



# - DEMAND MANAGEMENT - Planning For Uncertainty

## Eastside Subbasin Committee Survey Results

September 27, 2024

Dave Ceppos  
Process Facilitator



# Survey Review

- **10 responses out of 11 members**
- **14 Questions**
- **Focus on:**
  - **Feasibility / Infeasibility of Demand Management Options**
  - **Information Needs**
  - **Uncertainty Conditions**
  - **Past Impacts and Actions**

# Survey Results

- **Review of Past Workshop Videos (October 2022 / Spring 2024)**
  - **80% (8) - All**
  - **20% (2) – Some**
  
- **General Feasibility of Demand Management Options (desirable / undesirable)**
  - **90% (9) – Yes**
  - **10% (1) - No**

# Survey Results

- **Perspectives on Feasible Options**
  - **Land Repurposing**
  - **Tiered Irrigation Fees**
  - **Reduced Pumping (voluntary and mandatory)**
  - **Enhanced Irrigation Practices**
  - **Enhanced Urban Efficiencies / Conservation**
  - **Rotational Fallowing (voluntary and mandatory)**
  - **Fallow Banking (voluntary)**
  - **Recharge**

# Survey Results

- **Perspectives on Demand Management**
  - **Based on Accurate Water Budget**
  - **Based on Basin/Subbasin Sustainable Yield**
  - **Based on Historic Use**
  - **Based on Grower Needs and Willingness to Adjust to Water Conditions**
  - **Growers Need Maximum Flexibility to address Market Needs**
  - **DM needs to be Basin Scale, not Subbasin Scale**
  - **Need Mixed Portfolio of Voluntary and Mandatory**

# Survey Results

- **Perspectives on Demand Management (cont.)**
  - **GSA be Lead to Access Help From Ag / Conservation Specialists**
  - **Repurposing Should be More than Just Different Crops**
    - **Flood Plain / Flood Risk Reduction**
    - **Water Quality / Recharge / Treatment Wetlands**
  - **Tiered Fees Implemented in Drought Conditions Only**
  - **Earmark Fee Revenues to Subsidize Fallow Bank, Others**
  - **Everything Voluntary Must Include Incentives**

# Survey Results

- **Perspectives on Infeasibility**
  - **Subbasin Scale Discussions / Solutions Not Acceptable**
  - **Tiered Fees**
  - **Risk of Adjudication**
  - **Rain Barrels**

# Survey Results

- **Information Needs to Support DM Discussions Decisions**
  - **Costs and benefit-assessment calculations**
  - **Economic Impacts (personal, industrywide, County and community)**
  - **Water savings and methods to increase/decrease based on water year**
  - **Programs / research the GSA can leverage**
  - **Statewide examples (successes / challenges)**



# Survey Results

- **Uncertainty Conditions - Primary**
  - **Declining Groundwater Levels (6 of 10)**
  - **Recharge Infeasibility (4 of 10)**
  - **Flood Risks (3 of 10)**
  - **Loss of Groundwater Storage (3 of 10)**
  - **Groundwater Quality (3 of 10)**

# Survey Results

- **Uncertainty Conditions – Additional (1 each)**
  - **Extreme Climate Conditions**
  - **Governmental/Regulatory Restrictions / Politics**
  - **Well Instability**
  - **Seawater Intrusion**

# Survey Results

- **Negative Impacts to Groundwater Users in the Subbasin**
  - **Yes – 80% (8)**
  - **No – 20% (2)**
- **Of the 8 Respondents that ID'd Negative Impacts**
  - **Declining GW Levels (5)**
  - **Water Quality (4)**
  - **Loss / Abandonment of Wells / Production (2)**

# Survey Results

- **Conditions That Could Require Water Use Reduction (Urban / Agricultural)**
  - **Declining Groundwater Levels – 7**
  - **Drought - 4**
  - **Water Quality – 3**
  - **Loss of Storage – 3**
  - **Recharge Infeasibility - 3**
  - **Well Instability - 2**
  - **Seawater Intrusion - 1**
  - **Regulatory/Govt Interference – 1**

# Survey Results

- **IF Demand Management were employed, Sequential or All at Once**
  - **Sequential – 100% (10)**

# Survey Results

- **Pumping Adjustments If Operating Well / Water System (drought years since 2000)**
  - **No – 1**
  - **Yes – 5**
  - **NA - 4**

# Survey Results

- **Pumping Adjustments If Operating Well / Water System (drought years since 2000)**
  - **No – 7**
  - **Yes – 4**
  - **NA – 2**
- **Of Respondents that Made Adjustments**
  - **Deeper /new well**
  - **Reduced well production / water budgeting**
  - **Well rehabilitation**
  - **Enhance irrigation practices**

# Survey Results

- **Application of Water Use Efficiency Measures**
  - Yes – 80% (8)
  - NA – 20% (2)
- **Of Respondents Answering “Yes”**
  - **Urban / Municipal – 2**
    - Low Flow Appliances
    - Landscape Changes
  - **Agriculture – 6**
    - Irrigation Technologies (drip, computer and data support)
    - Irrigation Efficiency Audits
    - Crop rotations / Modifications



# Survey Results

- **Other Water Use Efficiency Measures You Would Like To Deploy**
  - **Conservation - 1**
  - **Surface Water Supply - 1**
  - **Reduce Irrigation - 1**
  - **Not Applicable – 3**
  - **No – 2**
  - **Yes - 1**