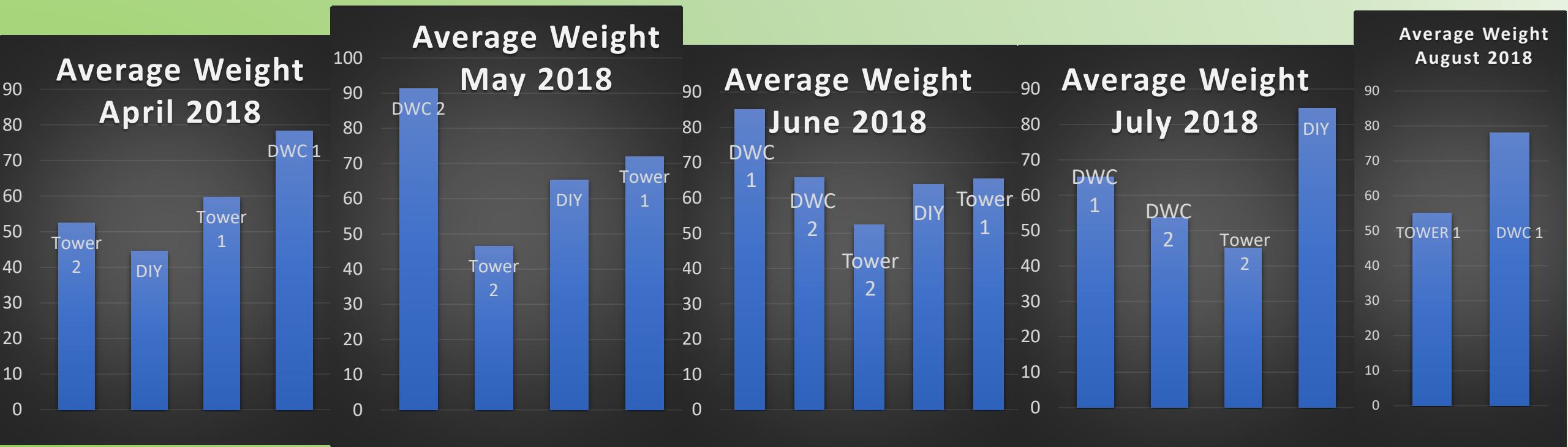


# Aquaponics

Krystal York

# Aquaponics Data

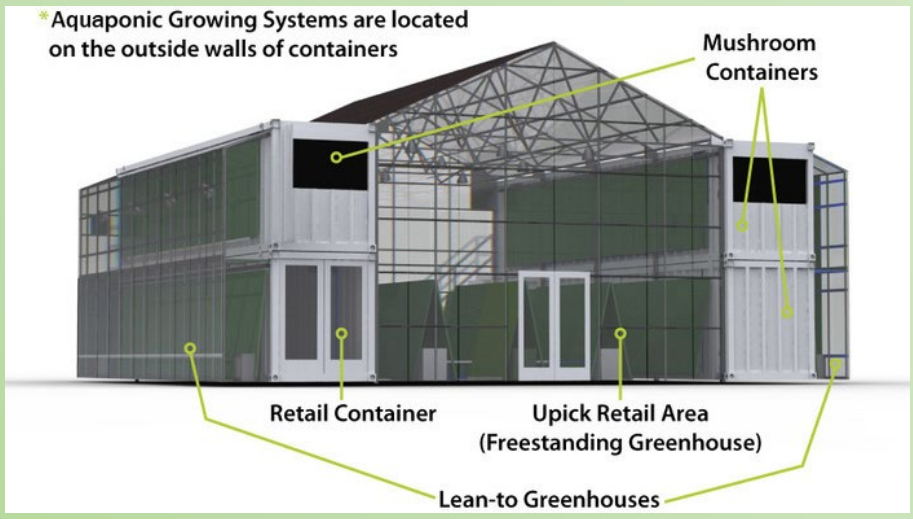
Total Average for Towers	Total Average for DWC
58.89 grams	73.48 grams



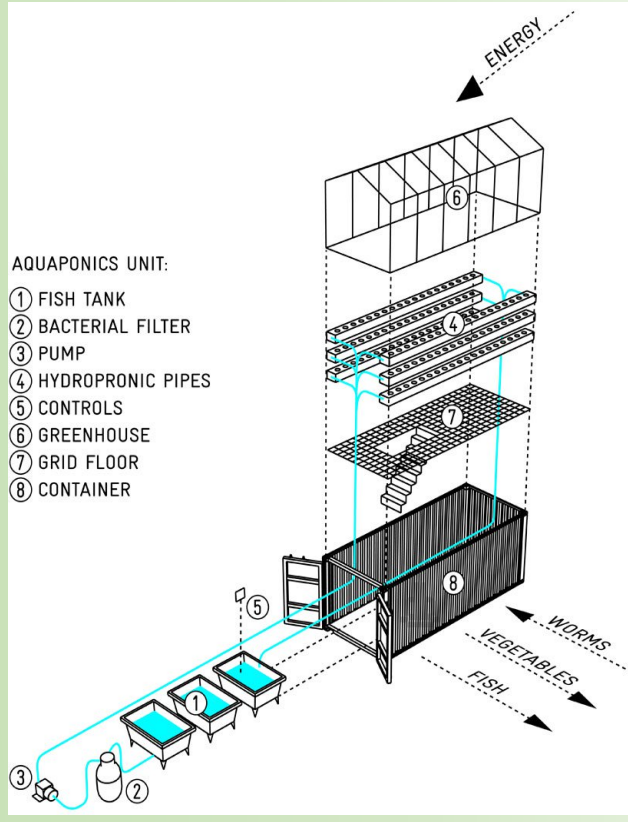
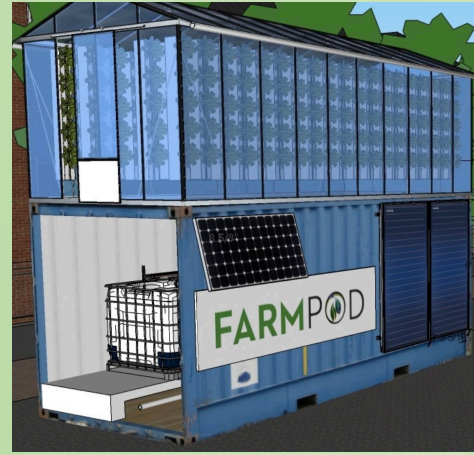
# Warehouse Example

warehouse better walking & water room	L	W	H		
Size of room		94	60	12	
Floor		5640sq-ft			
Room		67680ft^3			
Wall 1		1128sq-ft			
Wall 2		720sq-ft			
4Floor w/ space		5264sq-ft			
8More floor space		4888sq-ft			
Deep water beds				DWC results	
plant space		0.25sq-ft		Weight (on average) in grams for harvest	4238620.32
space to walk		21056plants		Weight (on average) in pounds for harvest	9336.168106
2layers		42112plants		Pounds per year	93361.68106
3layers		63168plants	5	Profit for year (\$5 per pound)	\$ 466,808.41
more space		19552plants			
3layers (more space)		58656plants			
	L	W	H		
Space for fish/supplies		9	9	11	
floor		81sq-ft			
wall 1		99sq-ft			
less plants deep water		324plants			
3layers		972plants			
total deep water plants		57684plants			
less plants towers		396plants			
2Rows		792plants			
total tower plants		68392plants			
Towers				Towers results	
plant space		0.25sq-ft		Weight (on average) in grams for harvest	4027604.88
Entire wall 1 filled		4512plants		Weight (on average) in pounds for harvest	8871.376388
16Rows		72192plants		Pounds per year	88713.76388
11.5Wall 1 room for water		1081sq-ft	5	Profit for year (\$5 per pound)	\$ 443,568.82
Filled w/ room for water		4324plants			
16Rows		69184plants			





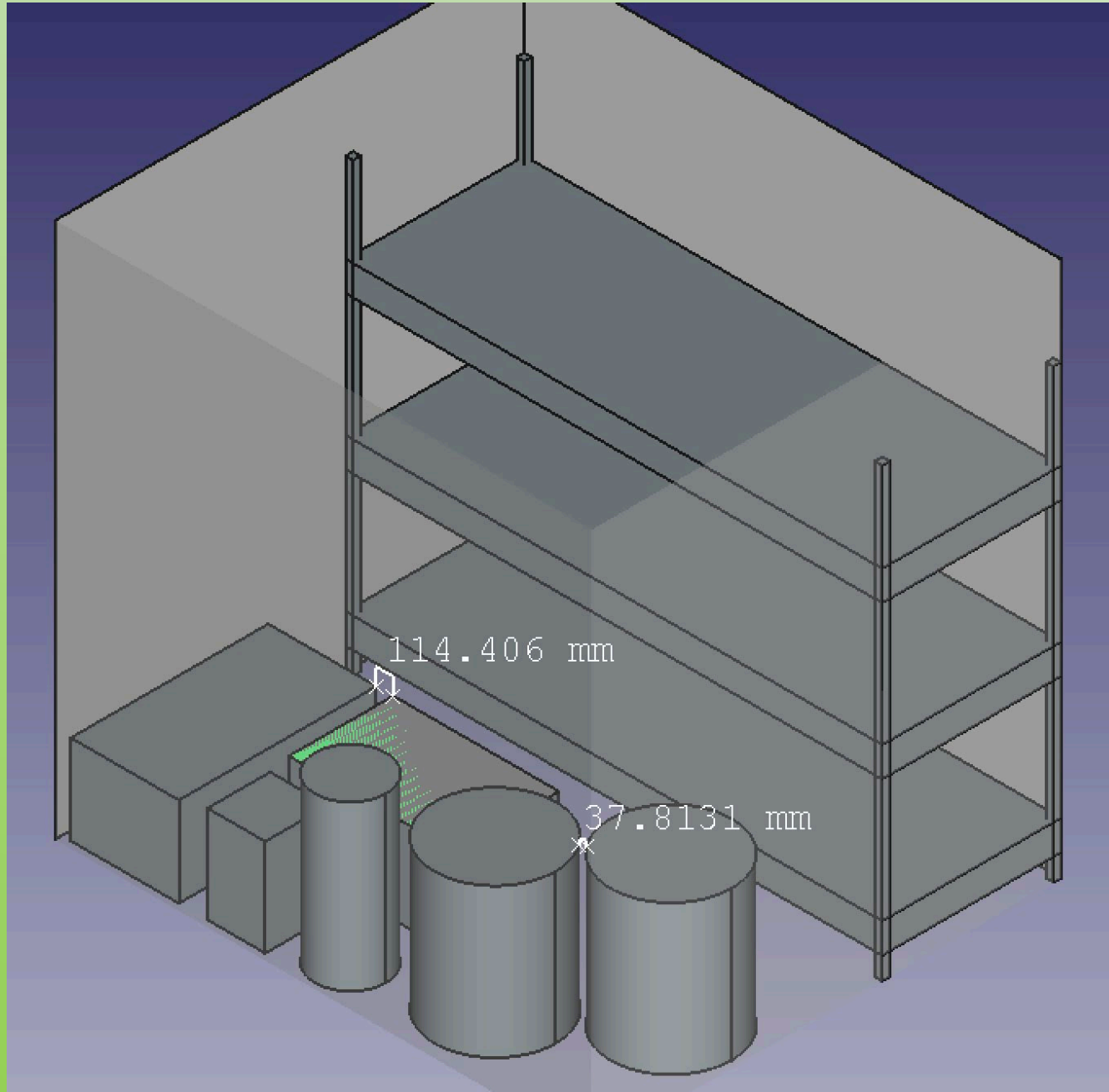
# Aquaponics in Shipping Containers



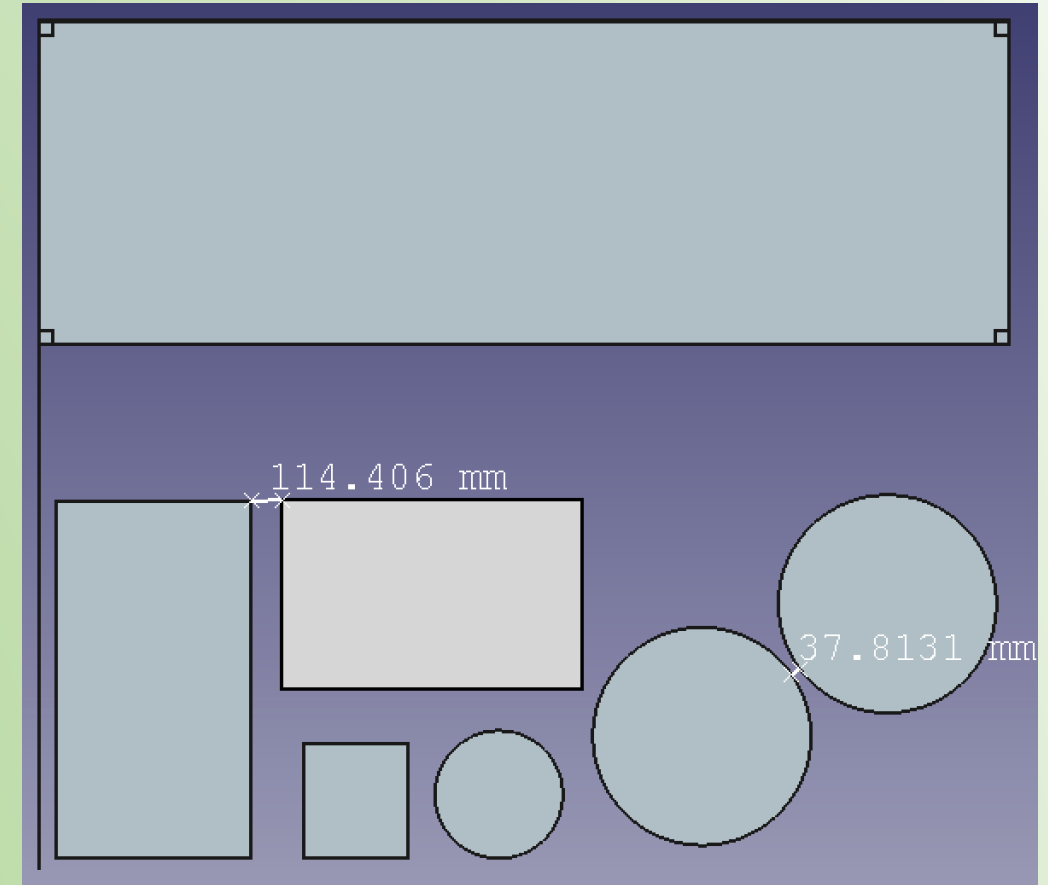


# Aerating Compost Tea





# 3D design



# Researching Parts

- DWC Beds
- Bead Filters
- Other Filters
- LED Lights
- Air Pumps
- Fish Tanks
- Regenerative Blowers

# Currently Researching

- Composting!
  - How to reduce smell
  - Vermicomposting
  - Biochar compost
  - Other possible types of composting we could implement



# Office of Sustainability



Beautiful harvest today :)

