

Land and Water Objectives

1. Implement the Resilient Landscape Strategy recommendations by FY24.
 - Can we send this to the team? This could provide opportunities for recommendations.
2. Establish a Rainwater Utility Fee through Utility and Energy Services at F&S, and use it to fund a Rainwater Management Plan in FY23. <<see SWATeam's file>>
 - Eliana: This could tie into project that Eric and Sophie are working on. We will talk more about this.
3. Establish a soil monitoring initiative on south farms in summer 2021 and continually monitor soil quality. Analyze soil in 20 areas per year.
 - 20 areas/yr may be too much
 - A lot of this is being done, it is a matter of sharing the information.
 - Identify a person willing to do this (record keeping, monitoring) and publicize the data - plus land manager (this is happening but not coordinated), someone from NRES or Crop Sciences
 - Art will work on developing this into a recommendation and we will go over it as a team during the next meeting
4. Use cover crops in at least 10% of South Farms acreage by FY24.
5. Increase pollinator supportive areas on campus by xx% by FY24.
 - 50% increase (in specifically on-the-ground pollinator-friendly landscaping) by FY24
 - a. Renovation and conversion of 10% of the low mow acreage to a low prairie or meadow, with an emphasis on pollinator support.
 - b. Maintain Bee Campus USA status
6. Increase # of trees on campus by 20% by FY24.
 - a. Conduct tree canopy analysis → Brent can start developing this recommendation, it could potentially be a student project
 - i. LiDAR data
 - ii. Can compare with 2016 data – perhaps geography or NCSA students can help
 - b. Maintain status as Tree Campus USA, annually.
7. Reduce potable water consumption by xx% by FY24.
 - a. Self-closing or sensor faucets should be installed in all buildings
 - b. Communicate water usage by building to occupants, using metered water consumption.
 - c. Land that is being irrigated needs to be taken off municipal water sources and have wells installed or alternate water sources based on needs of the research.

- d. Develop method to locate and redesign research equipment with once-through cooling systems using potable water (picture it: the faucet is on 100% of the time, all day, every day, all year, every year).

Student Suggestions

- Increase the use of rain barrels and phase out the use of sprinklers
 - → More education, how can we do this?
 - Feasibility of connecting the sprinklers w/ atmospheric data?
 - Turfgrass irrigation
- Audit residence halls to see how much water they use
 - Install more low-flow fixtures in more residence halls
 - Target buildings with abnormally high water usage to reduce water use
 - We have this data, but what do we do with it?
- Use leaves removed from the ground as fertilizers and organic matter
- Rooftops! – We are installing more green roofs around campus (is there a goal for this?)
 - Put native landscapes on green roofs to support pollinators – are the green roofs that we have supportive of pollinators?
 - Inventory spaces for green roofs (potential recommendation?) → Brent can start the recommendation and we will go over it in the next meeting
 - This could potentially go to the manager of each building, good student project
 - Install solar panels on roofs (even alongside rooftop gardens)
 - Parking decks? Takes engineering restructuring, withstand wind
 - More projects around parking lots
 - Install a vegetable rooftop garden on top of Ikenberry (SDRP) building
 - Safety issue