Drought Emergency Plan

City Council

February 16, 2021



Recommended Drought Plan Update

- Update to the Drought plan is the result of 24 months of analysis, including a literature review and economic analysis
 - 。 Case studies and analysis of the tools that are working in for utilities using water budget billing
- Over the last 16 years, our approach and best practices have changed
 - 。 City deployed a Water Budget billing structure
 - Developed wise water use and conservation programs
 - Customer usage has decreased per household, while supplies have increased.
- On January 20th, The Water & Sewer Board formally approved and recommended to City Council the Drought Emergency Response Plan (2021) and the related code changes

Goals of the Drought Plan Update

- Targeting response actions to the severity of drought conditions
- Reducing water use and building savings during drought
- Maintaining Equity among customers and use types
- Managing the financial impacts
- Identifying communication tools
- Maintaining flexibility to adapt



Important considerations



Equity among Greeley's customers



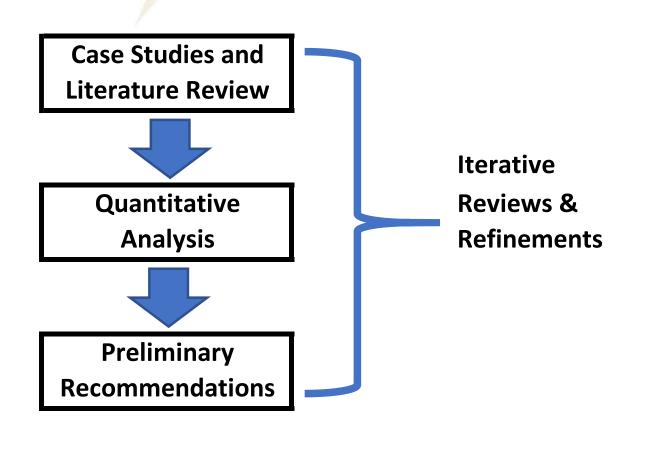




Minimize financial impacts to customers and the water utility



Process for Developing a New Drought Plan



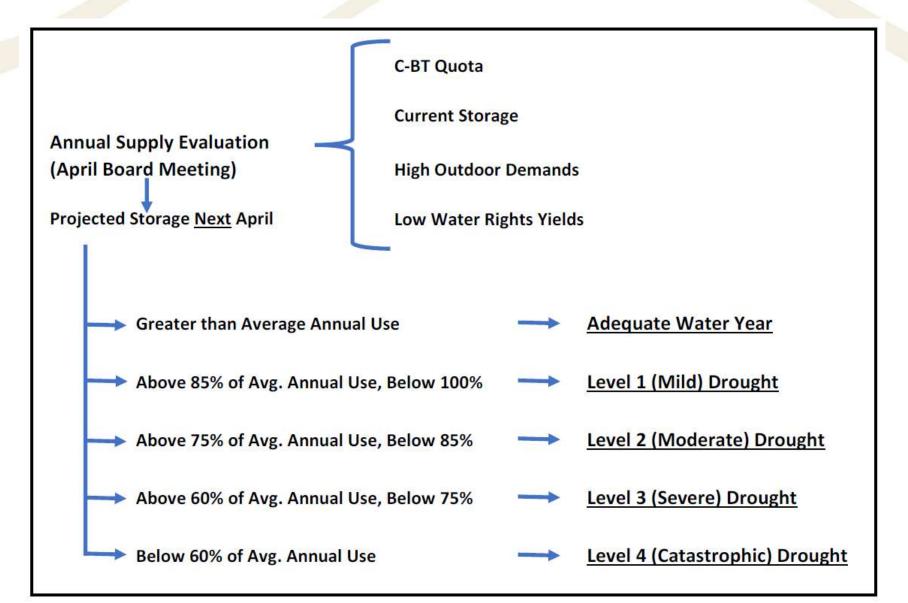
Previous Drought Measures

- Day of the week limitations
- Outdoor water use restrictions including ordinance changes
- Voluntary indoor suggested restrictions
- Working with large landscapes on use individually

Proposed Drought Measures

- Using water budgets for single family residential (SFR)
- Ability to use increased rates for all customer classes
- Change in ordinance to reflect new outdoor restrictions
- Implement a drought reserve fund

Drought Response Trigger and Declaration Process



Drought Response Trigger and Declaration Process

- Current Target Storage is 21,300 AF
 - Will be re-evaluated regularly, based upon customer growth and demands
- Reductions and restrictions are for outdoor irrigation only
- Using Water Budget as one of many tools for Single-family residential customers
 - Savings assumes single family customers are using 100% of their water budgets
- Recommending a 2 year recovery period
- Equitable: same % reductions for single family residential, multifamily, commercial and industrial

Drought Response Strategies

Droughts are uncertain

- Hard to project how long they will last or how severe they will be.
- Also, difficult to predict how customers will respond and thus, how much water will be saved by different drought measures.

Important to have a variety of tools for customers to use

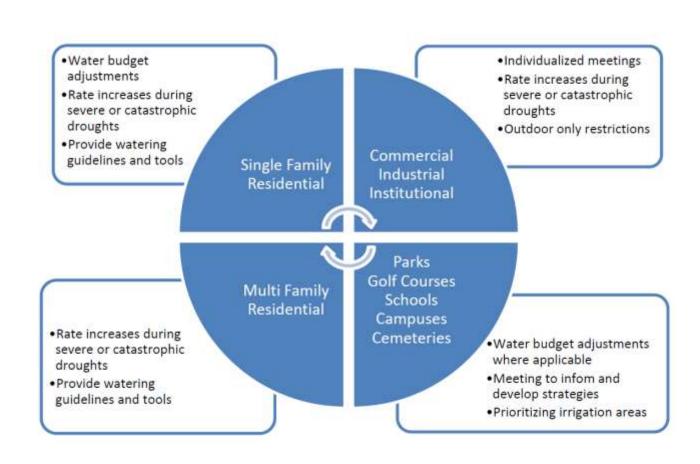


Need flexibility in the drought plan to adapt to changing circumstances



Customer Engagement Strategy

- Strategies aimed at equitable reductions
- Different tools available
- See comprehensive list of drought response tools in the 2021 Emergency Drought Response Plan (Enclosed)



Drought Response Strategies

Variety of tools that can reduce demand up to 70%

- Level 1 & 2 utilizing messaging and voluntary response strategies to reduce demand
- Rate Increases send a price signal for more severe drought
 - Level 3 = 25% increase
 - Level 4 = 35% increase
- Helps reduce financial vulnerability during droughts



Drought Reserve Fund

- Annual revenues are projected to be reduced by \$1.6 to \$3.0 million per year (4 to 8 % of normal revenue) during drought response
- Greeley plans to implement and gradually accrue a drought reserve fund for future use in mitigating reductions in revenues due to decreased water sales during drought emergencies

Code Changes

Implementation of the Drought Emergency Response Plan Requires:

- Adoption of Code changes in Sections 14.08.090 and 14.08.160
 - > Prescribes the means by which City residents may use water resources to irrigate their property and make other uses of City water during periods of adequate water supply and drought

Summary

- This plan meets the goals of:
 - Reducing water use and building savings during drought
 - Equity among customers
 - Minimal financial impacts
 - o Flexibility to adapt



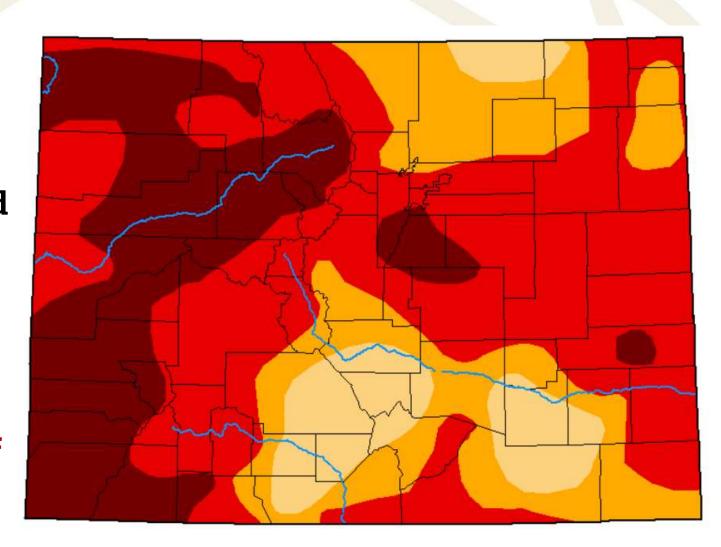




Recommendation

- Timing is critical as we face increasing drought conditions
- Water and Sewer Board approved the drought plan at their January 20, 2021 meeting; and

Water & Sewer Board and staff recommends Council approval of necessary code changes



Questions?



