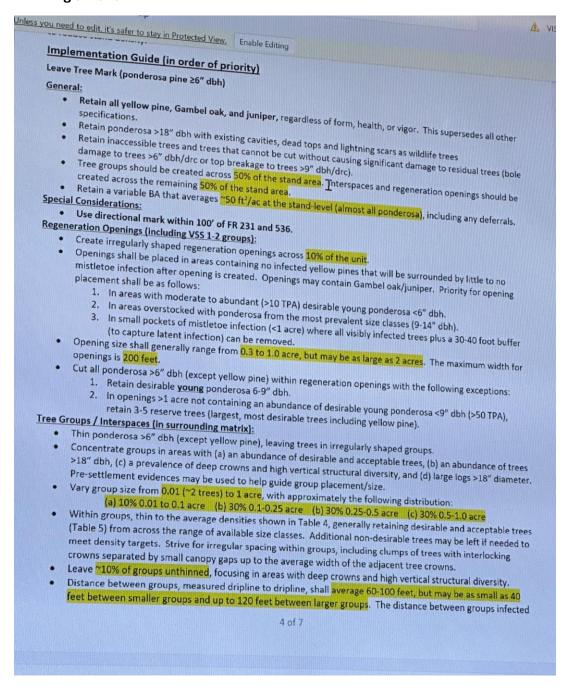
Objective:

When the trees are too close to each other, it makes it difficult for the larger trees to survive since it has to share its resources to nearby trees,

So we need to cut the trees for other trees long growth. We use the data to print out the data on a map and then after clustering we identify trees which can be cut down. This is an example of unsupervised learning. The process of cutting down less significant trees is called **Thinning**

Thinning criteria:



Dataset details:

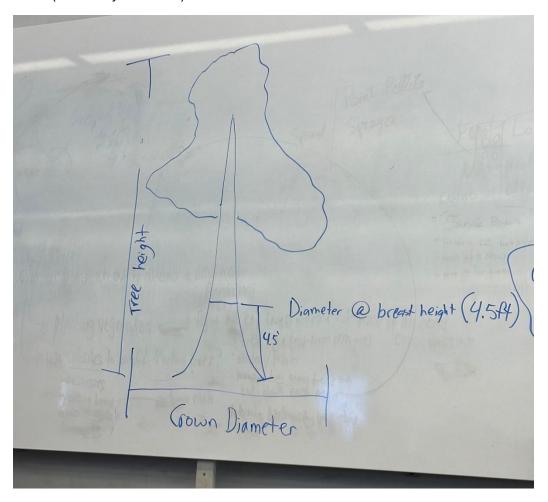
TreePosX, Y, Z (gives the position of the trees)

DBH(tree height in metre-diameter breast height)

CrownDia(how wide is the tree essesntially(like the spread of the tree)) this is measured between South to north and east to west.

CrownVol (from top of the tree to bottom of the tree)

Treeld(to identify each tree)



Clustering algorithms used:

K-means

Here it sorts the trees within each cluster based on a combination of factors specified by the features_for_removal variable. Then, it selects a percentage of trees from the beginning of the sorted list for removal.

