Summary of Articles

Water Audit @ CSUB- <https://www.calstate.edu/water/conference/2015-files/Presentations/8and9-Rubi-and-Kaur-Final-Conservation-of-Water-at-CSUB.pdf>

* Bakersfield had a downward trend for their water table levels
* Problems: broken sprinklers, watering at the wrong time, overwatering, and watering pathways/roads
* Water use for Summer: 3.2 acres, $40K Winter: 0.5 acres, $6k
* Irrigation System: electric and runs 20hrs/7days
  + Issue: not all sprinklers are updated
* One solution- Xeriscaping by using native vegetation, gravel, zen gardens, and turf
* Page 9- Turf estimations
* Issue: changing surrounding landscape will shock trees or draught vegetation
  + Creates new problem of dead vegetation removal-Expensive
* Issue with drip system: Animals will damage leading to expenses for replacements/repairs
* Turf has long term benefits but will cause disturbances in habitats and be expensive to install and remove
* Page 12 shows their possible water smart areas
* CSUB has started to xeriscape in certain areas
* Started a reporting website for broken sprinklers throughout their campus
* Main goal to reduce water use by 20% by 2020

UT A&M Home Water Audits- <https://texaswater.tamu.edu/conservation/home-water-audits.html>

* Article on home water audits
* Home water audits can save up 20-30 gallons or reduce water use by 25-40%
* Many water utilities offer home water audits for free but can be done on your own
* Different checklist for indoors and outdoors
* Indoor audits normally contain checking for leaking toilets or shower heads
* Outdoor audits normally contain checking for parts of your landscape that remains wet for long period of times. This can mean a leaking pipe, valve, or sprinkler
* Most common source of water waste is bad irrigation systems
* Tip- adjust irrigation system for each season and purchase rain sensors
* Install low flow faucets and toilets
* Lowing water waste in irrigation systems will lead to less stress on water waste facilities and reduce pollution in runoff

University of Arizona School Water Audit Program (SWAP)- <https://arizonawet.arizona.edu/programs/school_water_audit>

* Website to their School Water Audit Program
* Program for schools in Arizona to help teach kids how to use water sustainably
* Performs water audits on schools with the help of kids
* Teaches students water management skills to take home
* Study tech to lower water use and how to install low flow fixtures
* The program has saved over 50 million gallons of water

University of Victoria, Canada Water Use Audit- <https://www.uvic.ca/sustainability/assets/docs/reports/water-audit.pdf>

* Formal report of their whole campus water use audit
* Was done in 3 phases:
  + Phase 1: Historical review of waster consumption, Fixture inventory, and mechanical upgrade recommendations for priority buildings
  + Phase 2: Full scale audit of the Outdoor Research Facility
  + Phase 3: Review of irrigation practices and recommendations for campus grounds
* Report has details on how they preformed their audit and the data they collected
* This report summarized their finding and has their suggestions to be implemented