



Cause, you never know when an emergency is gonna hit!

Aquaponics/Hydroponics Class 3/1 Update

Thanks to everyone who attended the Thursday 3/1 Aquaponics/Hydroponics class. Class room space was provided to us by Merchant Firearms.

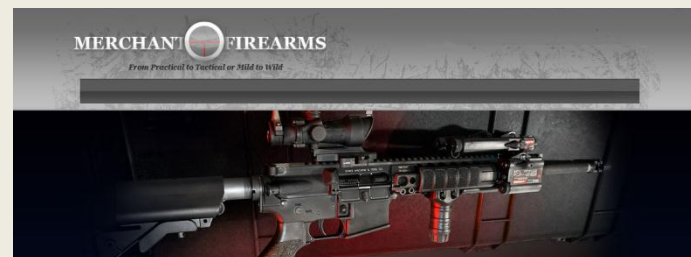
This was a highly informative class hosted by Dave , a consultant and expert in Aquaponics/Hydroponics systems. Dave brought two different operational Aquaponic/Hydroponic systems for the visual part of the class, then held a 1 hour Q&A session.

Discussed in the class were many aspects of the various types of personal set ups, and the materials which can easily be obtained and used. Also the discussion included both the choice of fish as well feed , algae, and plant material choices.

As you can see from the photos, (see next several pages) in this article, materials and construction are fairly simple. However, if you prefer not to build a set up on your own, you should contact Dave at (602) 558 9290, and he will be more than happy to discuss how he can build a system for you. And, he can answer all of your questions.

Dave is extremely knowable in all areas of aquaponics, hydroponics, the various choices for fish for your system, the food products, plant materials, algae and care for your system.

Many thanks to Dave for sharing his time, expertise and knowledge and providing this at no charge to those who attended.



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Tukee Prepper

Arizona Style



March 1st, 2012

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Two fairly simple (personal sized) systems:

- 1) 55 gallon water barrel with a 6ft to 8ft, 4" to 5" tube, some flexible tubing, and a pump
- 2) 2 – 13" deep heavy plastic containers: Bottom for the fish, top for the plant material, clear tubing and a pump





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The following is a series of photos that provide with a visual idea of the 55 gallon barrel set up.

55 gallon water barrel
6ft long 4" tube (does not have to be clear)



Drill a series of 1 1/2" hole, spacing them approximately 4"-6" inches apart. Spacing is up to your design needs





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On the bottom side of the tube. Drill another hole, to fit your flexible hose. You will need a 8" to 12 " piece of your flexible hose and place in the hole. This allows you to control and adjust the level of water that will flow in the long tube, such that your rockwool can properly wick the water up to feed your plants.



Attach your flexible hose to the pump





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Drill a hole in the center of one of the end caps to fit the flexible hose. The other end of that hose is attached to your pump.



Use PVC cement to attach the flexible hose in to the end cap. And also to seal both end caps on the long tube.





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Place the pump into the barrel



Strap down & secure your tube





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Fill the water barrel up to roughly $\frac{3}{4}$ full, turn on the pump. Adjust the short hose so that the overall water level in the tube, is roughly $\frac{1}{2}$ to $\frac{3}{4}$ full. Level it as needed.

Cut your rockwool in to chunks, place in the holes, adjust so they contact the water so they will wick. Allow your water to purge off the chlorine for at least 24 to 48 hours, before you add your fish. You can add your seeds or seedlings an time after that.



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