### Appendix B

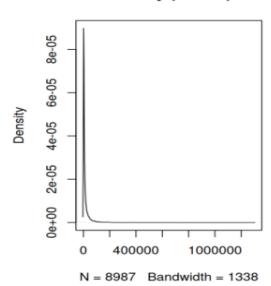
# **Exploration of "love" variable**

The histogram and density plots of the love variable exhibit a pronounced right skewness. The kurtosis value of 162.13 indicates heavy-tailedness. The skewness value is 9.63, suggesting a substantial deviation from the normal distribution. The QQ plot displays an inverted "L" shape, indicating deviations from normality, while the boxplot showcases a thin box with numerous outliers to the left. A logarithmic transformation could normalize the distribution, making the data more suitable for analysis.

# Histogram of love variable

# Density (x=love)





```{r}

# QQ plot and boxplot
qqnorm(sephora\$love, main = "QQ Plot of love varible")
qqline(sephora\$love)

boxplot(sephora\$love, horizontal = TRUE, main = "box plot of love varible")

. . .

### QQ Plot of love varible

# box plot of love varible

