Watershed Assessment Unit Analysis

Layer Summary

Environmental Reporting BC

24/1/2022

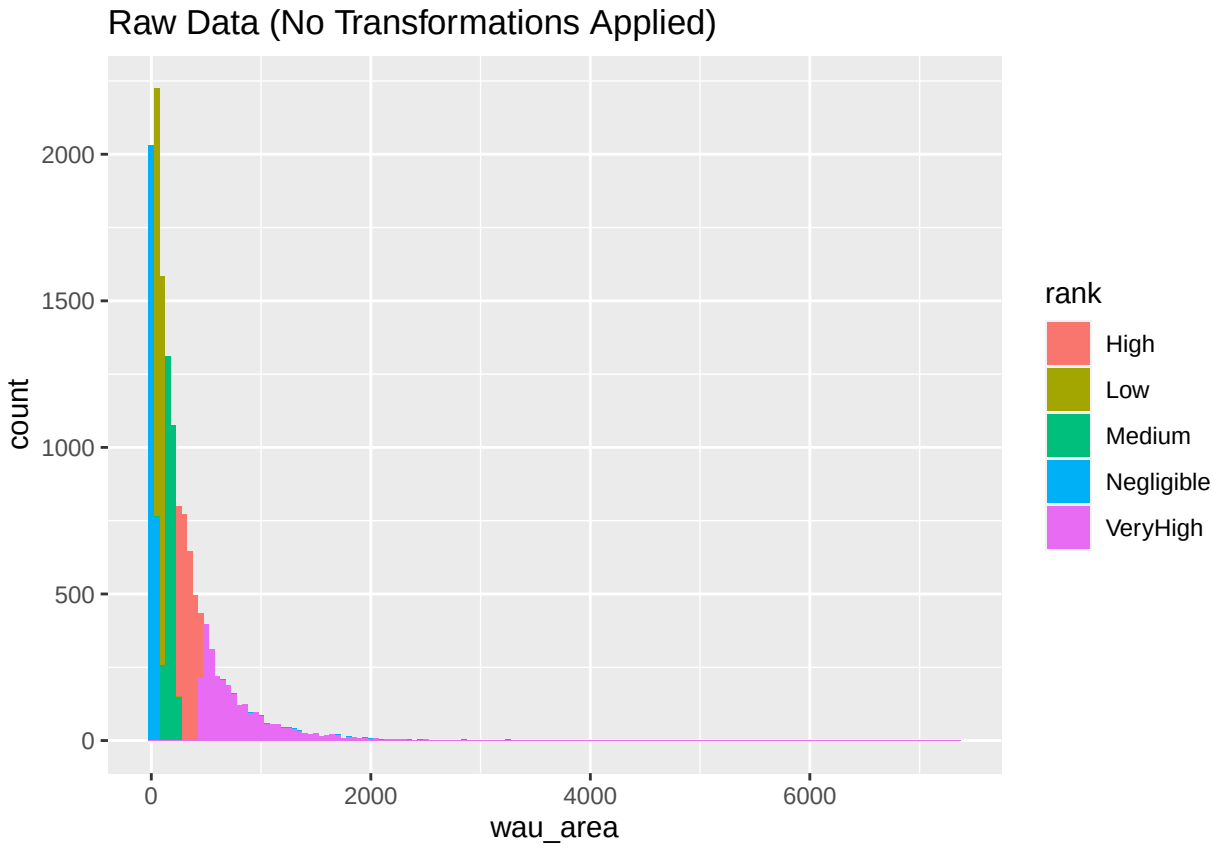
This document provides background information for processing the priority_old_growth layer.

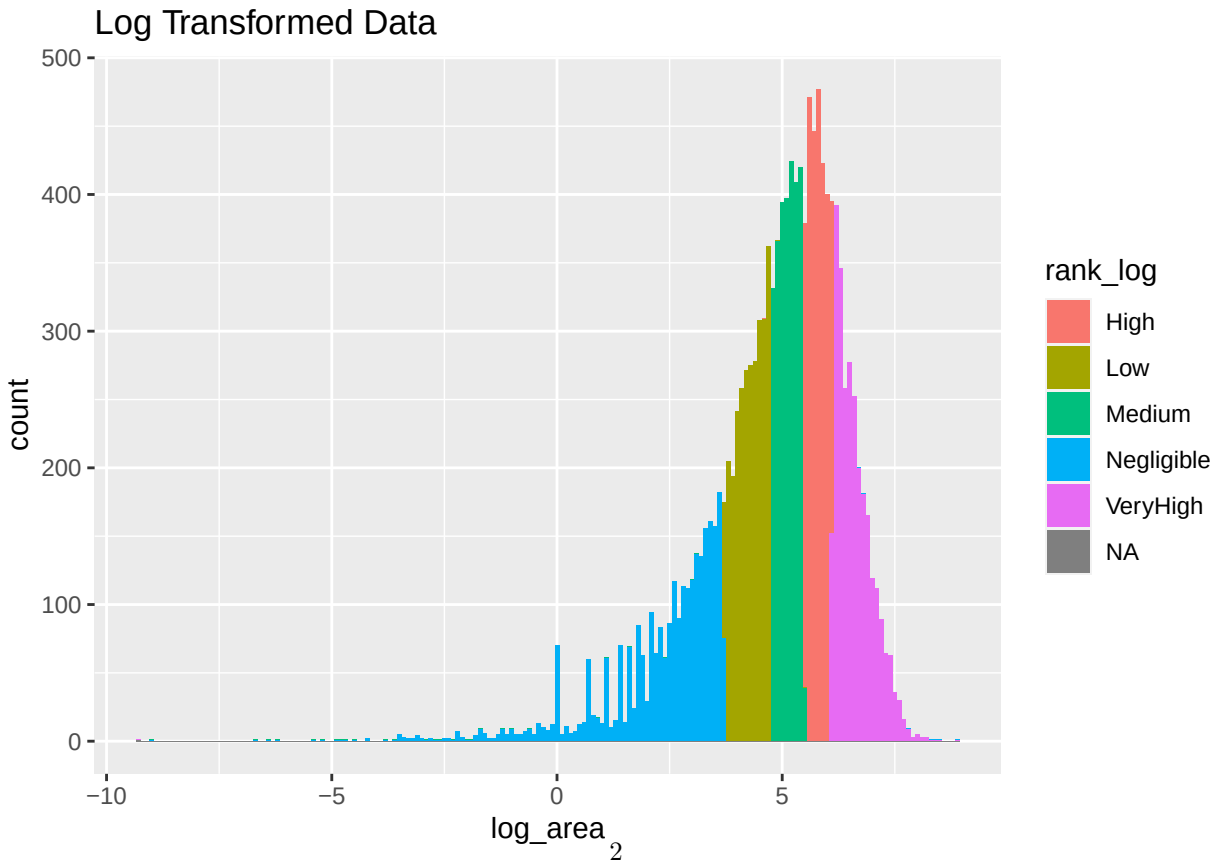
```
# Bring in data dictionary details here
# - version number
# - data source (where is file saved)
# - important derivation methods
```

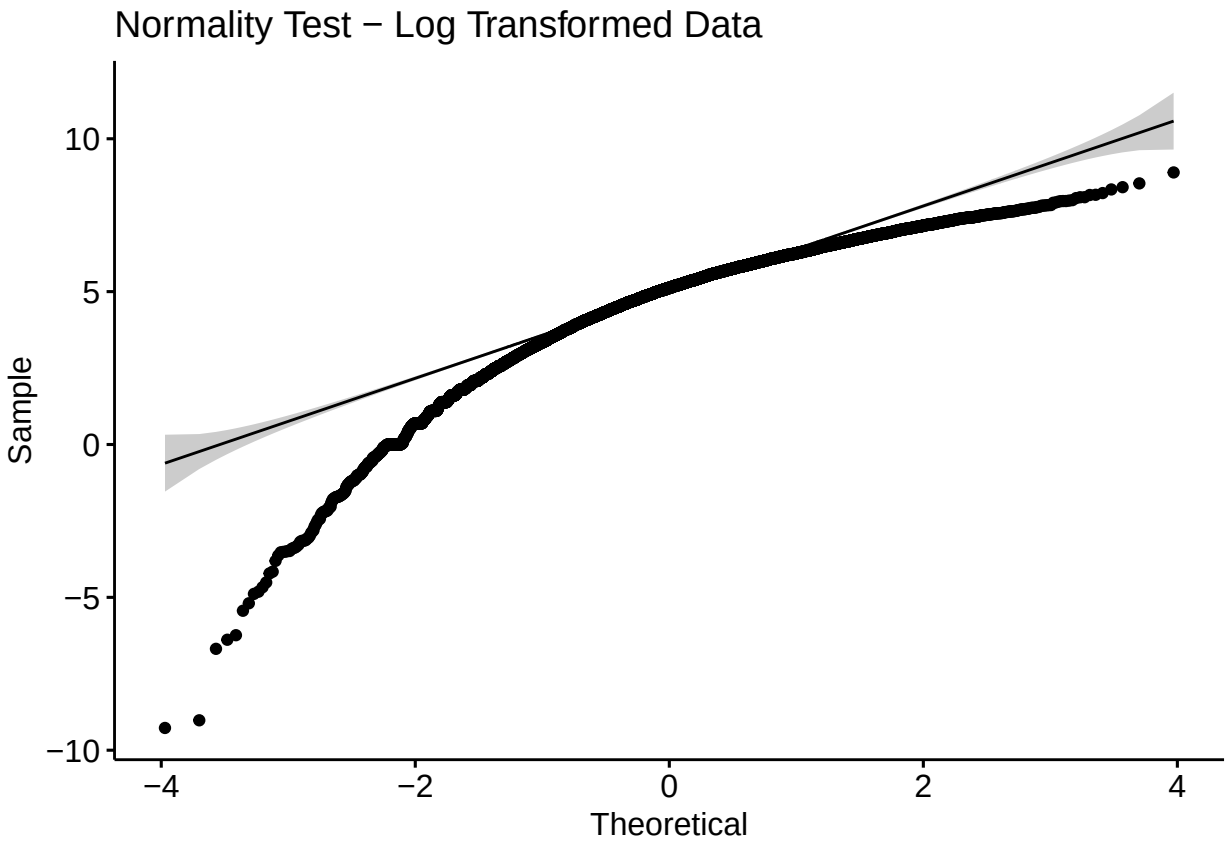
Layer Analysis

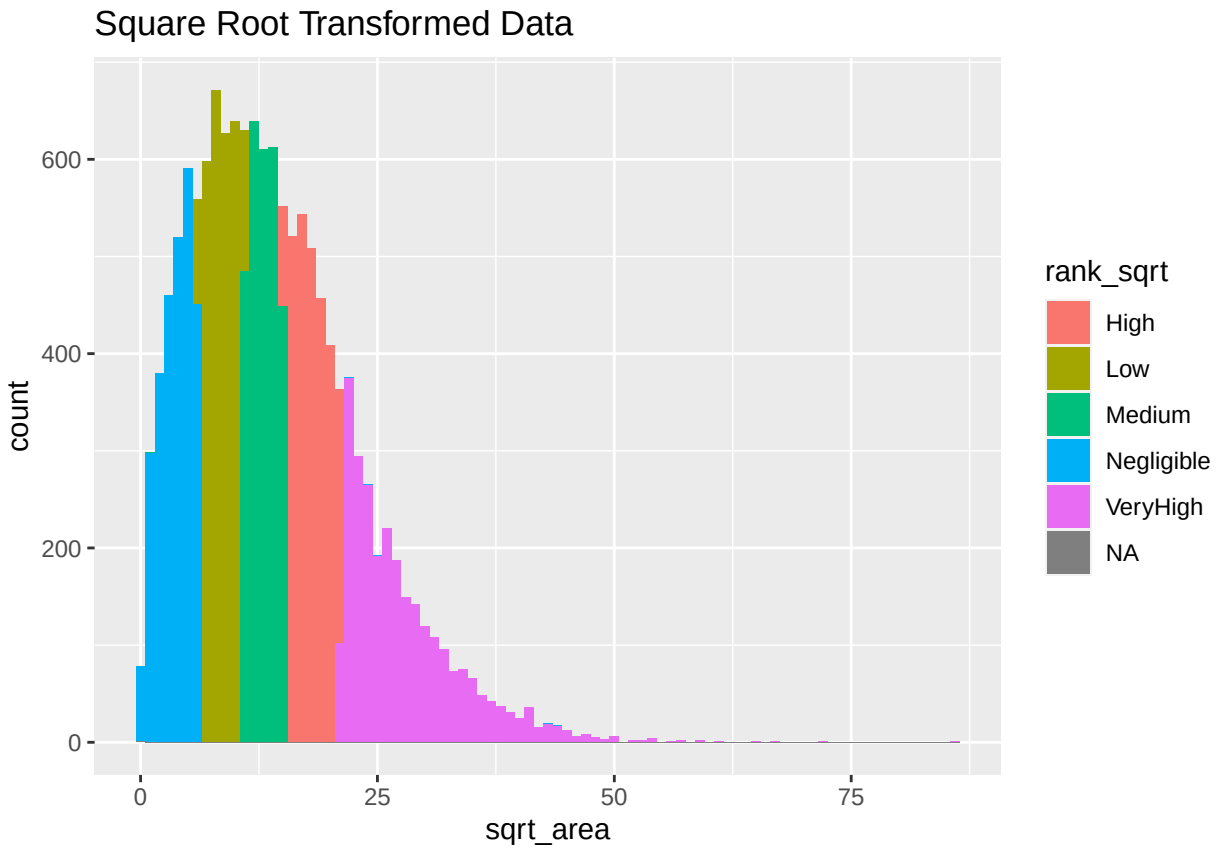
Depending on the layer, different transformations will fit the data best, but due to data type, most will have skewed right distributions (long right tail). Here we have created a log transformation column (for right-skewed data) and a square root transformation column (for left skewed data) to test which transformation is the right fit. Note that 0's were removed and made 'none'. Below we have also included plots for a natural breaks (Jenks) transformation, which is best suited to data that is unevenly distributed but not skewed towards either end of the distribution.

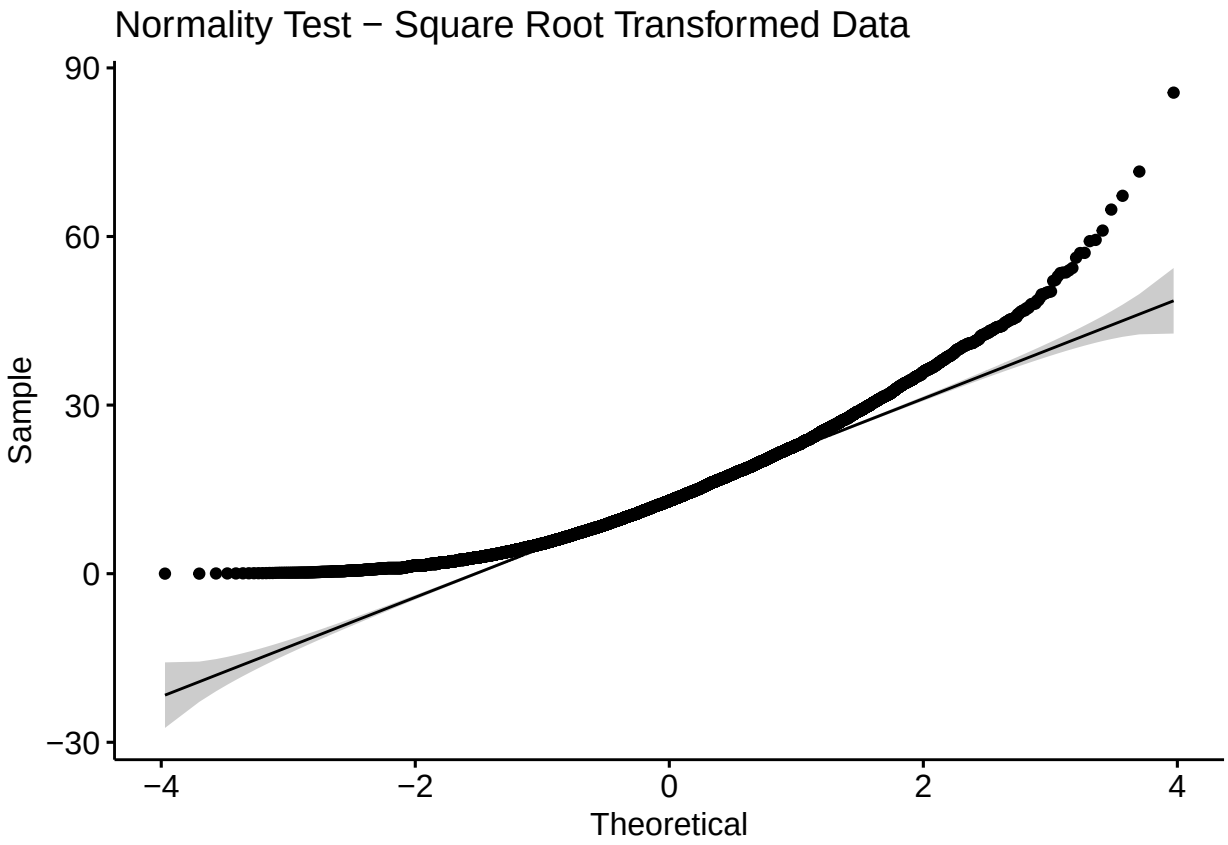
Exploratory Data Analysis

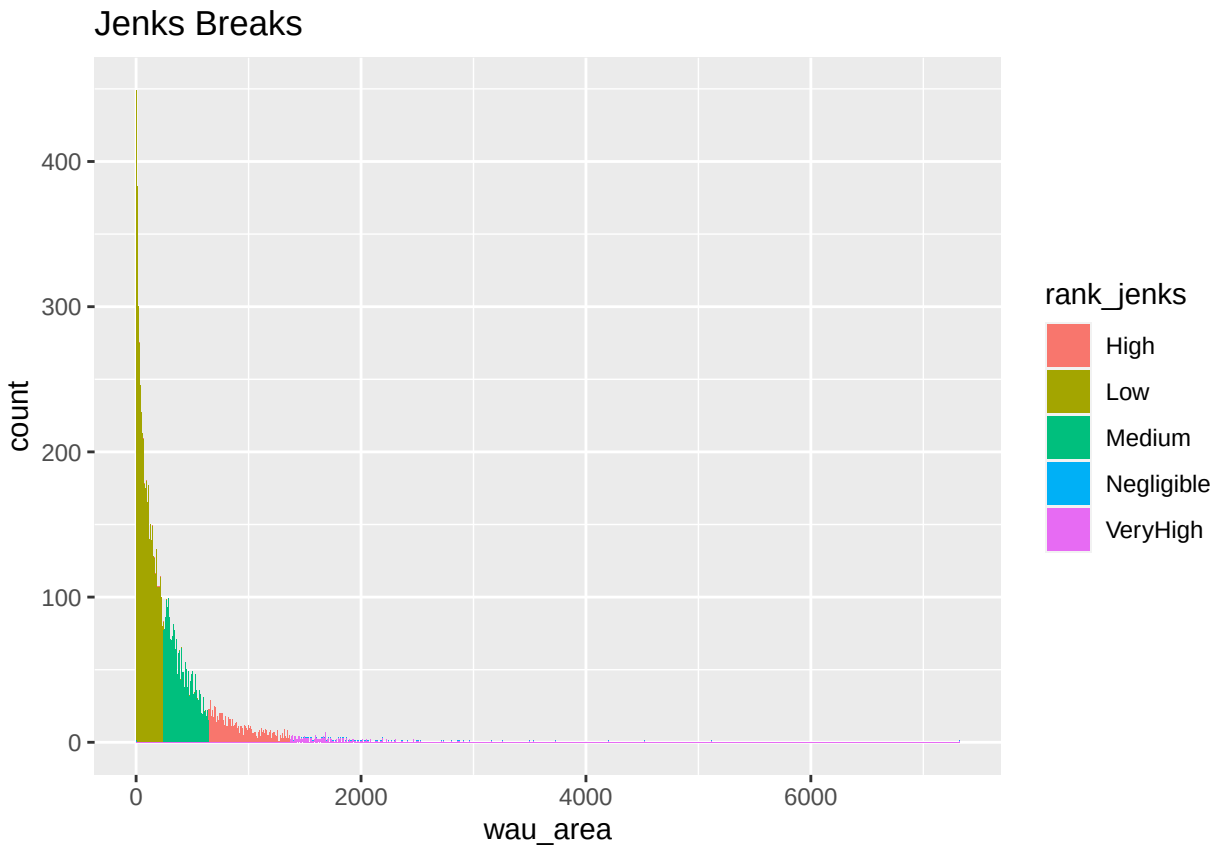


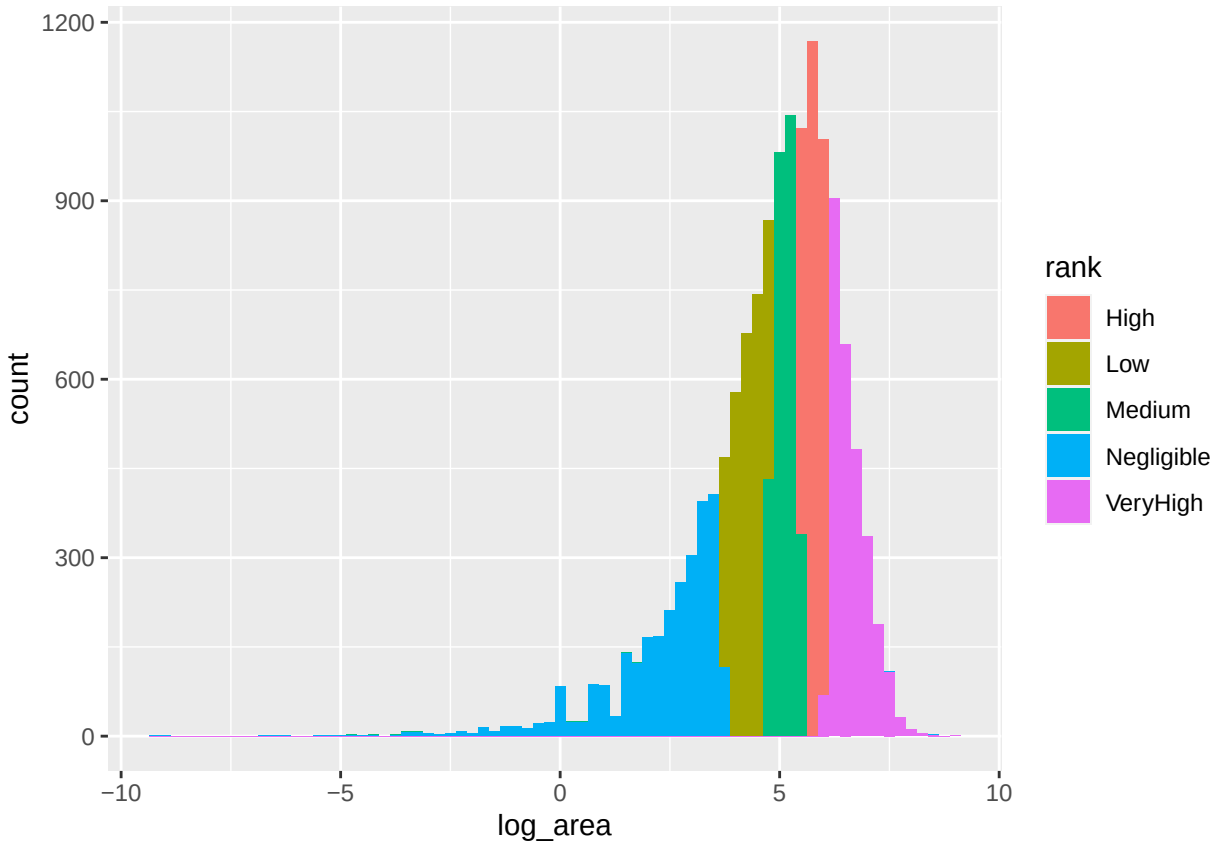



Normality Test − Log Transformed Data
Sample
Theoretical
10
5
0
−5
−10
−4
−2
0
2
4


Square Root Transformed Data
600
400
200
0
count
0
25
50
75
sqrt_area
rank_sqrt
High
Low
Medium
Negligible
VeryHigh
NA


Normality Test − Square Root Transformed Data
90
60
30
0
−30
Sample
−4
−2
0
2
4
Theoretical


Jenks Breaks
count
400
300
200
100
0
0
2000
4000
6000
wau_area
rank_jenks
High
Low
Medium
Negligible
VeryHigh


1200
900
600
300
0
count
−10
−5
0
5
10
log_area
rank
High
Low
Medium
Negligible
VeryHigh