"The Challenges and Rewards of Backyard Aquaponics"

By Rick White

I'm going to share a quick story about Aquaponics and my neighbor

Story starts with dogs

My neighbor's pair of "lab" puppies would pull him around the neighborhood

They would stop and say "hello"



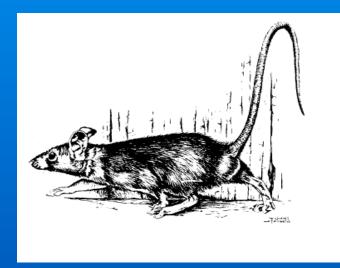
Meet Mochi and Nori. Care to guess who is who?

last year I started gardening by creating a simple raised bed garden.



Almost immediately I was introduced to other neighborhood pets"

Roof rat, or *Rattus rattus*They loved my Tomatoes



That helped spark more interest in Aquaponics

Emailed Windward about a class and got a response from Clyde Tamaru.

Clyde S. Tamaru

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First Thing I Learned

First (and most important) Aquaponics mathematical equation I learned

Mochi + Nori =



Backyard Aquaponics

Took a beginners Class at Windward

Great experience and highly recommended!





Took a tour of Mari's Garden with Fred Lau.

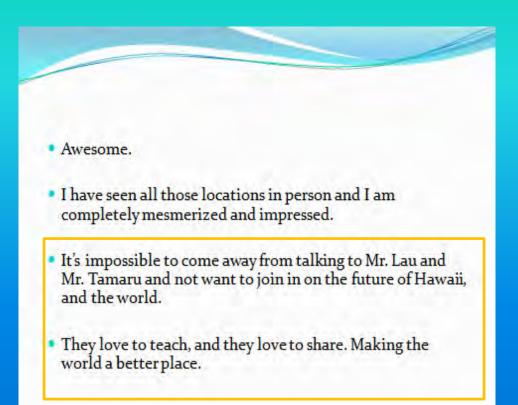
A few days later I emailed Fred to ask about his selection of Tomato starters and he told me to come pick some up. I thought that was pretty cool

Told me he was building greenhouses because that was the best way.

Recognition

A comment from Wes in

Malamalama The magazine of the University of Hawaii.





One of the most important things I learned from Fred "grow what you like to eat".

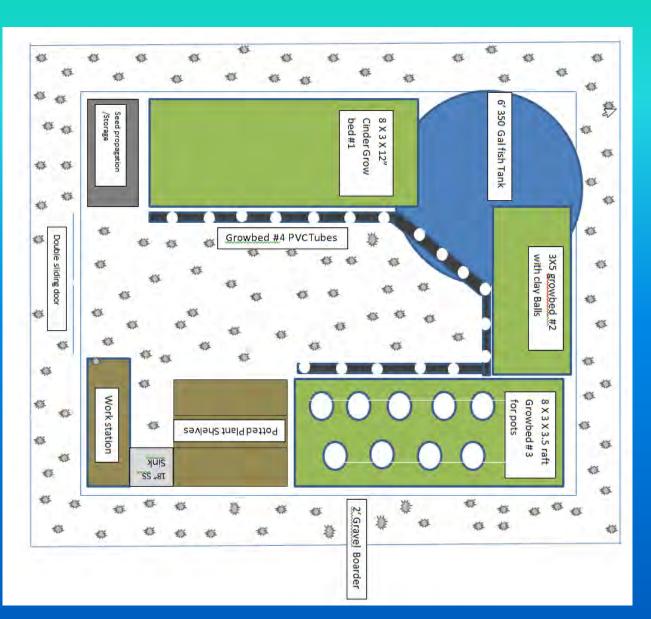
Friends and neighbors say....



Things I was told
I would grow



Planning the greenhouse



Made a plan

The Layout 12x 16 Costco Tent - Craigslist = 50.00



A little digging...



Notice Anchor pins on each leg



Attach wood to frame

Attached boards with self tapping screws

Anchored all tent poles with 4' concrete pins and/or ¾ galvanized Pipe

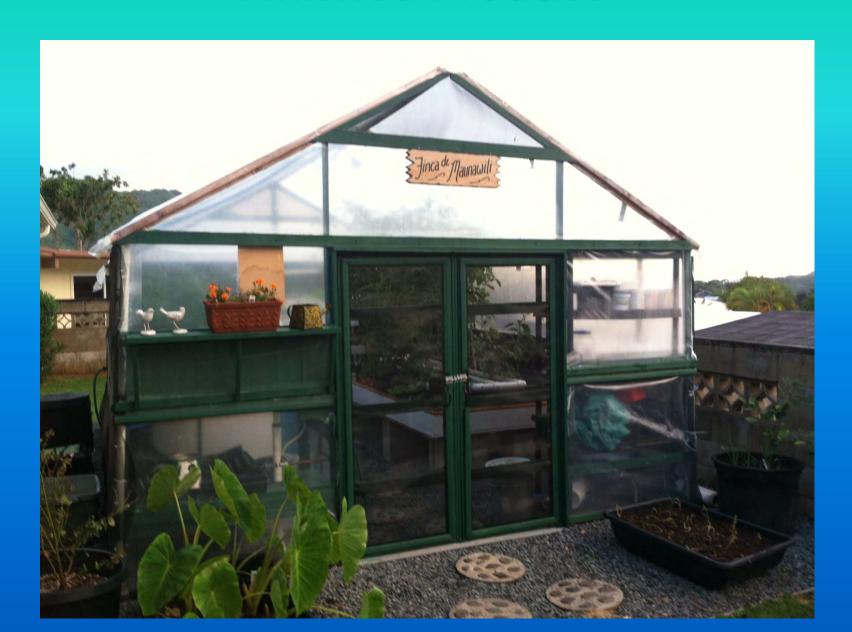
Add barrier cloth, 18" Galvanized hardware cloth, and Gravel



Throw in a sink, screen cloth, 6 mil plastic, and some green stain



Finished Product



Wood growbeds with plastic liners



NFT (nutrient film technique) system





Free-Flow 10 pot Growbed

Idea from Fred

....and we started cycling and growing (6 months ago)





Cabbage







Broccoli



Strawberries







(Juicy, Fresh, Clean) Cucumbers







Soy Beans



Parsley & Celery





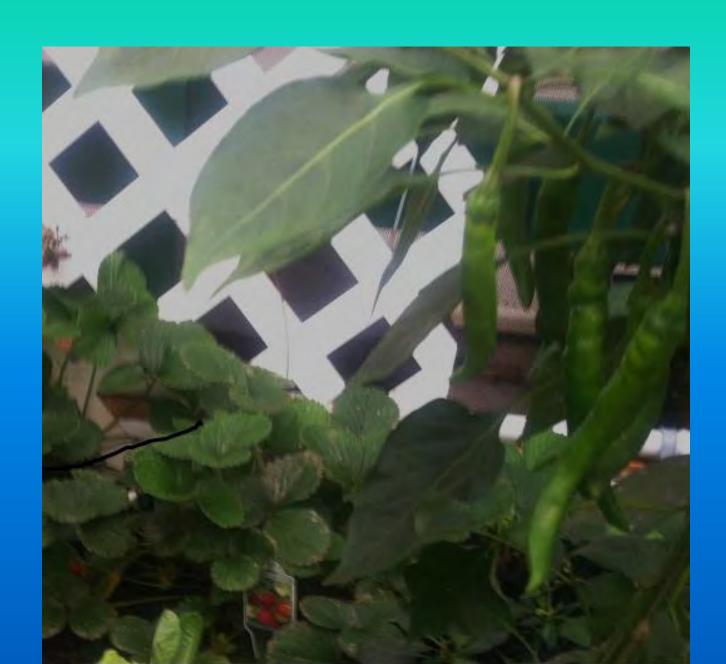
Basil (4 feet high)



Watercress



peppers



Tomatoes





The Most Rewarding Part



Picking your salad!

More..... Corn



... Grapes Blueberries...





Homemade ...homegrown ingredients



Then there is the fish....

As a longtime fisherman, I just tell everyone "It's Mahimahi".





In Closing

If anyone needs help in designing or building a simple backyard greenhouse please feel free to contact me.

Rick White

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The End

Mahalo!