**Distribute this worksheet** to groups. Participants are to discuss and describe many examples of the services provided by ecosystems. Discuss in large group.

- **Gas regulation:** Plants provide CO2 + O2 balance. *For example:* One tree produces enough oxygen for a family of four. For each ton of growing wood, an estimated 1.47 tons of carbon dioxide are removed from the air and 1.07 tons of oxygen are produced.
- **Climate Regulation:** Clouds, greenhouse gases, etc. *For example:* Forests are important sinks for greenhouse gases and provide natural barriers to wind, snow, rain and solar radiation.
- Energy: Provide thermal heat, wind, fossil fuels.
- Habitats: Regulate disturbances such as floods, drought, and winds.
- Water Regulation: Pervious surfaces allow for recharge, and transpiration.
- Water Supply: Drinking water for households, industry, and electric energy. For example: Forest soil absorbs runoff, filters water and traps/transforms contaminants.
- **Erosion Control:** Retention of soil within an ecosystem. *For example:* Trees and other plants reduce the impact of rain while root systems hold soil in place.
- Soil Formation: Weathering of rock and accumulation of organic material.
- Nutrient Recycling: Nitrogen fixation and cycling of nutrients.
- Waste Treatment: Detoxification by plants that absorb pollutants and decomposition.
- Pollination: Insects, bats, and birds allow for propagation of vegetation.
- Biological Control: Predator control of prey and vegetation control.
- **Refuge:** Refuge for nurseries and habitats for migratory species. *For example:* Forests provide a diversity of habitats over time.
- Food Production: Fish, game, and crops.
- Genetic Resources: Resources for medicine and breeding.
- Recreation: Hiking, hunting, fishing, etc.
- **Cultural:** Aesthetic values, artistic inspiration, and education. *For example:* Forests provide Christmas trees, artistic inspiration, and outdoor classrooms
- Carbon Sequestration: Carbon emissions that cause global warming are "stored" in forests and soils.
- Other