

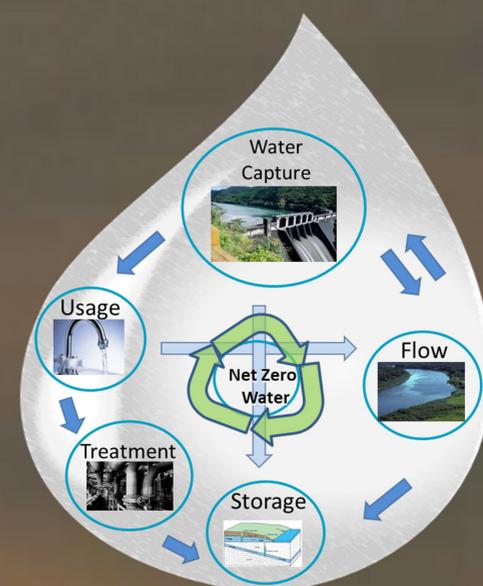
STORM WATER FLOW AND WATER CAPTURE MODELLING FORT IRWIN, CALIFORNIA

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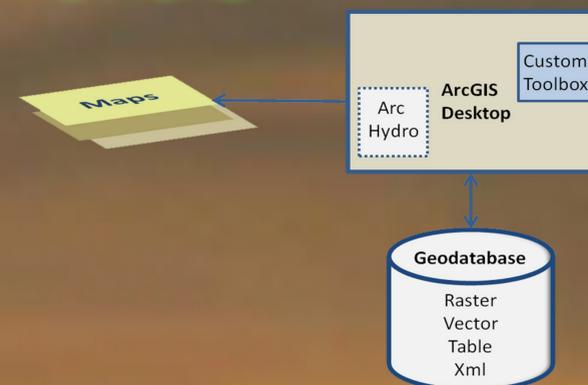
BACKGROUND

The US Army Net Zero Water Program: Army installations need to return as much water to a watershed as they draw from it in a given year.

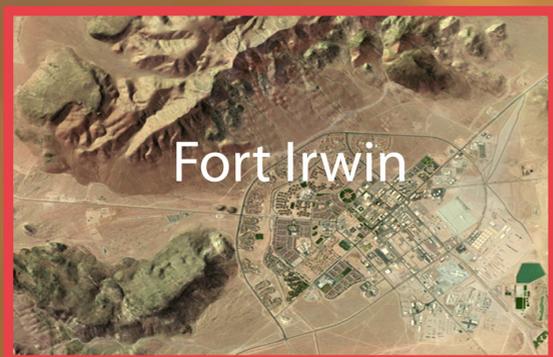
National Training Center Fort Irwin: A military base in southern California that is reliant on aquifers. The base currently withdraws more water than it returns to the source aquifers. This practice is not sustainable in the long run.



ACTIONS



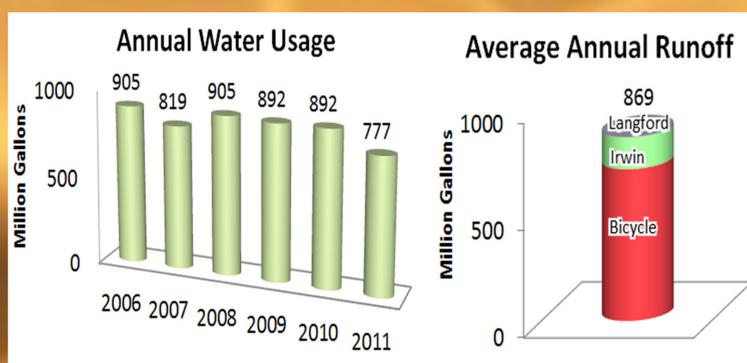
MISSION



- Examine storm water as a source for aquifer recharge in Fort Irwin.
- Determine the feasibility and location of possible storm water capture sites.

- Delineation of storm water basins.
- Estimation of runoff volume and peak discharge.
- Identification of candidate storm water capture sites.

REPORT



Storm events generate enough runoff to make water capture feasible in Fort Irwin. Recharge efforts should however focus on Bicycle Basin which generates the largest amount of runoff.



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