





MISG SUMMER RESEARCH 2020

Ana Singh





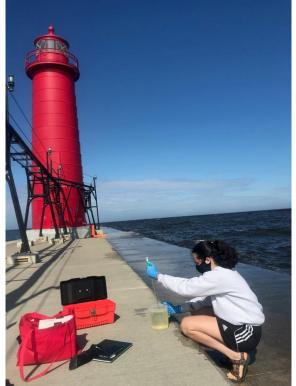
Top photo courtesy of PCS Facebook

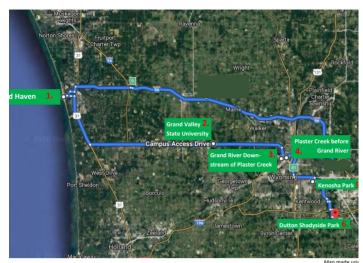
The project

- ❖ Plaster Creek Watershed → "One of most polluted watersheds in the state"
- Plaster Creek Stewards Initiative: Research, Education and Restoration
- Improvements on Urban Green Infrastructure
- Mentoring and educating area high school students about upstreamdownstream connections









Methods

Transpiration Data Collection:

- Leaf porometer
- 4 collection dates
- ❖ Sunny conditions and 10:00 AM- 2:00 PM

Regional Sampling Trip:

- 6 Sampling sites on Grand River and Plaster Creek
- PH, Conductivity, and temperature measurements.
- Sample Collection for E. coli plating
- Report values to LGROW data repository

Results

Native Plant Transpiration (mmol/m²s)

Asclepias tuberosa - 449.85

Rudbeckia triloba - 316.76

Solidago speciosa - 251.93

Penstemon hirsutus - 251.82

Liatris spicata - 242.18

Packera obovata - 241.89

Lobelia siphilitica - 214.14

Penstemon digitalis - 209.53

Monarda fistulosa - 200.43

Allium cernuum - 37.56

Regional Water Sampling

High levels of E. coli in both sampling trips

Created an educational video to share with Green Team Students

Data shared with LGROW Data

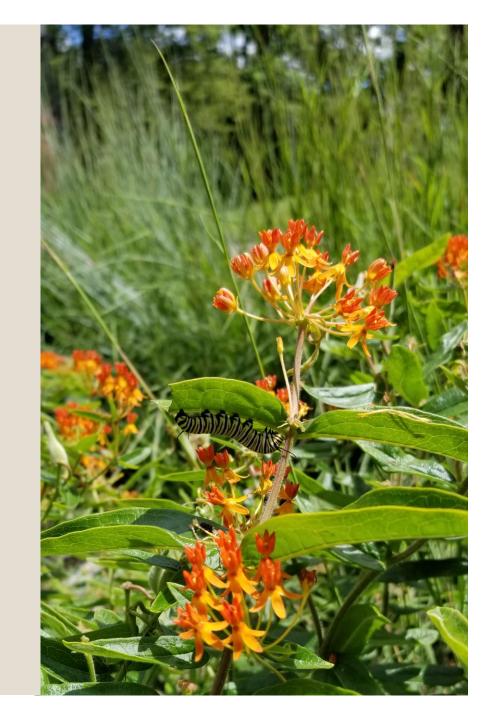
Repository



Challenges Faced

COVID-19 obstacles

- Data analysis/processing
- Future plans for publication





LESSONS LEARNED