Introduction

In this report, I will be discussing the climate change, specifically on the topic of forest land against arable land, which is essentially deforestation in first, second and third world countries. Deforestation has been a problem worldwide and a huge contribution to climate change. To find whether countries from different development stage are all contributing to deforestation, a simple correlation will tell us if deforestation is possibly occurring in the countries. However, that does not mean causation, only a relationship between the two variables. Within these datasets, I have picked Brazil, Mongolia and Australia and I used time series plots to observe trends, scatter plots to show a graphical relationship between the variables and tables with statistical properties.

1. Forest and Arable land

Some teams are already set on good offense, but problem is they lack defensive players. How do I determine whether the player is capable of being a great defensive player? We need them to be tall enough to stop block shots, long arm in order to steal the ball from opponents and agile enough to keep up with the offensive players. A simple formula of ‘*Height + Wingspan + Vertical + Reach – Agility*’. We can clearly see that from Figure 1 that player 0 is the best defender and from my code I found that player 0 is “Andre Drummond”.

Chart, line chart

Description automatically generated

Figure : Time series plots of Brazil, Australia, Mongolia and the World

1. Height and Wingspan Correlation

The average human has a height to wingspan ratio of one to one. What makes a basketball player so peculiar other than their bizarrely tall height? They usually have a much bigger wingspan than their height, sometimes even almost a foot longer than their height! Here we see a graph of the height of the players compared to their wingspan, but some players do have a shorter wingspan than their height as observed at x around 55 *(Figure 2).*

Chart, scatter chart

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Figure 2 : Wingspan at red and Height at blue, a clear graph that shows Wingspan are higher than blue.

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| --- | --- | --- | --- |
|  | *Arable-Forest* | *Arable -greenhouse* | *Forest-greenhouse* |
| *Brazil* | -0.89 | 0.92 | -0.98 |
| *Australia* | -0.24 | 0.79 | -0.49 |
| *Mongolia* | 0.29 | 0.386 | -0.65 |
| *World* | -0.17 | 0.55 | -0.94 |

Table 1 : Correlation of Arable-Forest, Arable-Greenhouse and Forest-Greenhouse between countries and the world