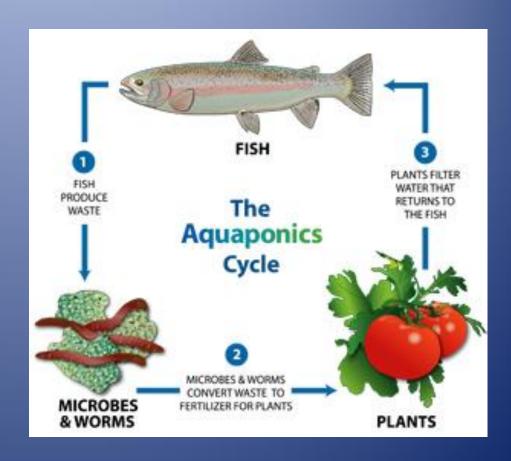
Central Greens



Feeding the community's mouths and minds for a healthier and more environmentally conscious future.

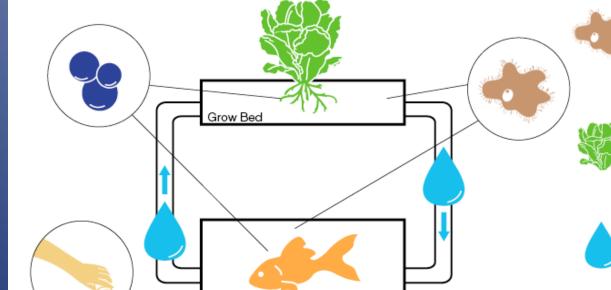
What is Aquaponics?

Aquaponics is the marriage of aquaculture (raising fish) and hydroponics (the soilless growing of plants) that grows fish and plants together in one integrated system. The fish waste provides an organic food source for the growing plants and the plants provide a natural filter for the water the fish live in. The third participants are the microbes (nitrifying bacteria) that thrive in the bio filtration media. They do the job of converting the ammonia from the fish waste first into nitrites, then into nitrates that are food for the plants.



Nitrification Process





Fish Tank

Fish are fed food and produce

Ammonia rich waste. Too much

waste substance is toxic for the
fish, but they can withstand high
levels of Nitrates.

The bacteria, which is cultured in the grow beds as well as the fish tank, breaks down this Ammonia into Nitrites and then Nitrates.

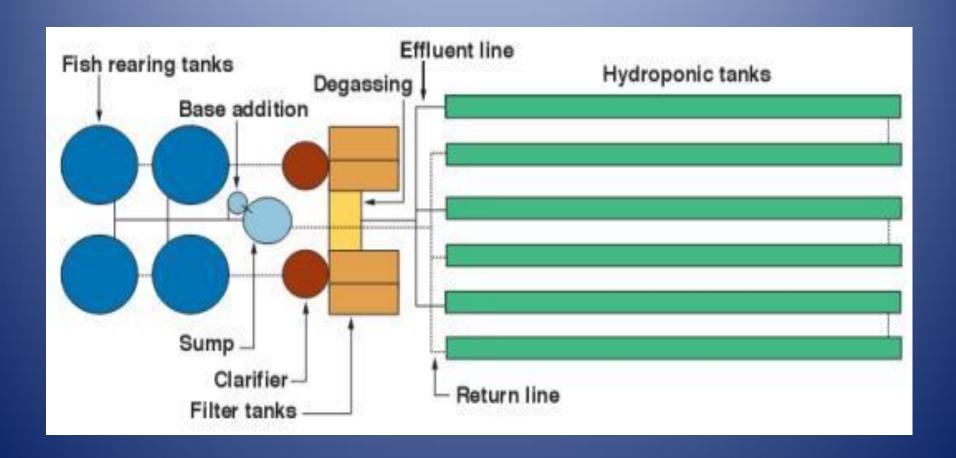
Plants take in the converted Nitrates as nutrients. The nutrients are a fertilizer, feeding the plants. Also, the plant roots help filter the water for the fish.

Water in the system is filtered through the grow medium in the grow beds. The water also contains all the nutrients for the fish

Oxygen enters the system through an air pump and during dry periods. This oxygen is essential for plant growth and fish survival.



System Design



Benefits of Aquaponics

- Environmental
- Production
- Quality
- Education
- CommunityDevelopment





Aquaponics Models

- Vertical / Tier Method
- Barrel/Media Method
- Raft Method







Central Greens Facility

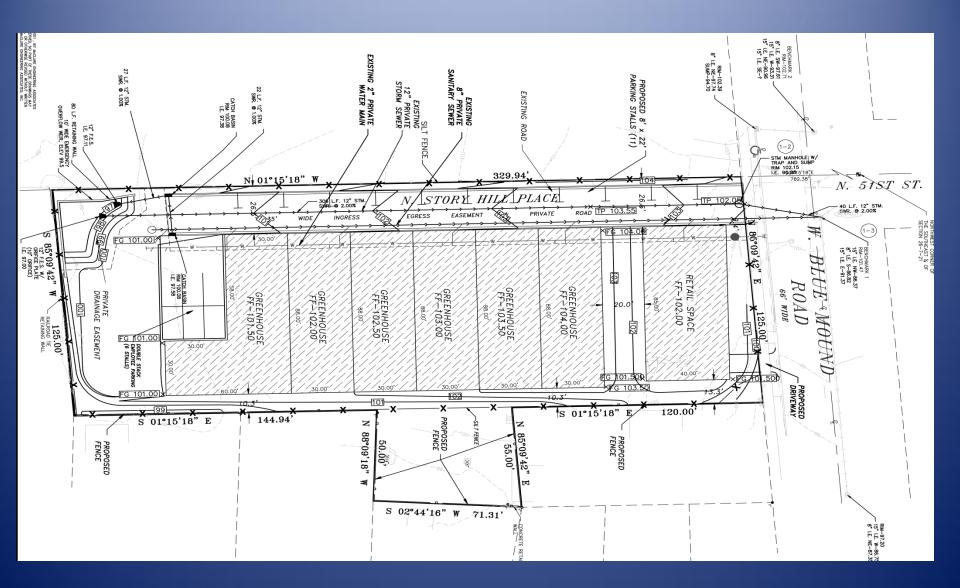








Central Greens Site Plan



Products

- Lettuce
- Specialty Herbs
- Micro greens
- Sprouts
- Medicinal Herbs
- Seasonal fruiting vegetables
- Tilapia







Services





- Tours
- Volunteerism
- Small-Scales Designs



The Future of Central Greens

- Expand our facility by establishing a six bay greenhouse
- Our mission is to create a sustainable living environment through our advanced growing techniques. We will devote our time a to the support of the community, environment, and customers, by utilizing a unique system to provide year round, highly nutritious and locally grown produce and fish.
- Become fully integrated into the community and accelerate it's path towards a sustainable future
- Training of the Human plant