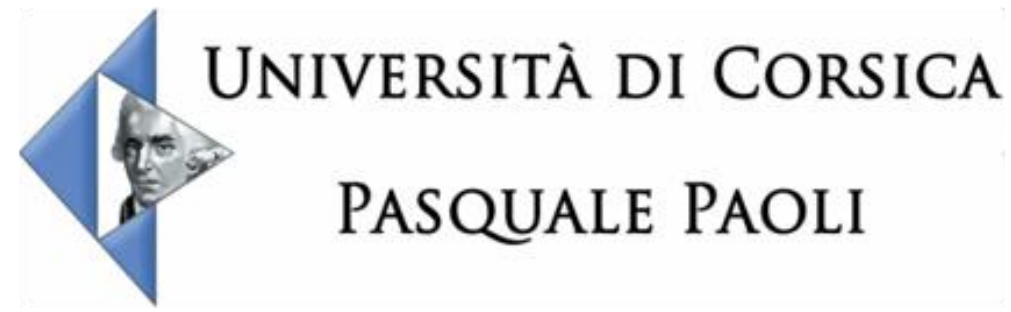


# Renewable Energy

## Power from the Sun and Earth

Making My Research Possible



**MOSAIC  
DATA  
SYSTEMS**



**Nadine L. Straitt**

Technology Program  
Minor in Renewable Energy

- Certified Wind Turbine Technician
- Graduate of Iowa Lakes Community College Wind Turbine Technology Program
- Renewable Power Engineering Intern

## Solar Powered Aquaponics



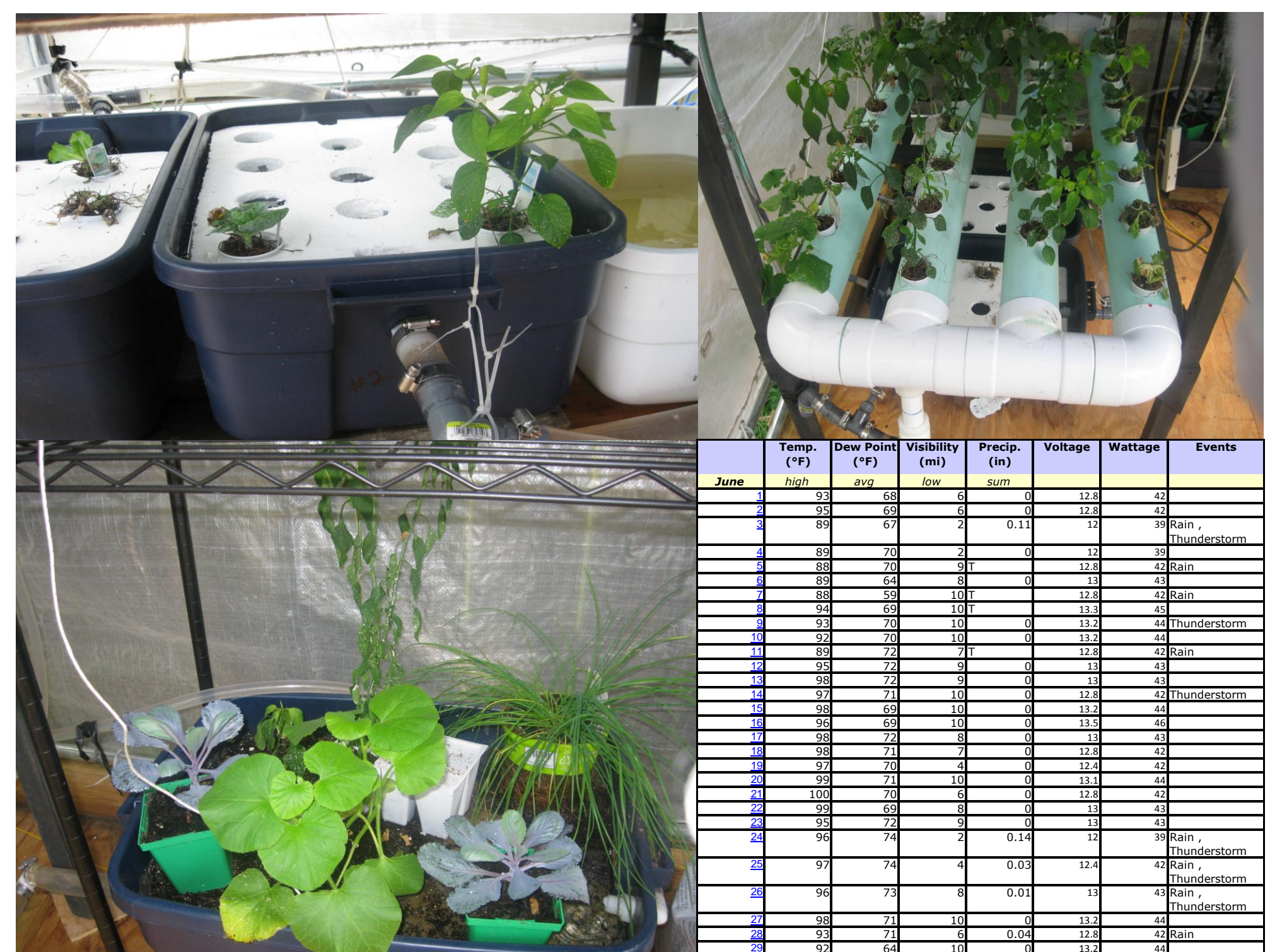
## Assembling the Infrastructure



## Solar Power and Plant Grow Beds



## Produce and Data Sets Growing



	Temp. (°F)	Dew Point (°F)	Visibility (mi)	Precip. (in)	Voltage	Wattage	Events
June	high	avg	low	sum			
6	92	68	0	0	12.0	43	
7	89	69	0	0	12.0	43	
8	89	67	0	0.11	11	43	# Rain
9	89	70	0	0	12	43	
10	88	74	0	0	12.0	43	Thunderstorm
11	89	64	0	0	11	43	
12	88	59	10	0	12.0	43	Rain
13	94	64	10	0	13	43	
14	93	70	10	0	13.0	43	Thunderstorm
15	89	73	10	0	12	43	
16	89	73	10	0	12.0	43	Rain
17	85	72	0	0	10	43	
18	90	72	0	0	12.0	43	Thunderstorm
19	97	71	10	0	12.0	43	Thunderstorm
20	98	68	10	0	13.0	44	
21	98	68	10	0	13.0	44	
22	98	77	10	0	13	43	
23	97	73	10	0	12.0	43	
24	97	73	10	0	12.0	43	
25	99	71	10	0	13.0	44	
26	100	74	10	0	12.0	43	
27	99	68	10	0	11	43	
28	99	74	0	0.14	13	43	# Rain
29	91	74	0	0.03	12.0	43	Rain, Thunderstorm
30	96	70	0	0.01	11	43	Rain, Thunderstorm
1	98	71	10	0	13.0	44	
2	92	64	10	0.06	12.0	43	Rain
3	92	64	10	0	11.0	43	
4	88	61	10	0	13	43	