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**