

# A SCIENTIFIC PRESPECTIVE ON TREES AND FORESTS

## EVAPORATION

regulate the global climate  
improve microclimate

## PRECIPITATION

## TRANSPIRATION

Trees release moisture  
which provoke rainfall.

## PRODUCES

O<sub>2</sub>

oxygen

O<sub>2</sub>

O<sub>2</sub>

reduce  
surface  
flood water  
run-off

provide  
sense of  
place &  
community

increase  
property  
values

reduce  
stress

lower levels  
of noise &  
dust

encourage  
walking

provide  
habitats for  
wildlife

provide &  
reduce  
ambient  
temperature

## REDUCES

CO<sub>2</sub>

carbon  
dioxide

N<sub>2</sub>O

nitrous  
oxide

CH<sub>4</sub>

methane

O<sub>3</sub>

ozone

## MATERIAL RESOURCE

paper

carboard

wood

fire

furniture

food

fruits

nuts

seeds

maple  
syrup

medicine

oil

## PRODUCES HEALTHY SOIL

The soil that develops under natural forest and woodland is fertile. It is well structured, has a good water-holding capacity and has a store of nutrients bound up in the organic matter. Farmers know they will get a good crop by planting on cleared natural forest.

## TREES COMMUNICATION SYSTEM WOOD WIDE WEB

Plants provide fungi with food in the form of carbohydrates. In exchange, the fungi help the plants suck up water, and provide nutrients like phosphorus and nitrogen, via their mycelia.