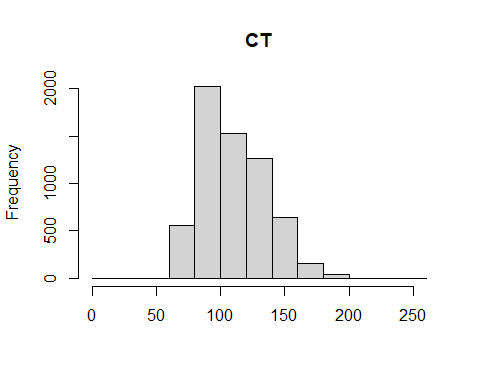
boxplot(TOTAL\_LENGTH~SAMPLING\_METHOD, data=HJA)



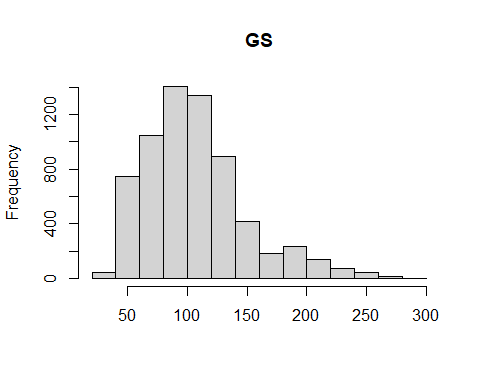
hist(HJA$TOTAL\_LENGTH)



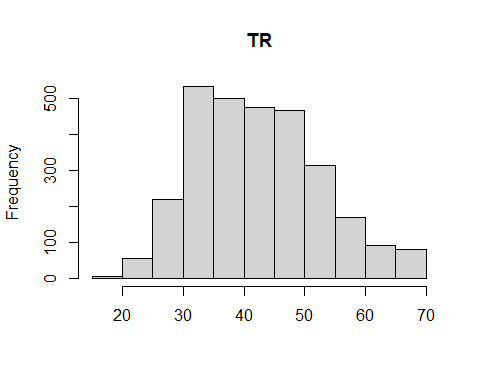
hist(HJA$TOTAL\_LENGTH[HJA$SPECIES=="CT"],main="CT", xlab="")



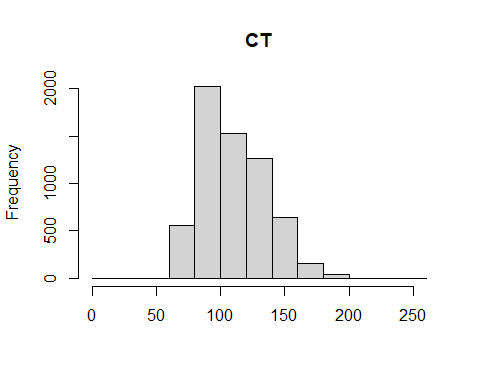
hist(HJA$TOTAL\_LENGTH[HJA$SPECIES=="GS"],main="GS", xlab="")



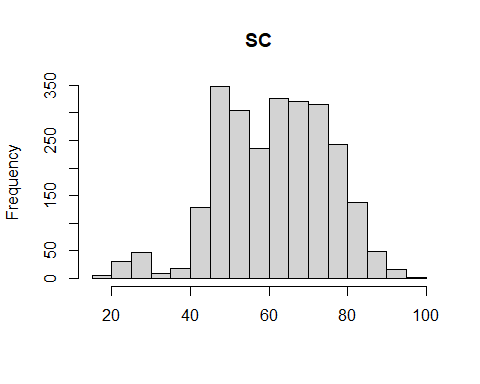
hist(HJA$TOTAL\_LENGTH[HJA$SPECIES=="TR"],main="TR", xlab="")



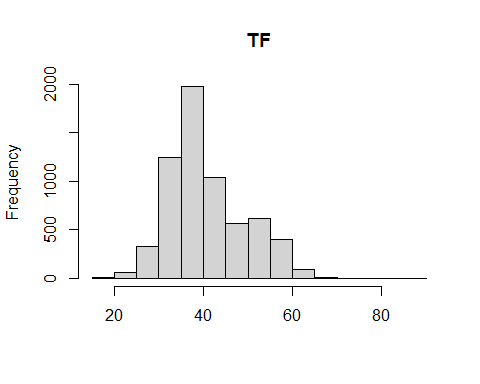
hist(HJA$TOTAL\_LENGTH[HJA$SPECIES=="CT"],main="CT", xlab="")



hist(HJA$TOTAL\_LENGTH[HJA$SPECIES=="SC"],main="SC", xlab="")



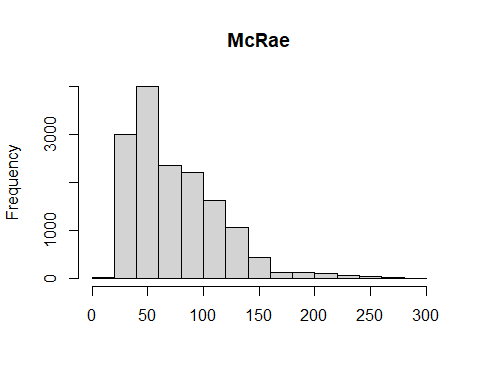
hist(HJA$TOTAL\_LENGTH[HJA$SPECIES=="TF"],main="TF", xlab="")



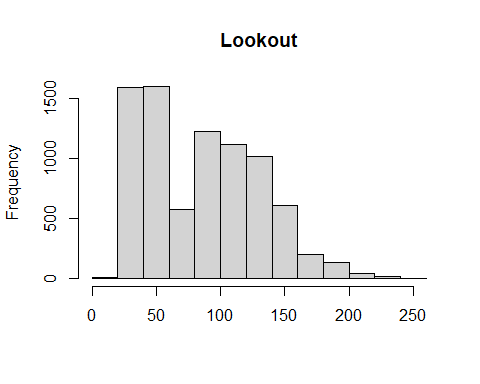
HJA$SPECIES

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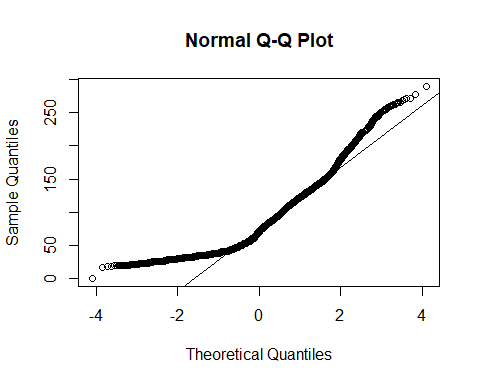
hist(HJA$TOTAL\_LENGTH[HJA$STREAM=="McRae"],main="McRae", xlab="")



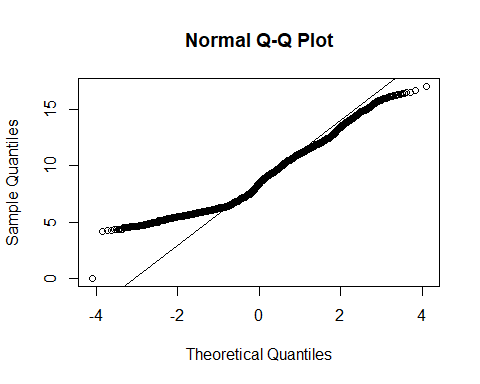
hist(HJA$TOTAL\_LENGTH[HJA$STREAM=="Lookout"],main="Lookout", xlab="")



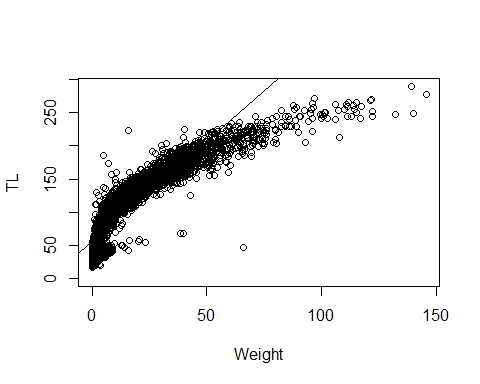
qqnorm(HJA$TOTAL\_LENGTH)  
qqline(HJA$TOTAL\_LENGTH)



#The lengths do not look normally distributed. I did notice that while generating the histograms, the lengths by species looked a bit better and some were a lot more normally distributed.   
  
qqnorm(HJA$TOTAL\_LENGTHSQ)  
qqline(HJA$TOTAL\_LENGTHSQ)



#The data is still not normally distributed. It actually may look worse here.The problem could be that there may be more/less values of smaller/larger fish depending on species.   
  
  
plot(HJA$WEIGHT, HJA$TOTAL\_LENGTH, xlab="Weight", ylab ="TL")  
model1=lm(TOTAL\_LENGTH~WEIGHT,data=HJA)  
abline(model1)



#The line does not fit it well. Looks to be more curved which would mean using something other than a lm.