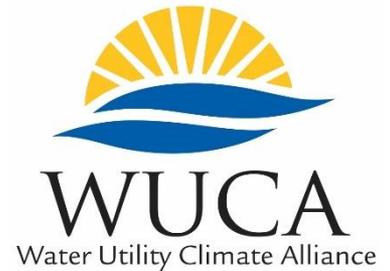


**Building Resilience to a Changing Climate:
A Technical Training in Water Sector
Utility Decision Support**



Key Takeaways from Day 1

Laurna Kaatz, Denver Water/WUCA

Brad Spangler, Meridian Institute

Reflections on the Day?

Day 1 Key Takeaways: Climate Science

- Temperatures are rising & precipitation patterns have changed
- We expect more warming in the future, but timing & magnitude are uncertain
- We can *project* potential changes in climate, but can't *predict* them
- There are many sources of uncertainty including uncertainty about future emissions and exactly how the climate will change
- We expect some sources of uncertainty to not go away
- Climate models are the best source of information on future climate, despite limitations

Day 1 Key Takeaways: Climate Science

- But some signals are more certain
- Downscaled data are not necessarily more accurate
- Models that work in current climate may not work in a future climate (past performance is not a guarantee of future gain)
- It is critical to understand uncertainties and the processes involved in your system

Day 1 Key Takeaways: Planning

- Long-term planning should consider multiple futures
- Challenge of anticipating climate change (or any future change) is making decisions in light of uncertainty
- There are philosophies and approaches to addressing adaptation
 - Uncertainty approaches are better suited to identify and assess options for adaptation
 - Optimization approaches can still be useful
 - Decision support can help in analyzing options
- Climate change is one of many deep uncertainties
- Be systematic and make the best decision you can – it is important to do something

Day 1 Key Takeaways: Communications

- Build Trust
- Be patient
- Avoid criticizing
- Highlight common ground
- Repeat, repeat, repeat
- Take advantage of a crisis
- Take the time to understand your audience and be prepared to meet them where they are
- Think about audiences and communications throughout planning process and document assumptions

Day 1 Wrap-Up

- Please complete your Day 1 feedback form
- Coffee available tomorrow starting at 8:00 am
- Please be seated and ready to go by 8:30 am