Submitted by: David Sieperda, Ag **Idea # 55**

Develop a groundwater recharge system utilizing the resources we have here on campus to create a sustainable supply of water for the campus and nearby community.

CURRENT CHALLENGE:

Sustainable groundwater in the San Joaquin Valley is important to all citizens who live here and there is a great deal to be learned about recharging aquifers with good quality water. I propose that we develop a groundwater recharge system utilizing the resources we have here on campus to create a sustainable supply of water for the campus and nearby community.

PROPOSED SOLUTION:

Develop affordable solutions to "cleaning or filtering" available surface water so that it can be injected into the aquifer beneath Fresno State and develop a small groundwater recharge basin where we learn and develop practices that make this process as efficient as possible. The University Agricultural Lab can play a role by use of its irrigation system and available land to achieve the above solutions.

BENEFITS TO FRESNO STATE:

- Promotes Fresno State's leadership in water by providing real world experience right here on our campus
- Promotes Fresno State's involvement with the local Fresno community
- Shows Fresno State's commitment to groundwater Sustainability
- Potentially allows for revenue generation by sales of water to other Fresno Irrigation District customers in times of reduced water supply
- Provides educational opportunities
- Provides many types or research opportunities (water filtration, water measurement, recharge basin development and maintenance, etc.)
- Provides a water resource for the University Ag Lab that can protect its presence and productivity in the future

ADDITIONAL INFORMATION:

This project is larger than me and maybe not quite appropriate for this process but I think there is a great opportunity here so I am submitting it.