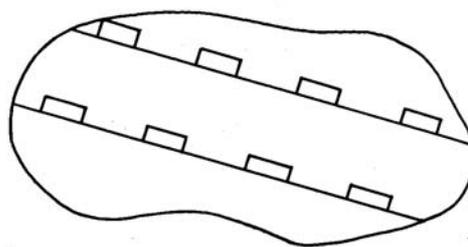


## Appendix 7: Simple Sampling for Density and Species of Natural Regeneration

This simple method of sampling will help make decisions on the potential for assisted natural regeneration.

1. During the initial site survey, set the boundaries of the proposed assisted natural regeneration area.
2. Set two (2) straight parallel transect lines along the area, not too close to the boundaries or to each other.
3. Allocate four (4) 10m x 25m plots equally spaced along each line.
4. For each sample plot, record the number of seedlings of each species in the tally sheet on the next page.
5. Convert the number of seedlings per plot to the number of seedlings per hectare by multiplying by 40.
6. Average the results for each plot to get the average number per hectare for all plots.
7. If some adjacent plots do not pass the test for assisted natural regeneration but the average for the whole area passes the test, consider whether the area should be subdivided and assisted natural regeneration used only where there is sufficient natural regeneration.



**Layout of transects and plots**

For good project monitoring and species and fertilizer trials, someone with a good knowledge of statistics should help plan a better sampling technique that takes into consideration (1) control plots, (2) stratification of areas with different characteristics, and (3) number of plots and plot size needed.

### ***Tally sheet for inventory of natural regeneration.***

Plot Location:

Province: \_\_\_\_\_

Municipality: \_\_\_\_\_

Name of Project/landowner: \_\_\_\_\_

Plot size: \_\_\_\_\_ m<sup>2</sup>

Multiply number of stems by 10,000/(plot size in m<sup>2</sup>) to calculate the total per hectare.  
For a 10 m x 25 m plot, multiply by 10,000/ (10 x 25) = 40.

Name of Species	Tally Marks or check	Total	Total per ha
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
<b>TOTAL</b>			

Source : Kathleen, et al, 1999