

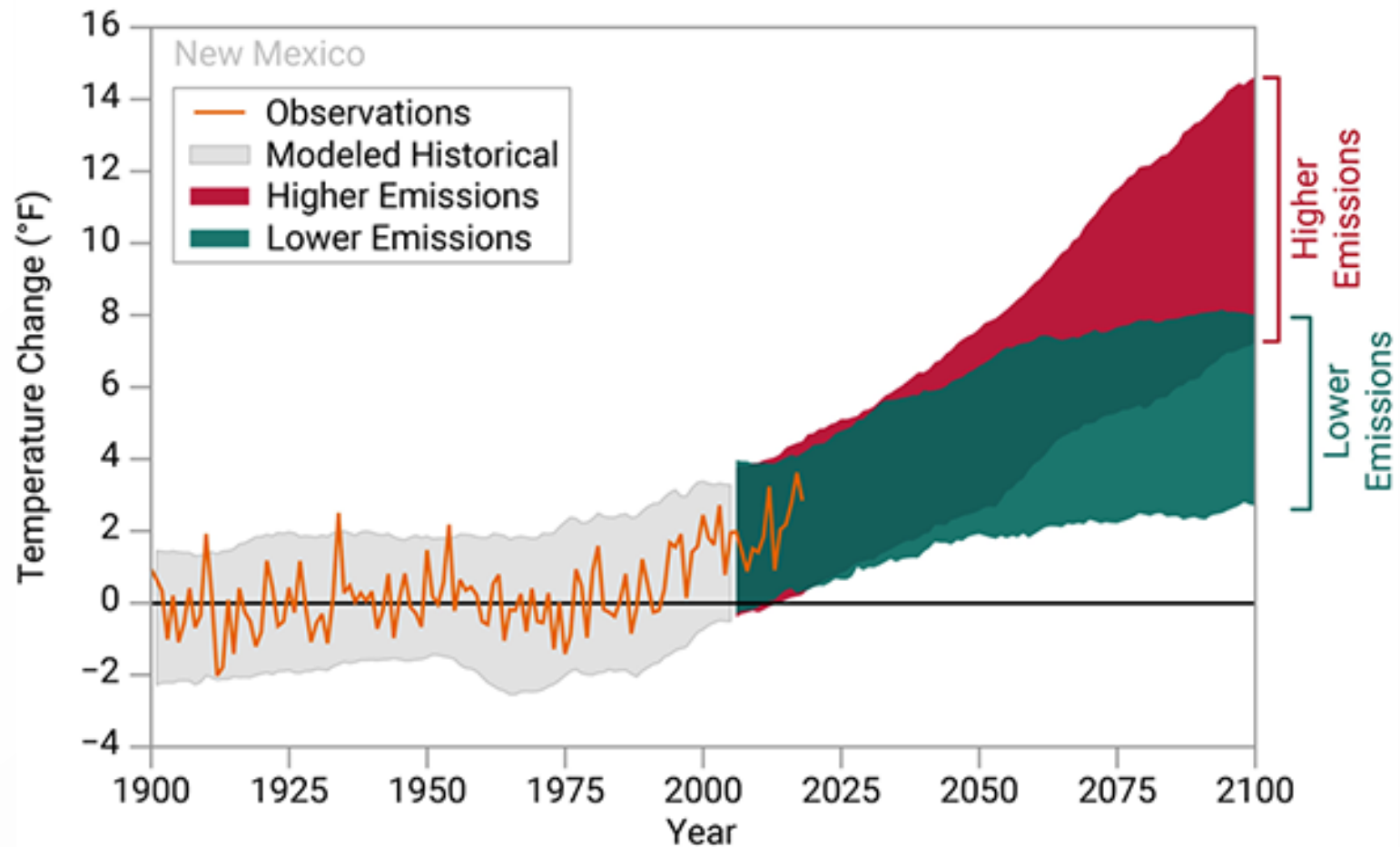
THE 50-YEAR WATER PLANNING EFFORT

Rolf Schmidt-Petersen, Director
New Mexico Interstate Stream Commission

January 14, 2021

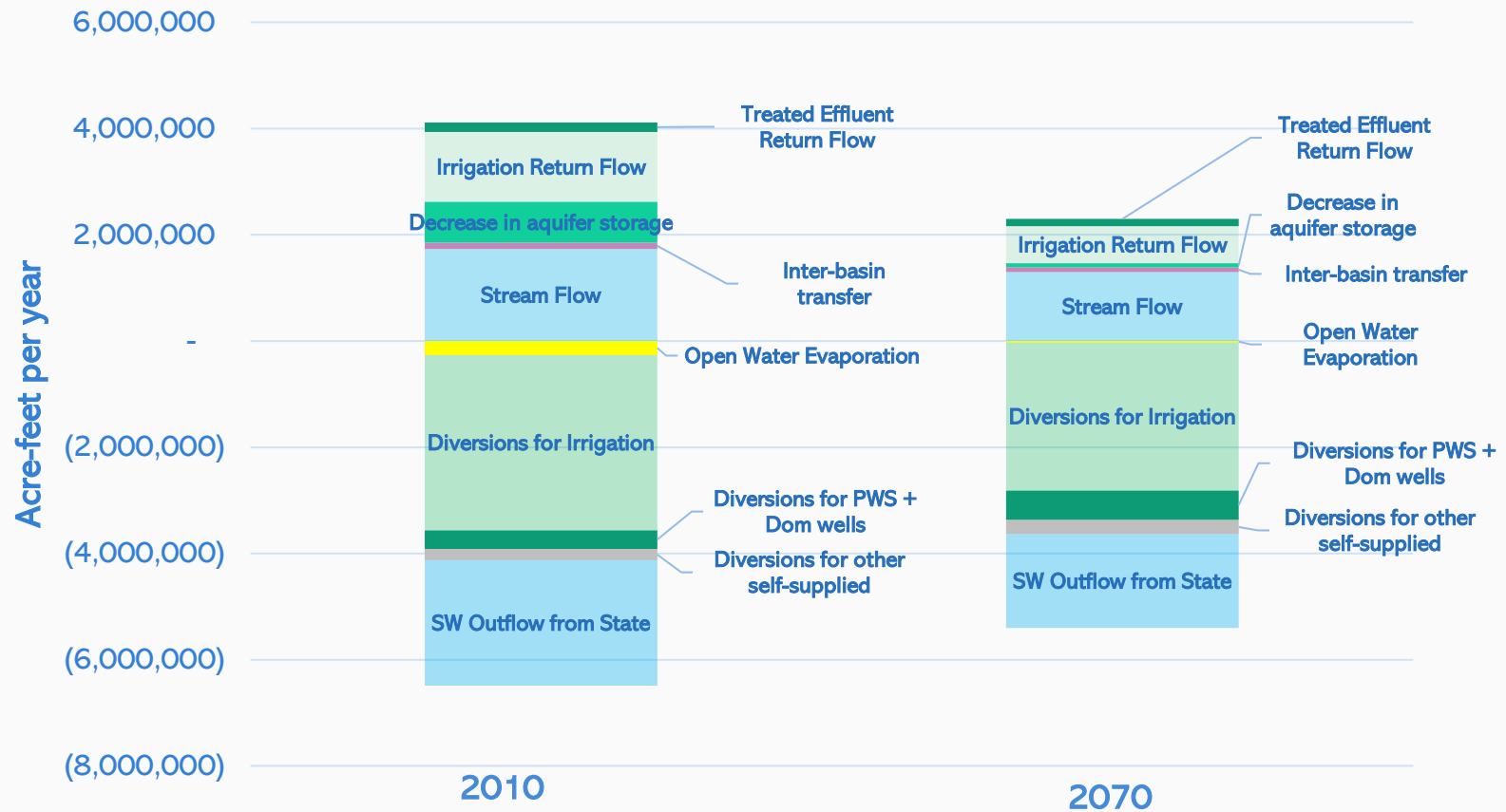


Observed and Projected Temperature Change



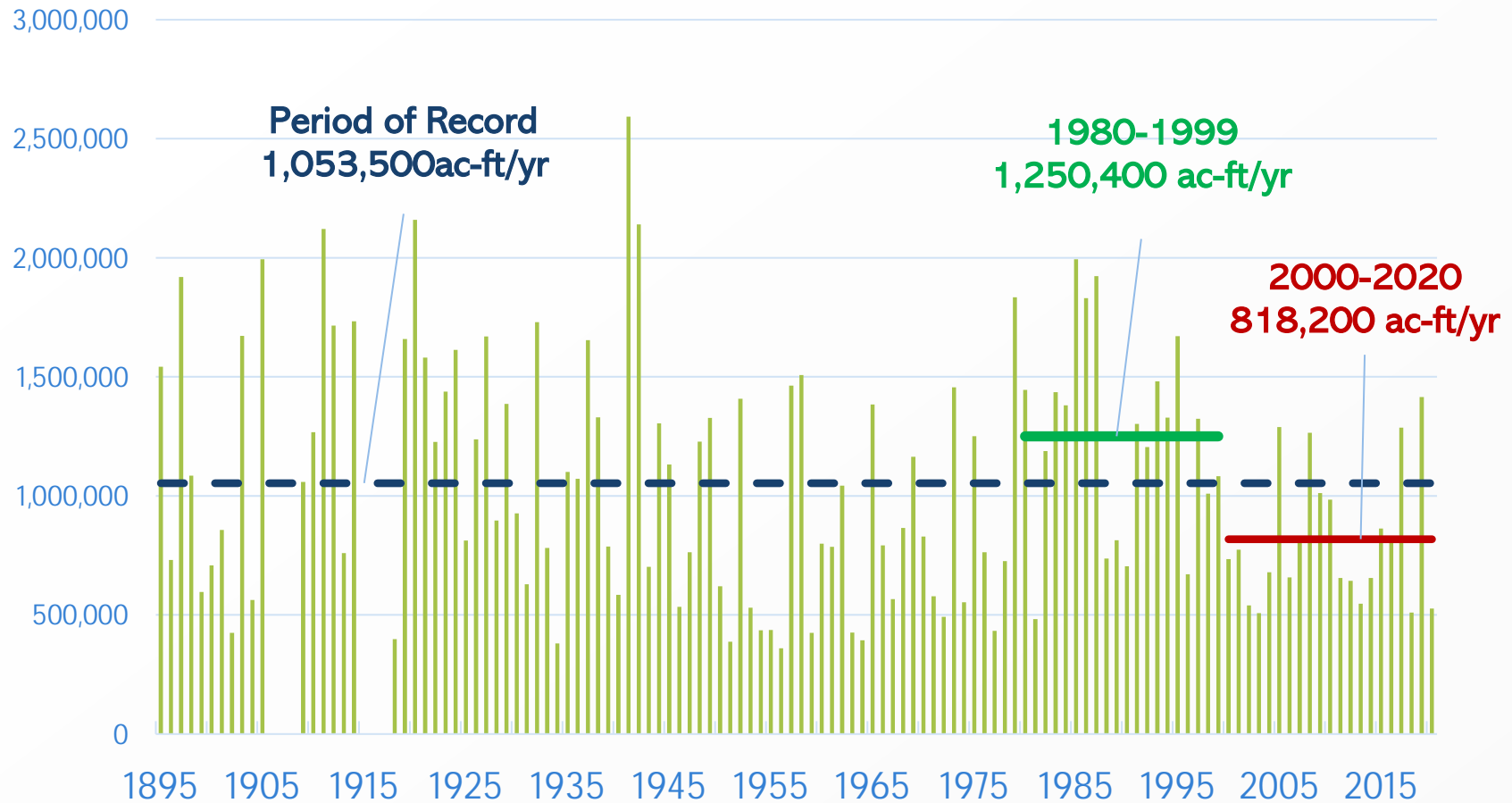
From the Climate Reality Project, Feb 2020

CONCEPTUAL SCHEMATIC: POTENTIAL STATEWIDE WATER BUDGET CHANGES 2010-2070



Assuming an approximate long-term 20-25% reduction in Surface water supplies by 2070 and increases in irrigation and water treatment efficiencies.

ANNUAL FLOW OF RIO GRANDE AT OTOWI GAGE



From USGS in Acre-Feet per Year

N.M. WATER CHALLENGES/PLAN GOALS

- **Drought/Climate Change**
- **Growing Population**
- **Gaps between Supply and Demand**
- **Inadequate Infrastructure**
- **Resource Constraints on Water Administration**
- **Interstate and Intrastate Litigation**

The 50-year Water Plan will:

- Provide an assessment of these challenges in various sectors of the State and the State as a whole
- Bring New Mexico stakeholders to the table to ensure inclusive water planning
- Describe what New Mexicans can do to help
- Seek to reduce risk, improve water resilience, and create a realistic sustainable plan for the next 50 years

WATER DEPENDENT RESOURCE/USE



- WHAT WATER DEPENDENT RESOURCE IS MOST IMPORTANT TO YOU?
- HOW DO YOU MEASURE CHANGE FOR IT?

50-YR PLAN EFFORT

4 PHASES IN 16 MONTHS

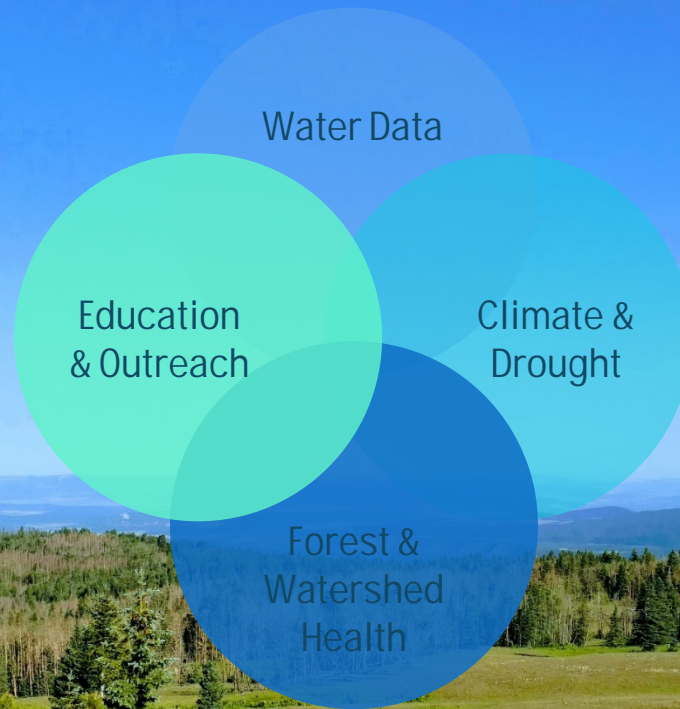
Phase	Date
Phase 1: Planning Approach and Coordination	Project Start – February 28, 2021
Phase 2: Leap Ahead Analysis (assessment of current and future water resource conditions and risk)	March 1, 2021 – June 30, 2021
Phase 3: Outreach, Leap Ahead Refinements, and Creation of Strategies to Achieve Resilience	July 1, 2021 – November 30, 2021
Phase 4: Produce, Review and Finalize Plan	December 1, 2021 – March 30, 2022

Governor Lujan Grisham's Water Resilience Vision

- The 3 Guiding Principles:

- **Stewardship / Smart Water Management** – We must be good stewards of our precious water supply and prepare for the impact of our changing environment
- **Sustainability** – We must manage our water to meet the needs of today while ensuring a reliable supply of clean water for future generations
- **Equity** – We must manage our water in a way that meets our basic notions of fairness with a system that serves all New Mexicans

OSE/ISC ENGAGEMENT/COORDINATION/PRIORITIES



MAJOR ACTIVITIES SUPPORTING DEVELOPMENT OF THE 50-YR WATER PLAN

- **Proactively engage in water related climate work** that is presently in progress and incorporate and synthesize the findings into the Plan
 - Water Resource Research Institute Statewide efforts
 - The New Mexico Water Dialogue
 - Santa Fe Basin Study and City of Santa Fe Long Range Plan
 - Albuquerque 100 Year Plan
 - Pecos Basin Study
 - San Juan Climate Change Assessment
 - Rio Grande Basin Study
 - Regional Water Plans
 - Previous State Water Planning documents

PHASE 1

December 2020 - February 2021

- **Coordination, Engagement, and Scoping:**

- Conduct Launch at the January 13-14, 2020 at the Annual New Mexico Water Dialogue Meeting
- Seek Commission Approval of PAS Agreement with USACE
- Work with NM Bureau of Geology and Mineral Resources to establish and kick-off the Water and Climate Advisory Team
- Seek and Incorporate feedback on proposed approach
- Engage with other State Natural Resource Agencies
- Initiate Tribal Involvement
- Engage with OSE Management and Water Dialogue Executive Committee on plans for outreach and engagement.

INVITED PANEL



PHASE 2

MARCH – JUNE 2021

- **Perform Initial “Leap Ahead” Analysis - Assessment of Selected Current and Future Water Resource Conditions and Risk**
 - Use the experience of selected New Mexico water and climate experts to “leap ahead” 50 years to 2070 and describe how our water resources may have changed
 - NMBGMR and Advisory Team to conduct Leap Ahead Analysis
 - Focus on climate-change-induced impacts on selected water resources
 - Assess impacts in various sectors of the state and the state as a whole
 - Describe how those changes are being addressed today or are not being addressed by state, tribal, federal, and local efforts
 - USACE to provide technical support and updated data
- Complete Preliminary Leap Ahead Analyses
- Provide Presentation(s) on Preliminary Leap Ahead Analyses

PHASE 3

July - November 2021

- Outreach and Creation of Strategies to Achieve Resilience
 - Conduct outreach to stakeholders in various sectors/ areas within the State to adhere to Governor's direction for an inclusive planning process involving all New Mexicans
 - Conduct parallel focused Tribal/Pueblo outreach
 - Do so through Interstate Stream Commission meetings and by teaming with multiple partners including NM WRRI, NM Water Dialogue, NMBGMR, and USACE.
 - Create opportunities for dialogue between the Advisory Board, state and federal agency experts, and local experts to discuss the leap ahead, water resource issues and strategies and ask questions.
- Refine “Leap Ahead” Analyses based in Input Received

PHASE 3 CONTINUED...

- USACE provide technical support and draft report...
 - Advisory Board Continues Refining “Leap Ahead” Analyses and draft Report
- NMBGMR and Advisory Experts Present Resulting Statewide strategies to/at:
 - The Governor
 - Legislative Interim Committee(s)
 - New Mexico Water Resources Research Institute Annual Meeting
 - Water Dialogue and other Stakeholders

PHASE 4

DECEMBER 2021 – MARCH 2022

Produce, Review and Finalize 50-Year Plan

- NMBGMR complete refined leap ahead analyses to incorporate and address assessments/comments of local governments, stakeholders, and tribes and pueblos
- USACE complete its Planning Assistance to the States report
- ISC staff develops draft 50-Year Plan and coordinates technical review
- ISC works with partners to conduct outreach on draft Plan and refine it
- WTB/ISC to review and accept the final plan