JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

JVWCD Board of Trustees

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Chair

Karen D. Lang
Vice Chair

Gregory R. Christensen

A. Reed Gibby

Sherrie L. Ohrn

Dawn R. Ramsey

Lyle C. Summers
Conservation Committee Chair

John H. Taylor
Finance Committee Chair

Barbara L. Townsend

JVWCD Mission and Strategy to Fulfill Mission

Our Mission:

Delivering quality water and services every day

JVWCD's Strategy to Fulfill its Mission

- Protect what we have
- Use it wisely
- Provide for the future

ATTRIBUTES FOR AN EFFECTIVELY MANAGED DISTRICT

JORDAN VALLEY WATER CONSERVANCY DISTRICT

FEBRUARY 2021 PERFORMANCE INDICATORS

1. Product Quality

- Drinking water compliance rate
- Perceived/aesthetic water quality

2. Water Resource Adequacy

- Source water quality management
- Short-term water supply adequacy (annual)
- Short-term water source capacity
- Long-term water supply adequacy (annual)
- Water demand management (annual)

3. Customer Satisfaction

- Customer Response System

4. Infrastructure Stability

- Pipeline breaks (12-month running total)
- On-time maintenance (% of time)

5. Long-term Financial Viability

- Repair and Replacement funding from rate revenue (annual)
- Debt service coverage (annual)
- Long-term debt to equity (annual)

6. Employee & Leadership Development

- Employee Training Hours (12-month rolling average)

7. Operational Resiliency

- Workforce resiliency (reportable injuries & illnesses)
- Employee safety & business risk mgmt (vehicle & equip. incidents)
- Emergency Response Preparedness
- Power resiliency

8. Operational Optimization

- Water Quality Improvements beyond regulatory standards (12-month rolling avg)
- Non-revenue water management
- Efficient use of electricity

9. Community Sustainability

- Centralized conjunctive management of groundwater and surface water

10. Stakeholder Understanding & Support

- Media/press coverage tone
- Member Agency Survey
- Employee Survey
- Retail Customer Survey

Details for each reporting item can be seen on the following pages. The background photo was taken by Steve Schmidt.

Annual Member Agency Meeting Agenda

April 21, 2021

1. Welcome and introductions (Bart Forsyth)
2. JVWCD Board of Trustees (Bart Forsyth)
3. JVWCD mission and strategy to fulfill its mission (Bart Forsyth)
   a. Protect what we have (Shazelle Terry)
      i. Water supply outlook for FY 2021/2022
      ii. Maintaining high quality water
   b. Use it wisely (Matt Olsen)
      i. Report on water conservation progress
      ii. Water efficiency standards, water conservation programs and future direction
   c. Provide for the future (Alan Packard)
      i. Long-term water supply planning and 10-year Capital Projects Plan
      ii. JVWCD Drought contingency plan
4. JVWCD new logo (Bart Forsyth)
5. Financial plan, water rates and methodology (Dave Martin)
   a. New wholesale bill
6. Legislative issues and Prep60 report (Bart Forsyth)
7. Member Agency Outreach Plan (Bart Forsyth)
8. Questions, and discussions (Bart Forsyth)

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

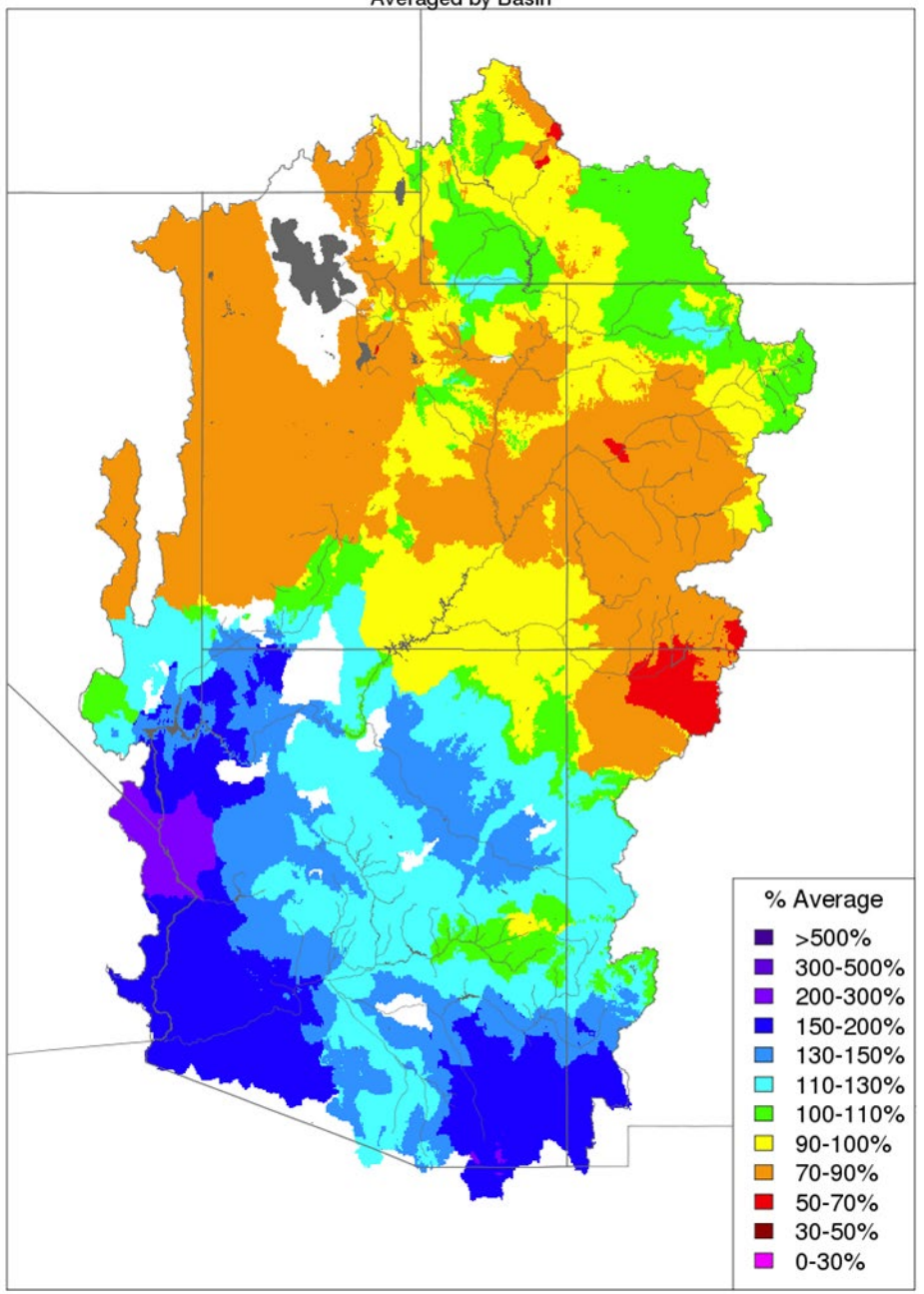
WATER SUPPLY OUTLOOK

JVWCD Member Agency Annual Meeting

April 21 , 2021

Water Year Precipitation, October 2019 - March 2020

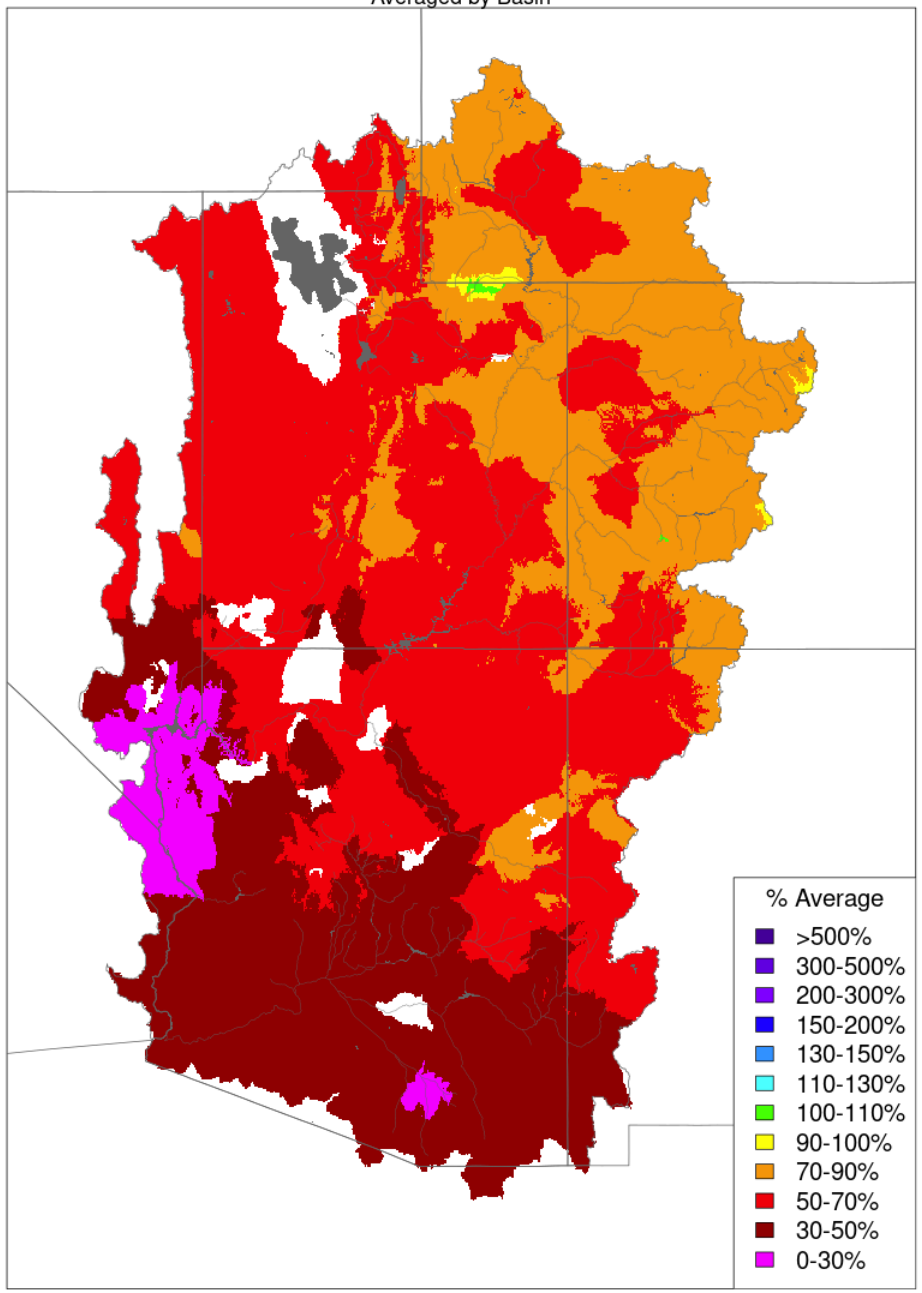
Averaged by Basin



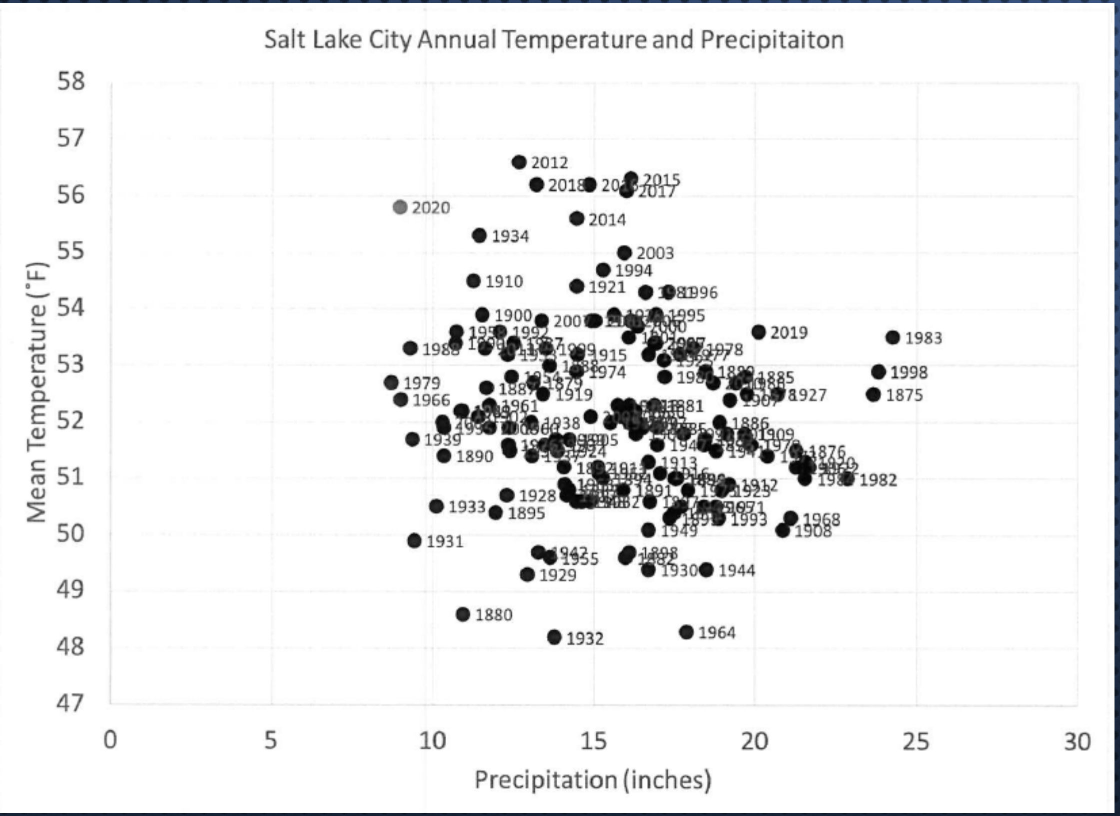
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

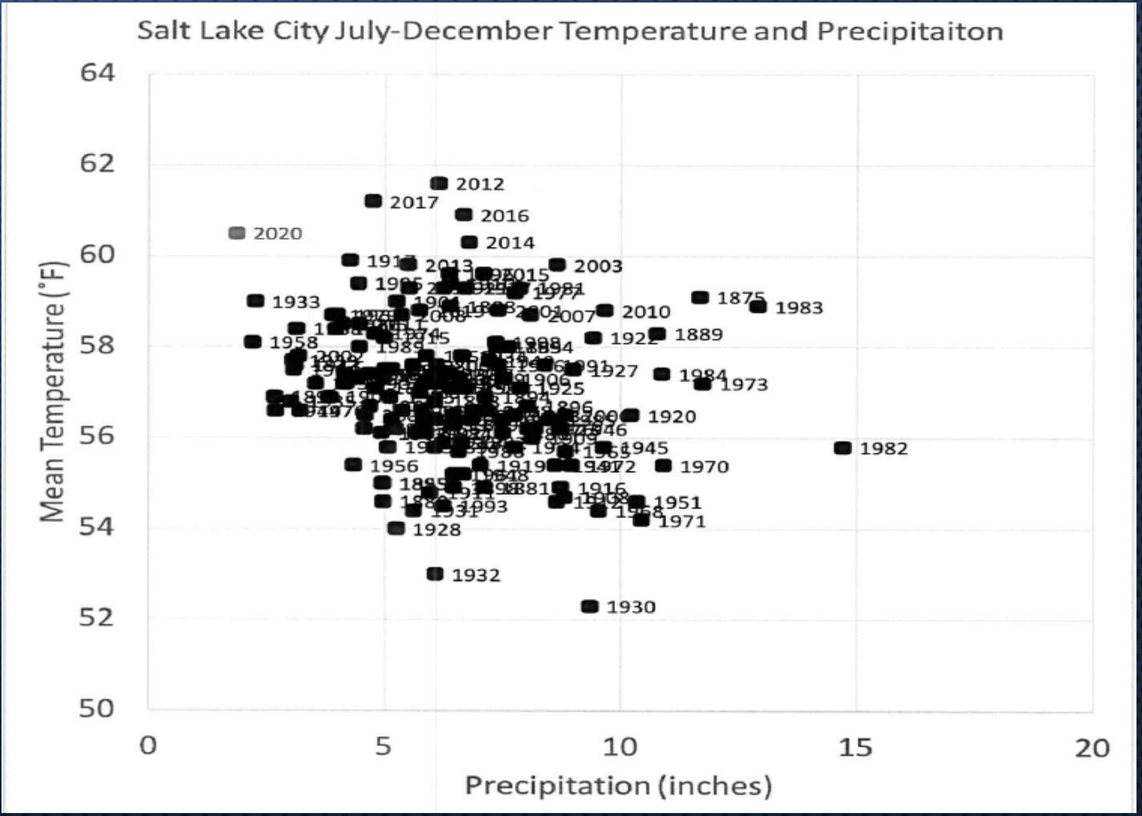
Water Year Precipitation, October 2020 - March 2021

Averaged by Basin



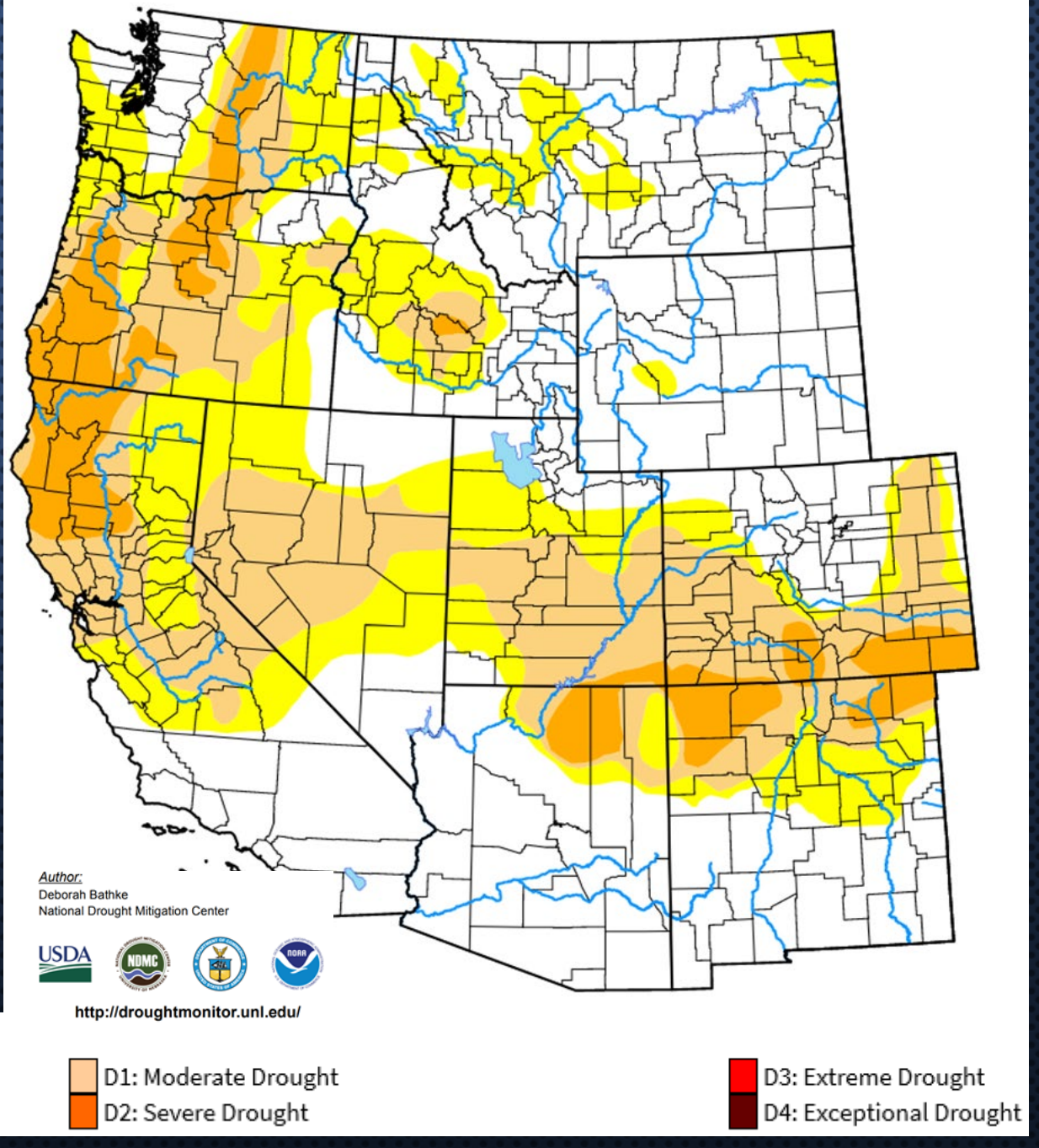
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov


Salt Lake City Annual Temperature and Precipitaiton
Mean Temperature (˚F)
58
57
56
55
54
53
52
51
50
49
48
47
0
5
10
15
20
25
30
Precipitation (inches)

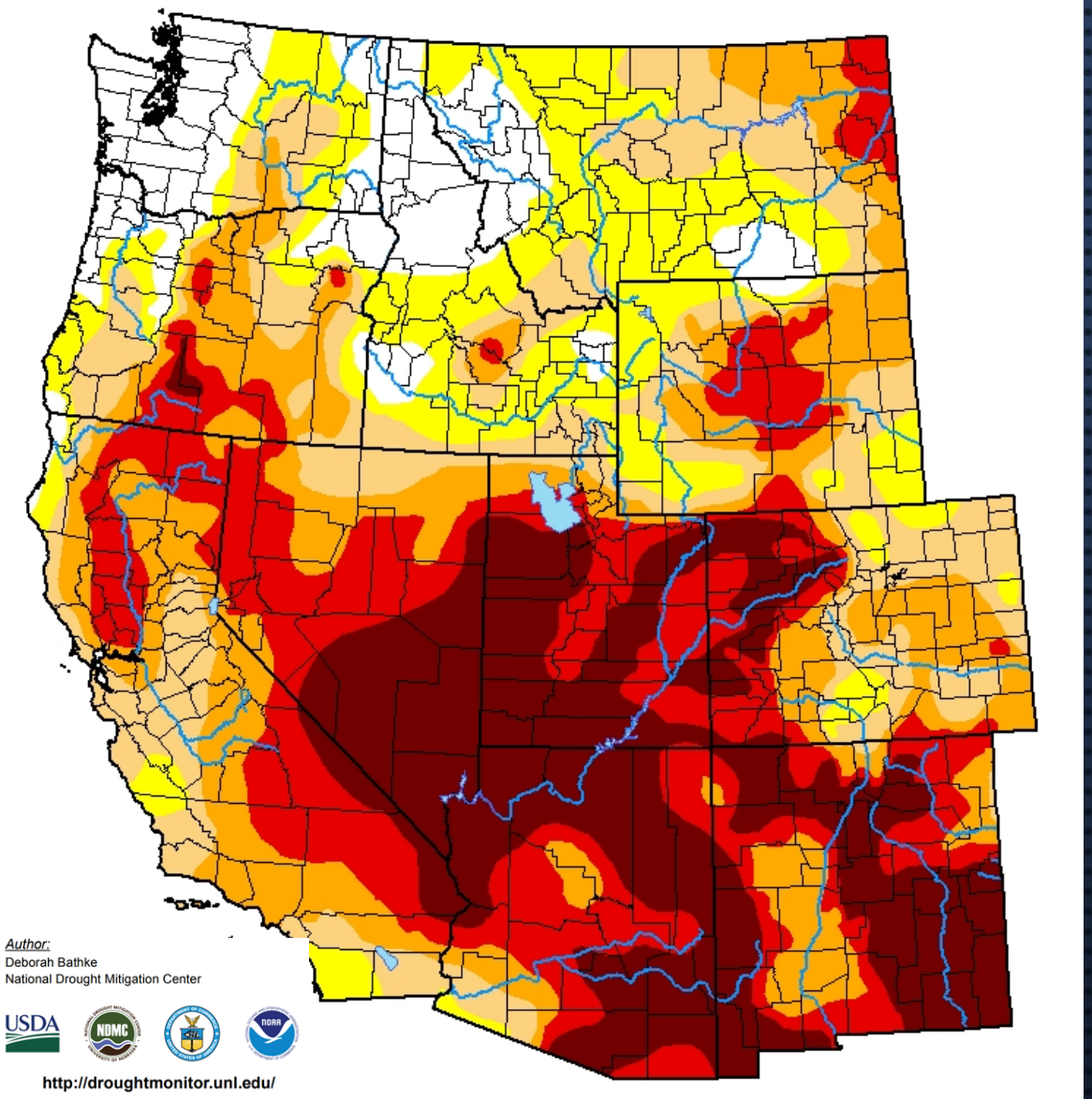

Salt Lake City July-December Temperature and Precipitaiton
Mean Temperature (˚F)
64
62
60
58
56
54
52
50
0
5
10
15
20
Precipitation (inches)

U.S. DROUGHT MONITOR

U.S. Drought Monitor – West April 14, 2020

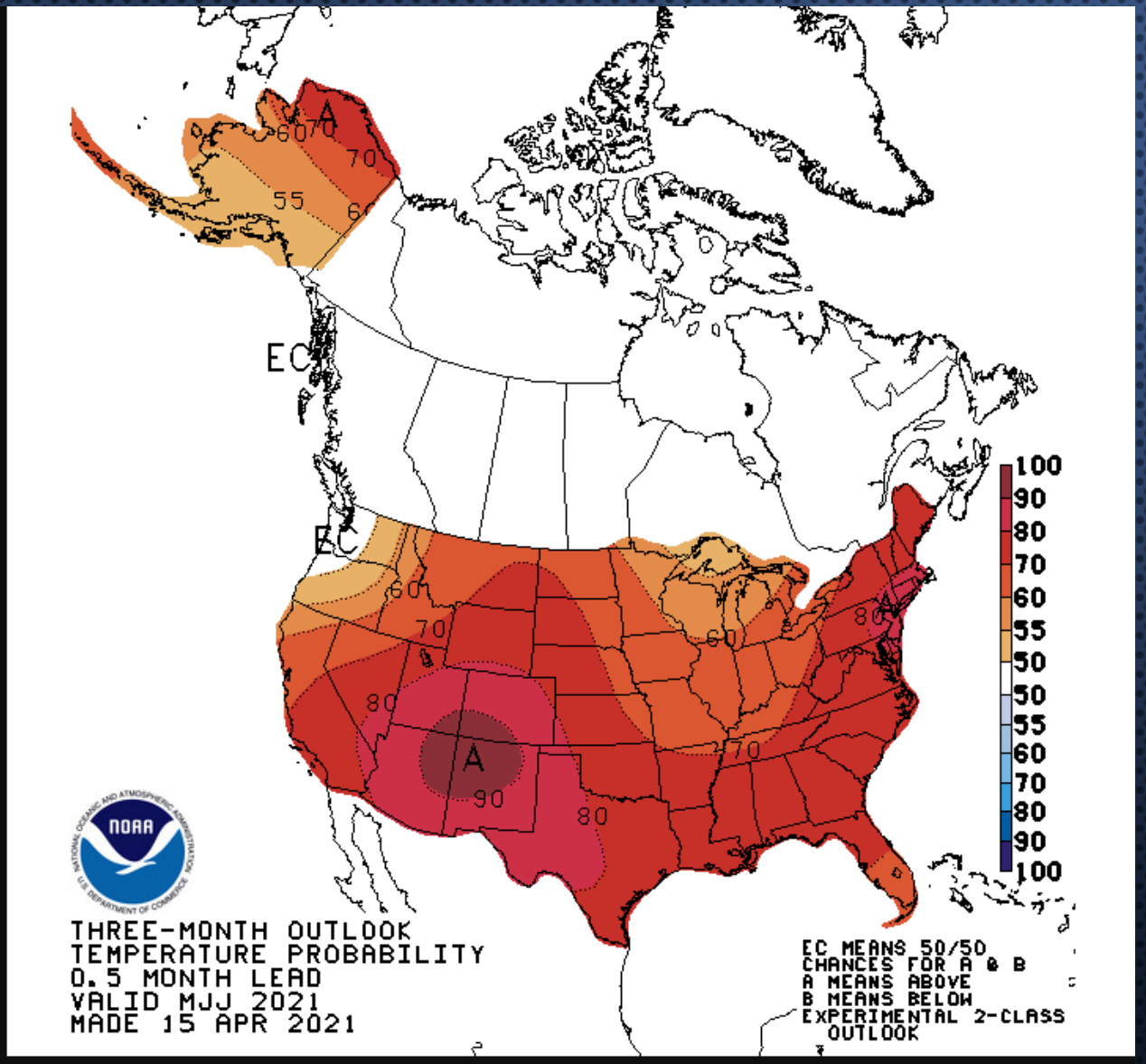


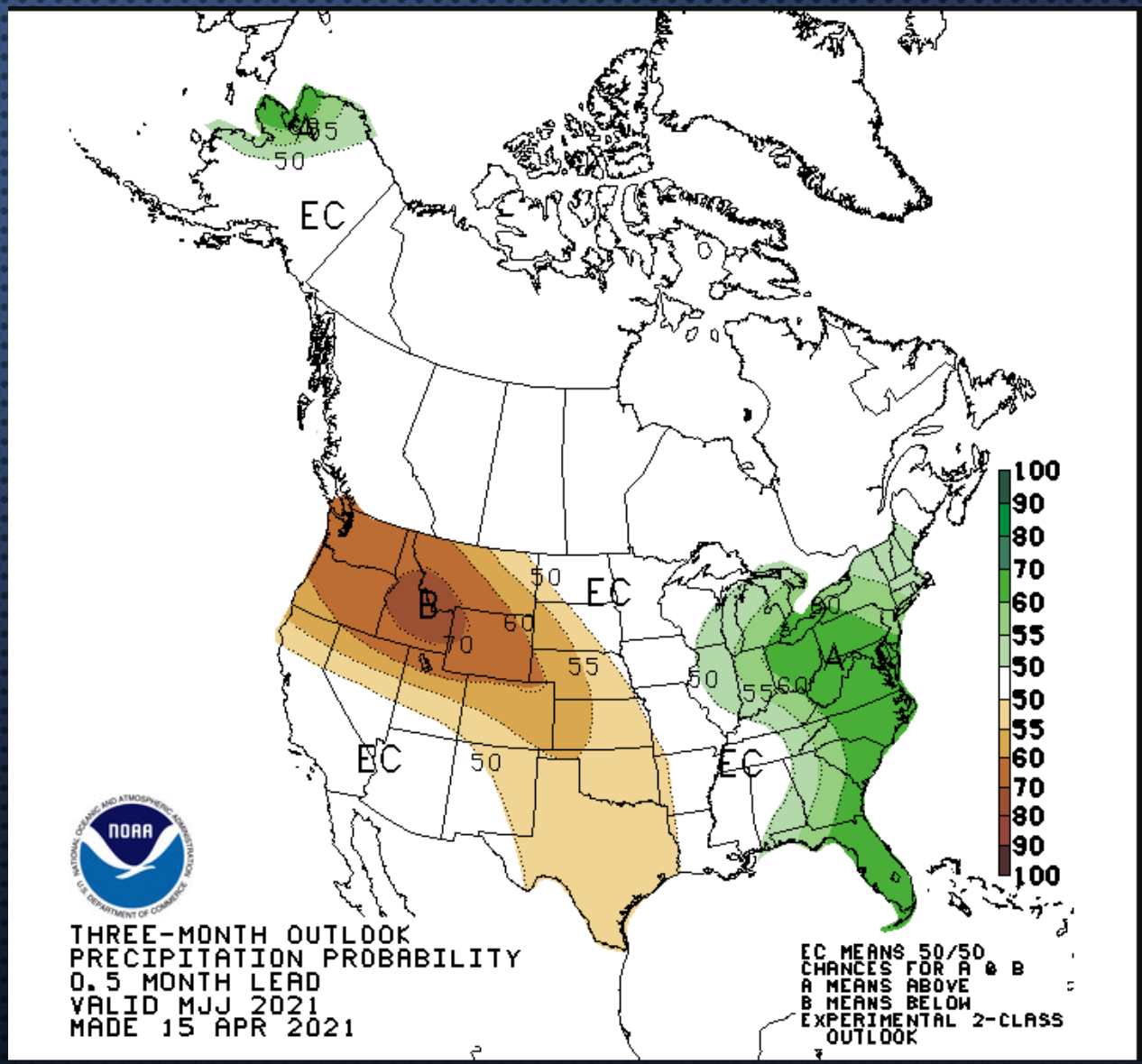
U.S. Drought Monitor – West April 14, 2021



Drought Intensities

- None: No Drought
- D0: Abnormally Dry
- D1: Moderate Drought
- D2: Severe Drought
- D3: Extreme Drought
- D4: Exceptional Drought


THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID MJJ 2021
MADE 15 APR 2021
EC MEANS 50/50
CHANCES FOR A & B
A MEANS ABOVE
B MEANS BELOW
EXPERIMENTAL 2-CLASS
OUTLOOK
EC
A
B
100
90
80
70
60
55
50

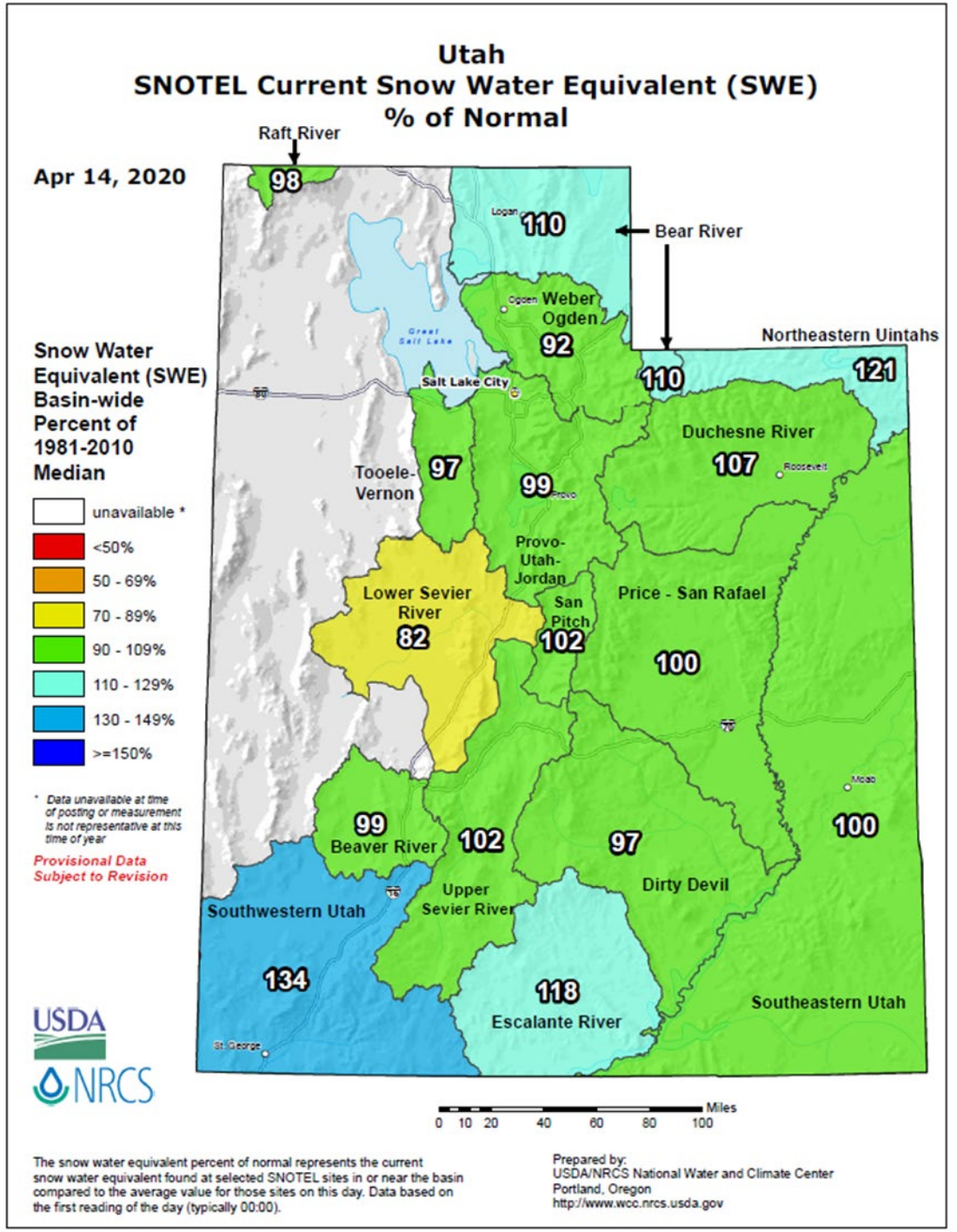

THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID MJJ 2021
MADE 15 APR 2021
EC MEANS 50/50
CHANCES FOR A & B
A MEANS ABOVE
B MEANS BELOW
EXPERIMENTAL 2-CLASS
OUTLOOK
EC
A
B
100
90
80
70
60
55
50

SNOWPACK CONDITIONS

Utah SNOTEL

Snow Water Equivalent (SWE)

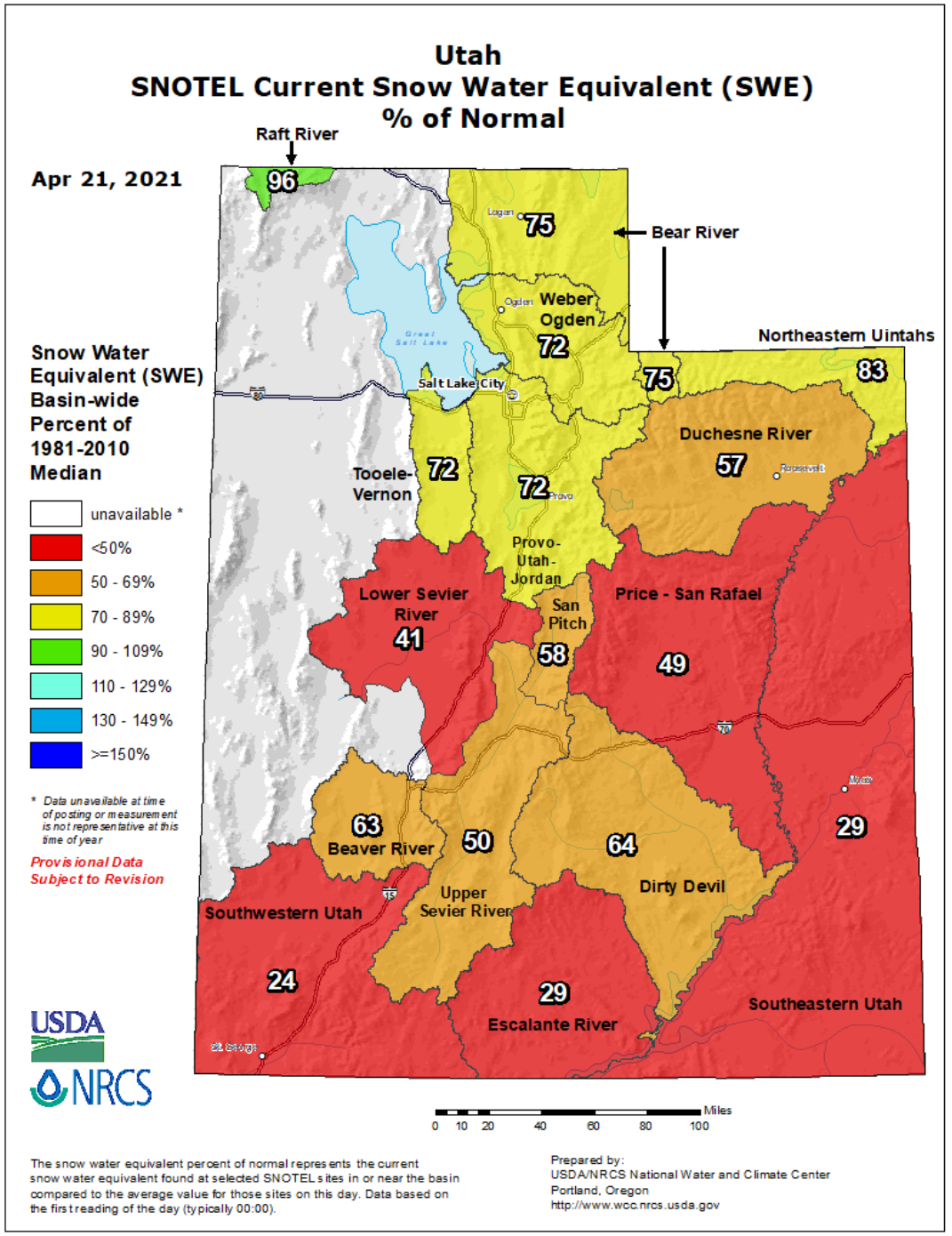
April 17, 2020

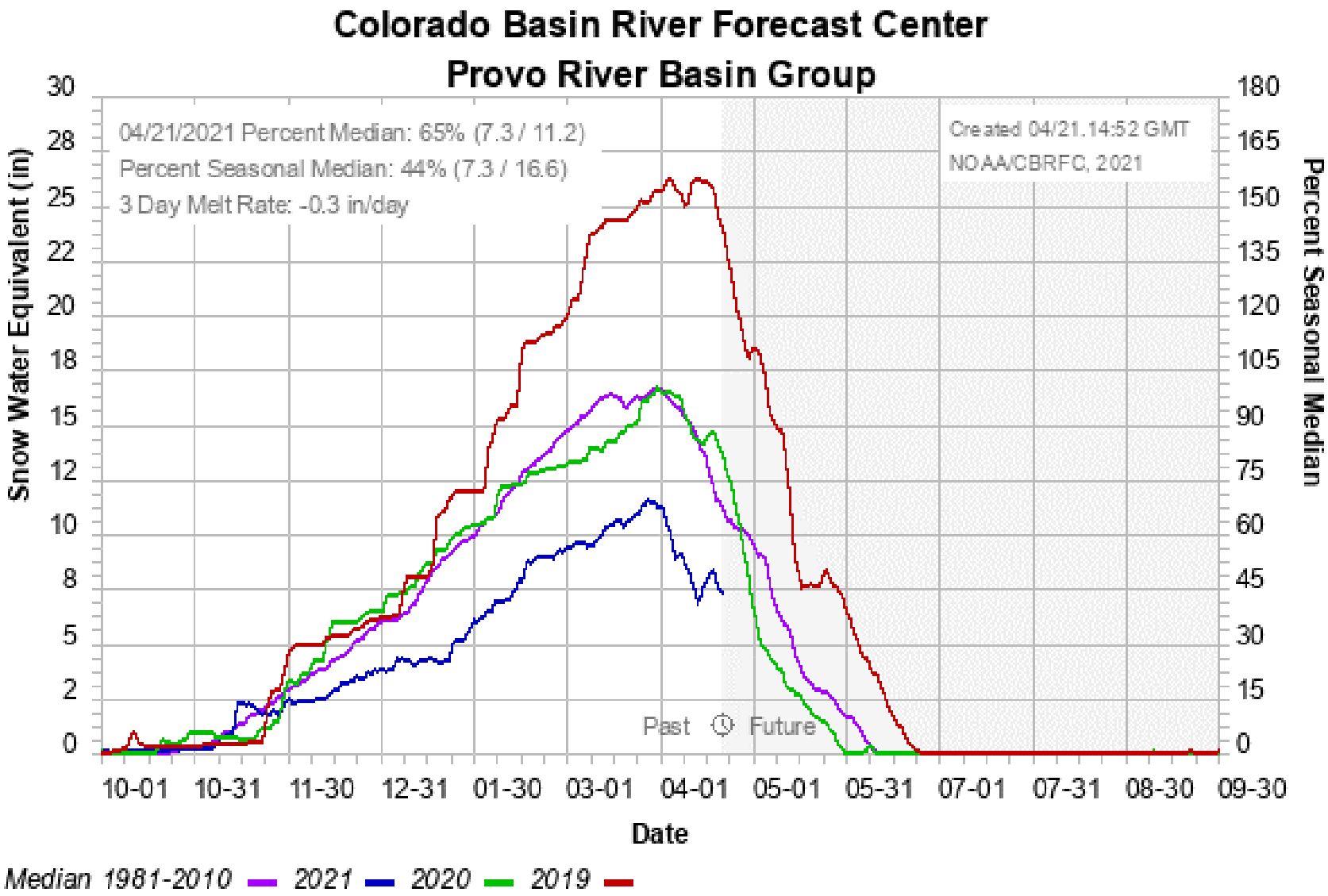


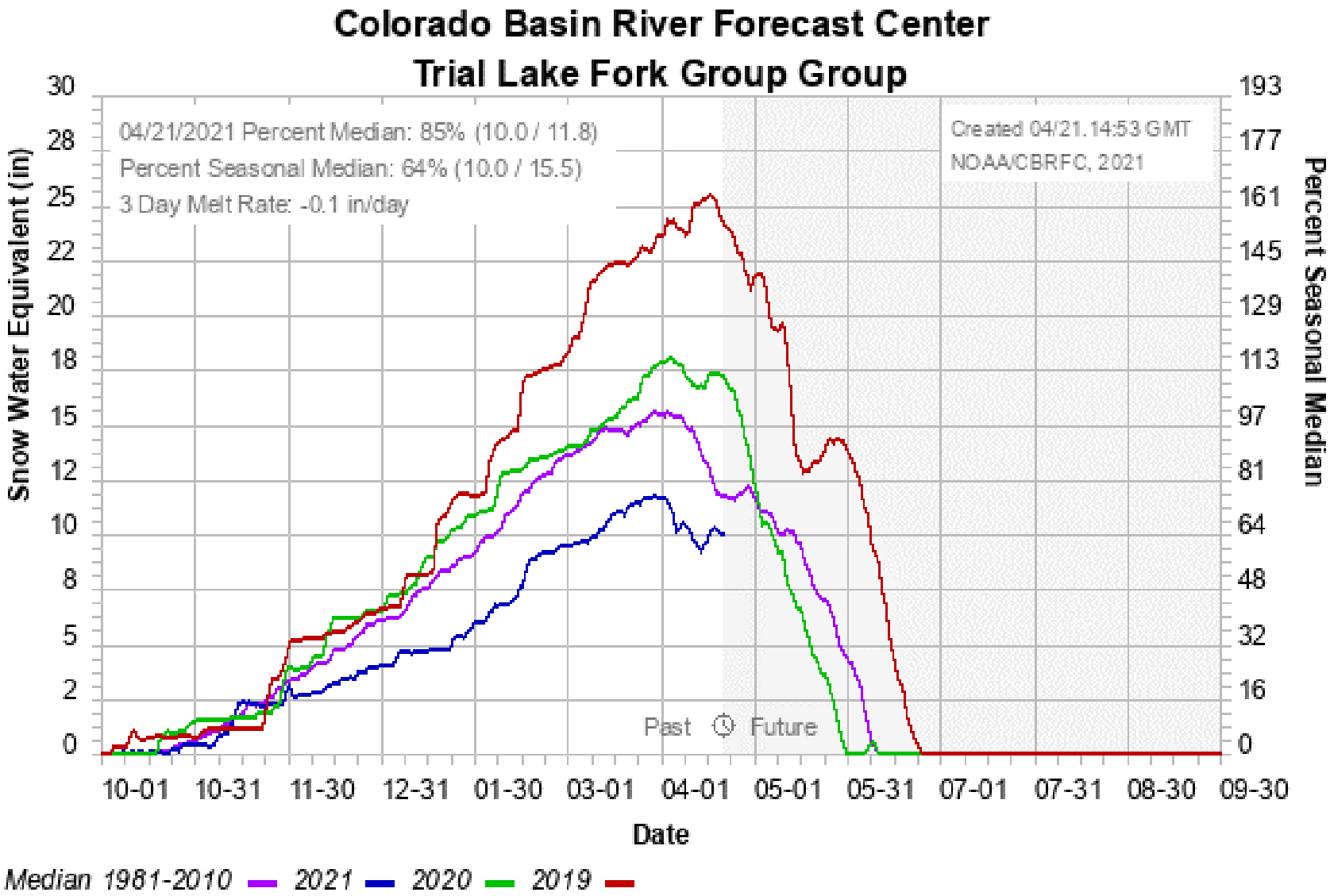
Utah SNOTEL

Snow Water Equivalent (SWE)

April 21, 2021




Colorado Basin River Forecast Center
Provo River Basin Group
04/21/2021 Percent Median: 65% (7.3 / 11.2)
Percent Seasonal Median: 44% (7.3 / 16.6)
3 Day Melt Rate: -0.3 in/day
Created 04/21.14:52 GMT
NOAA/CBRFC, 2021
Past
Future
Snow Water Equivalent (in)
Percent Seasonal Median
Date
30
28
25
22
20
18
15
12
10
8
5
2
0
180
165
150
135
120
105
90
75
60
45
30
15
0
10-01
10-31
11-30
12-31
01-30
03-01
04-01
05-01
05-31
07-01
07-31
08-30
09-30
Median 1981-2010
2021
2020
2019


Colorado Basin River Forecast Center
Trial Lake Fork Group Group
04/21/2021 Percent Median: 85% (10.0 / 11.8)
Percent Seasonal Median: 64% (10.0 / 15.5)
3 Day Melt Rate: -0.1 in/day
Created 04/21.14:53 GMT
NOAA/CBRFC, 2021
Past
Future
Snow Water Equivalent (in)
Percent Seasonal Median
Date
30
28
25
22
20
18
15
12
10
8
5
2
0
193
177
161
145
129
113
97
81
64
48
32
16
0
10-01
10-31
11-30
12-31
01-30
03-01
04-01
05-01
05-31
07-01
07-31
08-30
09-30
Median 1981-2010
2021
2020
2019

TRIAL LAKE SNOTEL SITE

Last Year – March 20, 2020

21.9 inches Snow Water Equivalent

111% of Median

This Year – March 31, 2031

17.3 inches Snow Water Equivalent

81% of Median

TRIAL LAKE CAMPGROUND

LAST YEAR

March 20, 2020

THIS YEAR

March 31, 2021

RESTROOM AT BALD PASS

Last Year

March 20, 2020

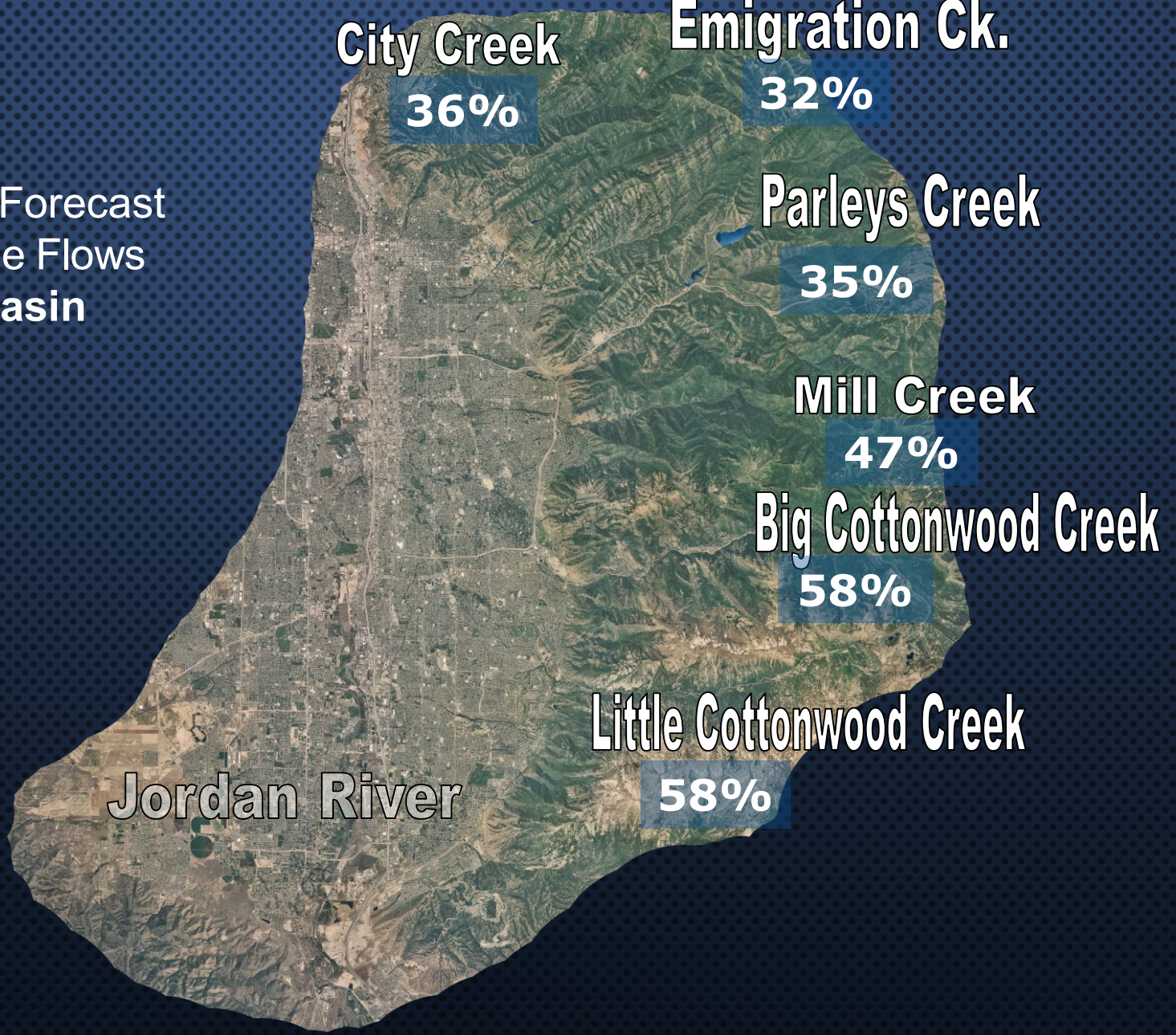
This Year

March 31, 2021

RUNOFF CONDITIONS

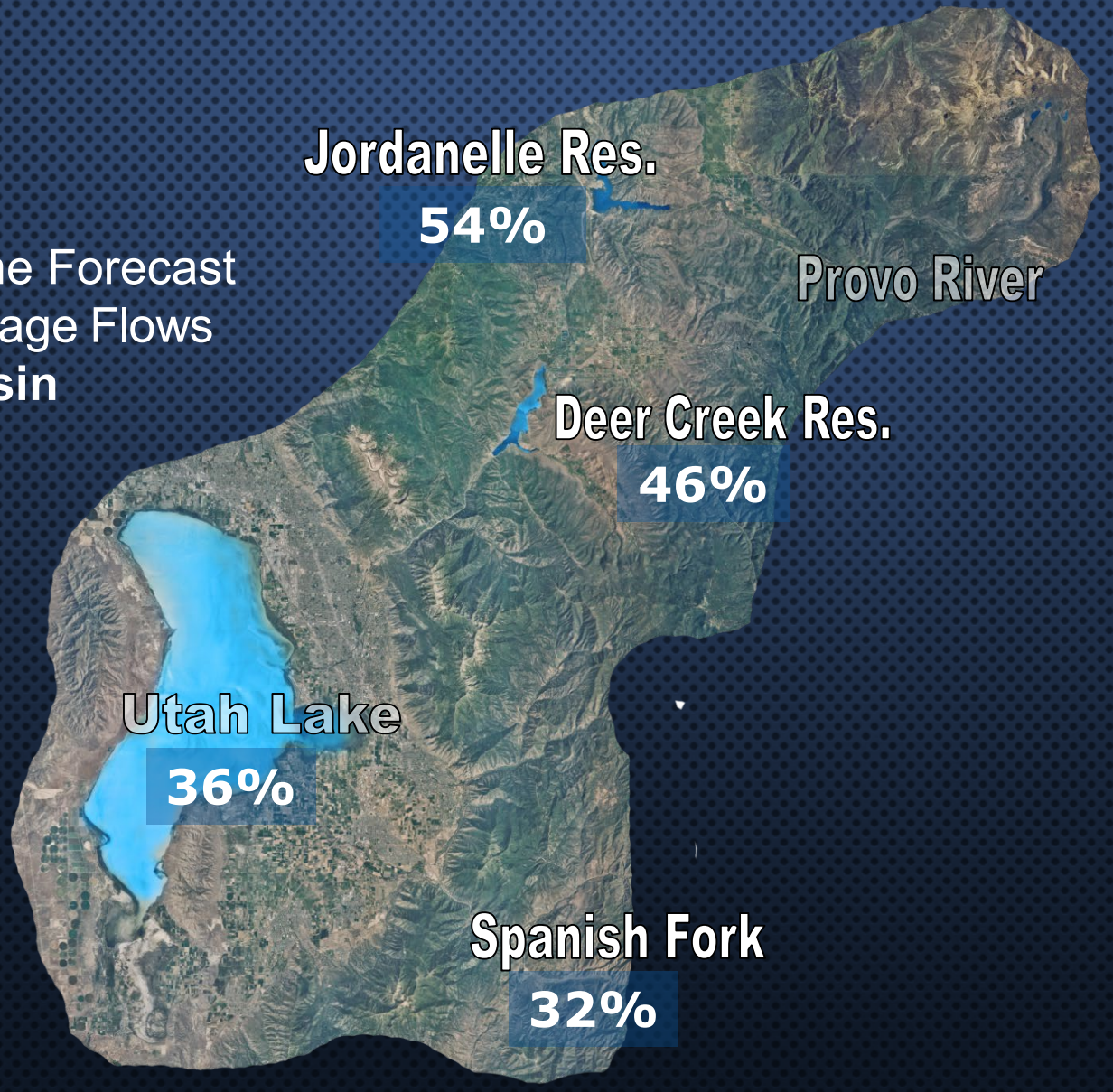
Forecasted Utah Spring Snowmelt Runoff Volume

April 1, 2021
April-Through-July Volume Forecast
Percent of 30-Year Average Flows
Six Creeks River Basin



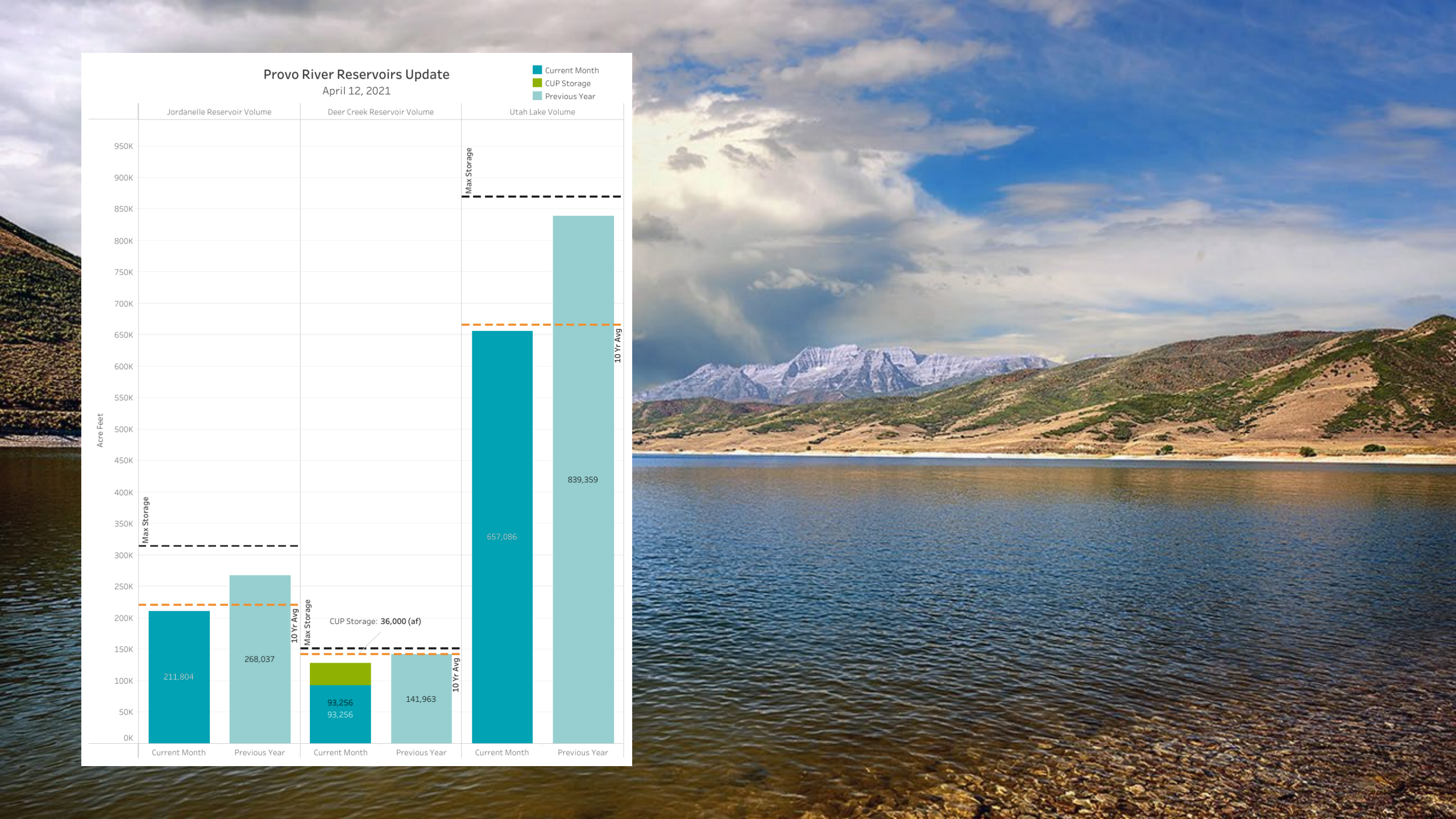
Forecasted Utah Spring Snowmelt Runoff Volume

April 1, 2021
April-Through-July Volume Forecast
Percent of 30-Year Average Flows
Provo River Basin

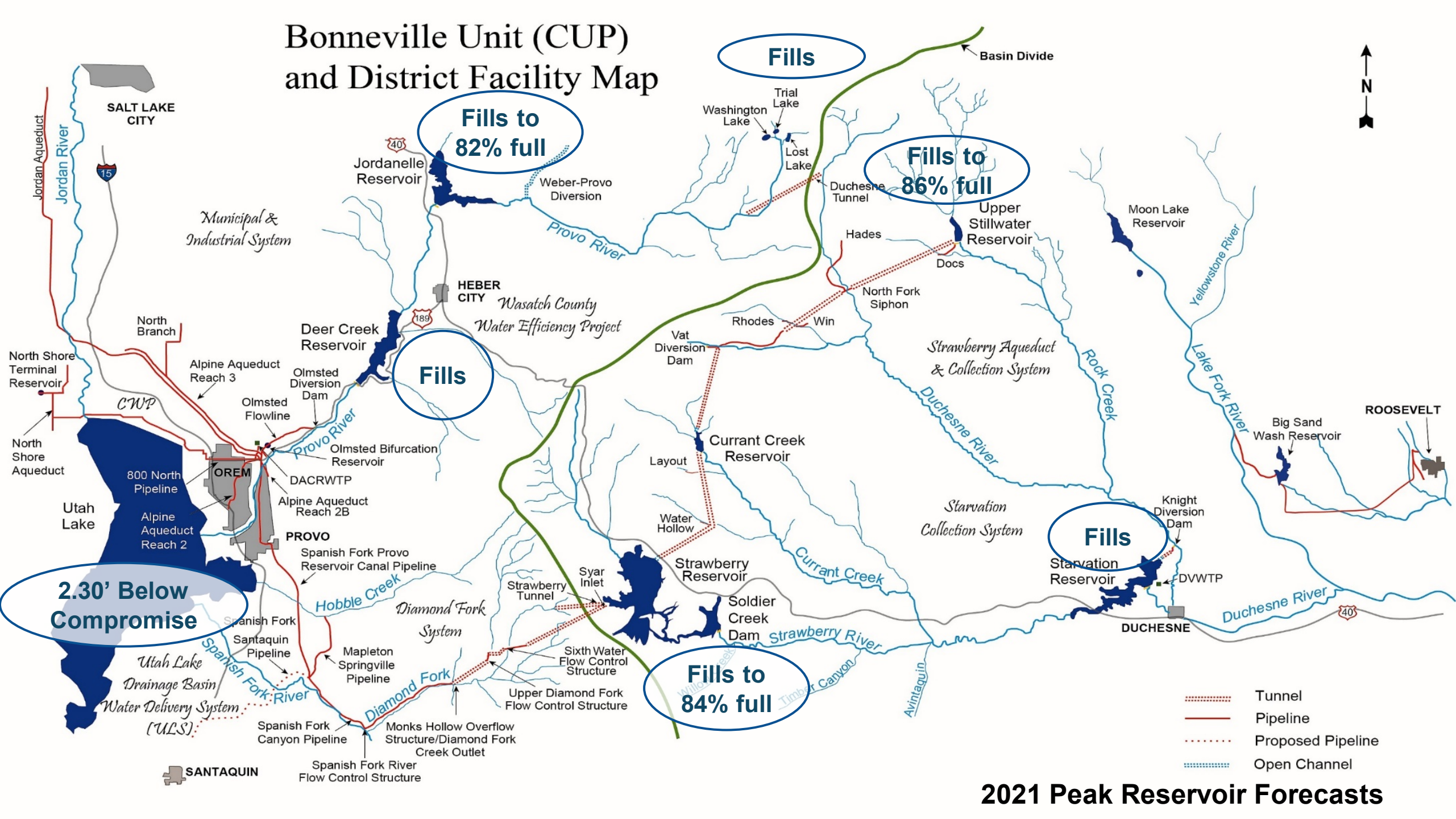


RESERVOIR STORAGE

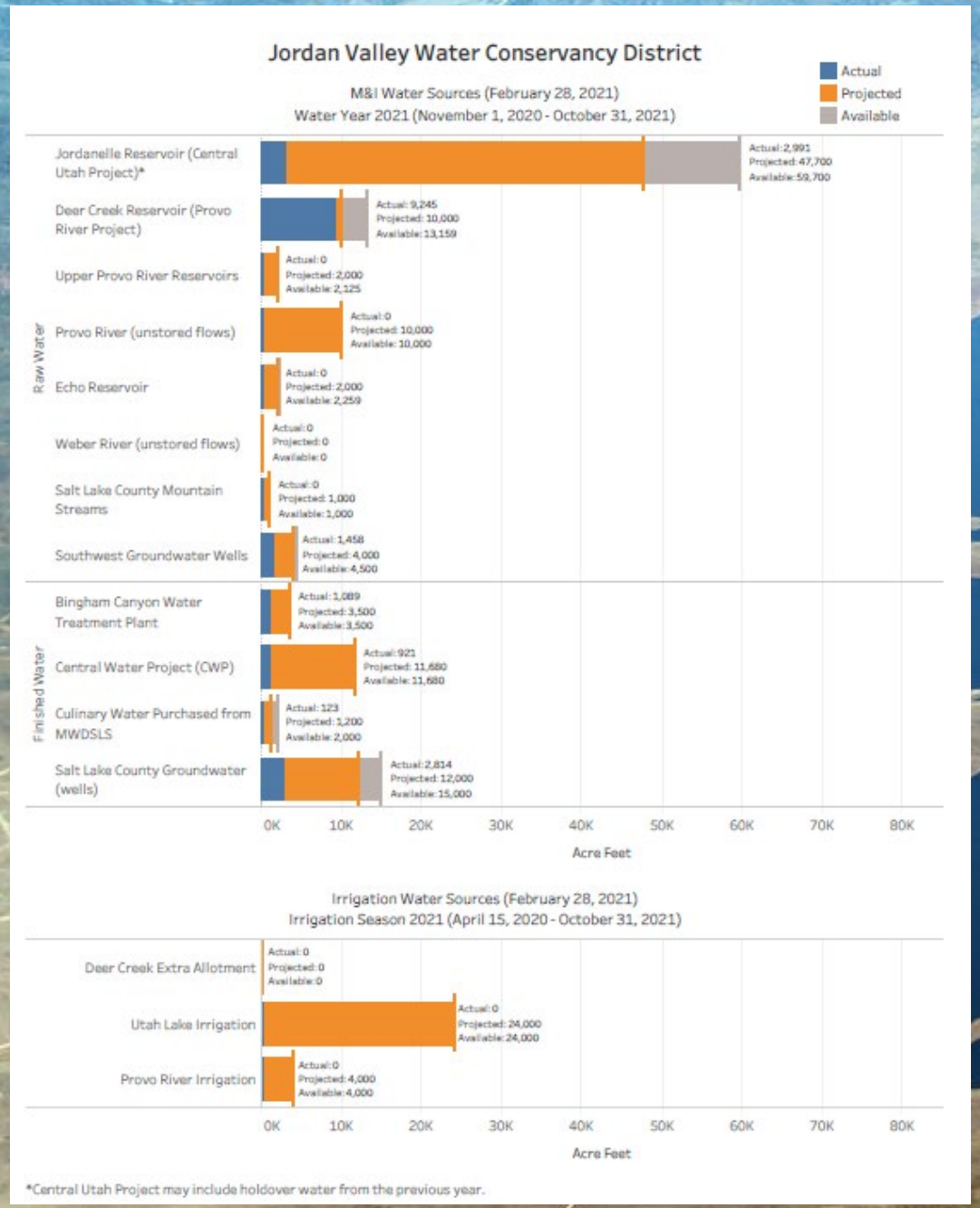
JORDANELLE RESERVOIR


Provo River Reservoirs Update
April 12, 2021
Current Month
CUP Storage
Previous Year
Jordanelle Reservoir Volume
Deer Creek Reservoir Volume
Utah Lake Volume
Acre Feet
950K
900K
850K
800K
750K
700K
650K
600K
550K
500K
450K
400K
350K
300K
250K
200K
150K
100K
50K
0K
Max Storage
10 Yr Avg
CUP Storage: 36,000 (af)
211,804
268,037
93,256
93,256
141,963
657,086
839,359
Current Month
Previous Year
Current Month
Previous Year
Current Month
Previous Year

Bonneville Unit (CUP) and District Facility Map



2021 Peak Reservoir Forecasts


Jordan Valley Water Conservancy District
M&I Water Sources (February 28, 2021)
Water Year 2021 (November 1, 2020 - October 31, 2021)
Actual
Projected
Available
Raw Water
Jordanelle Reservoir (Central Utah Project)*
Actual: 2,991
Projected: 47,700
Available: 59,700
Deer Creek Reservoir (Provo River Project)
Actual: 9,245
Projected: 10,000
Available: 13,159
Upper Provo River Reservoirs
Actual: 0
Projected: 2,000
Available: 2,125
Provo River (unstored flows)
Actual: 0
Projected: 10,000
Available: 10,000
Echo Reservoir
Actual: 0
Projected: 2,000
Available: 2,259
Weber River (unstored flows)
Actual: 0
Projected: 0
Available: 0
Salt Lake County Mountain Streams
Actual: 0
Projected: 1,000
Available: 1,000
Southwest Groundwater Wells
Actual: 1,458
Projected: 4,000
Available: 4,500
Finished Water
Bingham Canyon Water Treatment Plant
Actual: 1,089
Projected: 3,500
Available: 3,500
Central Water Project (CWP)
Actual: 921
Projected: 11,680
Available: 11,680
Culinary Water Purchased from MWDSLS
Actual: 123
Projected: 1,200
Available: 2,000
Salt Lake County Groundwater (wells)
Actual: 2,814
Projected: 12,000
Available: 15,000
0K
10K
20K
30K
40K
50K
60K
70K
80K
Acre Feet
Irrigation Water Sources (February 28, 2021)
Irrigation Season 2021 (April 15, 2020 - October 31, 2021)
Deer Creek Extra Allotment
Actual: 0
Projected: 0
Available: 0
Utah Lake Irrigation
Actual: 0
Projected: 24,000
Available: 24,000
Provo River Irrigation
Actual: 0
Projected: 4,000
Available: 4,000
0K
10K
20K
30K
40K
50K
60K
70K
80K
Acre Feet
*Central Utah Project may include holdover water from the previous year.

QUESTIONS

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Maintaining & Improving High Quality Water

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Source Water Protection

Water Treatment Optimization

High Quality Deliveries

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

ATTRIBUTES FOR AN EFFECTIVELY MANAGED DISTRICT

JORDAN VALLEY WATER CONSERVANCY DISTRICT

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- Non-revenue water management
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9. Community Sustainability

- Centralized conjunctive management of groundwater and surface water

10. Stakeholder Understanding & Support

- Media/press coverage tone
- Member Agency Survey
- Employee Survey
- Retail Customer Survey

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Source Water Protection

Challenges:

- Multiple Uses and Stakeholder Demands
- No Land Jurisdiction
- Population Growth Pressures
- Climate Changes

Current Efforts:

- Drinking Water Source Protection Plans
- Provo River Watershed Council Funding and Participation
- Partnering with the USFS under Shared Stewardship to prevent fires in critical areas

Future Priorities:

- Continue work with Stakeholders
- Work with Counties and Developers

Optimized Water Treatment

Challenges:

- Source Water Degradation
- Aging Facilities
- Tighter Regulations
- Increasing Demands/Customer Expectations

Current Efforts:

- Pilot Plant Studies
- Operator Training
- Data Analysis

Future Priorities:

- Chemical/Filter Optimization
- Plant expansion and Major Capital Improvements at the JVWTP
- Improved Solids Handling at JVWTP
- Increase WQ Goal Attainment Rate

WATER QUALITY TRACKING	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
Overall Met Goal %	83.53%	84.49%	82.00%	81.66%	83.15%	83.46%	88.97%	88.56%	88.50%	88.64%	90.06%	89.66%
JVWTP												
Turbidity less than 0.08 NTU (hourly max)	99.82%	99.82%	99.84%	99.70%	96.69%	95.85%	95.82%	95.81%	95.69%	95.77%	96.07%	96.46%
Turbidity less than 0.08 NTU (hourly max)	95.55%	95.55%	95.52%	94.78%	89.09%	87.37%	87.94%	88.12%	88.34%	88.43%	88.77%	89.22%
Maximum total particle counts < 50/mL (hourly max)	87.62%	87.62%	87.90%	87.86%	84.13%	45.31%	84.71%	85.83%	85.77%	84.85%	84.42%	89.62%
Effluent chlorine residual between 0.50 and 1.00 mg/L (hourly max/min)	95.02%	95.02%	96.25%	96.59%	96.19%	95.97%	94.98%	94.87%	91.42%	90.26%	90.07%	87.11%
Effluent fluoride concentration between 0.65 and 0.80 mg/L (hourly min/max)	45.97%	45.97%	43.43%	43.41%	36.93%	95.97%	87.71%	87.71%	93.91%	83.88%	84.02%	84.00%
Effluent TOC < 2.0 mg/L (weekly) use data from LIMS	72.73%	72.73%	75.00%	70.27%	58.33%	20.26%	50.00%	44.44%	37.84%	33.33%	78.95%	45.45%
Langlier greater than -0.10 and less than 0.50	80.83%	80.83%	78.55%	75.17%	69.43%	66.92%	60.65%	55.29%	49.79%	47.53%	49.24%	54.41%
Geosmin concentration < 5 ng/L or >70% removal	100.00%	100.00%	100.00%	100.00%	94.44%	94.74%	89.47%	89.47%	90.00%	89.47%	89.47%	90.91%
SERWTP												
Turbidity less than 0.08 NTU (hourly max)	94.98%	95.48%	95.62%	95.62%	96.68%	96.68%	96.40%	96.86%	96.73%	99.53%	99.53%	99.43%
Total particle count < 20/mL (hourly max)	90.62%	91.08%	84.21%	84.21%	75.76%	82.11%	76.34%	67.41%	58.97%	56.90%	79.24%	50.38%
Turbidity less than 0.08 NTU (hourly max)	89.14%	90.11%	90.93%	90.93%	91.62%	91.73%	91.12%	91.13%	91.44%	91.99%	92.46%	92.01%
Maximum total particle counts < 30/mL (hourly max)	78.87%	80.82%	82.30%	82.30%	84.37%	84.30%	85.21%	85.60%	83.76%	84.80%	86.85%	85.99%
Effluent chlorine residual less than .90 mg/L (hourly max)	99.61%	99.65%	99.69%	99.69%	98.69%	98.52%	98.51%	98.56%	98.57%	98.63%	98.70%	98.44%
CT ratio greater than 1.25 but less 5.0 (hourly AVG)	99.85%	99.87%	99.90%	99.90%	99.68%	99.96%	99.96%	99.96%	99.89%	99.58%	99.58%	99.50%
Effluent fluoride concentration between 0.65 and 0.85 mg/L (hourly min/max)	70.02%	73.10%	73.10%	73.10%	73.80%	73.80%	75.60%	73.20%	78.10%	79.50%	81.90%	81.50%
Effluent TOC < 2.0 mg/L (weekly) use lab data from LIMS	53.66%	48.78%	45.24%	44.68%	46.94%	46.94%	36.73%	30.61%	28.00%	28.00%	29.79%	32.56%
Langlier greater than -1.5 and less than 0.40 (Daily Average)	75.09%	75.81%	76.55%	76.55%	79.29%	78.70%	80.06%	88.06%	88.40%	90.88%	92.42%	91.64%
Geosmin concentration < 5 ng/L or >70% removal	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SWGWTP												
Turbidity less than or equal to 0.035 NTU (hourly max)	89.25%	89.25%	90.84%	90.84%	91.85%	91.66%	99.76%	99.66%	99.54%	99.58%	99.64%	99.66%
TDS > 205 ppm and < 262 ppm (Daily Minimum / Maximum)	96.59%	95.83%	95.45%	95.45%	95.77%	95.67%	97.44%	96.15%	96.15%	96.02%	96.11%	96.17%
By-Pass Turbidity < 0.065 NTU (hourly max)	98.57%	98.57%	98.57%	98.57%	96.86%	96.51%	99.17%	99.26%	99.23%	99.26%	99.34%	99.40%
Effluent chlorine residual between 0.65 and 0.85 mg/L (hourly min/max)	87.86%	87.86%	96.66%	96.66%	96.86%	95.61%	99.17%	99.26%	99.26%	77.40%	79.42%	82.15%
Effluent fluoride concentration between 0.65 and 0.80 mg/L (hourly min/max)	90.53%	90.53%	94.16%	94.16%	95.79%	96.33%	95.03%	93.79%	94.93%	94.78%	95.11%	95.32%
Langlier greater than .05 and less than 0.25 (Daily Average)	91.97%	91.29%	87.88%	87.88%	87.86%	87.40%	87.18%	87.61%	89.13%	90.04%	90.66%	91.64%
DISTRIBUTION SYSTEM												
All chlorine residual grab samples > 0.05 mg/L (grab samples only)	99.93%	99.93%	99.93%	99.93%	99.93%	99.87%	99.80%	99.80%	99.80%	99.73%	99.80%	99.80%
All HPC samples with a count < 150 mpn/100ml (confirmed samples)	100.00%	100.00%	100.00%	100.00%	100.00%	50.00%	66.67%	66.67%	66.67%	75.00%	100.00%	100.00%
Chlorine residual at 2100 S between 0.3 and 0.7 mg/L (min/max hourly)	73.59%	91.83%	92.33%	92.33%	91.51%	91.48%	92.87%	92.87%	91.66%	91.69%	97.51%	95.41%
70% Feed location fluoride concentration 0.60 and 1.0 mg/L	74.52%	75.62%	78.08%	78.63%	81.92%	81.64%	83.01%	80.55%	82.74%	83.84%	86.58%	86.30%
Non-feed fluoride concentration monitoring sites between 0.60 and 0.90 mg/L	69.04%	69.04%	69.04%	69.04%	69.04%	69.04%	69.04%	69.04%	69.04%	70.41%	69.04%	70.41%
Geosmin concentration < 5 ng/L or >70% removal	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.24%	95.24%	95.24%	95.24%	95.45%	95.83%

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Laboratory Services

High Quality Water Deliveries

Challenges:

- Increasing Demands
- Blending Various Sources
- Increasing Regulations
- Increasing Customer Expectations

Current Efforts:

- System-Wide Water Quality Study
- Better Long-Term Data Analysis
- Hydraulic/WQ Modeling
- Preparing for the LCRR

Future Priorities:

- Metals Precipitation
- Consistent Aesthetics

Jordan Valley Laboratory Services

Analyses:

- Total Coliform and E.coli (Presence/Absence and Quantitative)
- Heterotrophic Plate Count
- Water Quality Parameters (Chlorine Residual, pH, Turbidity, and Conductivity
- Alkalinity
- Hardness (Total and Calcium)

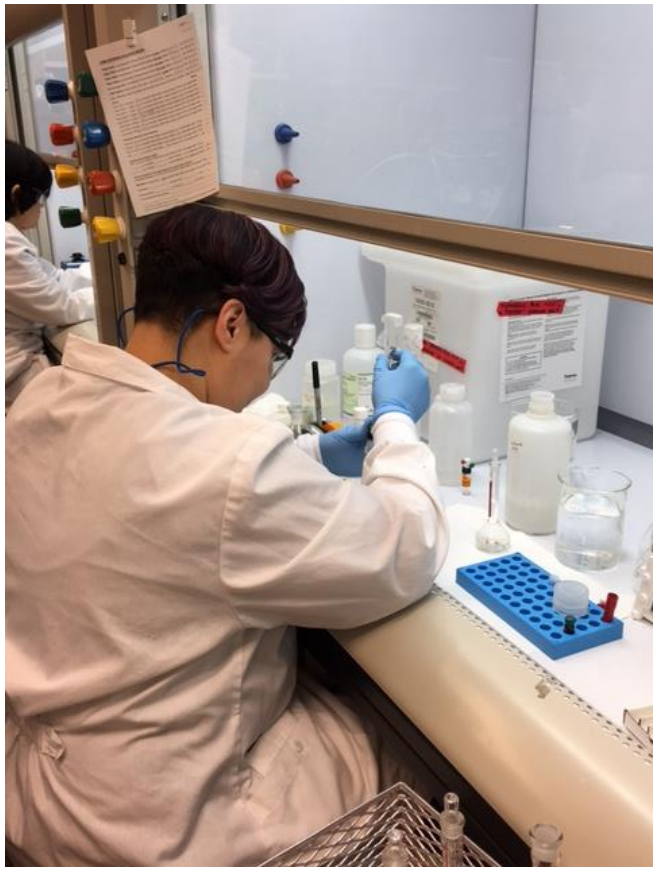
Jordan Valley Laboratory Services

Analyses Continued:

- Disinfection By-Products (Trihalomethanes & Haloacetic Acids
- Anions (Fluoride, Nitrate, Nitrite, Chloride, Bromide, Phosphate, and Sulphate)
- Organic Carbon (Total and Dissolved)
- Common Metals (Arsenic, Barium, Cadmium, Copper, Iron, Lead, Manganese, Mercury, Selenium, Silica, Uranium, Zinc, etc.)

Calculating Adjusted Laboratory pricing

- Use the most recent three years data to calculate what percentage of the total water delivered by each member agency is purchased from JVWCD.
- The remaining percentage is multiplied by the base price of the analysis to get the adjusted price.



- Member Agency 1 purchases 100% of the total water they deliver from JVWCD they pay no additional cost for analyses.
- Member Agency 2 purchases 40% of the total water they deliver from JVWCD they pay 60% of the base price for analyses.

JORDAN VALLEY WATER CONSERVANCY DISTRICT

				(1) Presence/Absence Bacteriological		(2) Quantitative Bacteriological		(3) Heterotrophic Plate Count (HPC)		(4) Trihalomethanes (THMs)	
Current Year Base Price →				$21.0		$31		$42		$138	
Member Agency	% District Water (2017-19 average)	% District Water (2018-20 average)	Currently Using Lab Services	Previous Year Adjusted	Current Year Adjusted	Previous Year Adjusted	Current Year Adjusted	Previous Year Adjusted	Current Year Adjusted	Previous Year Adjusted	Current Year Adjusted
Bluffdale	100%	100%	Y	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
City of South Jordan	100%	100%	Y	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
City of South Salt Lake	45%	44%	N	$11.00	$11.76	$17.05	$17.08	$23.10	$23.52	$79.75	$77.14
City of West Jordan	89%	92%	Y	$2.20	$1.68	$3.41	$2.44	$4.62	$3.36	$15.95	$11.02
Draper City	100%	100%	Y	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Granger Hunter Improvement District	79%	77%	Y	$4.20	$4.83	$6.51	$7.02	$8.82	$9.66	$30.45	$31.68
Herriman City	58%	60%	Y	$8.40	$8.40	$13.02	$12.20	$17.64	$16.80	$60.90	$55.10
Hexcel Corporation	98%	98%	N	$0.40	$0.42	$0.62	$0.61	$0.84	$0.84	$2.90	$2.76
Kearns Improvement District	93%	93%	Y	$1.40	$1.47	$2.17	$2.14	$2.94	$2.94	$10.15	$9.64
Magna Water District	14%	14%	Y	$17.20	$18.06	$26.66	$26.23	$36.12	$36.12	$124.70	$118.47
Midvale City	19%	35%	N	$16.20	$13.65	$25.11	$19.83	$34.02	$27.30	$117.45	$89.54
Riverton City	100%	100%	Y	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Taylorsville Bennion Improvement District	35%	33%	N	$13.00	$14.07	$20.15	$20.44	$27.30	$28.14	$94.25	$92.29
Utah Department of Corrections	100%	100%	Y	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Water Pro	15%	16%	N	$17.00	$17.64	$26.35	$25.62	$35.70	$35.28	$123.25	$115.71
White City Water Improvement District	0%	0%	N	$20.00	$21.00	$31.00	$30.50	$42.00	$42.00	$145.00	$137.75

Current Year Base Price →

Member Agency	% District Water (2017-19 average)	% District Water (2018-20 average)	Currently Using Lab Services
Bluffdale	100%	100%	Y
City of South Jordan	100%	100%	Y
City of South Salt Lake	45%	44%	N
City of West Jordan	89%	92%	Y
Draper City	100%	100%	Y
Granger Hunter Improvement District	79%	77%	Y
Herriman City	58%	60%	Y
Hexcel Corporation	98%	98%	N
Kearns Improvement District	93%	93%	Y
Magna Water District	14%	14%	Y
Midvale City	19%	35%	N
Riverton City	100%	100%	Y
Taylorsville Bennion Improvement District	35%	33%	N
Utah Department of Corrections	100%	100%	Y
Water Pro	15%	16%	N
White City Water Improvement District	0%	0%	N

(12) Total or Calcium Hardness	
$25	
revious Year djusted	Current Year Adjusted
$0.00	$0.00
$0.00	$0.00
13.75	$14.00
$2.75	$2.00
$0.00	$0.00
$5.25	$5.75
10.50	$10.00
$0.50	$0.50
$1.75	$1.75
21.50	$21.50
20.25	$16.25
$0.00	$0.00
16.25	$16.75
$0.00	$0.00
21.25	$21.00
25.00	$25.00

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Water Conservation: Update, Progress, and Direction

Annual Member Agency Meeting
April 21, 2021

Matt Olsen, Assistant General Manager

2019 Conservation Plan Update

-Adopted by JVWCD's Board in November 2019.

-Defines a new water conservation goal and outlines the costs, strategies, and programs needed to achieve that goal.

-Chief among the priorities is the wide-scale adoption of indoor and outdoor water efficiency standards for all new construction.

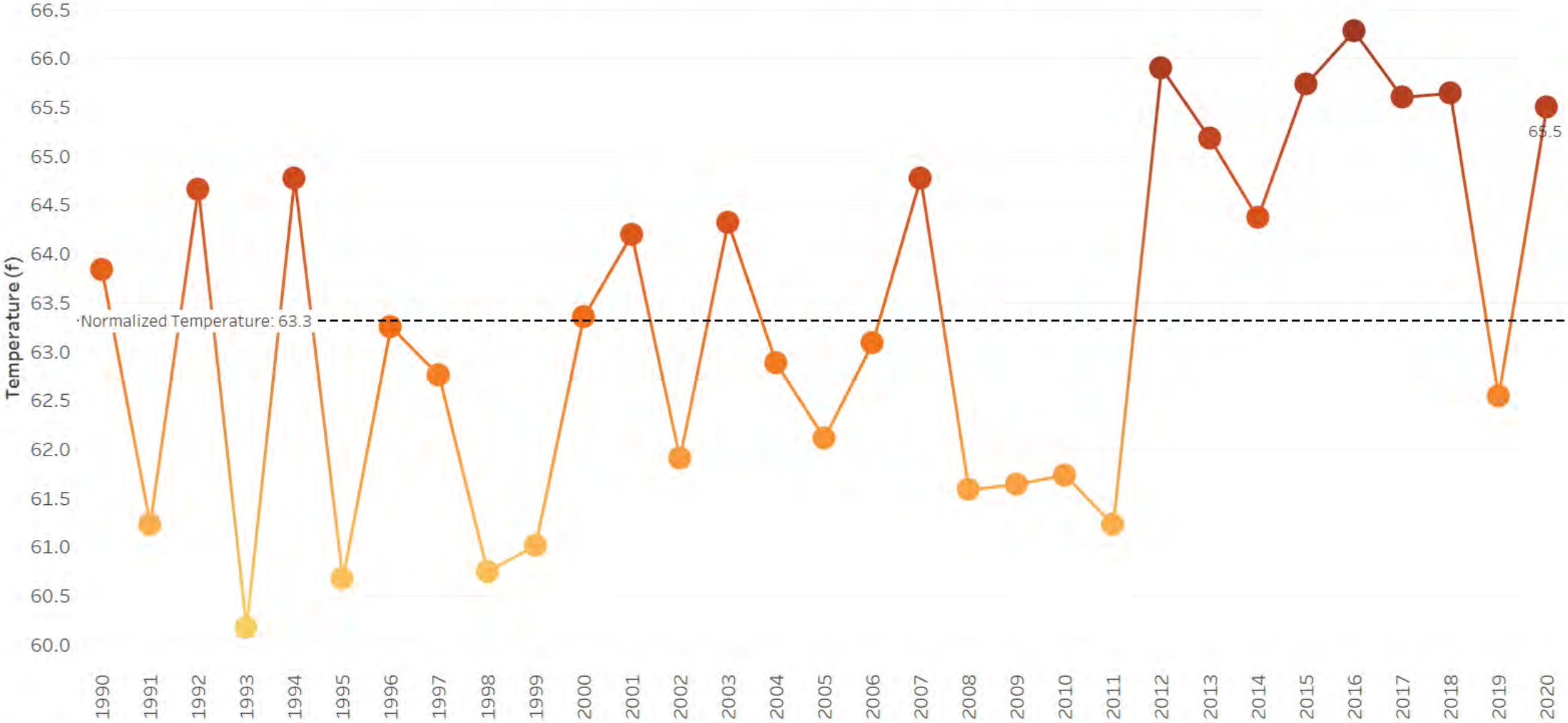
- These measures will hedge against future drought periods, water shortages, water supply costs, and conservation expenses.

WATER USE RESULTS

2019 combined water use results from JVWCD and all Member Agencies

Jordan Valley Water Conservancy District

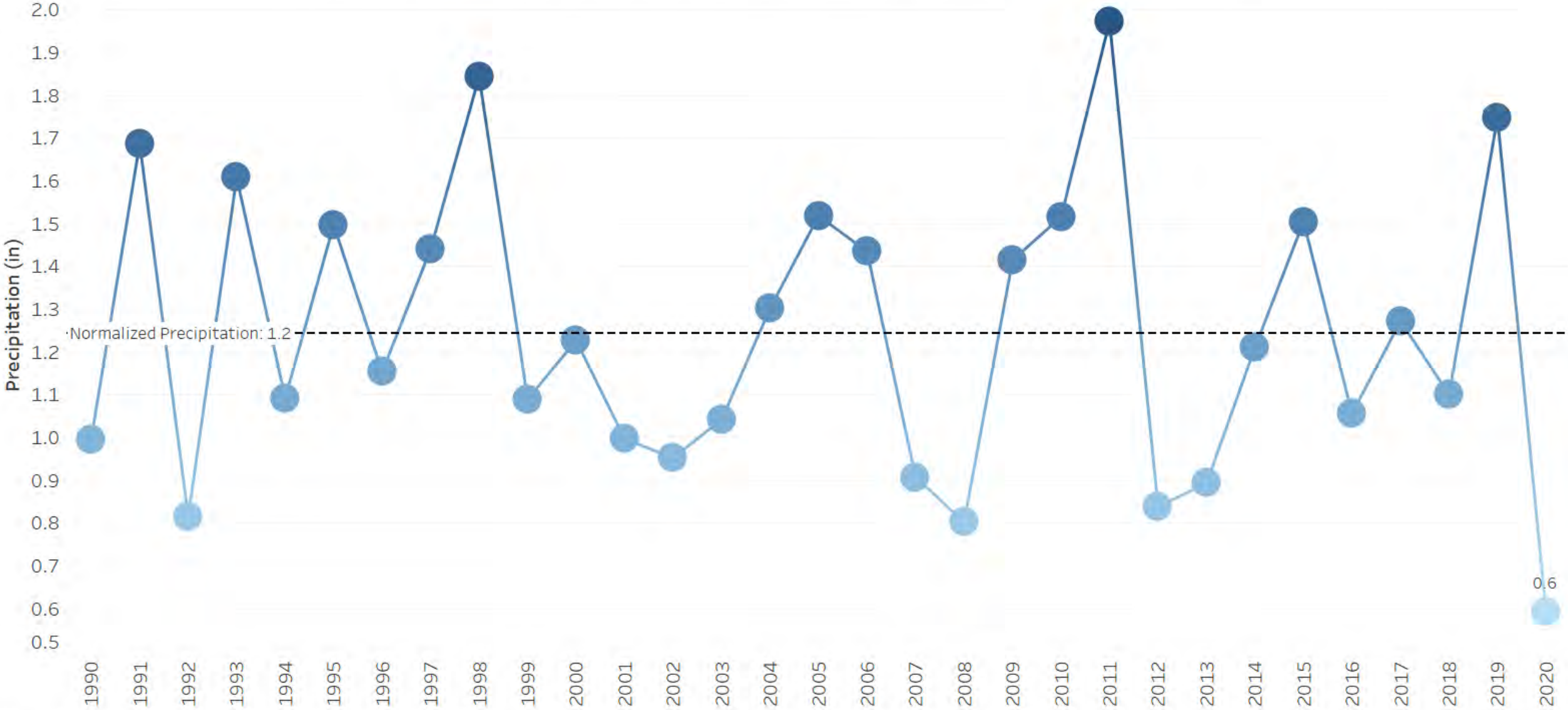
Summer Month Average Temperature by Year - Salt Lake City International Airport



January, February, November, and December were removed from the analysis.

Jordan Valley Water Conservancy District

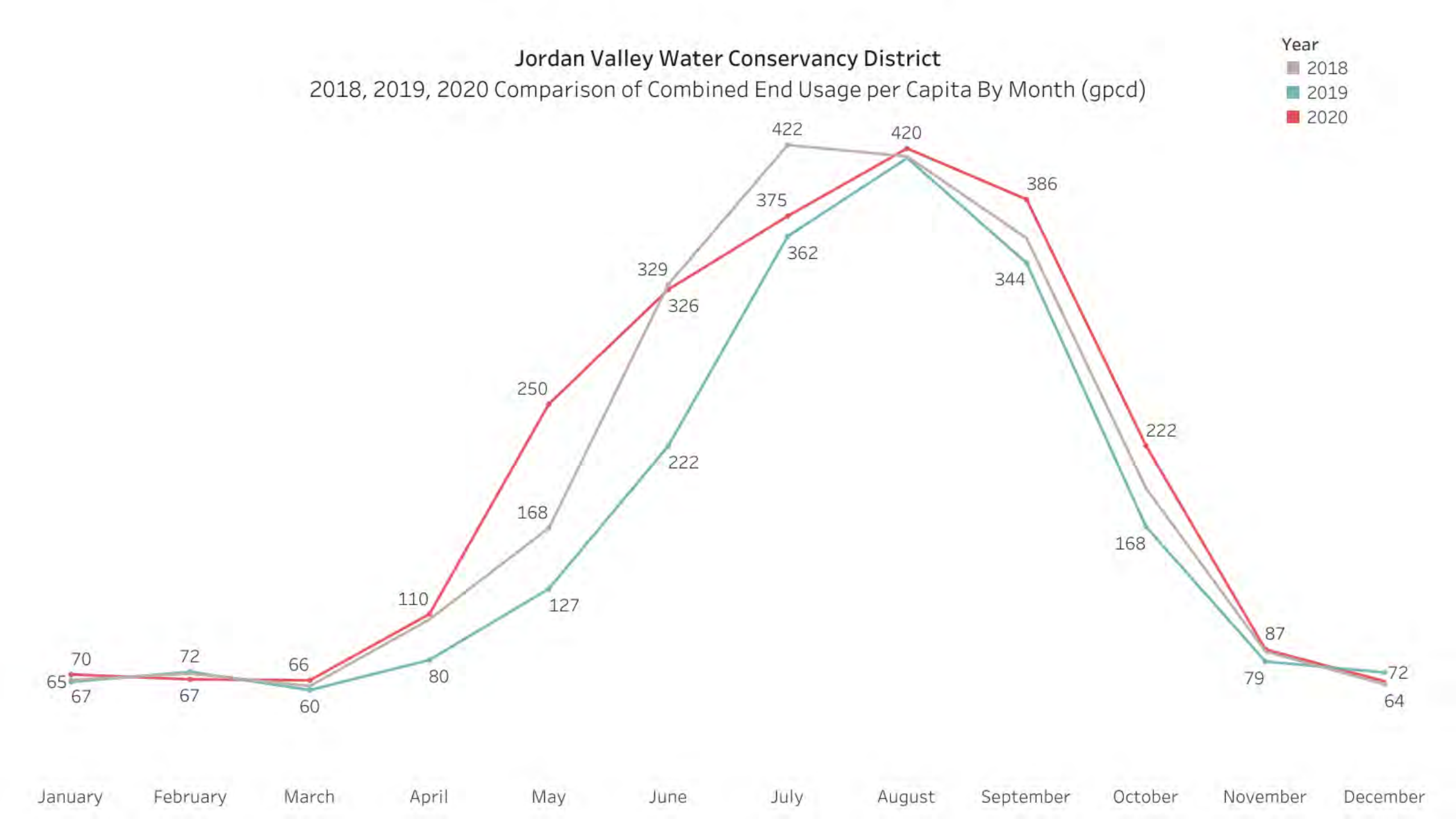
Summer Month Average Precipitation by Year - Salt Lake City International Airport



January, February, November, and December were removed from the analysis.

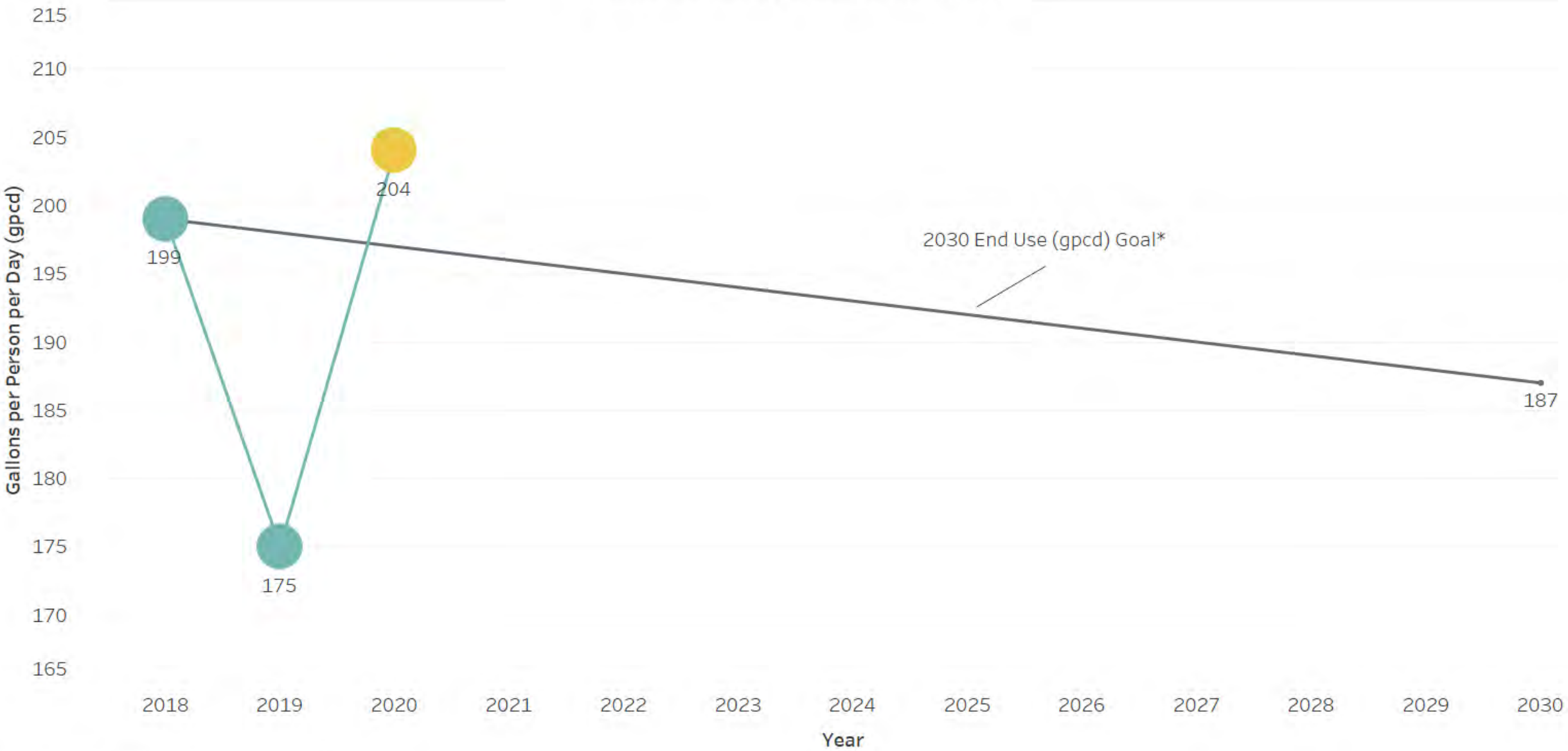
Jordan Valley Water Conservancy District

2018, 2019, 2020 Comparison of Combined End Usage per Capita By Month (gpcd)



Jordan Valley Water Conservancy District

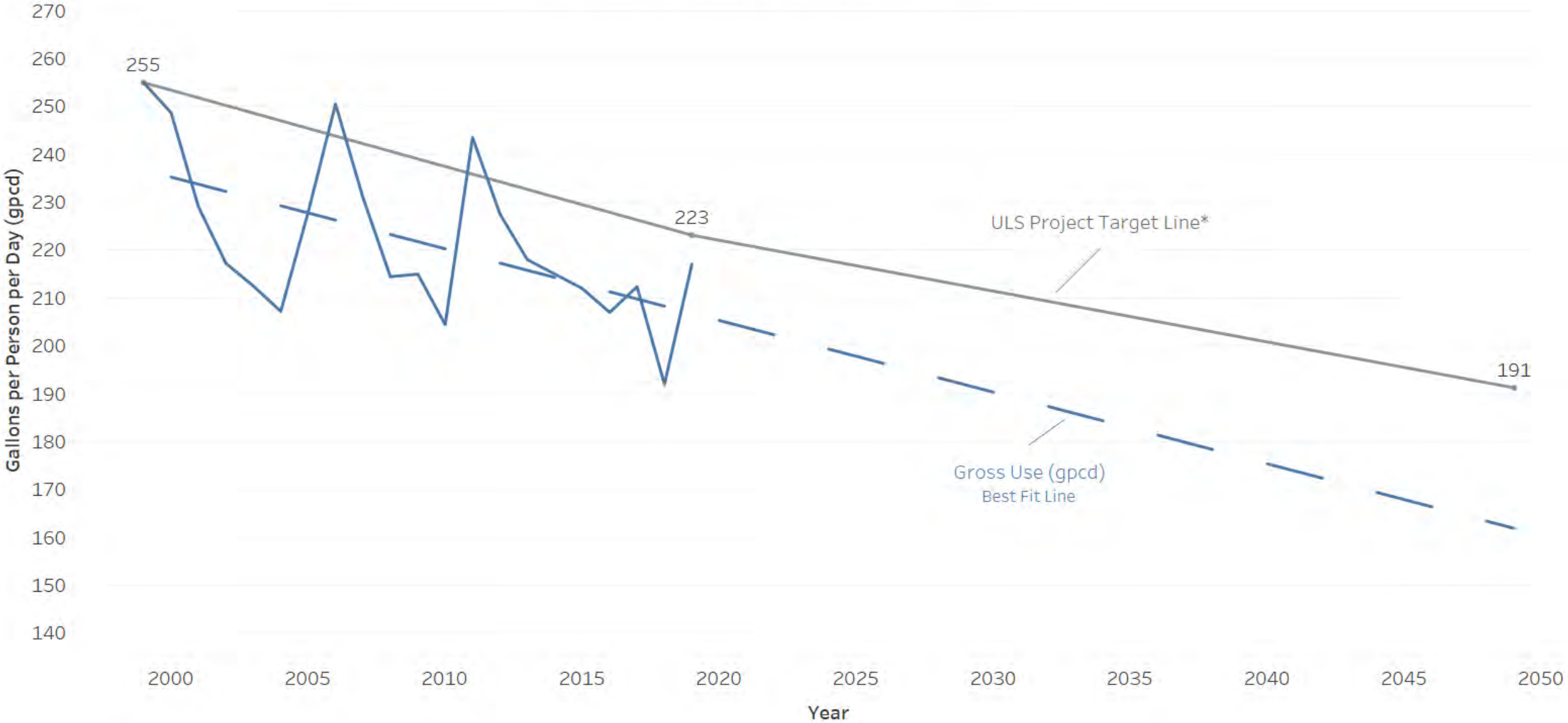
Annual End Usage per Capita (gpcd)



*2030 End Use (gpcd) Goal is 187 gpcd by 2030

Jordan Valley Water Conservancy District

Annual Gross Usage per Capita (gpcd)



*ULS Project Target Line is 12.5% by 2020 and 25% by 2050

Water Efficiency Standards and Policy Considerations

Summary of the water efficiency standards and recent policy changes approved by JVWCD's Board of Trustees

Key Benefits of Adopting Water Efficiency Standards

- Reductions in outdoor consumption will result in lower peaking factors, infrastructure costs, and water conservation expenses.
- The cost to retrofit a landscape to be water-efficient is 5 times higher than installing it to be water-efficient from the beginning.
- Adopting the standards now is a proactive step to minimize economic damage if water restrictions are required to respond to potentially more extreme droughts.
- Water-efficient landscapes are more compatible with Utah's arid climate, are more resilient to droughts, and can more easily adapt to the trending hotter and drier climate conditions in the future.

Indoor Standards

It is recommended but not mandated that all indoor plumbing fixtures be WaterSense labeled (e.g. toilets, urinals, faucets, and showerheads) .

Residential Landscape Standards

- Applicable to front and side yards.
- Lawn is designed as an open space that does not exceed 35% of the total landscaped area.
- lawn is prohibited in park strips and other narrow areas less than 8’ wide.
- Drip irrigation is used in planting beds.
- Exceptions to these standards can be made in certain small lot scenarios.

Commercial Landscape Standards

- Lawn is less than 20% of the landscaped area (except for active recreation zones).
- Lawn is not used in areas narrower than 8 feet (park strips, parking lot islands, etc).
- Lawn is free from obstructions and is not used on steep slopes.
- Drip irrigation is used in planting beds.
- Plant materials create at least 50% living plant cover at maturity (recommended).
- New landscape projects are submitted to the municipality to ensure they meet water conservation requirements.
- Certain special purpose landscape areas may receive variances to the standards based on need (ex. stormwater management areas)

Implementation Strategies

Based on a survey of states, cities, and agencies throughout the west, considerations for implementation on new construction:

1. Outdoor landscaping ordinances
   - Incorporate into residential and commercial zoning codes
   - Include as a condition of development agreements
   - Add as part of plan review process

2. Water service application process
   - Include as a condition in water service application and agreement
   - Add as part of a water availability letter

Implementation Strategies (cont.)

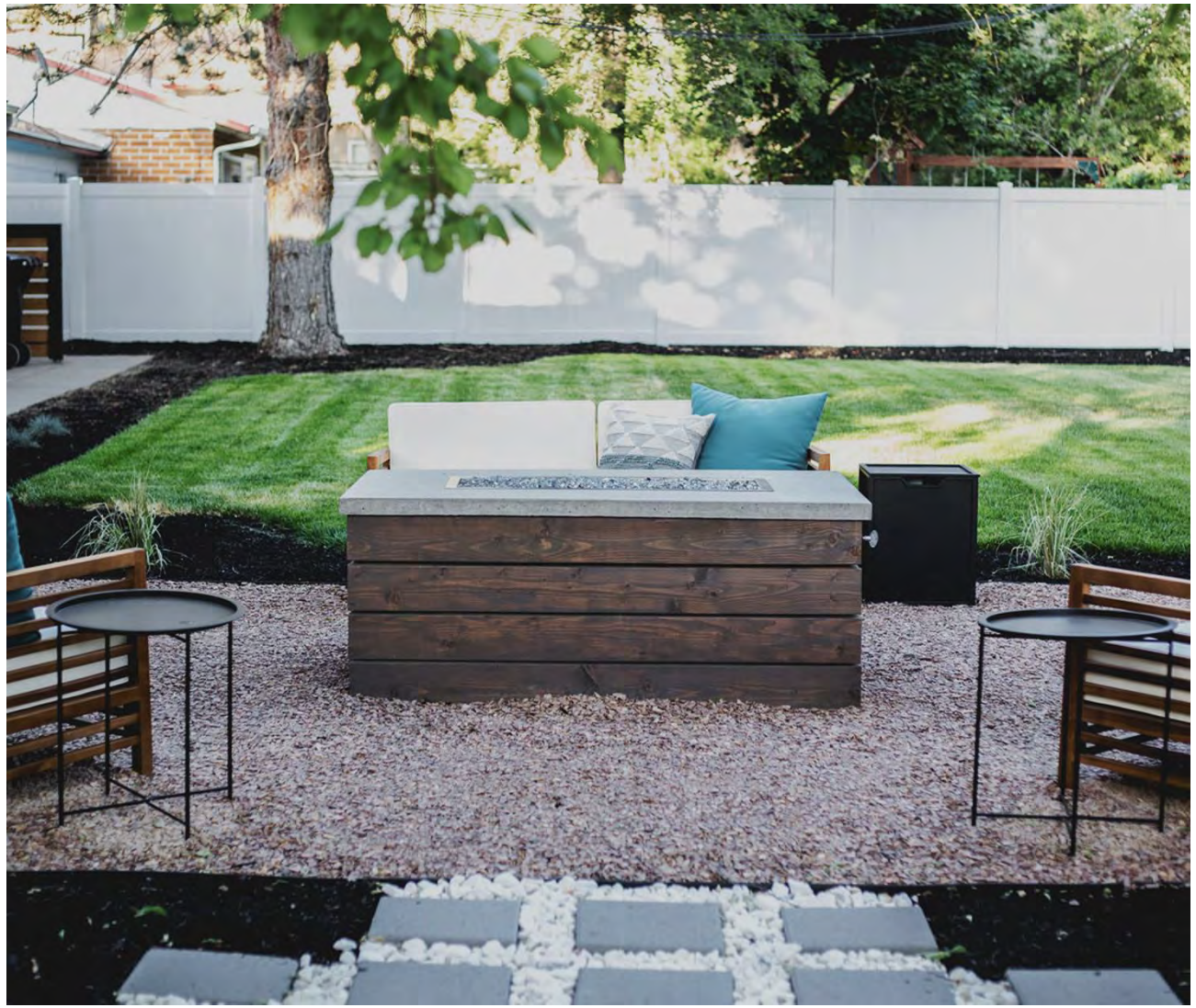
Based on a survey of states, cities, and agencies throughout the west, considerations for implementation on new construction:

3. Impact fees
   - Create a lower impact fee based on reduced water service needs
   - Provide a credit for new construction that adopts standards

4. Water rates
   - Provide water-efficiency credits on bills
   - Align rate tiers with efficient use or to water use budgets

Key Concepts for Adopting the Water Efficiency Standards in the **Retail Service Area**

- All new connections for all customer classes (residential, commercial, industrial, institutional) are expected to comply standards.
- Have applicants for new service connections submit a performance bond during the application process.
- Hold the bond until the applicable landscaping has been installed and inspected.
- Release bond upon compliance to the standards.
- Adjust water rate tiers to provide additional price signal for efficient use.
- Create a new meter size category that has lower tier thresholds and a lower impact fee.



Conservation Programs and Initiatives

Effective water conservation programs are based on three primary building blocks: Education, Incentives, and Regulations

Member Agency Grant Program

Two Opportunities:

- Funding for Agency Water Conservation Programs
- Funding for Assistance in Adopting Water Efficiency Standards

$50,000 +
$1 per acre-foot of contract

- To assist in funding and implementing water conservation measures, projects, and programs within the Member Agency retail service area.

$50,000 +
$1 per acre-foot of contract

- To assist in funding the potential financial impacts of adopting the Water Efficiency Standards.
- Areas for consideration are staffing, consulting, training, software, equipment, etc. that may be needed as a result.

Utah Water Savers

utahwatersavers.com

Apply today for a **FREE consultation or cash rebates!**

(Programs available throughout most of JVWCD's service area)

Cash rebates for homeowners who purchase a smart controller for their irrigation system.

Cash rebates for homeowners who replace toilets that were installed before 1994.

Cash rebates for homeowners who convert grass park strips to water-efficient designs.

Free consultations for homeowners wanting to improve the water efficiency of their yard.

Cash rewards and landscape plan reviews for those who complete Localscapes projects.

how do I APPLY?

Complete the online interest form at
JVWCD.ORG/LANDSCAPELEADERSHIPGRANT

Or email the following information to
GRANTS@JVWCD.ORG:

1. Applicant's contact information (name, phone, and email)
2. Project address and description
3. Estimated project start date and cost
4. Concept landscape plan (or detailed construction plans if available)
5. Estimated square footage (include breakdown of turf, planter bed, and hardscape areas)

APPLICANT REQUIREMENTS:

- Recipient must be a commercial business, builder/developer, institution, or HOA.
- Project must be located within the JVWCD service area.
- Project must provide quantifiable water savings.
- Project must have high promotional, marketing, or press appeal.
- Landscape changes must be voluntary and not for the purpose of complying with a governmental code or policy.

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

8215 South 1300 West - West Jordan, UT 84088
801-565-4300

Landscape LEADERSHIP *grants*

FOR BUILDERS · DEVELOPERS
COMMERCIAL BUSINESSES AND INSTITUTIONS
& HOMEOWNERS ASSOCIATIONS

Funding for prominent, water-efficient landscaping projects.

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Strategic WATER MANAGEMENT

Strategic Water Management is a joint effort between JVWCD and eligible commercial, industrial, institutional, and multi-family water users to both save water and meet the unique needs of program participants.

The program offers:

- Water use assessments
- Custom incentives

- Irrigation system upgrades (ex. smart central irrigation controllers, drip conversions, zone adjustments)
- Indoor fixture replacement (ex. toilets, urinals, faucets, showerheads)
- Replacement of water-cooled equipment with new air-cooled equipment (ex. ice machines)
- Enhanced or added water reclamation systems
- Elimination of water intensive industrial processes
- Boiler and steam system upgrades
- Air conditioning condensate capture and reuse
- Cooling tower modifications
- Industrial laundry equipment upgrades
- More efficient reverse osmosis units
- Car wash system and equipment upgrades
- Laboratory and medical equipment upgrades

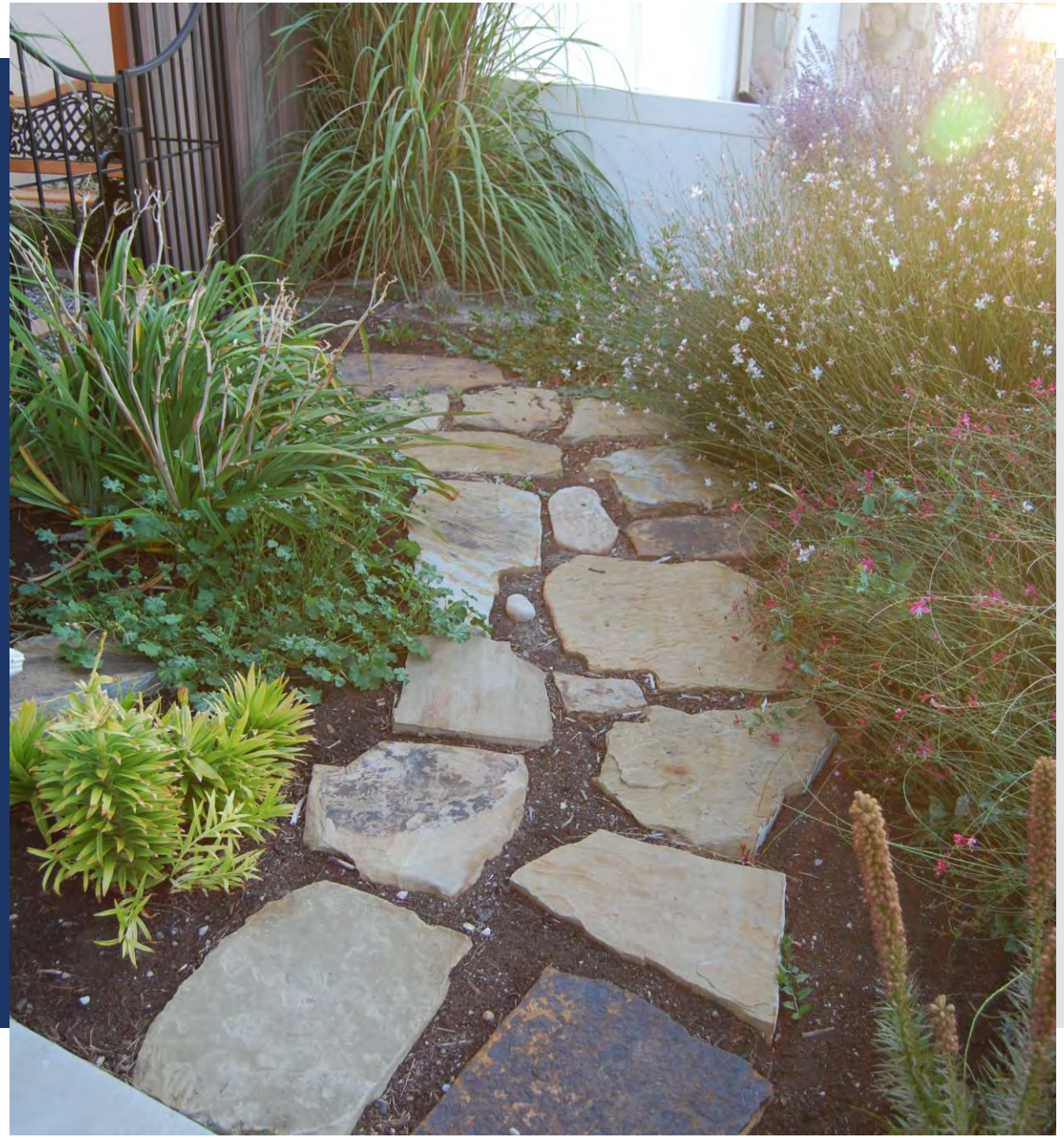
Conservation Garden Park

(8275 S. 1300 W. West Jordan, UT)

- With more than nine acres of exhibits, pathways and Utah-friendly plants, Conservation Garden Park is Salt Lake County's premier destination for information about water-efficient landscaping. Owned and operated by JVWCD, the Garden is open year-round with free admission to all patrons.
- Classes, tours, educational exhibits, field trips, community events, plant database, and online education.

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Discussion/Questions



JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

LONG-TERM WATER SUPPLY PLANNING AND 10-YEAR CAPITAL PROJECTS PLAN

Annual Member Agency Meeting

April 21, 2021

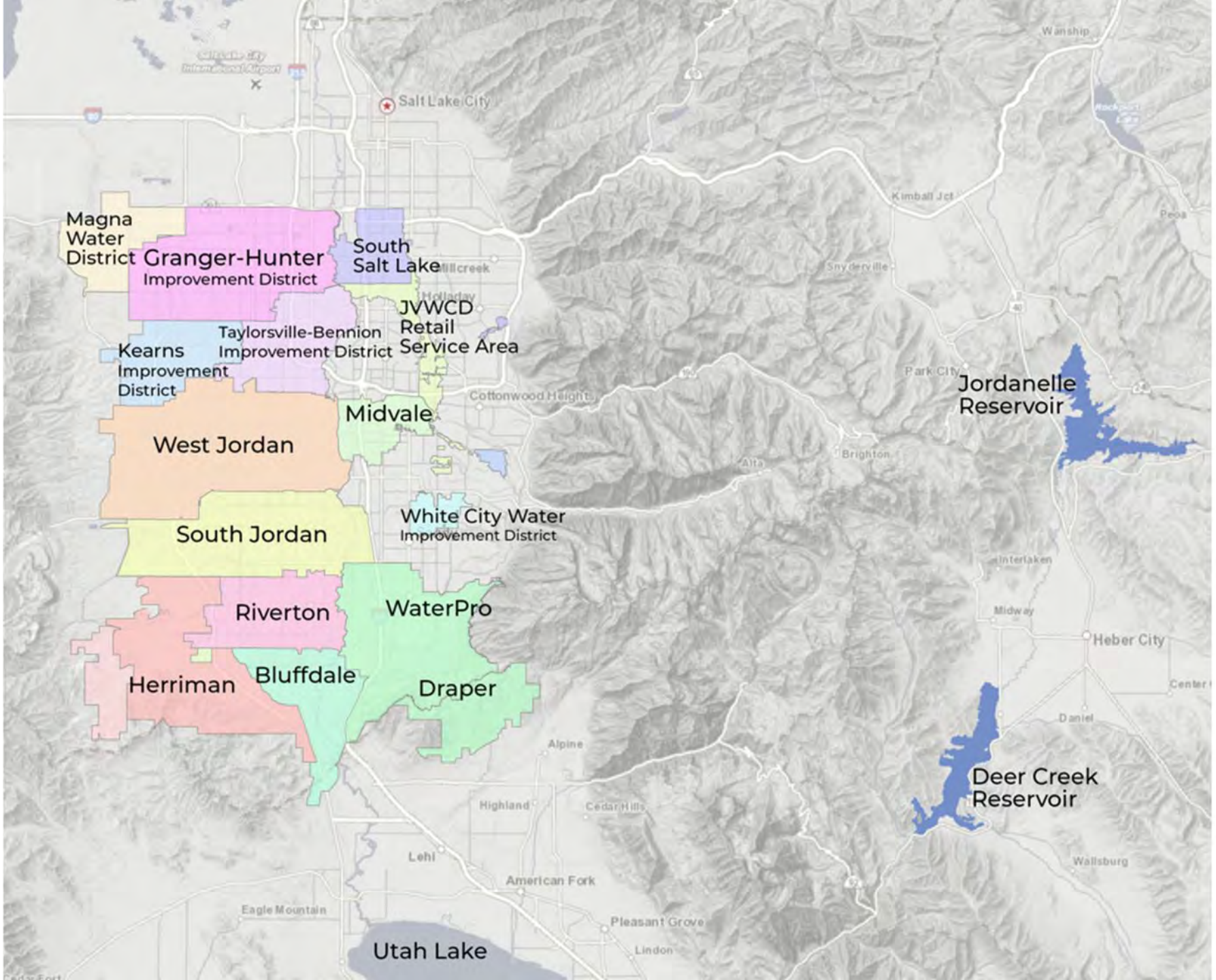
JORDAN VALLEY WATER
CONSERVANCY DISTRICT

The highlighted areas on the map show JVWCD's service area, which includes the following cities and water providers:

- Bluffdale City
- Draper City
- Granger-Hunter Improvement District
- Herriman City
- Kearns Improvement District
- Magna Water District
- Midvale City
- Riverton City
- City of South Jordan
- City of South Salt Lake
- Taylorsville-Bennion Improvement District
- Waterpro, Inc.
- City of West Jordan
- White City Water Improvement District

JVWCD's retail service area also includes smaller portions of the following locations:

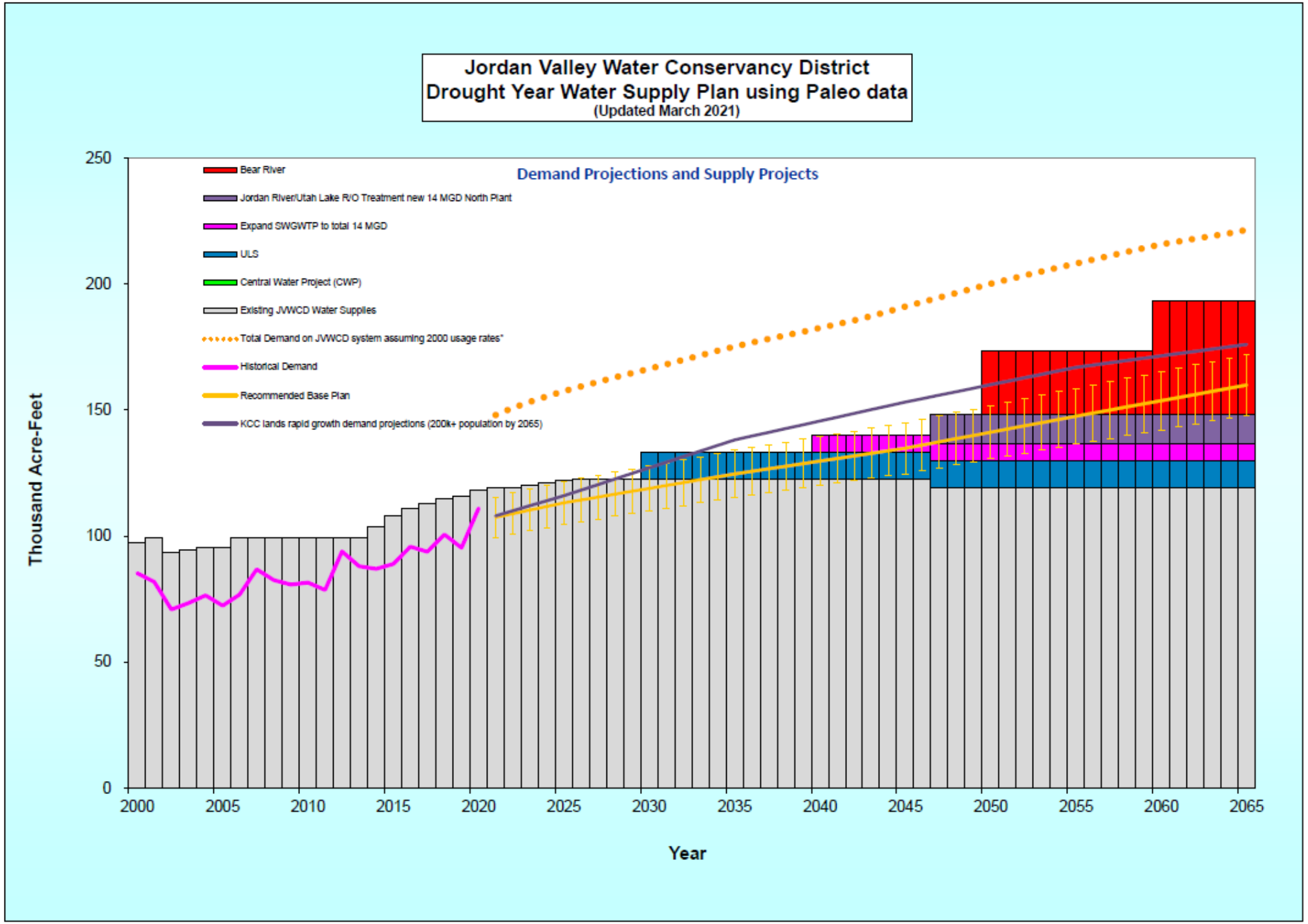
- City of Holladay
- Cottonwood Heights City
- Murray City
- Millcreek City
- Sandy City

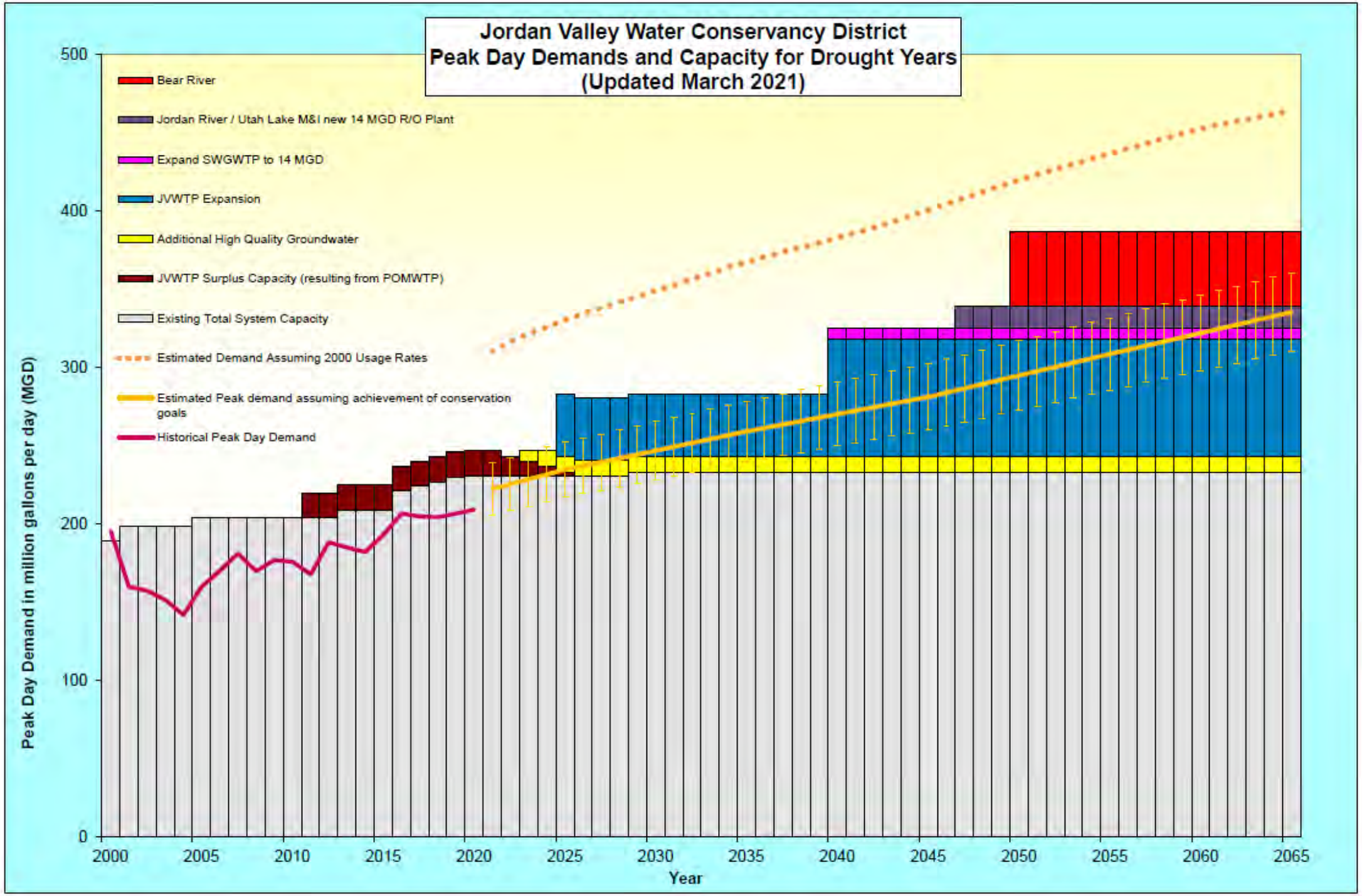


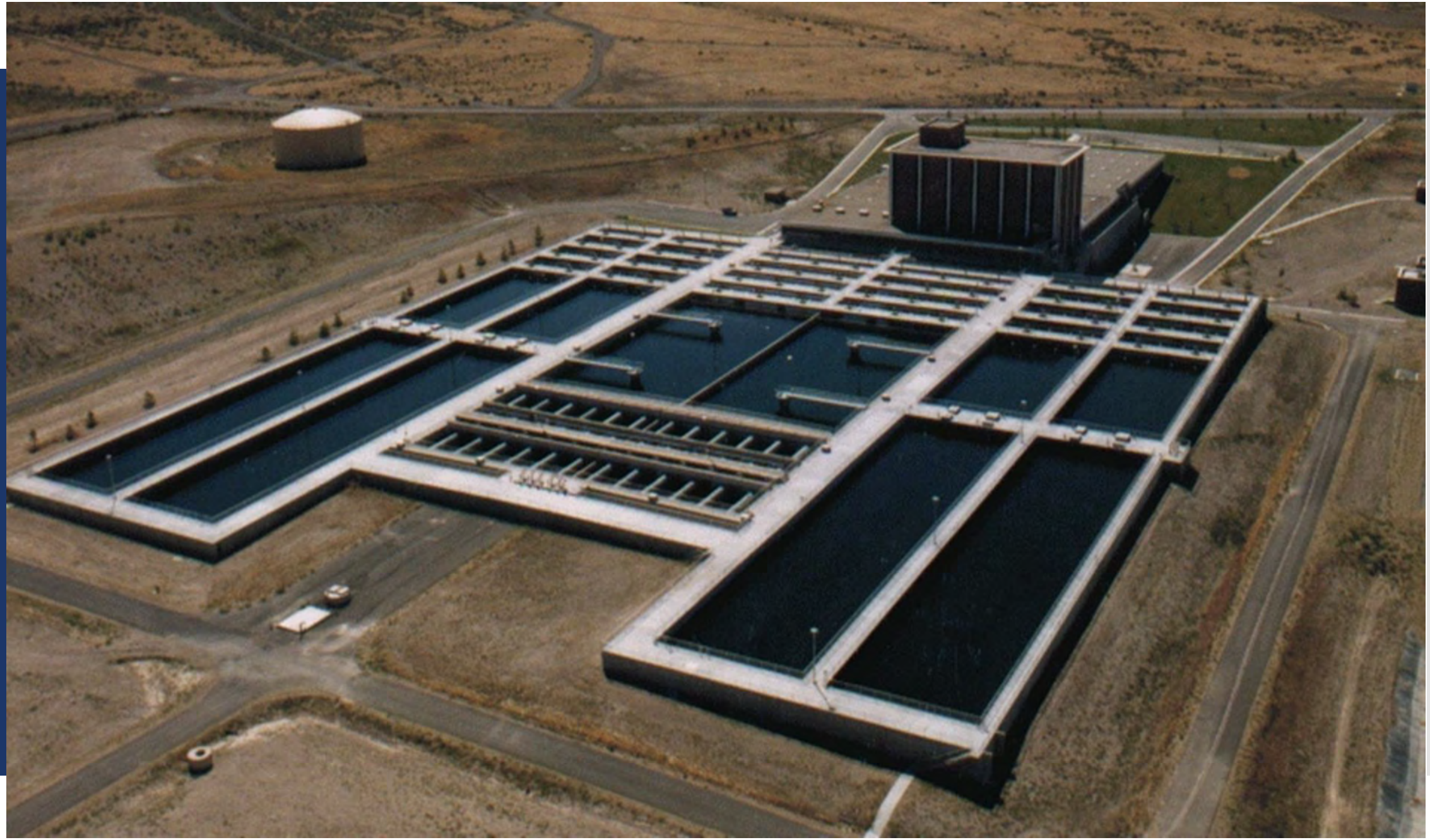
Areas for Potential Service Area Expansion

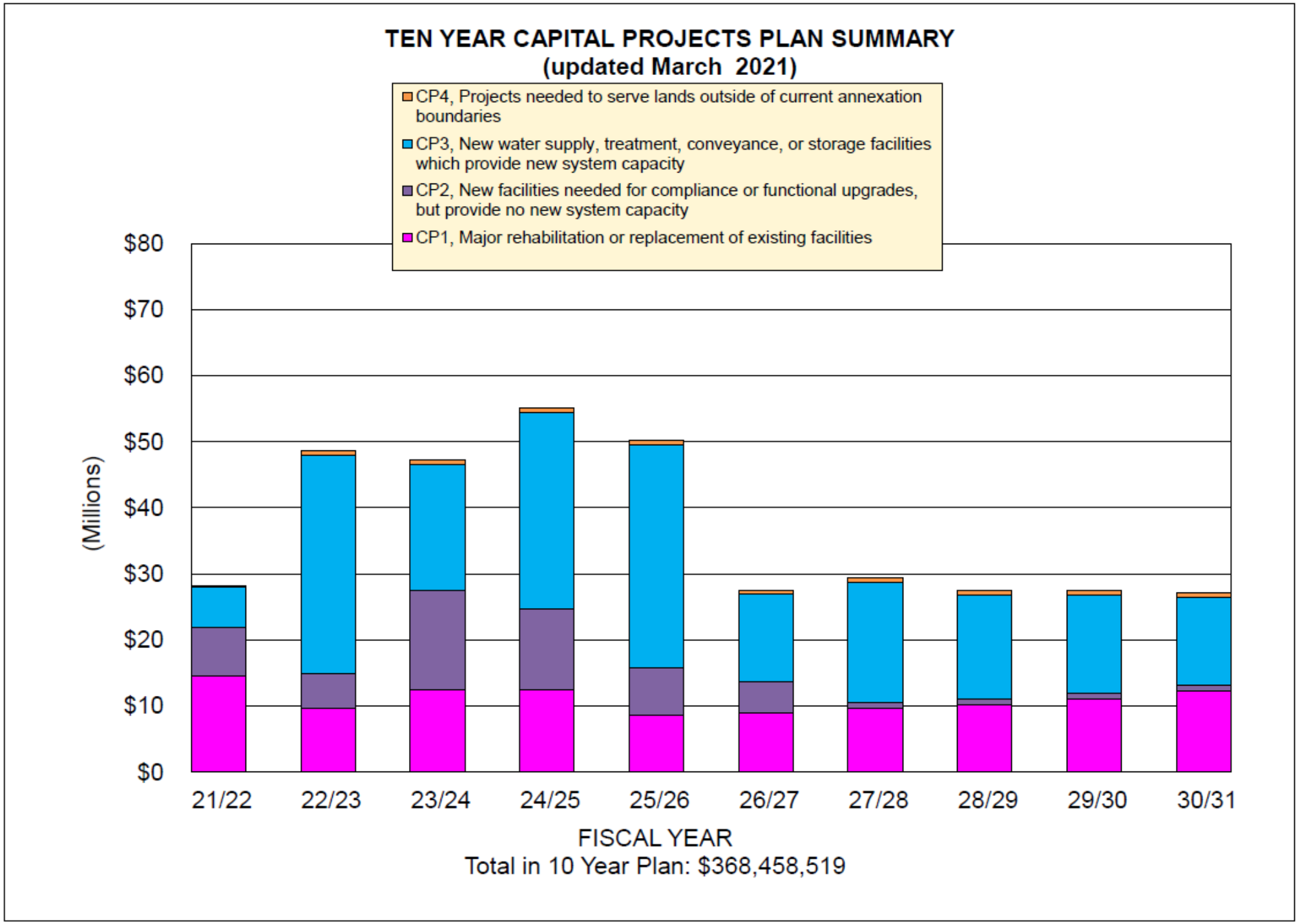
It is anticipated the western portion of this projection plan could be annexed into JVWCD's service area.

Land Development Projection Map prepared by Salt Lake County


Jordan Valley Water Conservancy District
Drought Year Water Supply Plan using Paleo data
(Updated March 2021)
Demand Projections and Supply Projects
Bear River
Jordan River/Utah Lake R/O Treatment new 14 MGD North Plant
Expand SWGWTP to total 14 MGD
ULS
Central Water Project (CWP)
Existing JVWCD Water Supplies
Total Demand on JVWCD system assuming 2000 usage rates*
Historical Demand
Recommended Base Plan
KCC lands rapid growth demand projections (200k+ population by 2065)
Thousand Acre-Feet
250
200
150
100
50
0
2000
2005
2010
2015
2020
2025
2030
2035
2040
2045
2050
2055
2060
2065
Year


Jordan Valley Water Conservancy District
Peak Day Demands and Capacity for Drought Years
(Updated March 2021)
Bear River
Jordan River / Utah Lake M&I new 14 MGD R/O Plant
Expand SWGWTP to 14 MGD
JVWTP Expansion
Additional High Quality Groundwater
JVWTP Surplus Capacity (resulting from POMWTP)
Existing Total System Capacity
Estimated Demand Assuming 2000 Usage Rates
Estimated Peak demand assuming achievement of conservation goals
Historical Peak Day Demand
Peak Day Demand in million gallons per day (MGD)
0
100
200
300
400
500
2000
2005
2010
2015
2020
2025
2030
2035
2040
2045
2050
2055
2060
2065
Year




TEN YEAR CAPITAL PROJECTS PLAN SUMMARY
(updated March 2021)
CP4, Projects needed to serve lands outside of current annexation boundaries
CP3, New water supply, treatment, conveyance, or storage facilities which provide new system capacity
CP2, New facilities needed for compliance or functional upgrades, but provide no new system capacity
CP1, Major rehabilitation or replacement of existing facilities
$80
$70
$60
$50
$40
$30
$20
$10
$0
(Millions)
21/22
22/23
23/24
24/25
25/26
26/27
27/28
28/29
29/30
30/31
FISCAL YEAR
Total in 10 Year Plan: $368,458,519

JVWCD DROUGHT CONTINGENCY PLAN

Annual Member Agency Meeting

April 21, 2021

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

JVWCD Drought Contingency Plan

- Reduce vulnerability by implementing various mitigation measures
- Develop a framework to monitor conditions and determine level of necessary water restrictions
- Develop response actions to minimize economic damage

Drought Planning & Preparation Activities

- Water Efficiency Standards
- Slow the Flow contributing stakeholder
- Continue rebate programs (Flip Your Strip, Localscapes Rewards, toilet rebates, etc.)
- Continue as a sponsor of Provo River Watershed Council
- Prepare information for water users and media campaign assets per Drought Contingency Plan
- Member Agency Grant Program

Example Mitigation Measures

- Secondary water metering
- Encourage broader implementation of automated metering infrastructure (AMI)
- Establish additional stand-by or short-term supply contracts
- Expand operations of JVWCD artificial groundwater recharge project

Example Response Actions

- Water supply restrictions communications
- Customer leak detection using AMI and billing software
- Customized planning for large water users (e.g. golf courses, parks, sports fields, etc.)
- Drought surcharge pricing for upper tiers

March

Convene drought monitoring committee. Review water supply forecast information and develop a preliminary recommended drought level.

April

Committee's preliminary recommendation is presented at JVWCD annual Member Agency meeting.

May

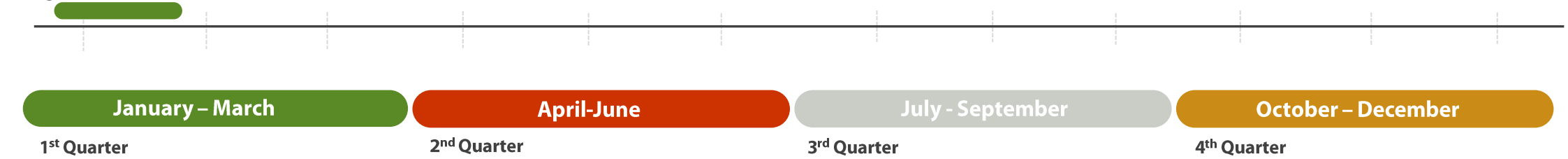
Committee considers updated information and makes final drought level recommendation by May 30.

June

JVWCD board makes formal declaration of drought level.

July – December

JVWCD completes a monthly re-assessment of water supply condition. The drought monitoring committee will be re-convened prior to any change in drought level status. The declared drought level condition will typically expire at the end of the calendar year.



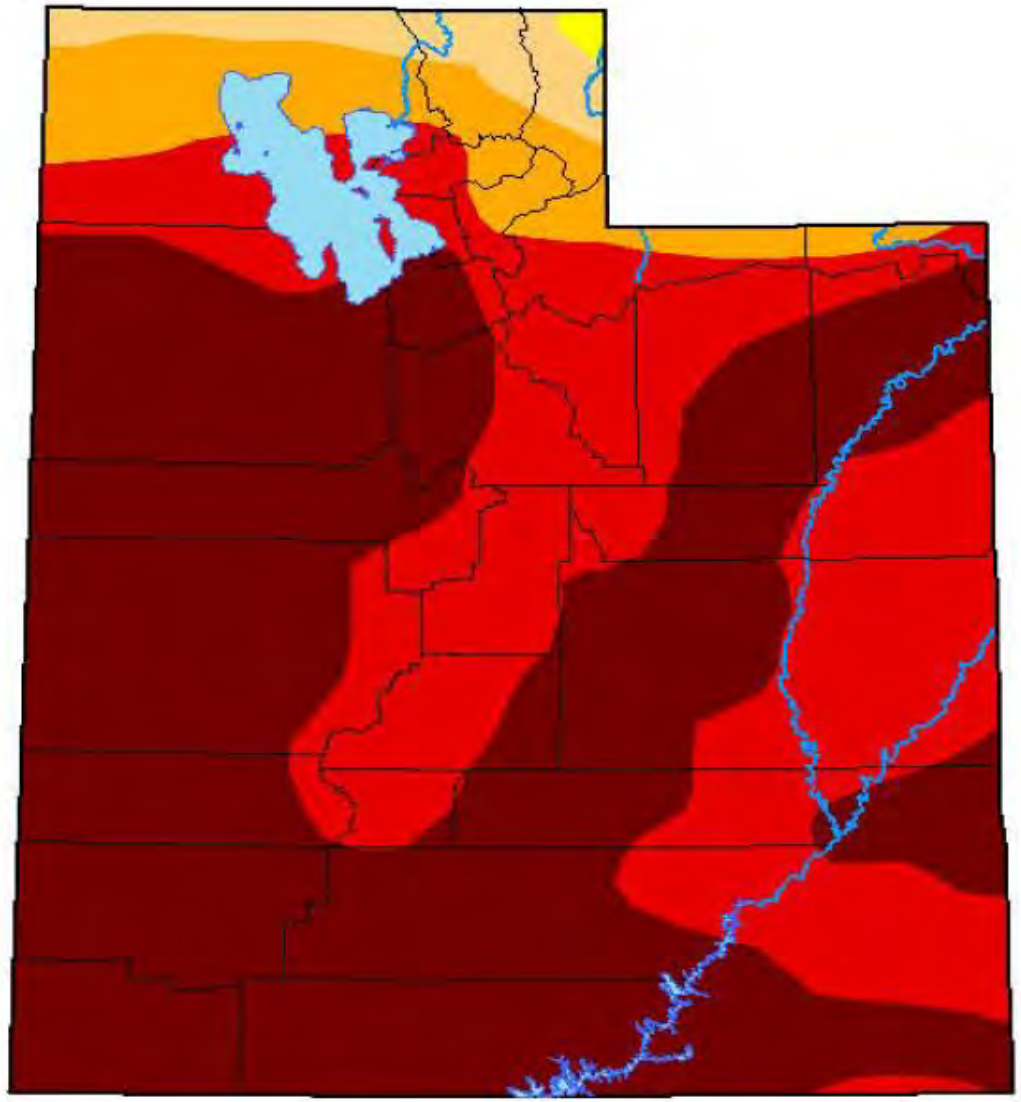
U.S. Drought Monitor

Utah

March 30, 2021

(Released Thursday, Apr. 1, 2021)

Valid 8 a.m. EDT



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

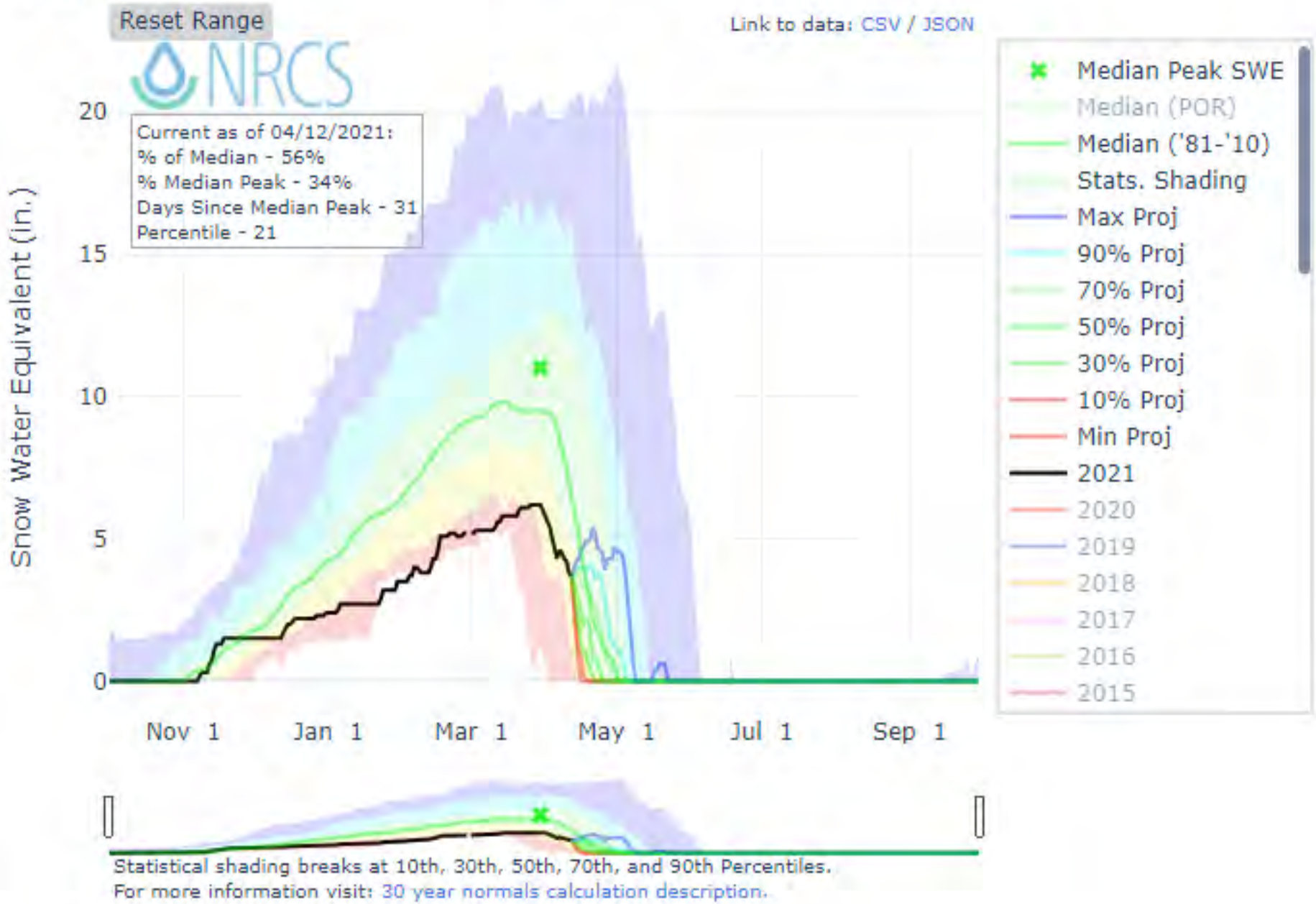
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

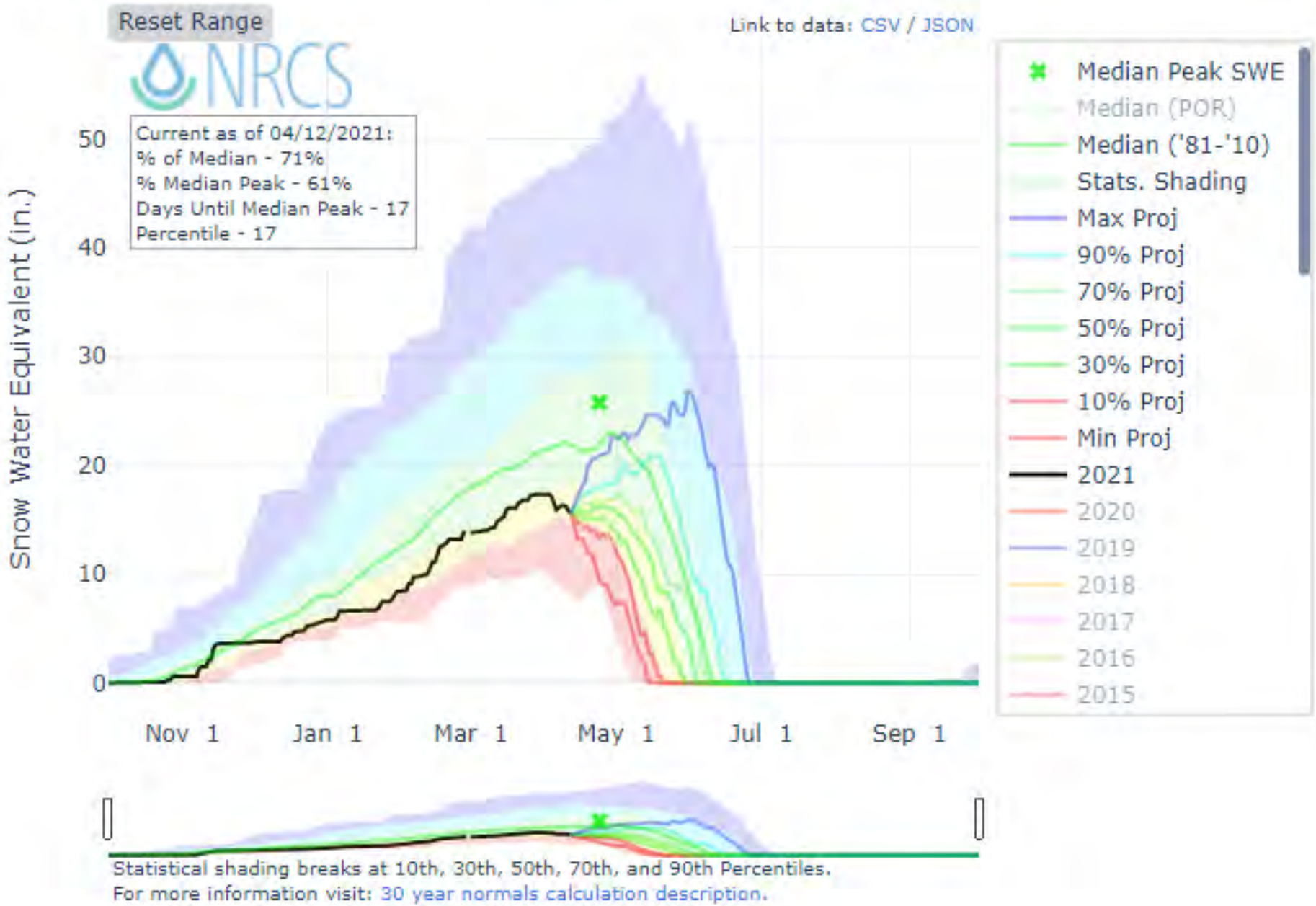
Brad Pugh
CPC/NOAA

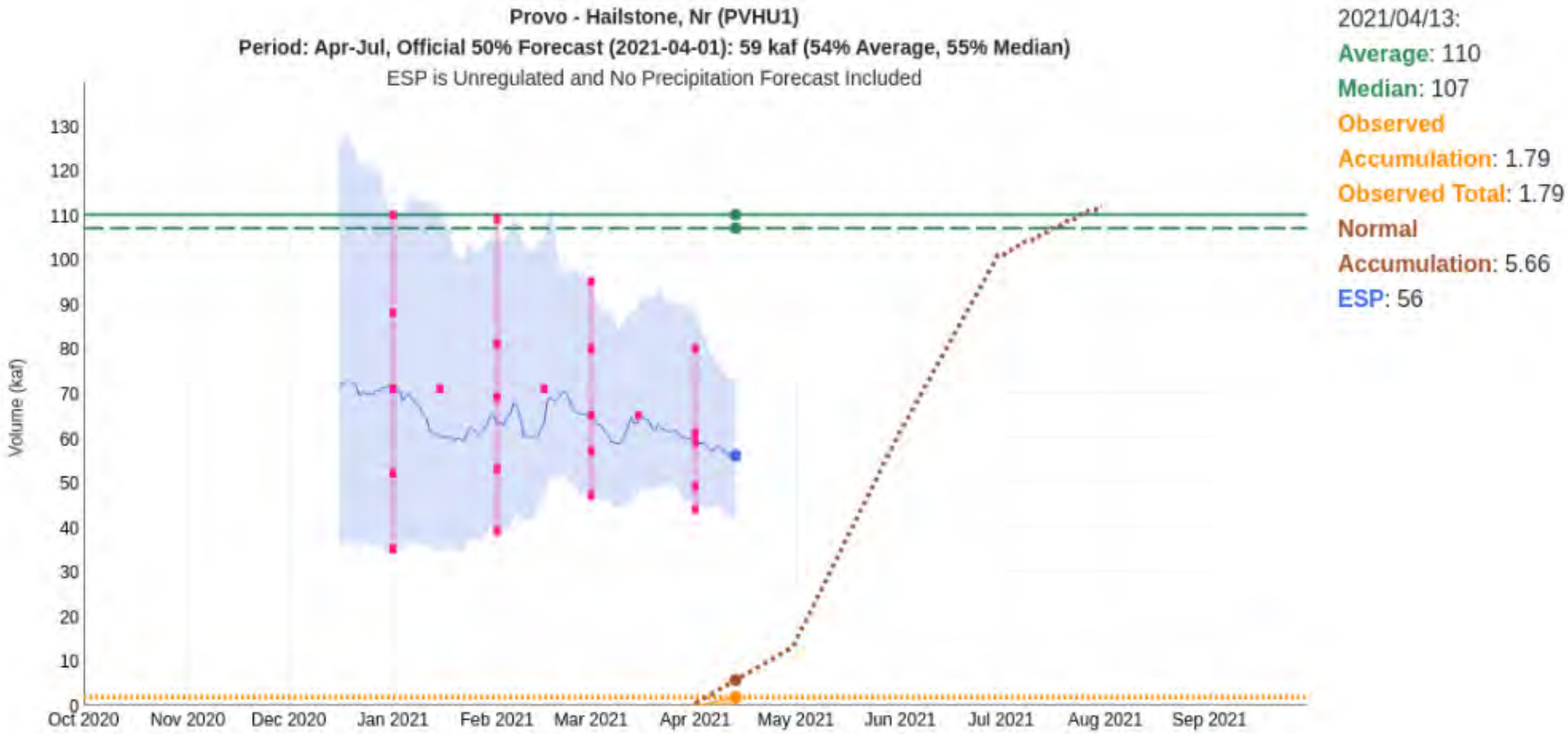
droughtmonitor.unl.edu

SNOW WATER EQUIVALENT PROJECTIONS AT BEAVER DIVIDE



SNOW WATER EQUIVALENT PROJECTIONS AT TRIAL LAKE




Provo - Hailstone, Nr (PVHU1)
Period: Apr-Jul, Official 50% Forecast (2021-04-01): 59 kaf (54% Average, 55% Median)
ESP is Unregulated and No Precipitation Forecast Included
Volume (kaf)
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Oct 2020
Nov 2020
Dec 2020
Jan 2021
Feb 2021
Mar 2021
Apr 2021
May 2021
Jun 2021
Jul 2021
Aug 2021
Sep 2021
2021/04/13:
Average: 110
Median: 107
Observed
Accumulation: 1.79
Observed Total: 1.79
Normal
Accumulation: 5.66
ESP: 56

JVWCD Existing Water Supplies

Water Supply	Estimated Drought Year Yield (AF)	Recent Annual Utilization (AF)	Comments
Central Utah Project (Jordanelle Storage)	41,000	30,000 – 58,000	Variable yield so long as multi-year average utilization is less than design yield.
PRWUA (Deer Creek Storage) + PRWUC & other un-stored rights + local streams	34,000	29,000 – 50,000	Combination of storage rights in Deer Creek Reservoir and un-stored PRWUC and other direct flow rights and local streams in southeast Salt Lake County. Storage rights have "holdover" provisions which allow unused allocations to be used in subsequent year(s).
Salt Lake County high quality groundwater	20,000	6,000 – 25,000	Limited by safe yield per Salt Lake Valley Groundwater Management Plan.
CWP, SWJVGW	19,000	19,000 – 21,000	These two supplies are not significantly affected by drought conditions.

Total estimated drought year yield: 114,000 AF

Total JVWCD M&I supplies into system 2020: 120,255 AF

Total JVWCD M&I supplies into system 2019: 99,580 AF

2021 Water Supply Plan

Water Supply	Estimated Drought Year Yield (AF)	Comments
Central Utah Project (Jordanelle Storage)	47,400	Approximately 59,700 AF is available for 2021. Preserve ~12,000 AF as a hedge for 2022 and/or 2023.
PRWUA (Deer Creek Storage) + PRWUC & other un-stored rights + local streams	29,000	Assumes ~ 8,000 AF will be "held over" for use in 2022.
Salt Lake County high quality groundwater	12,000	Medium utilization to preserve option of heavier use in future.
CWP, SWJVGW	19,000	Utilization per contracts (relatively unaffected by drought).

Total 2021 Water Supply Plan: 107,700 AF

2022 Water Supply Plan (pessimistic snowpack assumption)

Water Supply	Estimated Drought Year Yield (AF)	Comments
Central Utah Project (Jordanelle Storage)	47,000	Approximately 53,000 AF is available for 2022. Preserve 6,000 AF as a hedge for 2023.
PRWUA (Deer Creek Storage) + PRWUC & other un-stored rights + local streams	29,000	Assumes full utilization of 8,000 AF held over from 2021.
Salt Lake County high quality groundwater	15,000	Increased utilization corresponds to Drought Level 1 trigger criteria. Preserves option for heavier use in future.
CWP, SWJVGW	19,000	Utilization per contracts (relatively unaffected by drought).

Total 2022 Water Supply Plan: 110,000 AF

Drought Monitoring: establishing triggering criteria

Example of triggering criteria for drought levels: When reached, these could trigger response actions to reduce impact.

			Triggering Criteria Applied to Drought Levels*		
Drought Level	Advisory Code	Water Shortage Description	CUWCD Supply Availability (Jordanelle storage of Central Utah Project)	PRWUA Supply Allocation (in the Provo River Project)	Salt Lake Valley Groundwater Conditions
Level 0	Blue	Normal	at least 95% supply availability	at least an 80% supply allocation	3 yr. average diversions less than safe yield
Level 1	Yellow	Moderate	at least a 95% supply availability	75-80% supply allocation	JV gw diversions to compensate for shortage exceeds 12,000 AF, or 3 yr. average exceeds safe yield
Level 2	Orange	Severe	at least 90-95% supply availability	75-80% supply allocation	JV gw diversions to compensate for shortage exceeds 16,000 AF, or 3 yr. average exceeds safe yield
Level 3	Dark Orange	Extreme	at least 90-95% supply availability	<75% supply allocation	JV gw diversions to compensate for shortage exceeds 20,000 AF, or 3 yr. average exceeds safe yield
Level 4	Red	Critical/Exceptional	less than 90% supply availability	less than 45% supply allocation	JV gw diversions to compensate for shortage exceeds 20,000 AF, or 3 yr. average exceeds safe yield

*All three criteria need to be satisfied to establish a drought level condition.

- Questions/Comments

JORDAN VALLEY WATER
CONSERVANCY DISTRICT
Delivering Quality Every Day

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

JVWCD new logo to be unveiled July 1, 2021

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

The green symbolizes JVWCD's emphasis on using water sustainably and efficiently.

The leaf element represents the role of water in creating and sustaining life.

The mountain backdrop symbolizes the source of JVWCD's main water supply.

The shape of a valley nods to JVWCD's service area and the communities we serve.

Flowing water in the shape of a hand signifies the delivery of water as an essential service, a service we are honored to provide.

Updated colors and fonts provide a clean, modern look.

JORDAN VALLEY WATER

CONSERVANCY DISTRICT

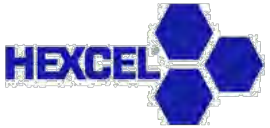
JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

FINANCIAL PLAN, WATER RATES AND METHODOLOGY

Member Agency Meeting – April 21, 2021



2021 Annual Member Agency Meeting

Financial Plan, Water Rates and Methodology

Jordan Valley Water Conservancy District

FISCAL YEAR BUDGET

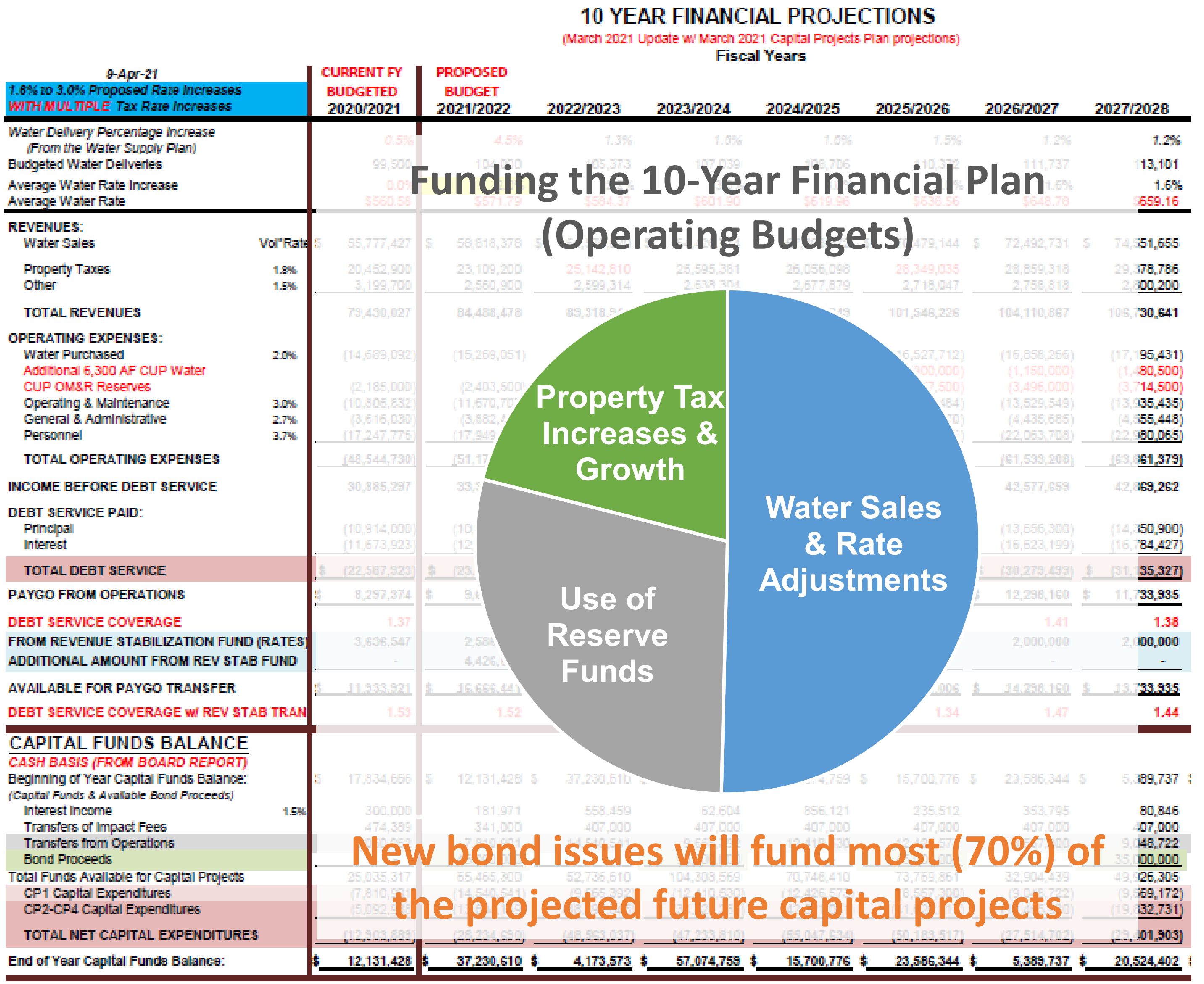
- Operating and maintenance level of service needs
- Debt payments due for fiscal year
- Funding capital replacement projects and reserves

10-YEAR CAPITAL PROJECTS PLAN

- Water supply and demand projections
- Prioritizing capital projects and estimated costs
- Updated annually

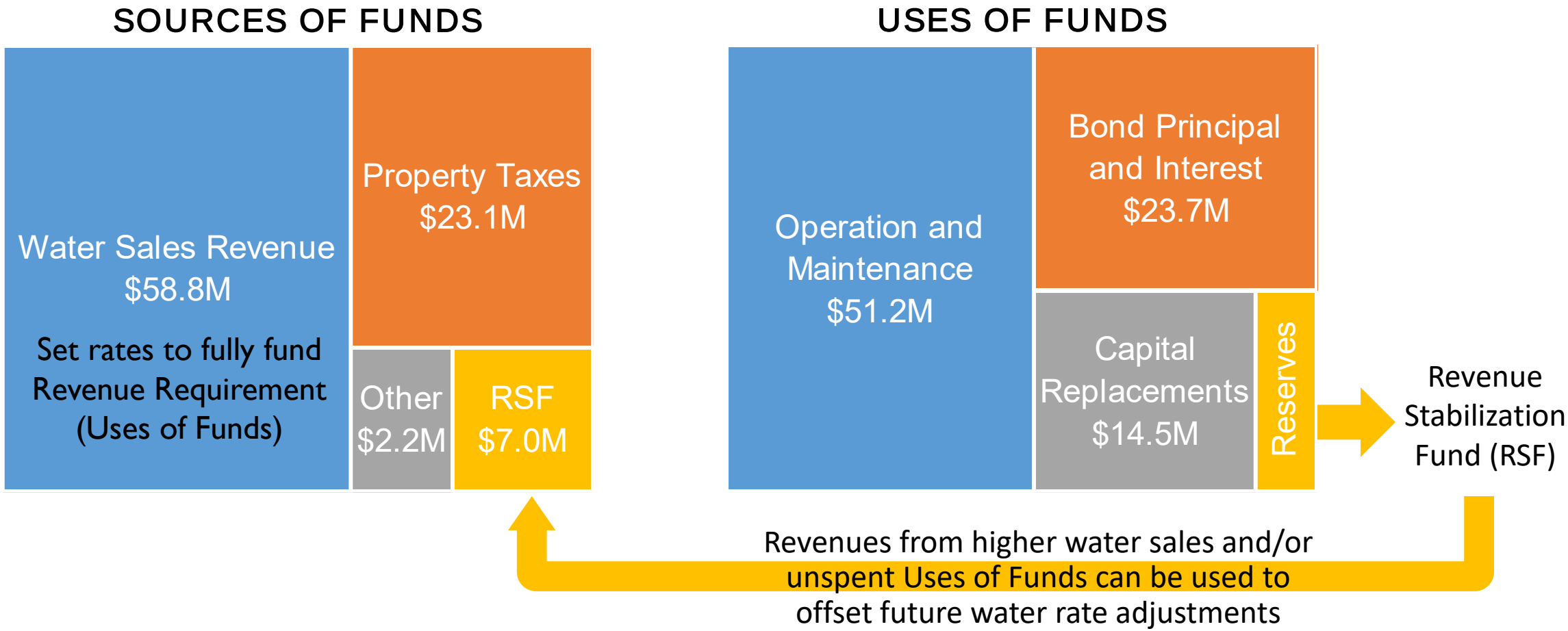
10-YEAR FINANCIAL PLAN

- Future revenue based on water demand projections
- Operating and maintenance expense projections
- Debt service based on current and anticipated debt
- Projected future bond issues



Budget Process

Revenue Stabilization Fund (RSF)



Water Rate Methodology – Big Picture

WATER SYSTEM

- Jordan Valley has developed an extensive water system
- Over $750 million invested in infrastructure and water sources
- Delivers over 100,000 acre-feet of water per year

USERS

- 17 member agencies and retail system of approx. 8,400 customers
- Use of the system differs – small to large wholesale contracts
- Summer extra-capacity usage ranges from 1 to 4 times average use

WATER RATES

- Water rate study performed each year by a consultant
- Costs fairly allocated to users, based on how the system is used
- Water rates developed to generate sufficient revenues

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 Annual Member Agency Meeting
Financial Plan, Water Rates and Methodology

Overview of the Rate Setting Process

Revenue Requirement

Compares the revenue of Jordan Valley to its expenses to evaluate the level of overall rates

O&M Expenses
Debt Service Payments
Capital Replacements
Reserves

Drives the need for overall water rate adjustments

Cost of Service

Equitably (proportionally) allocates the revenue requirement between each member agency and the retail customers

Base-Extra Capacity Method

Peaking Factors measure extra capacity needs

Changes in cost allocations cause adjustments to member agency water rates

Rate Design

Design cost-based rates to meet the revenue needs of Jordan Valley, along with any other rate design goals and objectives

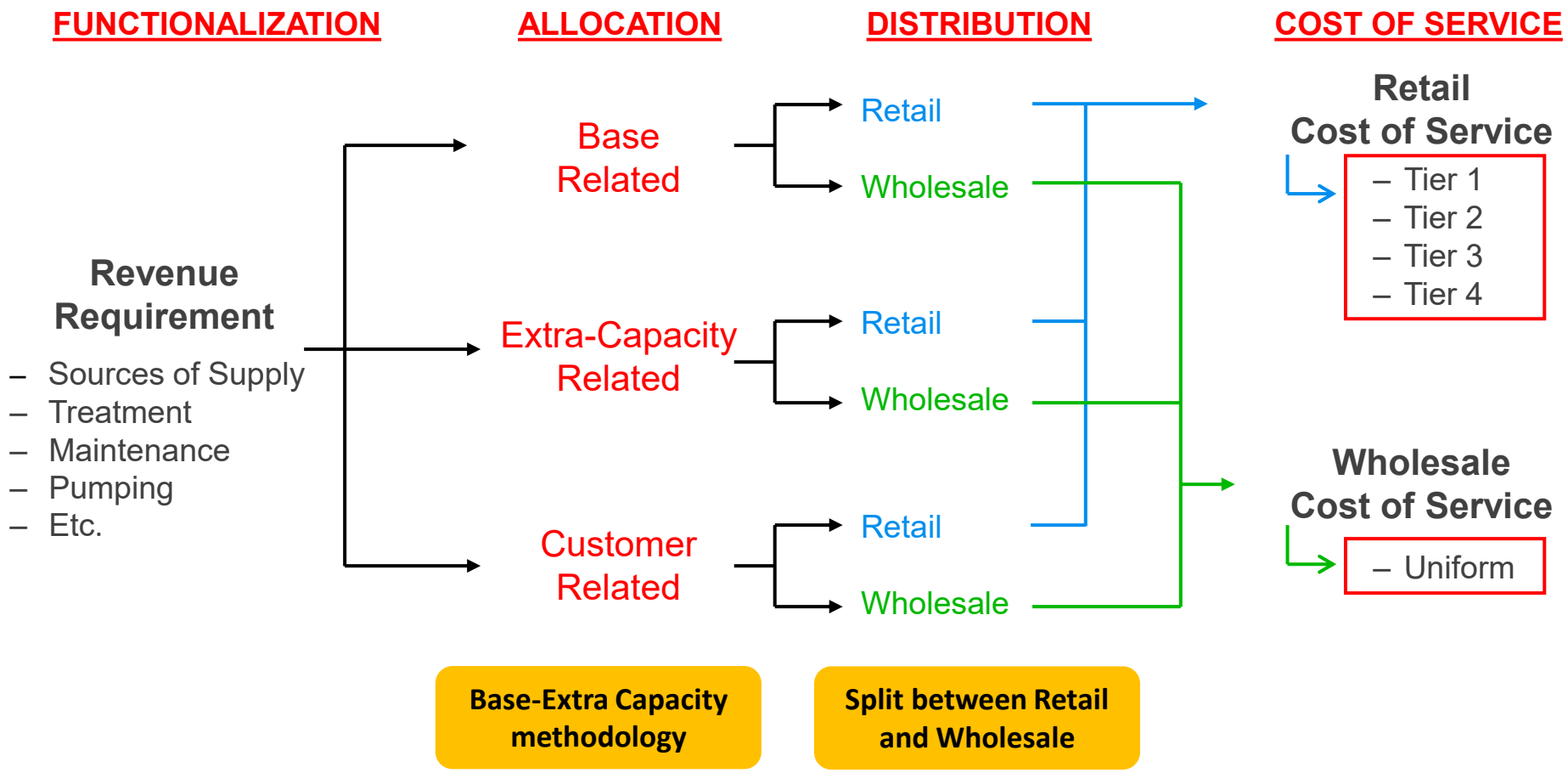
Uniform Wholesale Rates

Tiered Retail Rates

Monthly Base Charge/Flat Fee

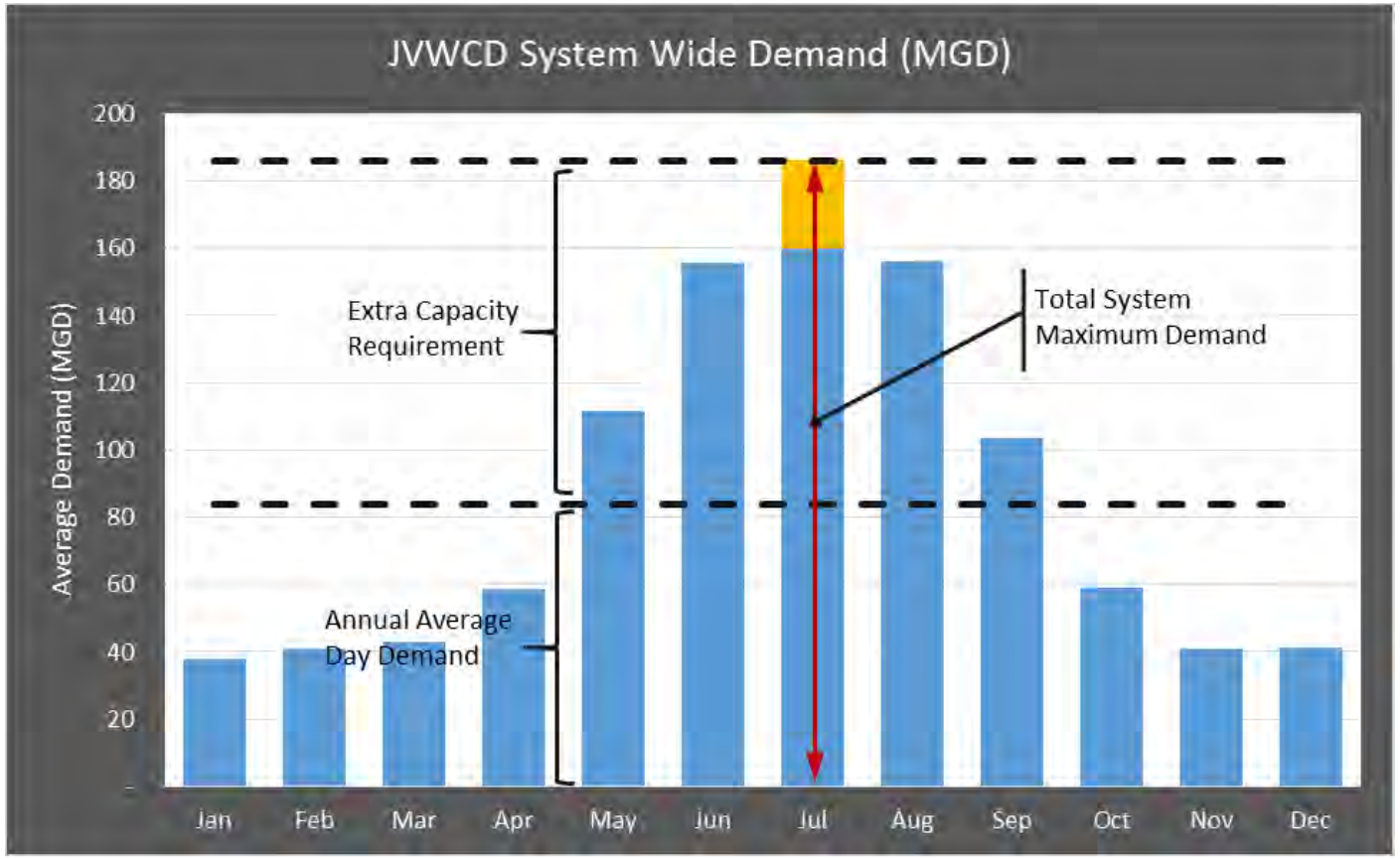
COST OF SERVICE ANALYSIS

Simplified Overview of a Cost of Service Analysis



2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

BASE-EXTRA CAPACITY METHOD



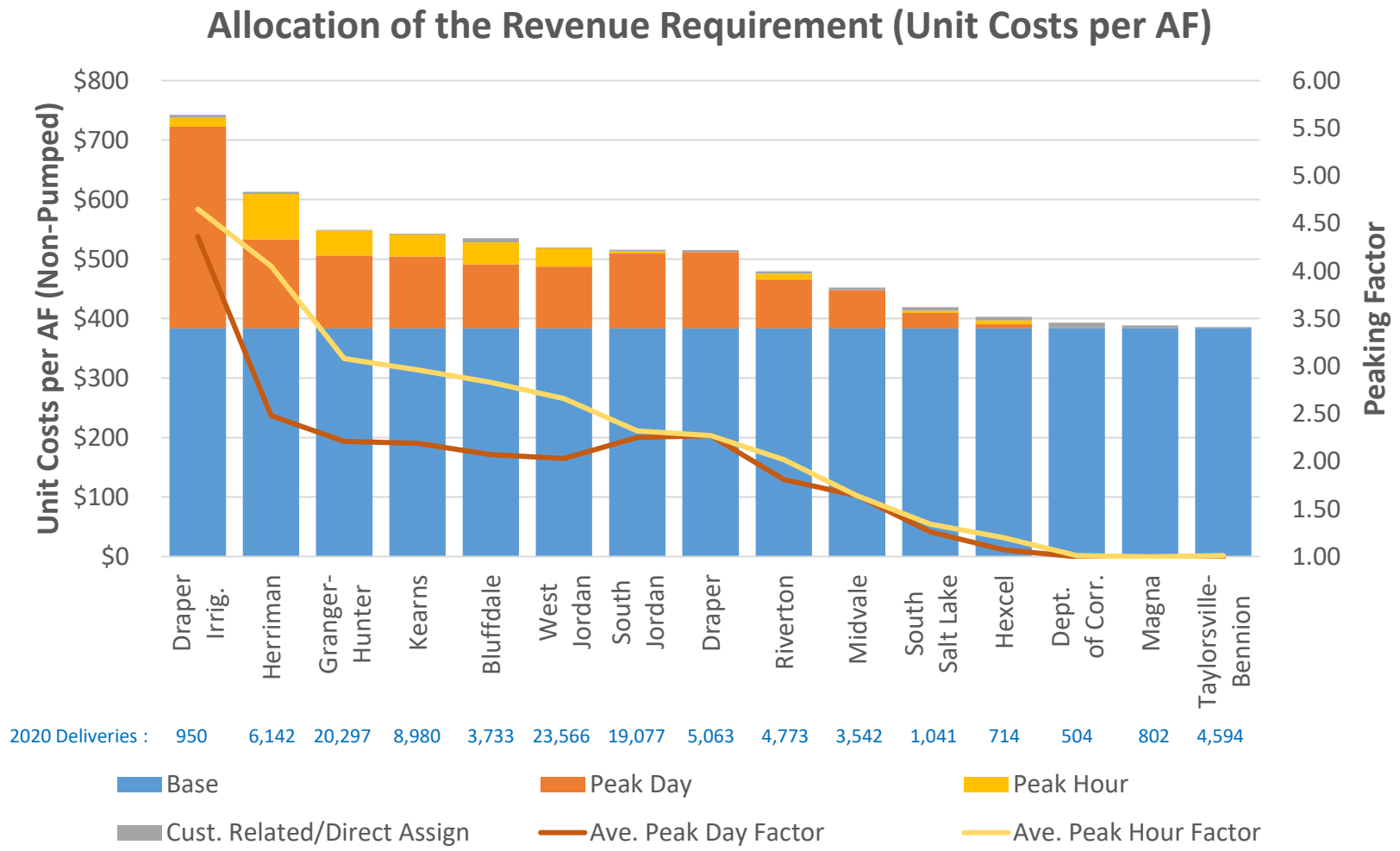
	NET REVENUE REQUIREMENT	RATE PER ACRE FOOT
CUST. RELATED & DIRECT ASGN	$1.1 million	Varies
EXTRA HOUR CAPACITY	$3.0 million	$0 - $76
EXTRA DAY CAPACITY	$12.4 million	$0 - $339
BASE	$40.5 million	$383
TOTAL REVENUE REQUIREMENT	$57.0 million	

BASE-EXTRA CAPACITY METHOD

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

BASE-EXTRA CAPACITY METHOD



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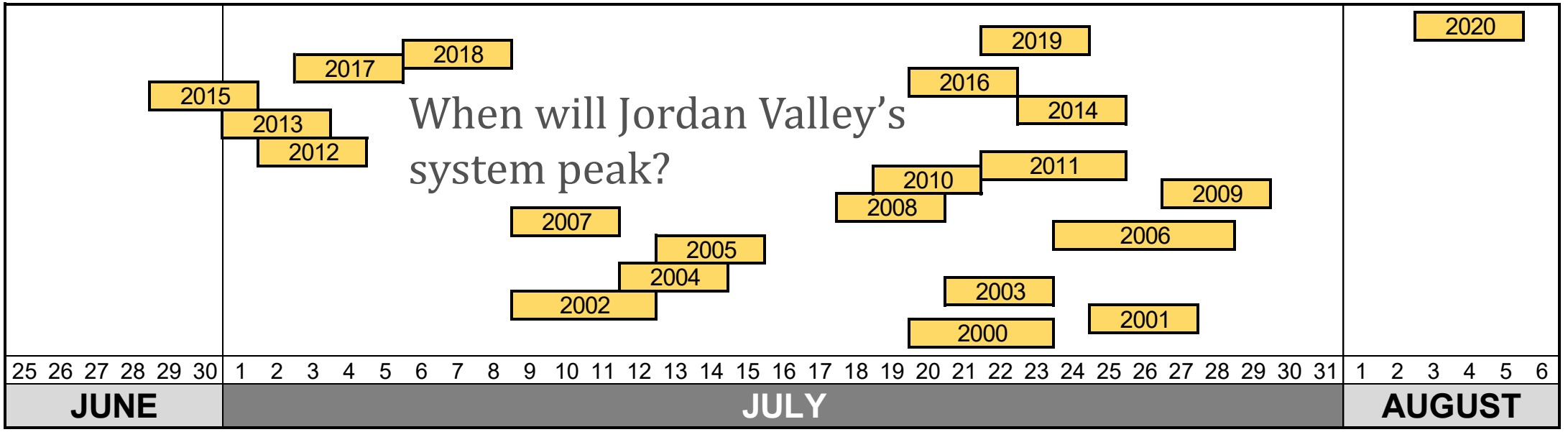
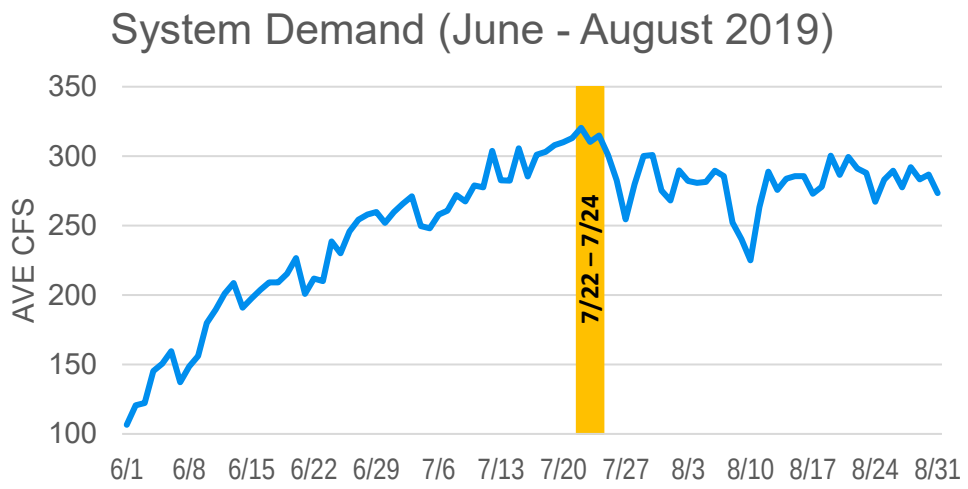
TOTAL REVENUE REQUIREMENT	$57.0 million	

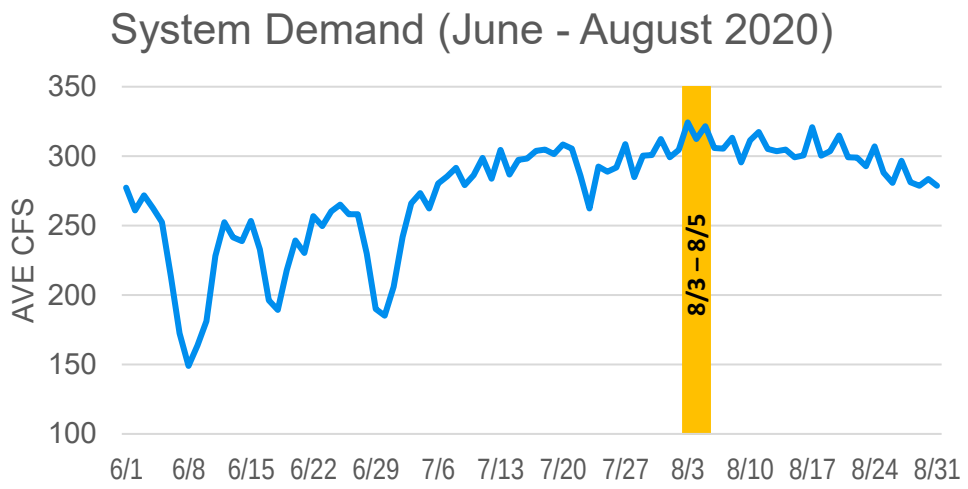
JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

PEAKING FACTORS







JORDAN VALLEY WATER CONSERVANCY DISTRICT

2021 Annual Member Agency Meeting
2021/2022 Tentative Water Rates

2021/2022 Water Rates

MONTHLY METER BASE CHARGE				
METER SIZE	20/21 RATES	21/22 RATES	$ CHANGE	% CHANGE
4”	$25	$25	$0	0.0%
6”	50	50	0	0.0%
8”	78	78	0	0.0%
10”	114	114	0	0.0%
12”	168	168	0	0.0%
14”	228	228	0	0.0%
16”	300	300	0	0.0%
18”	378	378	0	0.0%
20”	462	462	0	0.0%
24”	672	672	0	0.0%
30”	1,050	1,050	0	0.0%

PUMP ZONE SURCHARGE				
PUMP ZONE	20/21 RATES	21/22 RATES	$ CHANGE	% CHANGE
B North	$22.55	$22.62	$0.07	0.3%
B South	43.67	41.98	(1.69)	-3.9%
C South	59.22	60.43	1.21	2.0%
D South	103.64	105.76	2.12	2.0%
JVWTP	30.58	29.96	(0.62)	-2.0%

MEMBER AGENCY (Rate per Acre Foot)	PUMP ZONES	2020/2021 RATES	2021/2022 RATES	$ CHANGE	% CHANGE
Bluffdale	JVWTP	$518.59	$529.86	$11.27	2.2%
Draper City		502.19	513.17	10.98	2.2%
Draper Irrigation		654.85	739.56	84.71	12.9%
Granger-Hunter	B North	543.20	548.23	5.03	0.9%
Herriman	C South, D South	600.53	610.70	10.17	1.7%
Hexcel Corp.	B North	397.23	401.51	4.28	1.1%
Kearns	B North	521.50	540.75	19.25	3.7%
Magna Water	B North	380.15	386.26	6.11	1.6%
Midvale		413.81	449.14	35.33	8.5%
Riverton	C South	476.46	476.79	0.33	0.1%
South Jordan	B North/South, C South, D South	508.86	513.83	4.97	1.0%
South Salt Lake		394.36	416.56	22.20	5.6%
Utah Dept. of Corr.		380.30	386.72	6.42	1.7%
Taylorsville-Bennion	B North	378.92	384.34	5.42	1.4%
West Jordan	B North/South C South, D South	510.96	517.68	6.72	1.3%

BLOCK 2 WATER RATE	Plus Pumping	$1,038.65	$1,070.07	31.42	3.0%
BCWTP RATE		465.42	498.86	33.44	7.2%

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 Annual Member Agency Meeting

Financial Plan, Water Rates and Methodology

Current Billing Format

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

BILLING STATEMENT

8215 South 1300 West
West Jordan, UT 84088
Ph: 801.565.4300
www.jvwcd.org

Taylorsville-Bennion Imp. Dist.
P.O Box 18579
Taylorsville, Utah 84118-8579

ACCOUNT NUMBER	WATER SERVICE From	WATER SERVICE To	STATEMENT DATE
WSR-TB120	3/1/2021	3/31/2021	March 31, 2021

BILLING SUMMARY	AMOUNT
Previous Balance Due:	$173,403.66
Payment Received On: 3/15/21 Check #16458	($173,403.66)
Total Amount Past Due:	$0.00
Total Current Billing:	$198,017.75
Total Amount Due:	**$198,017.75**

	METER ADDRESS	METER NUMBER	READING - Gallons (000) Current	Previous	DELIVERIES Gallons (000)	Acre Feet	RATE PER ACRE FOOT	WATER DELIVERY CHARGES	FLAT RATE CHARGES
Zone A	1700 W. 4500 S.	TB010 (6"C)	17,993	17,993	0	0.00	$378.92	$0.00	$0.00
		Low	96	96	0	0.00	$378.92	$0.00	$0.00
	1700 W. 4500 S.	TB011 (6"C)	483,878	483,878	0	0.00	$378.92	$0.00	$0.00
		Low	402	402	0	0.00	$378.92	$0.00	$0.00
	2700 W. 4500 S.	TB020 (6")	79,850	79,850	0	0.00	$378.92	$0.00	$0.00
	2600 W. 6200 S.	TB030 (12")	1,257,612	1,167,381	90,231	276.91	$378.92	$104,926.74	$168.00
	3000 W. 6200 S.	TB150 (6")	377,660	377,660	0	0.00	$378.92	$0.00	$0.00
	6535 S. 1300 W.	TB160 (8"C)	603,285	603,285	0	0.00	$378.92	$0.00	$0.00
		Low	1,636	1,636	0	0.00	$378.92	$0.00	$0.00
Zone B North	3400 W. 6200 S.	TB040 (12")	1,687,349	1,612,202	75,147	230.62	$401.47	$92,587.01	$168.00
	5500 S. 4800 W.	TB050 (12")	1,781,929	1,781,929	0	0.00	$401.47	$0.00	$168.00
	3200 W. 6200 S.	TB140 (6")	97,123	97,123	0	0.00	$401.47	$0.00	$0.00
	3200 W. 6200 S.	TB141 (6")	158,627	158,627	0	0.00	$401.47	$0.00	$0.00
	TOTAL CONTRACT WATER DELIVERED & FLAT RATE CHARGES:				**165,378**	**507.53**		**$197,513.75**	**$504.00**
	TOTAL CURRENT BILLING:								**$198,017.75**

YEAR-TO-DATE BILLING COMPARISON

	AF Contracted	AF Used for Month	AF Used YTD	% of Contract Used YTD
Current Year	4,700	507.53	1,433.76	30.51%
Prior Year	4,700	490.56	1,334.47	28.39%

New Billing Format

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

WHOLESALE INVOICE

8215 South 1300 West
West Jordan, UT 84088
Ph: 801.565.4300

Taylorsville-Bennion Improvement District
P.O Box 18579
Taylorsville, Utah 84118-8579

ACCOUNT NO.	WATER SERVICE From	WATER SERVICE To	INVOICE DATE
WSR-TB120	3/1/2021	3/31/2021	March 31, 2021

BILLING SUMMARY	AMOUNT
Previous Balance Due:	$173,403.66
Payment Received On: 3/15/21 Check #16458	($173,403.66)
Total Amount Past Due:	$0.00
Adjustment:	$0.00
Total Current Invoice:	$198,016.57
Total Amount Due:	**$198,016.57**

WATER DELIVERED AND METER BASE CHARGES

	METER ADDRESS	METER NUMBER	METER SIZE (INCH)	ACRE FEET DELIVERED	METER BASE CHARGES
Zone A	1700 W. 4500 S.	TB010	6	0.000	$0.00
	1700 W. 4500 S.	TB010 Low	0	0.000	$0.00
	1700 W. 4500 S.	TB011	6	0.000	$0.00
	1700 W. 4500 S.	TB011 Low	0	0.000	$0.00
	2700 W. 4500 S.	TB020	6	0.000	$0.00
	2600 W. 6200 S.	TB030	12	276.909	$168.00
	3000 W. 6200 S.	TB150	6	0.000	$0.00
	6535 S. 1300 W.	TB160	8	0.000	$0.00
	6535 S. 1300 W.	TB160 Low	0	0.000	$0.00
Zone B North	3400 W. 6200 S.	TB040	12	230.618	$168.00
	5500 S. 4800 W.	TB050	12	0.000	$168.00
	3200 W. 6200 S.	TB140	6	0.000	$0.00
	3200 W. 6200 S.	TB141	6	0.000	$0.00
	TOTAL WATER DELIVERED AND METER BASE CHARGES:			**507.527**	**$504.00**

WATER PURCHASE AND PUMPING CHARGES

	RATE (ACRE FOOT)	ACRE FEET DELIVERED	AMOUNT
Water Purchase Charges:			
Minimum Purchase Contract	$378.92	507.527	$192,312.13
20% Over Minimum Purchase Contract	$378.92	0.000	$0.00
Block 2 Water	$1,038.65	0.000	$0.00
Subtotal		**507.527**	**$192,312.13**
Pumping Charges:			
Zone A (Non-pumped)	$0.00	276.909	$0.00
Zone B North	$22.55	230.618	$5,200.44
Subtotal		**507.527**	**$5,200.44**
TOTAL METER BASE, WATER PURCHASE AND PUMPING CHARGES:			**$198,016.57**

MONTHLY AND YEAR-TO-DATE DELIVERIES (ACRE FEET)

	Contracted	Monthly	YTD	YTD % of Contract
Minimum Purchase Contract	4,700	507.527	1,433.763	30.51%
Block 2 Water	0	0.000	0.000	0.00%
Total	**4,700**	**507.527**	**1,433.763**	

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 Annual Member Agency Meeting
Financial Plan, Water Rates and Methodology

Slides beyond this point are included to provide added explanation and updated information on the water rate setting process, methodology, and the 2021/2022 water rates.

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

REVENUE REQUIREMENT – OVERVIEW

Compares revenues to expenses	• Determines the level of revenue adjustment necessary • Revenues (rates) need to support operations and capital
Uses prudent financial planning criteria	• Adequate funding for renewal and replacement • Maintain prudent reserve levels • Meet debt service coverage ratios (legal requirement)
Reviews a specific time period	• Typically a 10-year period for the District
Utilizes the “cash basis” methodology	• Generally accepted method for municipal utilities • Historical Jordan Valley approach to establish water rates

Jordan Valley's Revenue Requirement – Summary

- Rate revenues projected to be deficient during the 10-year review period
  - Tentatively approved 2.0% overall adjustment to rates followed by 2-3% thereafter
  - Use of revenue stabilization fund is a one-time reduction to rates
  - Future revenue adjustments may vary depending on actual operational results
- Annual deficiencies are primarily the result of:
  - Inflationary increases to O&M expenses
  - Prudent funding of capital through rates
  - Annual debt service payments
  - Maintaining adequate debt service coverage ratios
- An annual adjustment to rates has been Jordan Valley's historical rate-setting philosophy

USE OF RATE INCREASE
(4-Year Average)

COST OF SERVICE ANALYSIS

Cost of Service Analysis

What is cost of service?

- Analysis to equitably allocate the revenue requirement to the various customers (Retail and individual wholesale Member Agencies)

Why cost of service?

- Generally accepted as “fair and equitable”
- Avoids subsidies
- Revenues track costs
- Provides an accurate price signal

Objectives of cost of service

- Determine if subsidies exist
- Develop average unit costs

COST OF SERVICE ANALYSIS

Jordan Valley's Cost of Service – Summary

- Updated to reflect current customer characteristics and system operations
- Rate adjustments are within acceptable range based on a 2.0% overall revenue adjustment
  - +/- 5% of the system total
  - Few exceptions, based on changes in peaking factors
- Retail and Member Agency impacts reflect system use and peaking requirements
  - 2.0% adjustment for overall system
  - Wholesale – Member Agency range from 0.1% to 12.9%
  - Retail – retail customers receive 1.0% adjustment
- Pumping costs are directly assigned (zones)

BASE-EXTRA CAPACITY METHOD

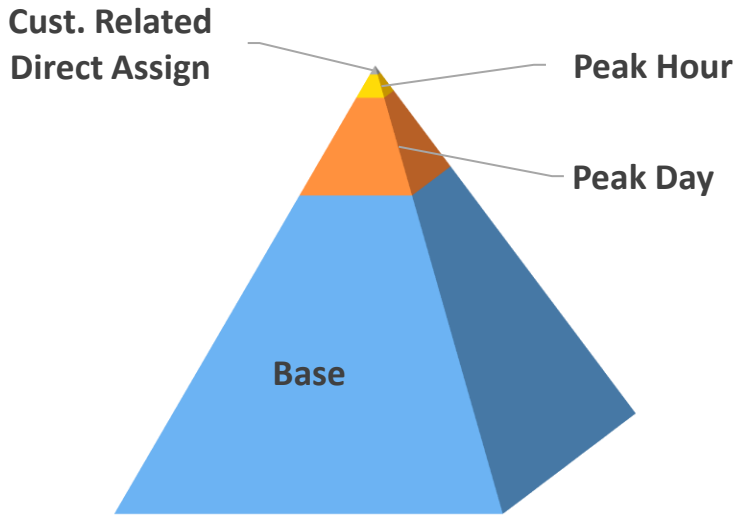
Base-Extra Capacity Method

Costs of service are separated into primary cost components:

1. **Base** – Costs associated with service to customers under average load conditions (to meet average demand)

2. **Extra capacity** (peak day, peak hour) – Costs associated with meeting rate of use requirements in excess of average

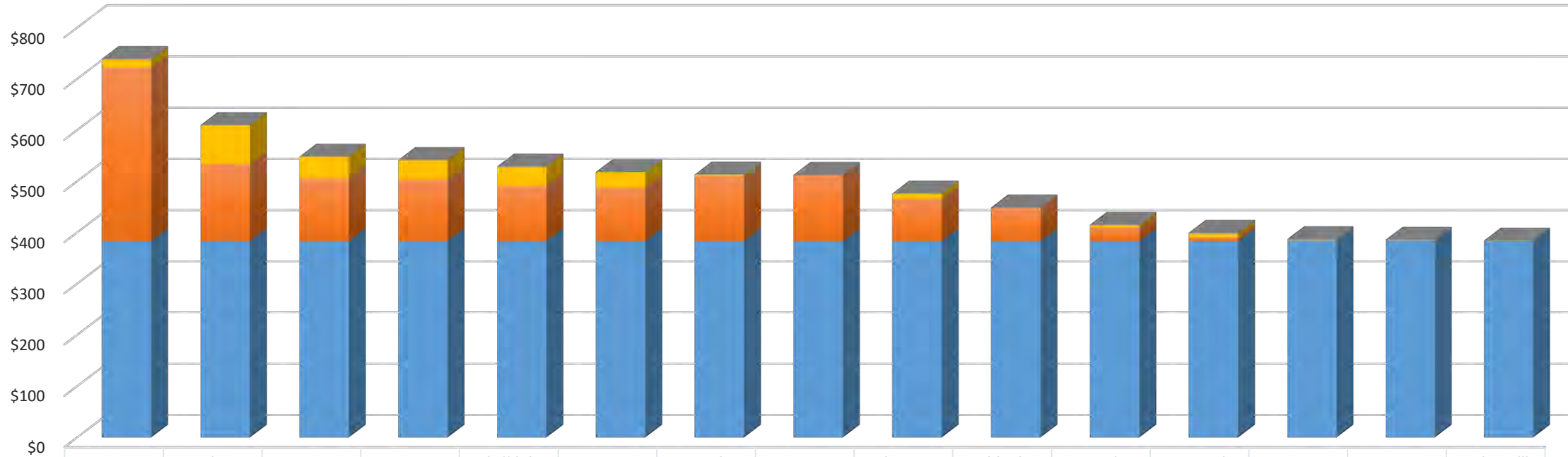
3. **Customer costs and direct assign** – Costs associated with serving customers, irrespective of the amount or rate of water use (allocated based on number of meters or directly assigned)



2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

BASE-EXTRA CAPACITY METHOD

Wholesale Unit Cost by Component ($/acre foot)

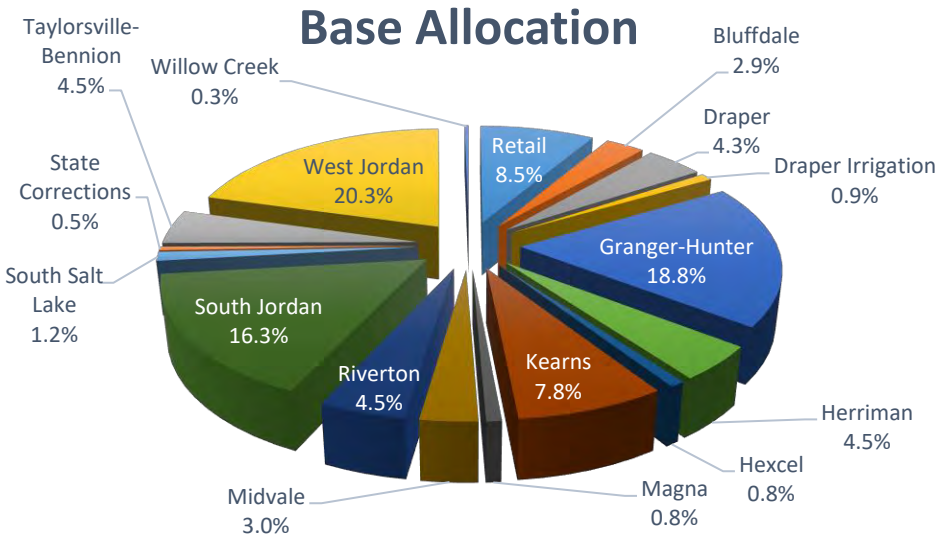


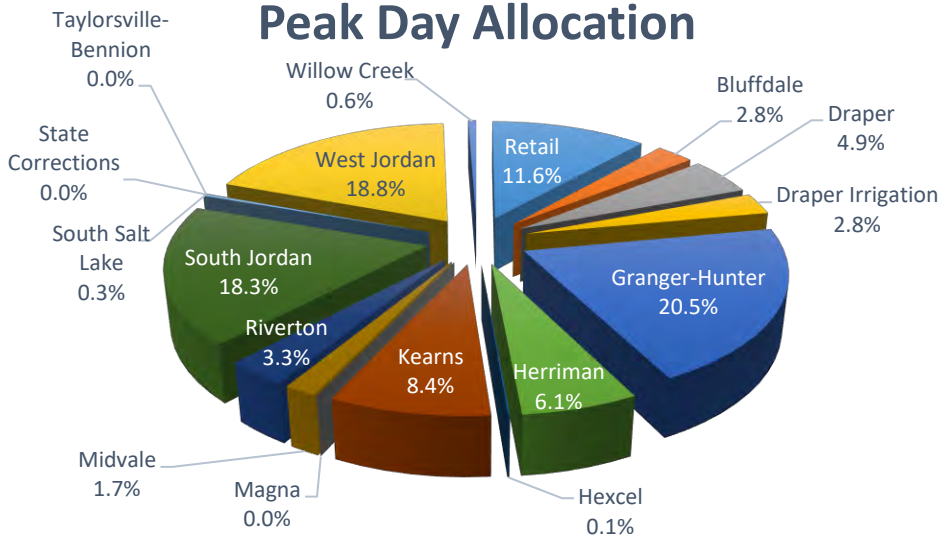
	Draper Irrigation	Herriman	Granger-Hunter	Kearns	Bluffdale	West Jordan	South Jordan	Draper City	Riverton	Midvale	South Salt Lake	Hexcel Corp.	Dept. of Corr.	Magna Water	Taylorsville-Bennion
Fire/Rev/DA	$2.03	$0.41	$0.10	$0.24	$0.63	$0.09	$0.11	$0.43	$0.41	$0.63	$1.53	$2.31	$3.47	$2.41	$0.41
Extra Hour Capacity	$14.43	$76.28	$42.18	$37.23	$37.02	$30.74	$3.26	$0.00	$9.98	$0.00	$3.89	$6.49	$0.32	$0.00	$0.34
Extra Day Capacity	$339.36	$149.78	$122.42	$120.60	$107.73	$103.92	$126.37	$128.67	$82.22	$64.73	$26.15	$7.08	$0.00	$0.00	$0.00
Base	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31	$383.31

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

BASE-EXTRA CAPACITY METHOD

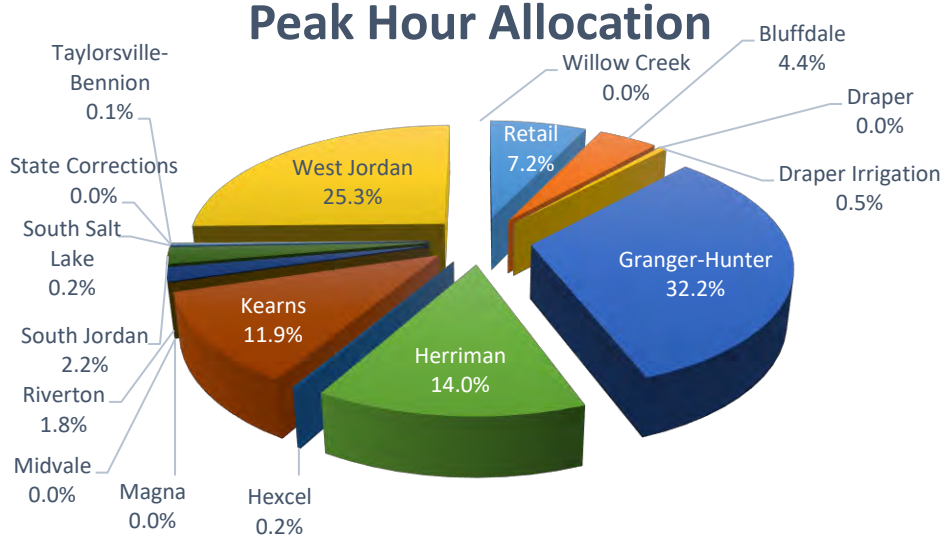




Splitting the Pie

Base Allocation – based on deliveries

Peak Day/Hour Allocation – based on how Jordan Valley's system is used (Peaking Factors)



PEAKING FACTORS

Peaking Factors

Peaking factors are used to allocate Jordan Valley's system costs related to the delivery of extra-capacity demand

$$\frac{\text{PEAK DEMAND}}{\text{AVERAGE DEMAND}} = \text{PEAKING FACTOR}$$

- Extra-capacity costs are defined as those costs related to meeting demands over and above average (base) demands
  - Peak day extra demand
  - Peak hour demand in excess of peak day demand
- Member Agency's peak demands are measured and then averaged over a 3-day period, when Jordan Valley's system-wide peak demand occurs
- A Member Agency's peaking factor is the ratio of peak uses of water to its average uses of water
- A factor of 2.0 means that peak demand is twice the average

JORDAN VALLEY WATER CONSERVANCY DISTRICT

2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

PEAKING FACTORS

PEAK DAY

Peak day period:	Actual Peak DAY Factor 7/20-7/22	7/3-7/5	7/6-7/8	7/22-7/24	8/3-8/5	Average Peak DAY Factor (for FY) *Average of the lowest 3 of last 4 years*	
Member Agency	**2016**	**2017**	**2018**	**2019**	**2020**	**20/21**	**21/22**
Bluffdale	2.58	2.01	2.17	2.59	2.02	2.25	2.07
Draper	2.51	2.42	2.15	2.70	2.25	2.36	2.27
Draper Irr.(WaterPro)	3.90	3.43	5.51	4.38	5.26	3.90	4.36
Granger-Hunter	2.30	2.39	2.33	2.27	2.03	2.30	2.21
Herriman	2.99	2.72	2.62	2.64	2.19	2.66	2.48
Hexcel Corp.	1.00	1.00	1.22	1.21	1.00	1.07	1.07
Kearns	2.28	2.30	2.08	2.46	2.20	2.22	2.19
Magna Water	1.00	1.00	1.00	1.06	1.00	1.00	1.00
Midvale	1.00	1.00	2.96	2.14	1.78	1.38	1.64
Riverton	2.93	1.89	1.91	1.89	1.66	1.90	1.81
South Jordan	2.53	2.35	2.29	2.67	2.11	2.39	2.25
South Salt Lake	1.00	1.84	1.10	1.06	1.62	1.05	1.26
Utah Dept. of Corr.	1.00	1.00	1.00	1.08	1.00	1.00	1.00
Taylorsville-Bennion	1.00	1.00	1.00	1.00	1.01	1.00	1.00
West Jordan	2.36	2.31	1.84	2.45	1.93	2.17	2.03
JVWCD Retail System	3.19	2.02	2.02	2.25	1.85	2.10	1.96

PEAK HOUR

	Actual Peak HOUR Factor 7/20-7/22	7/3-7/5	7/6-7/8	7/22-7/24	8/3-8/5	Average Peak HOUR Factor (for FY) *Average of the lowest 3 of last 4 years*	
	2016	**2017**	**2018**	**2019**	**2020**	**20/21**	**21/22**
Bluffdale	3.23	2.01	3.99	3.29	3.18	2.84	2.83
Draper	2.51	2.42	2.15	2.70	2.25	2.36	2.27
Draper Irr.(WaterPro)	3.91	4.09	6.18	4.61	5.26	4.20	4.65
Granger-Hunter	3.63	3.58	3.64	3.01	2.64	3.41	3.08
Herriman	4.36	4.44	4.25	4.29	3.61	4.30	4.05
Hexcel Corp.	1.42	1.40	1.47	1.21	1.00	1.34	1.20
Kearns	2.76	3.10	3.16	3.23	2.62	3.01	2.96
Magna Water	1.57	1.00	1.00	1.06	1.00	1.02	1.00
Midvale	1.12	1.00	10.15	2.14	1.78	1.42	1.64
Riverton	3.27	2.14	2.56	2.15	1.77	2.28	2.02
South Jordan	3.09	2.35	2.29	2.83	2.31	2.49	2.32
South Salt Lake	1.47	1.84	1.34	1.06	1.62	1.29	1.34
Utah Dept. of Corr.	1.00	1.02	1.00	1.08	1.00	1.01	1.01
Taylorsville-Bennion	1.12	1.00	1.30	1.00	1.02	1.04	1.01
West Jordan	2.77	3.14	2.71	2.98	2.29	2.82	2.66
JVWCD Retail System	3.84	2.27	2.23	2.41	2.03	2.30	2.18

COST OF SERVICE ANALYSIS - RESULTS

Cost of Service Analysis (COSA) Results – Proposed Adjustment

COSA	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	Proposed COSA Adj 21/22	10 YR AVE
Average Rate Adjustment	**5.0%**	**5.0%**	**4.0%**	**5.0%**	**4.0%**	**3.5%**	**3.5%**	**1.5%**	**0.0%**	**2.0%**	**3.4%**
Bluffdale	5.5%	5.2%	2.4%	4.5%	2.3%	2.8%	-1.5%	2.2%	1.8%	2.2%	2.7%
Draper City	5.4%	1.3%	3.7%	1.4%	0.7%	2.0%	3.5%	0.1%	1.9%	2.2%	2.2%
Draper Irrigation	6.1%	0.0%	7.6%	4.1%	3.3%	2.8%	-0.4%	3.2%	-0.5%	12.9%	3.9%
Granger-Hunter	3.7%	4.6%	3.9%	4.4%	5.7%	3.4%	4.7%	1.8%	-2.3%	0.9%	3.1%
Herriman	2.6%	0.7%	3.7%	2.7%	6.1%	3.3%	2.8%	1.7%	-1.2%	1.7%	2.4%
Hexcel	0.9%	8.2%	3.5%	3.4%	1.3%	3.2%	3.9%	2.1%	-1.9%	1.1%	2.6%
Kearns	5.9%	3.1%	2.6%	3.6%	4.0%	2.0%	4.5%	0.8%	-0.3%	3.7%	3.0%
Magna	2.6%	5.6%	4.0%	1.7%	0.6%	1.3%	3.9%	1.0%	-0.5%	1.6%	2.2%
Midvale	0.0%	5.2%	7.7%	2.8%	-0.7%	2.0%	-0.1%	0.9%	8.6%	8.5%	3.5%
Riverton	4.8%	9.1%	4.4%	-0.7%	5.3%	8.3%	2.6%	9.6%	-3.7%	0.1%	4.0%
South Jordan	4.4%	3.7%	3.5%	4.6%	2.9%	3.2%	0.5%	0.3%	-0.1%	1.0%	2.4%
South Salt Lake	2.0%	4.0%	6.0%	3.4%	1.4%	3.2%	8.3%	2.9%	-5.0%	5.6%	3.2%
State Corrections	0.0%	7.0%	5.5%	2.9%	2.0%	1.6%	2.0%	0.0%	-0.5%	1.7%	2.2%
Taylorsville-Bennion	0.0%	1.6%	-4.5%	0.8%	0.8%	1.7%	2.9%	1.3%	-0.3%	1.4%	0.6%
West Jordan	4.8%	8.3%	4.4%	6.1%	3.5%	1.7%	3.5%	-0.3%	-0.6%	1.3%	3.3%
Retail	8.5%	6.5%	5.6%	8.6%	3.1%	5.4%	4.1%	1.0%	2.2%	1.0%	4.6%

JORDAN VALLEY WATER
CONSERVANCY DISTRICT

2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

Water Rate Influences

REVENUE REQUIREMENT

JORDAN VALLEY WATER

- Operation & Maintenance budget
- Planning and funding of capital improvements
  - Rate funded
  - Bonds – debt service
- Financing reserve funds
- Property tax revenue and tax rate increases
- Conservation goals

EXTERNAL INFLUENCES

- Economy (inflation, recession)
- Drought / Climate change
- Compliance standards
- Legislative changes

ALLOCATION OF COSTS

MEMBER AGENCY (INDIVIDUAL)

- Minimum purchase contract
- Actual annual water deliveries
- Extra-capacity demand – peak day/hour flows
- Number of meters and meter capacity
- Conservation efforts

MEMBER AGENCIES (GROUP)

- Jordan Valley's system-wide peak (3-day period) is determined by Member Agencies as a group
- One Member Agency's increase/decrease of its peak day/hour factor shifts the cost allocation for the entire group

2021 ANNUAL MEMBER AGENCY MEETING
Financial Plan, Water Rates and Methodology

Water Rate Influences

REVENUE REQUIREMENT

2.0% Average Water Rate Adjustment

Increased costs of operation

Proposed property tax rate increase and use of Revenue Stabilization Fund (prior year revenues used as offset)

ALLOCATION OF COSTS

+/- 5% of Average

Shifting of peaking factors

Changes in projected water sales

Water Rate Design & Remaining Timeframe

- 2021/2022 water rates:
  - Monthly base charge/flat fee
  - Pumping costs are directly assigned (zones)
  - Uniform wholesale rates – Block 1 and Block 2
  - Tiered retail rates (changed to 4 tiers)
- Tentative water rates were approved 4/14/2021
- Public hearing is scheduled 5/12/2021 at 6:00 p.m.
- Final water rates to be approved/adopted 6/9/2021
- Effective 7/1/2021

JORDAN VALLEY WATER CONSERVANCY DISTRICT

Annual Member Agency Meeting
April 21, 2021

Legislative Issues

BART FORSYTH

GENERAL MANAGER

APRIL 21, 2021

Legislative Issues

The 2021 general legislative session dealt with several water issues, including:

- HB 13: School and Child Care Center Water Testing (did not pass)
- HB 14 : Water Conservancy District Amendments (passed)
- HB 29S1: Statewide Aquatic Invasive Species Emergency Response Plan (passed)

Legislative Issues, cont.

- HB 98: Local Government Building Regulation (passed, then vetoed)
- HB 107: Subdivision Plat Amendments (passed)
- HB 121: Local District Amendments (passed)
- HB 144: Water Pricing Structure (did not pass)
- HB 208: Water Quality Act Amendments (passed)
- HB 297: Colorado River Amendments (passed)

Legislative Issues, cont.

- HB 364: Utah Lake Authority (did not pass)
- SB 96: Legislative Water Development Commission Amendments (passed)
- SB 199: Water Amendments (passed)

HB 98: Local Government Building Regulation

Sponsor: Rep. Paul Ray (passed, then vetoed)

Topic: Under certain conditions, allows a building permit applicant to opt out of local building inspections and plan review requirements

<u>Impacts to JVWCD Member Cities:</u>

- Applies to one- or two-family dwellings or town homes
- Land use authorities have 14 days to review plans and essentially have one chance to review with some limited options for re-submittal

HB 98: Local Government Building Regulation , cont.

- Developers can hire their own independent inspector to inspect and issue certificate of occupancy if land use authority can’t do inspections within three days

HB 297: Colorado River Amendments

Sponsor: Rep. Brad R. Wilson and Senator J. Stuart Adams (passed)

Topic: Creates a six-member Colorado River Authority

Impacts to JVWCD Member Cities:

- Mission of the Authority is to protect, conserve, use, and develop Utah waters of the Colorado River
- Five members of Authority represent county areas that have historically received Colorado River water
- One member represents the governor

HB 364: Utah Lake Authority

Sponsor: Rep. Brady Brammer (did not pass)

Topic: Creates a Utah Lake Authority

Impacts to JVWCD Member Cities:

- Purpose is to work with stakeholders to, among other things, rehabilitate the lake and its waters and maximize the long-term viability and health of the lake to produce economic, aesthetic, recreational, and other public benefits
- Governed by a 14-member Board

HB 364: Utah Lake Authority, cont.

- Replaces the Utah Lake Commission
- Would have exclusive land use authority over the land beneath the lake

SB 199: Water Amendments

Sponsor: Senator Michael K. McKell (passed)

Topic: Primarily provides for a grant program to assist with secondary water meter installations

Impacts to JVWCD Member Agencies:

- Grants may be available only to small secondary water retail providers (5,000 or fewer customers)
- Matching grants not to exceed 50% of the cost of installation
- $2 million fiscal note


PREPARE
60
SECURING UTAH'S
ECONOMIC FUTURE

Prepare60 is the center established by Utah's four largest water conservancy districts to protect what we have, use it wisely, and provide for the future.

More than 85% of the state's population resides within the boundaries of the four water districts.

CENTRAL UTAH WATER CONSERVANCY DISTRICT

JORDAN VALLEY WATER CONSERVANCY DISTRICT

WEBER BASIN WATER CONSERVANCY DISTRICT

WASHINGTON COUNTY WATER CONSERVANCY DISTRICT

Prepare60 Focus

Repair and replace aging infrastructure

Reduce water use; adopt water efficiency standards

Develop infrastructure to meet demand

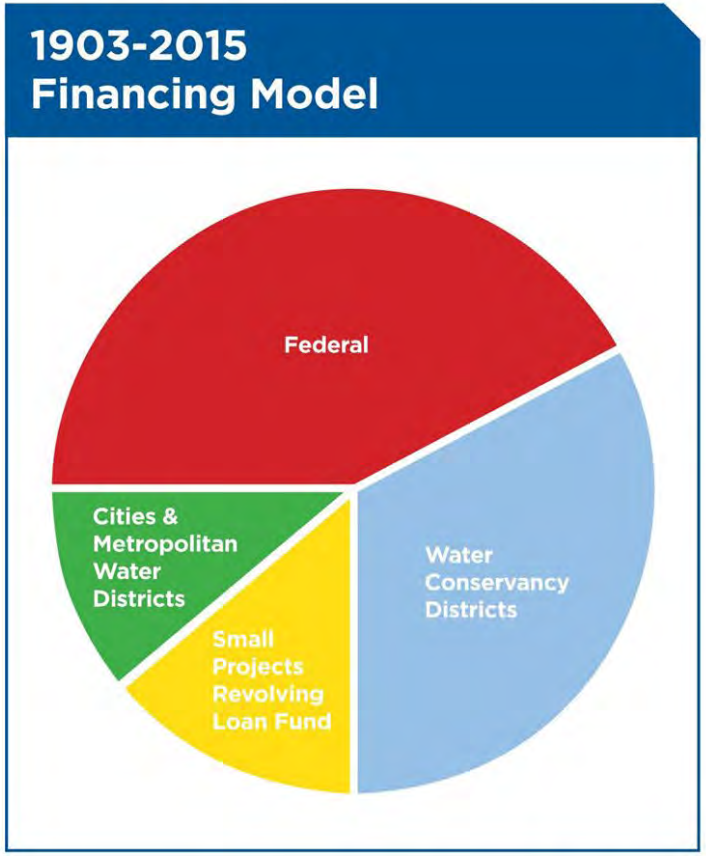
Roles in Water Systems

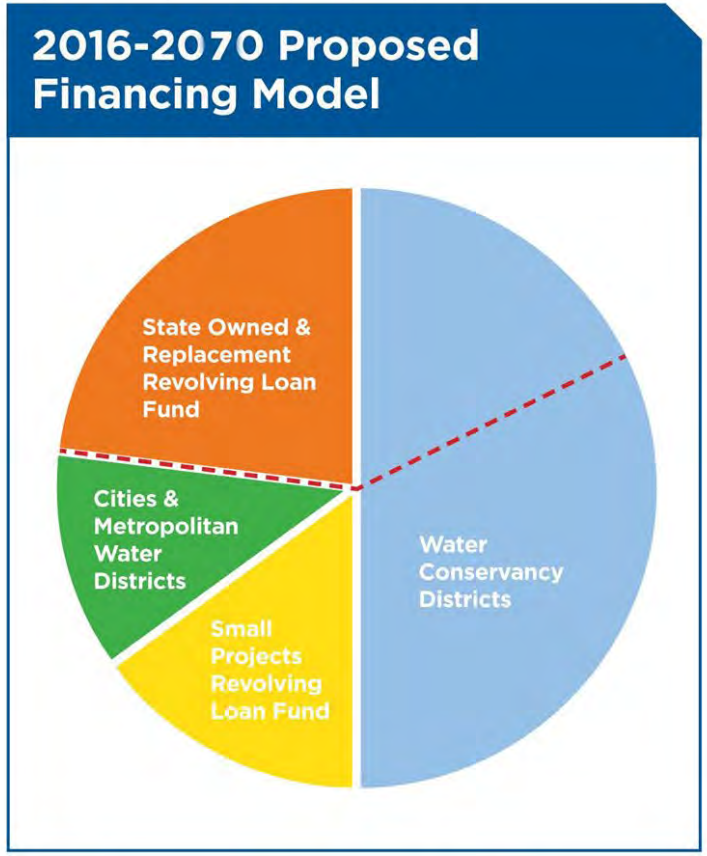
Federal: Primarily played a financing role in the past, but funding is dwindling

State: Primarily played a planning and regulatory role; must now fill financing gap

Local: Primary interface of water systems for end users

Financing

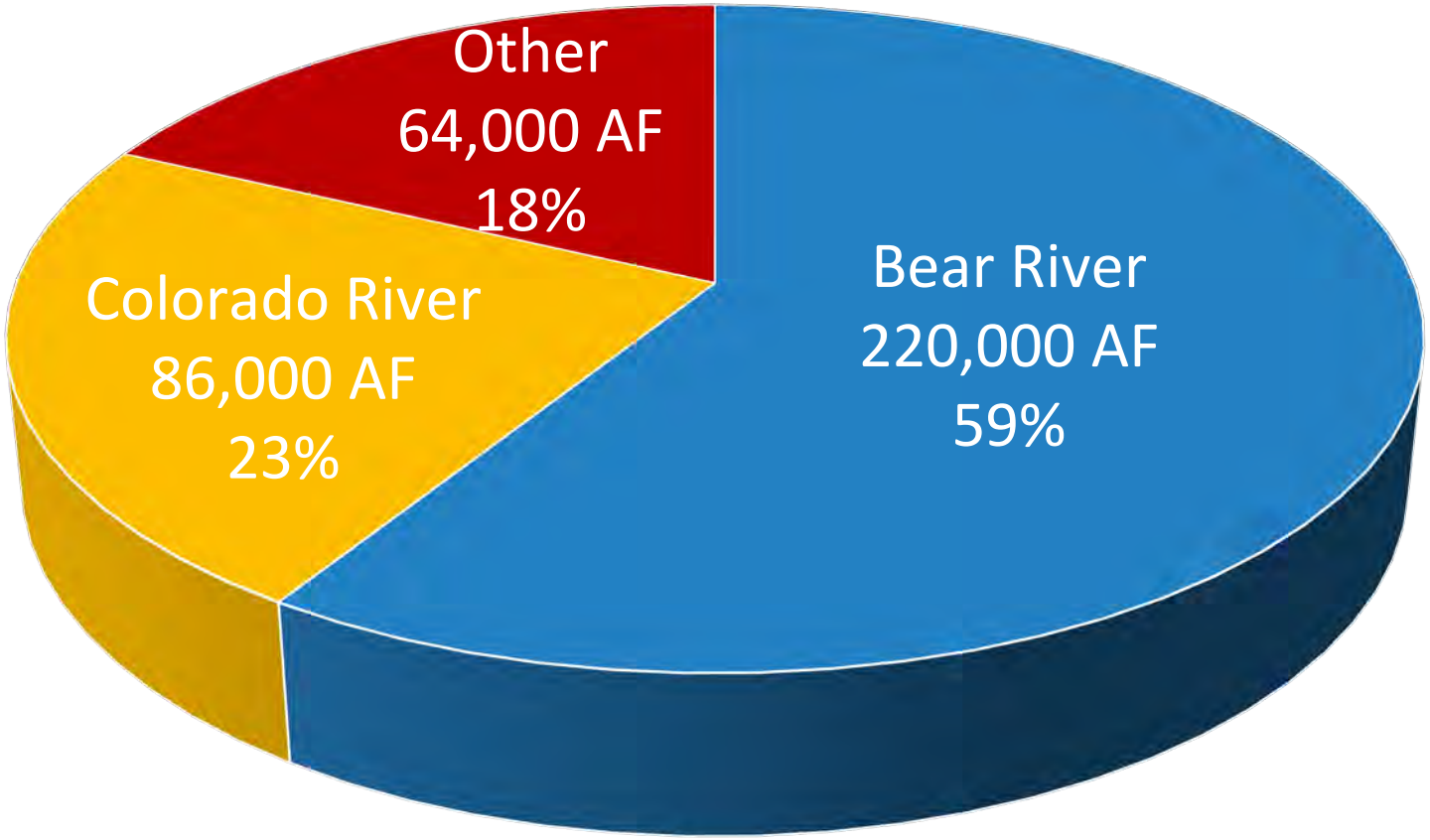




How much will be paid by the end water user?

ALL OF IT!

PREPARE 60
SECURING UTAH'S ECONOMIC FUTURE



New water supply sources

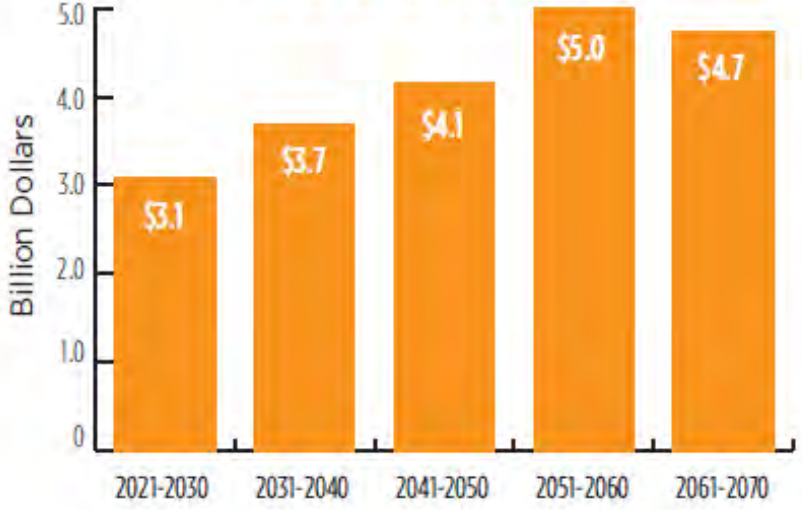
Planning for the Future

PREPARE 60
SECURING UTAH'S ECONOMIC FUTURE

ESTIMATED STATEWIDE INFRASTRUCTURE COSTS $38 BILLION

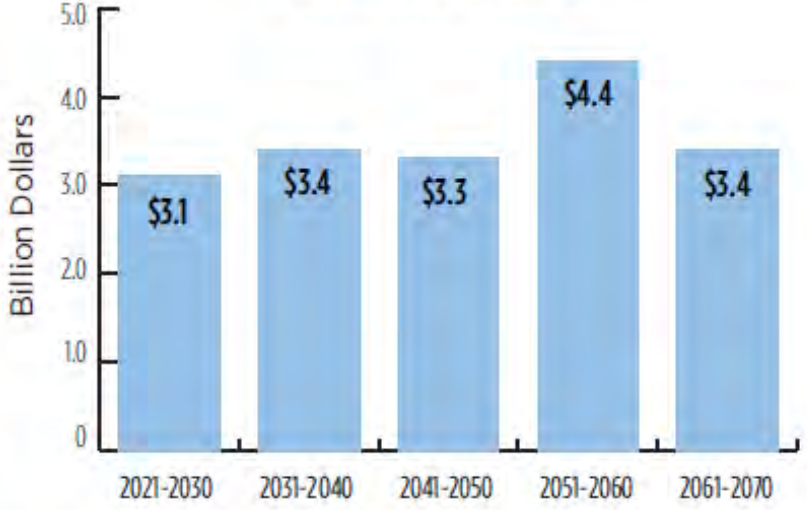
REPAIR & REPLACEMENT OF AGING INFRASTRUCTURE

$20.6 BILLION



NEW INFRASTRUCTURE, WATER SUPPLIES, and WATER SUPPLIER CONSERVATION COSTS

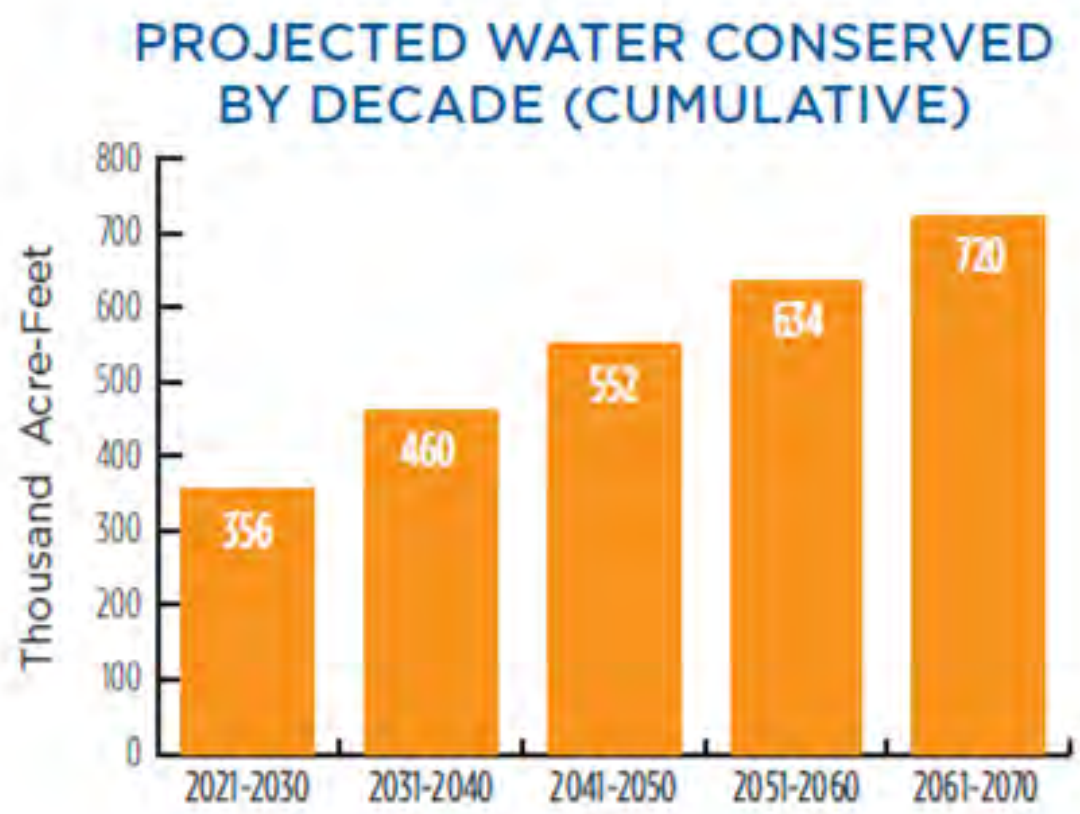
$17.6 BILLION

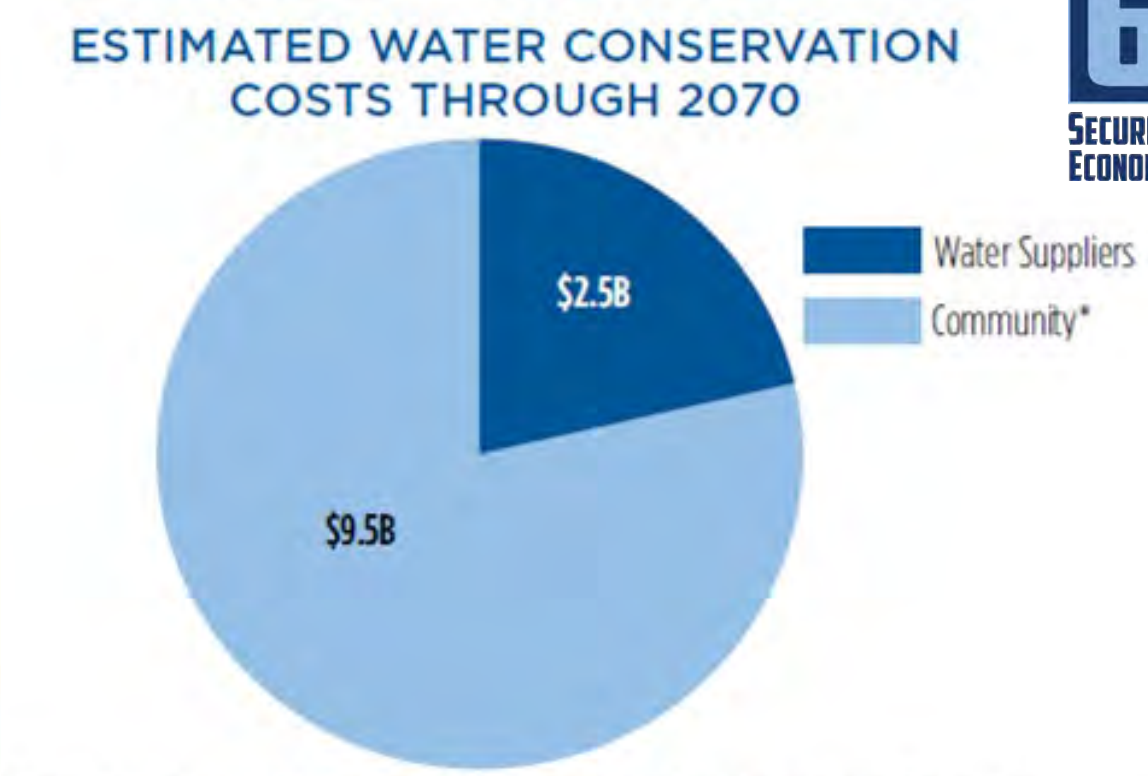


Statewide cost projections by decade in billions of dollars,
not including **$9.5 billion** in conservation costs paid by businesses and homeowners.

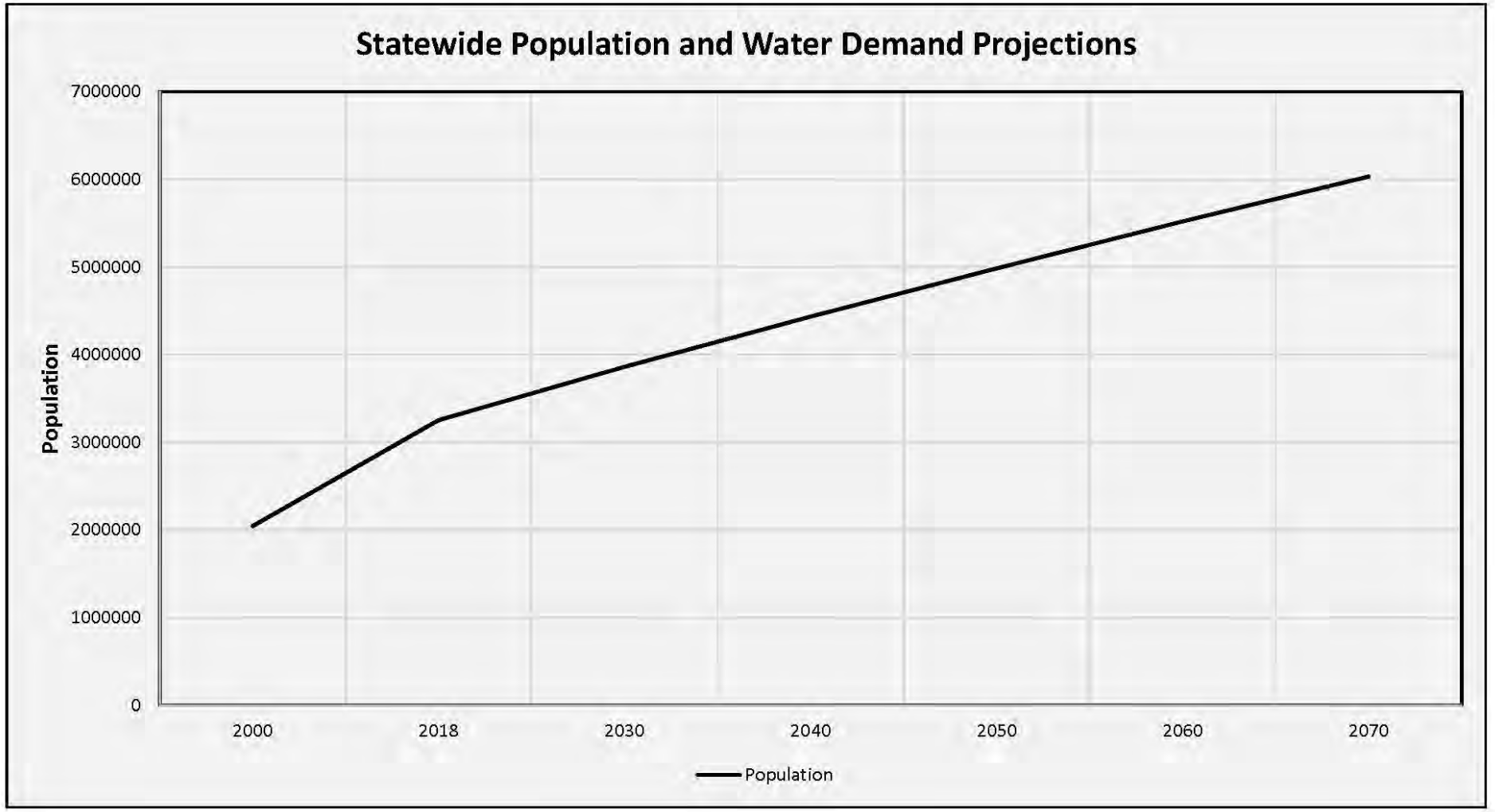
Water Conservation

PREPARE 60
SECURING UTAH'S ECONOMIC FUTURE





*Community investment includes costs to home and business owners for water conservation efforts, such as landscape/irrigation alterations or indoor plumbing changes.



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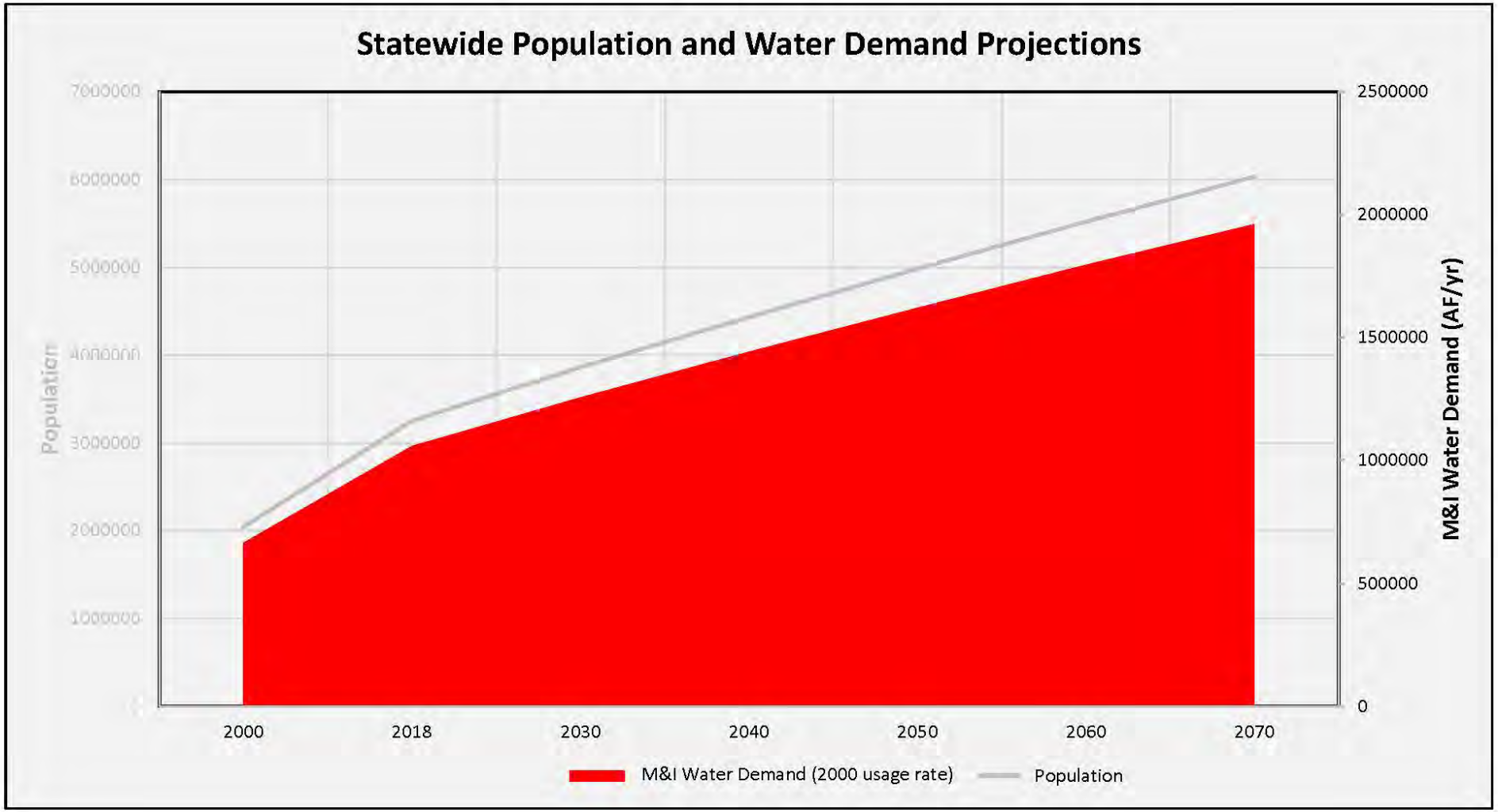
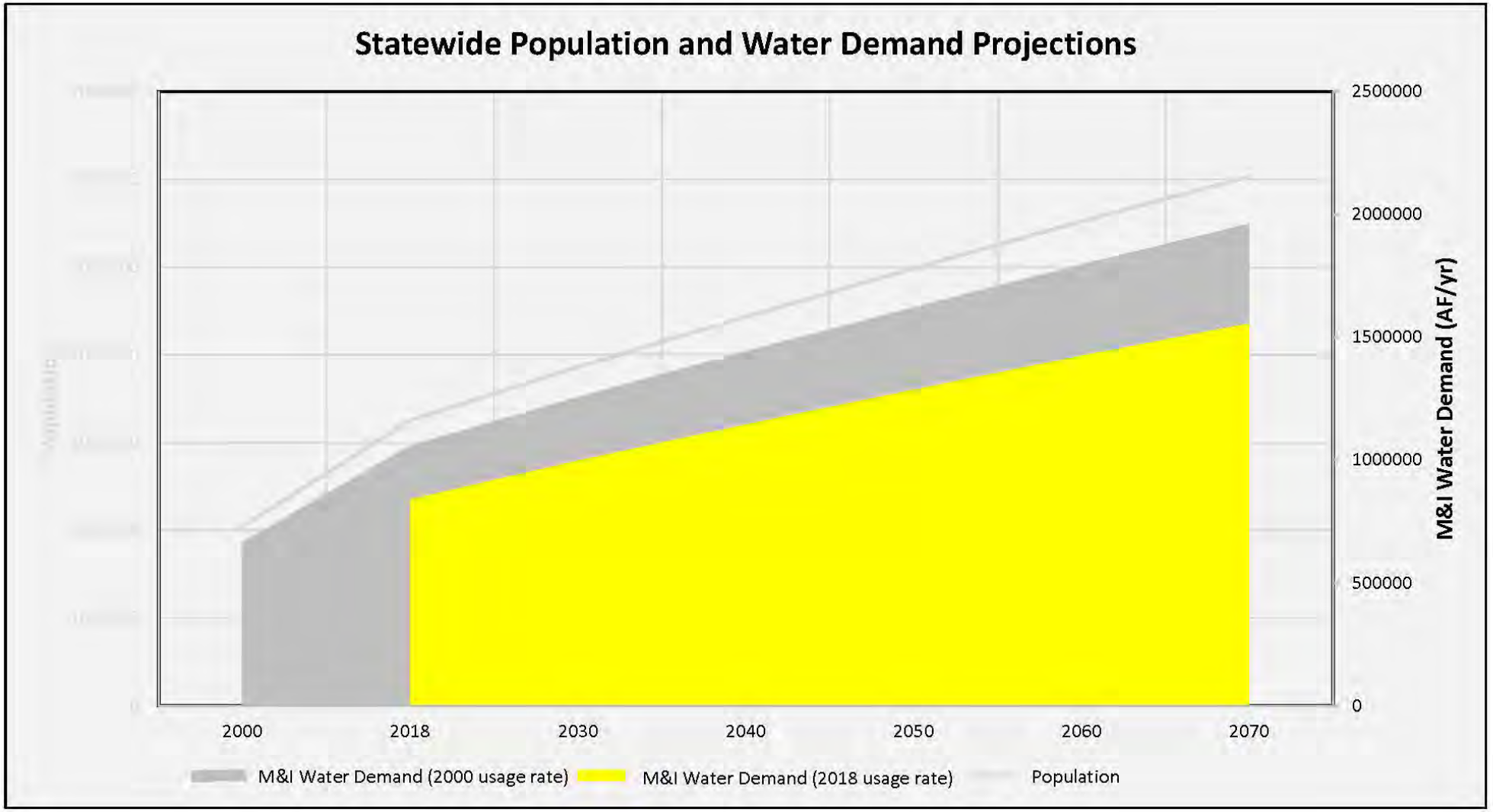

Statewide Population and Water Demand Projections
Population
M&I Water Demand (AF/yr)
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
2500000
2000000
1500000
1000000
500000
0
2000
2018
2030
2040
2050
2060
2070
M&I Water Demand (2000 usage rate)
Population



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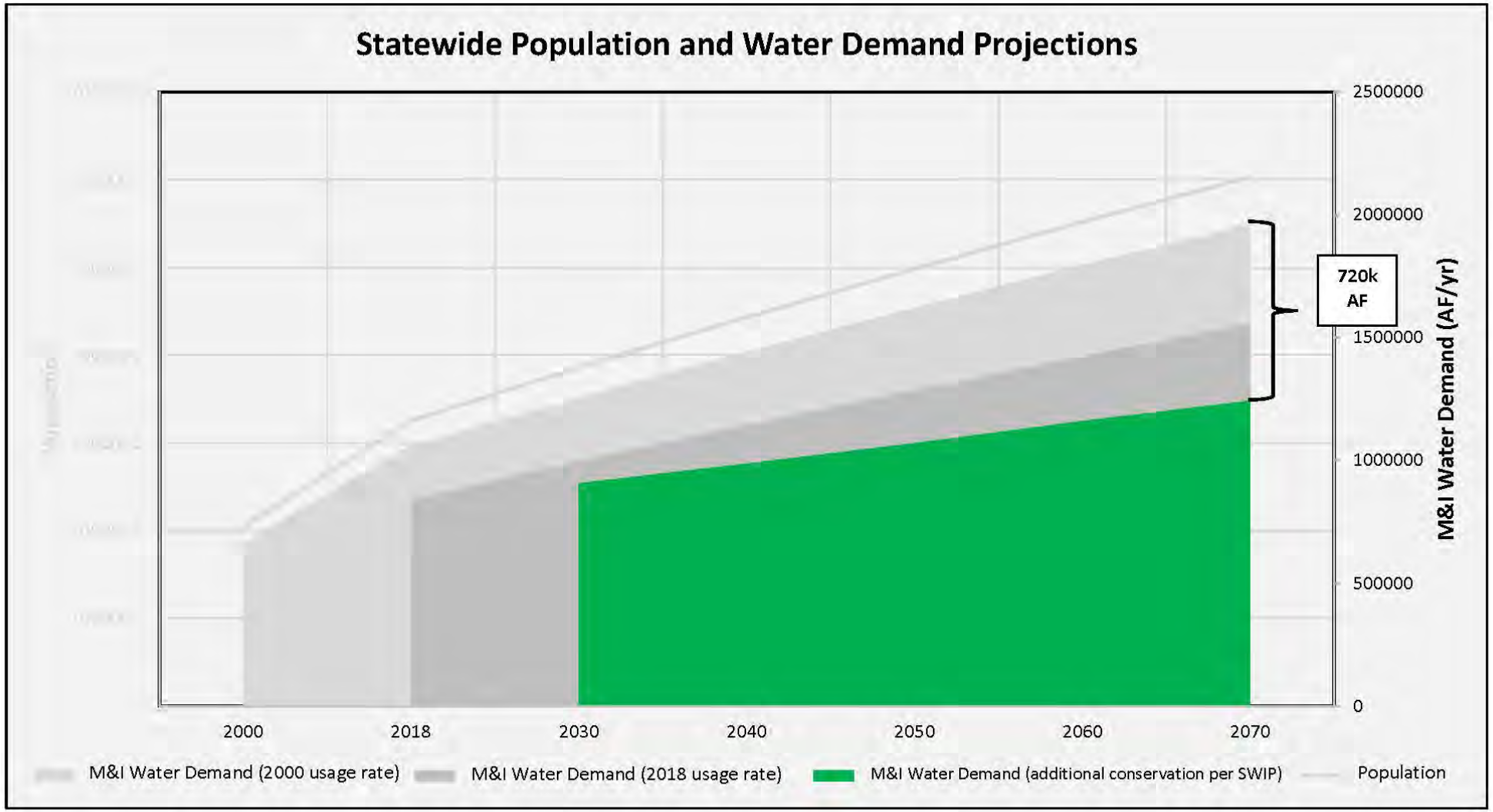
SECURING UTAH'S ECONOMIC FUTURE



PREPARE 60
SECURING UTAH'S ECONOMIC FUTURE

Member Agency Outreach Plan

- Annual Member Agency Meeting
- Member Agency Coordination Meetings
- Periodic Planning Meetings
- Lunch and Learns/Tours
- Annual Water Use Data Collection Meetings

JORDAN VALLEY WATER CONSERVANCY DISTRICT

April 21, 2021

Staff Contact Names By Topic

Functions	Primary Contact	Alternate Contact
Finance, water rates, property taxes, budgets, and bonding	Dave Martin	
Water deliveries, service disruptions, and pressure issues	Matt Hinckley	Shazelle Terry
Water quality, water treatment, and laboratory services	Jon Hilbert	Shazelle Terry
Emergency response and planning	Jeff King	Shazelle Terry
Construction projects	Shane Swensen	
Water supply and infrastructure planning	Shane Swensen	Alan Packard
Water conservation programs and grants	Courtney Brown	Matt Olsen
SCADA and telemetry	Jason Brown	Matt Olsen
Water use data collection and member agency web portal	Todd Schultz	Clifton Smith
Communications, outreach, social media, news, and community relations	Linda Townes-Cook	Megan Jenkins
Executive topics and issues	Bart Forsyth	Shazelle Terry Matt Olsen Alan Packard

Questions and Discussion