



WORKSHEET

FOREST HEALTH INDICATOR: REGENERATION

Forest regeneration is a good measure of the health of the forest habitat. When a forest can produce enough young trees to replace the canopy trees when they are cut, blown down, or die, such production is an indication that the forest is vibrant and sustainable. Regeneration is measured by the number of tree seedlings present.

MATERIALS

Tape measure, string or other marker

METHOD

Using a tape measure and string or other marker, divide the study plot into 9 equal segments (8 equal segments, if it is a circle plot). Survey each segment and determine whether there is a healthy seedling that is at least 30 cm tall if it is a conifer, and at least 1 metre tall if it is a deciduous tree. To be considered healthy, the seedling must not have any apparent damage to its leaves or stems.



RESULTS

Number of forest plot segments with at least one healthy seedling:

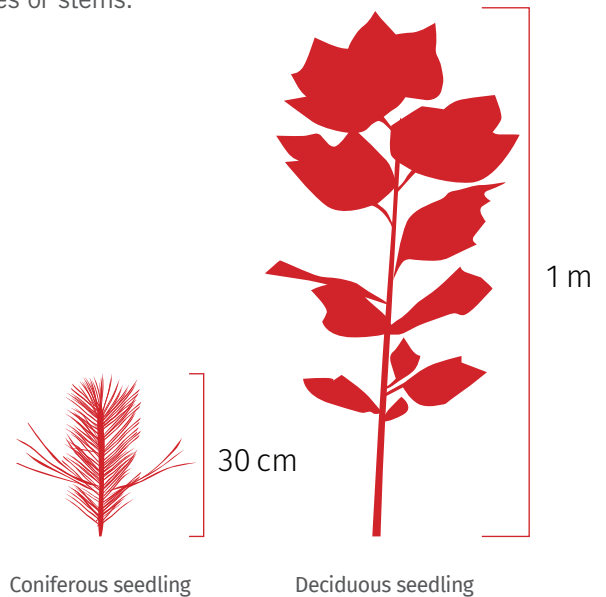
_____ (Value A)

Number of total forest plot segments:

_____ (Value B)

Percentage of plots with at least one healthy seedling:

Value A ÷ Value B x 100 = _____ percent



RATING

- | | | |
|-------------|---|----------|
| Good | More than 66 percent of plot segments have at least one healthy seedling. | 3 Points |
| Fair | 33 to 66 percent of plot segments have at least one healthy seedling. | 2 Points |
| Poor | Less than 33 percent of plot segments have at least one healthy seedling. | 1 Point |

Overall Regeneration rating for plot: _____

Source: Forestry Branch, Province of Manitoba. 2010. "Silviculture Surveys: Regeneration Surveys."

www.gov.mb.ca/conservation/forestry/renewal/surveys.html