

Lab: Energy Dynamics in an Ecosystem

Learning Objectives: After completing this lab, you should be able to:

- 1. Calculate the gross primary productivity (GPP) of an ecosystem.
- 2. Calculate the net primary productivity (NPP) of an ecosystem.
- 3. Explain the relationship between GPP and NPP.
- 4. Explain the relationship between GPP and the amount of energy available to the rest of the ecosystem.
- 5. Explain the relationship between NPP and the amount of energy available to the rest of the ecosystem.

Introduction: Energy flows through an ecosystem from the sun to producers, then to consumers, and finally to decomposers. The amount of energy that enters an ecosystem is determined by the amount of light that reaches the producers. The amount of energy that leaves an ecosystem is determined by the amount of energy that is used by the producers for their own metabolism. The difference between the amount of energy that enters an ecosystem and the amount of energy that leaves an ecosystem is the net primary productivity (NPP) of the ecosystem. NPP is the amount of energy that is available to the rest of the ecosystem. In this lab, you will measure the GPP and NPP of a freshwater ecosystem. You will do this by measuring the amount of oxygen that is produced by the producers in a closed system. The amount of oxygen that is produced is a measure of the amount of energy that is captured by the producers. You will also measure the amount of oxygen that is consumed by the consumers in a closed system. The amount of oxygen that is consumed is a measure of the amount of energy that is used by the consumers. The difference between the amount of oxygen that is produced and the amount of oxygen that is consumed is the net primary productivity (NPP) of the ecosystem.

Materials:

- 1. Freshwater ecosystem (aquarium or pond)
- 2. Oxygen sensor
- 3. CO₂ sensor
- 4. Light meter
- 5. Thermometer
- 6. Stopwatch
- 7. Calculator
- 8. Data sheet

Procedure:

1. Set up the oxygen sensor and CO₂ sensor in the freshwater ecosystem.
2. Measure the amount of light that is entering the ecosystem.
3. Measure the amount of oxygen that is produced by the producers in the ecosystem.
4. Measure the amount of oxygen that is consumed by the consumers in the ecosystem.
5. Calculate the GPP and NPP of the ecosystem.

Discussion:

Energy flows through an ecosystem from the sun to producers, then to consumers, and finally to decomposers. The amount of energy that enters an ecosystem is determined by the amount of light that reaches the producers. The amount of energy that leaves an ecosystem is determined by the amount of energy that is used by the producers for their own metabolism. The difference between the amount of energy that enters an ecosystem and the amount of energy that leaves an ecosystem is the net primary productivity (NPP) of the ecosystem. NPP is the amount of energy that is available to the rest of the ecosystem. In this lab, you will measure the GPP and NPP of a freshwater ecosystem. You will do this by measuring the amount of oxygen that is produced by the producers in a closed system. The amount of oxygen that is produced is a measure of the amount of energy that is captured by the producers. You will also measure the amount of oxygen that is consumed by the consumers in a closed system. The amount of oxygen that is consumed is a measure of the amount of energy that is used by the consumers. The difference between the amount of oxygen that is produced and the amount of oxygen that is consumed is the net primary productivity (NPP) of the ecosystem.

Ap Bio Lab Energy Dynamics In An Ecosystem

Mark Anestis, Kellie Ploeger Cox



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