Aquaponics is the symbiotic growing of plants and animals in a recirculating system.

**THE ISSUE**

As a dominant method of food production, industrial agriculture is characterized by large scale monoculture and heavy use of fertilizers, pesticides, and water.

**LAND DEGRADATION**

**CHEMICAL POLLUTION**

**EXCESSIVE IRRIGATION**

Aquaponics provides a nutritious, sustainably sourced meal!

**BENEFITS OF AQUAPONICS IN URBAN SETTINGS**

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<thead>
<tr>
<th>Aquaponics</th>
<th>Hydroponics</th>
<th>Conventional</th>
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<tbody>
<tr>
<td>✔ Less Land Use</td>
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<td>✗ Less Land Use</td>
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<td>✔ No Soil-Based Pests</td>
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<td>✔ No Weeds or Digging</td>
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<td>✔ Reduced Water Usage</td>
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<td>✔ No Harmful Fertilizers</td>
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Aquaponics utilizes up to 90% less land and 90% less water.

**OUR MISSION**

ECOLIFE Conservation® is an international organization providing solutions to mutually benefit underserved communities and imperiled wildlife around the world.

**CONTACT US**

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(760)-740-1346
www.ecolifeconservation.org

**GRANT APPLICATIONS AVAILABLE!**

Interested in bringing Aquaponics into your classroom? Apply on our website to receive your own ECO-Cycle and invigorate your curriculum today!
**Deep Water Culture System** - Solar powered recirculating design uses floating rafts, holds 3,000 gallons of water, and saves up to 90% on water usage.

**Leafy Greens** - Plants which use high amounts of nitrogen grow best, because fish waste is packed with nutrient rich nitrate. Our full size lettuce takes on average 32 days to grow from seed.

**pH Controller** - Automated system maintains a pH of 6.5 - 7, ideal for bacteria, fish, and plants.

**Calsense** - Cloud based application monitors our system, and calculates water usage for growing fish and plants.

**Mozambique Tilapia** - This fast growing fish is popular for aquaponics, because they can handle a wide range of water quality conditions, and taste delicious!

**Mechanical Filter** - Used to catch solid waste.

**Biofilter** - Provides surface area for nitrifying bacteria to colonize.

**Mineralization Tank** - Processes fish solids to provide additional nutrients for the plants while cutting down on feed and water usage.

**Trellis** - Allows us to grow vine ripening produce such as cucumbers and tomatoes.

**Seeding Table** - Volunteers help us propagate seeds in our seeding table until they are about an inch tall and enter the system.

**Compost System** - We close the loop with our tumbler, vermicompost, and black soldier fly bin to create plant nutrients while reducing our carbon footprint.