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Vision

- Change how the public views Hunger, Agriculture and Education
- Provide fresh, locally grown, healthy food for socially and economically disadvantaged communities by using Aquaponics, Hydroponics and Urban Farming.
- Provide pesticide free, healthy produce.
- Teach the principles of Science, Technology, Engineering and Math (S.T.E.M.) by using “Hands On” experiential learning.



What We Do...



Grow.



Feed.



Educate.

Project Partners and Advisors

- Des Moines Public Schools Central Campus
- Iowa Western Community College
- VeroBlue
- Nebraska Department of Agriculture
- Nebraska Department of Fisheries
- Omaha Public Schools
- Bellevue Public Schools
- Sustainable Agriculture Research Education (S.A.R.E.)
- University of Nebraska Omaha
- University of Nebraska Lincoln
- Texas A&M University
- Cornell University
- University of Arizona
- Henry Doorly Zoo



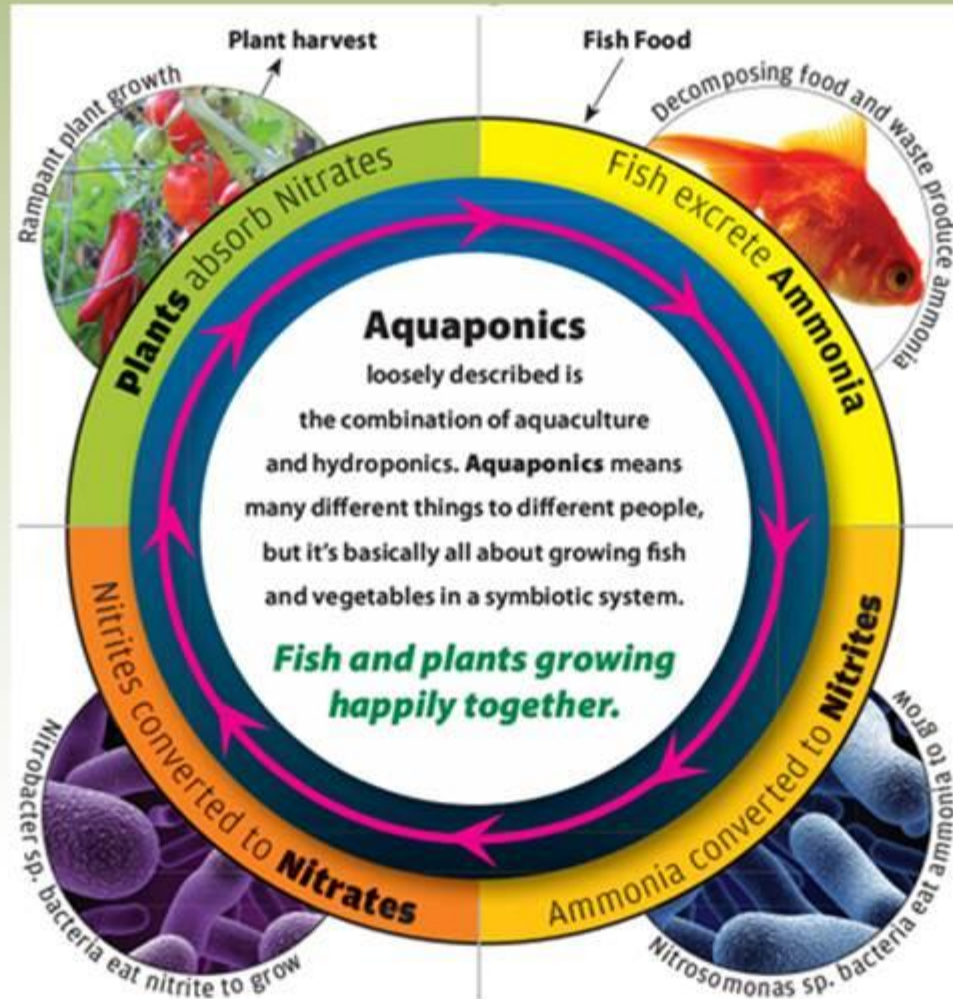
Some Current Collaborative Projects

In the Fall of 2015, we will have Aquaponic Systems running in the following locations:

- King Science and Technology Magnet Center
- Monroe Middle School
- McMillan Middle School
- Blackburn Alternative School
- Lothrop Elementary School
- Bancroft Elementary
- Omaha South High School
- Solomon Girls After School Program
- Metropolitan Community College
- Girls Inc.
- Wagner, South Dakota

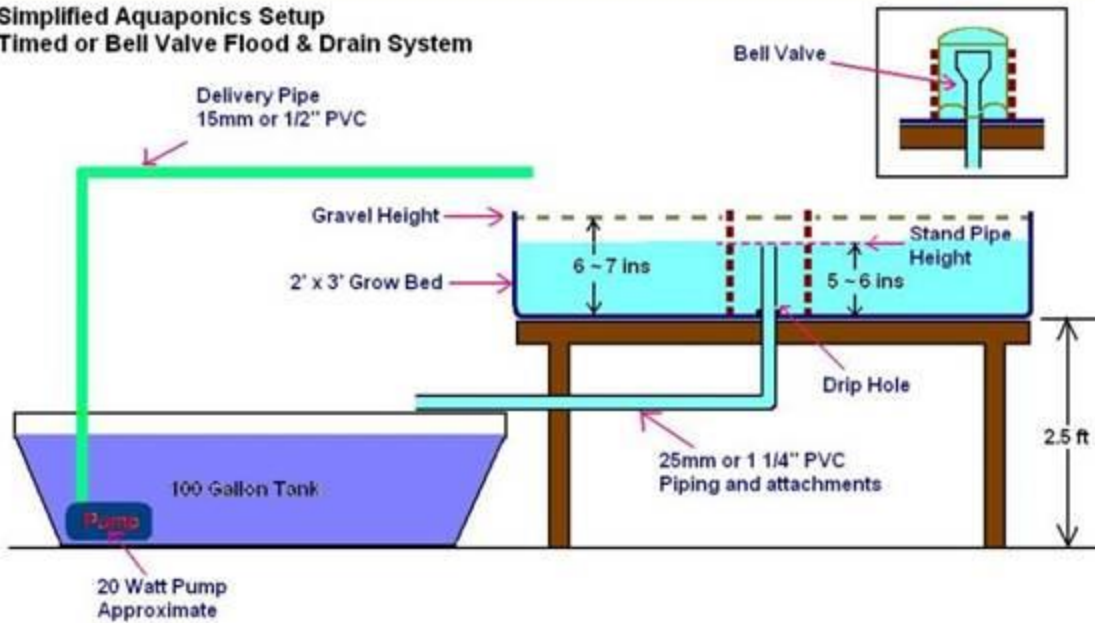


What is Aquaponics?



Basic System Overview

Simplified Aquaponics Setup Timed or Bell Valve Flood & Drain System



Aquaponics System Design

- Fish Tanks
- Plumbing
- Filtration
- Grow Beds



What Grows Well?

- Variety of Fish
- Lettuce
- Peppers
- Herbs
- Cucumbers
- Tomatoes
- Cabbage
- Spinach



Options



Opportunities

- S.T.E.M. Education
- Nutrition
- Hands On Experiential Learning
- Next generation of Agriculturists
- Local Food Production
- Economic Development



Small Scale Expectations

- 1500sqft of grow space
- 1500 gallons of fish tank
- 11,000 gallons of total system volume
- Approximately 500lbs of fish
- 40,000 heads of lettuce per year



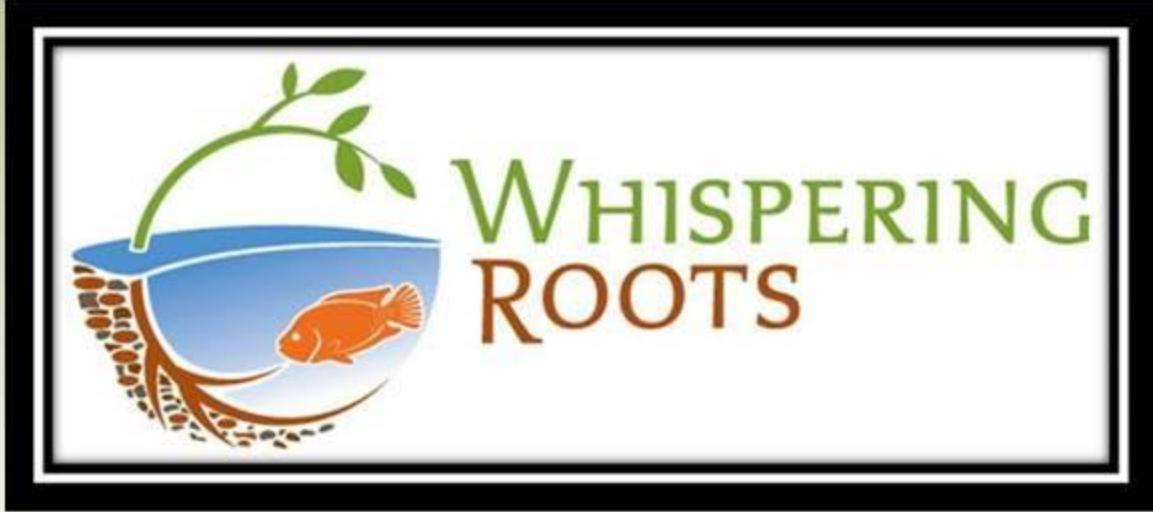
Recent Awards/Grants

- Samsung Solve for Tomorrow S.T.E.M. National Finalist
- EPA Presidential Environmental Educator Award
- Presidential Award for Economic Development
- Whole Foods - Friend of the Earth Award
- Serve Nebraska Community Award
- Doris Buffet - Learning By Giving Foundation
- American Culinary Foundation



What's Possible?





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