

# QUESTIONS FOR FOREST SUSTAINABILITY PROGRAM

## FOREST INVENTORY

1. How many different species of trees were found within your sample? Calculate the number of trees that would be present on a per hectare basis, i.e., one hectare = 10,000 m<sup>2</sup>.
2. Which species of tree demonstrated the best growing results both in diameter and height?
3. How could this site be improved to increase the amount of diversity?

## TREES:

1. The tree that you selected as your sample tree is a dominant tree. This means that this tree is an example of the capability that this site is able to produce. What factors, then are affecting the majority of the trees in this area and preventing them from reaching their full potential?
2. Using a graph, demonstrate the growth pattern of the tree you samples in five year increments.

3. Based on the information and the knowledge you have at the present time, what does this site require to improve the growth rate of the trees established here.

### **SITE REGENERATION:**

1. The number and species of tree seedlings found in the understory will determine the species composition on the next forest. If the forest was harvested, the seedlings on the ground would grow rapidly and make up the dominant tree species of the next forest. Based on the samples taken, determine how many seedlings per hectare exist by individual species.

*Area of the sample plot = 1m radius*

*Hectare = 10,000 m<sup>2</sup>*

2. Based on the information and knowledge that you have at the present time, what could be done to increase the amount and quality of regeneration present on this site?

### **SOIL:**

1. Soil is the foundation of any forest. From the information and data you collected, what are some conclusions you have made regarding the soil at this site?
2. Can anything be done to improve the soil quality?

### **BIODIVERSITY:**

1. How many different types of living things were found within your sample plot? (Use a pie graph to demonstrate your results)
2. What do you think were the contributing factors to the lack of biodiversity at this site?
3. What things could be done to promote and increase plant diversity at this site?

**CONCLUDING QUESTIONS:**

1. What is your overall assessment of this forest?
2. If this forest ecosystem was your responsibility, what, if anything would your action plan be to ensure the sustainability of it?