Public Utilities

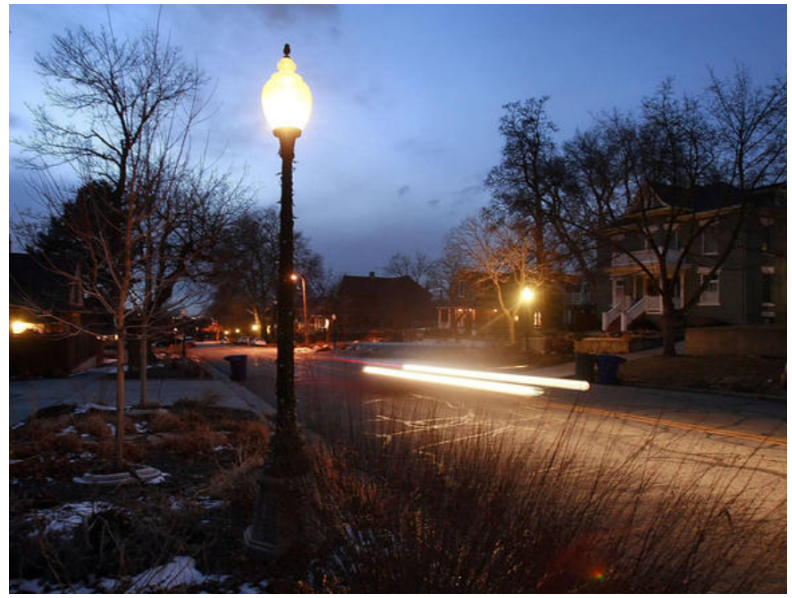
Water Resources
CBRFC Tools

October 31, 2017

Public Utilities

Introduction

- Water
- Sewer
- Storm Water
- Street Lighting



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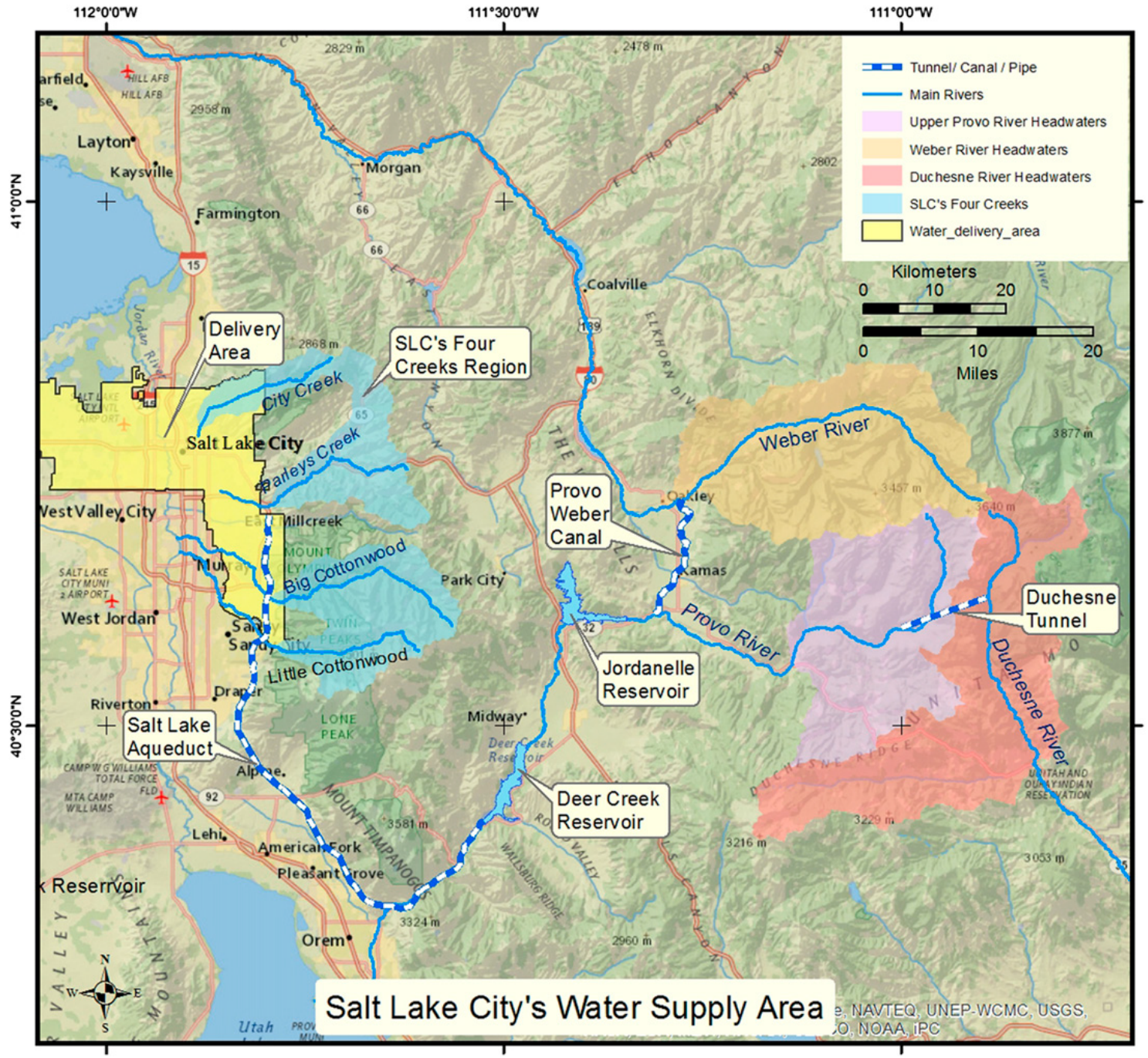
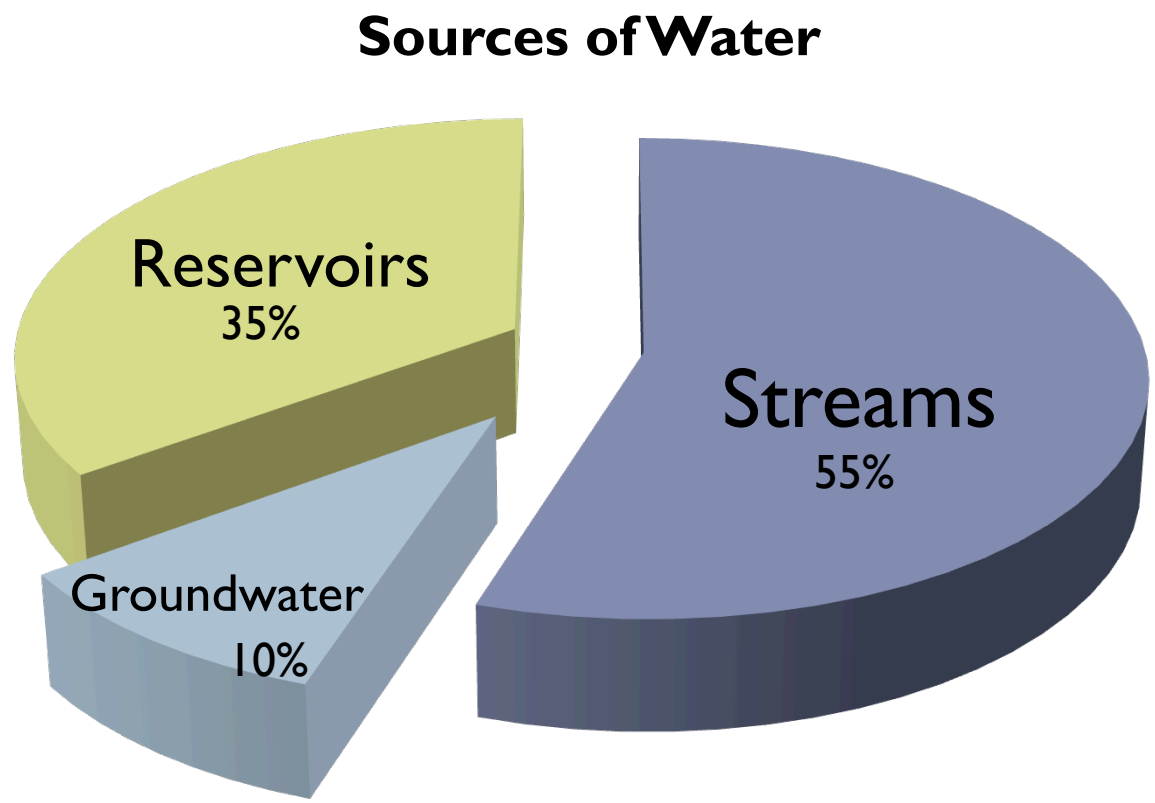
SCL Water Delivery and Water Sources



Water Sources

- Streams
  - Little Cottonwood Creek
  - Big Cottonwood Creek
  - City Creek
  - Parleys Creek
- Reservoirs
  - Deer Creek
  - Jordanelle
  - Mountain Dell/Little Dell
- Groundwater



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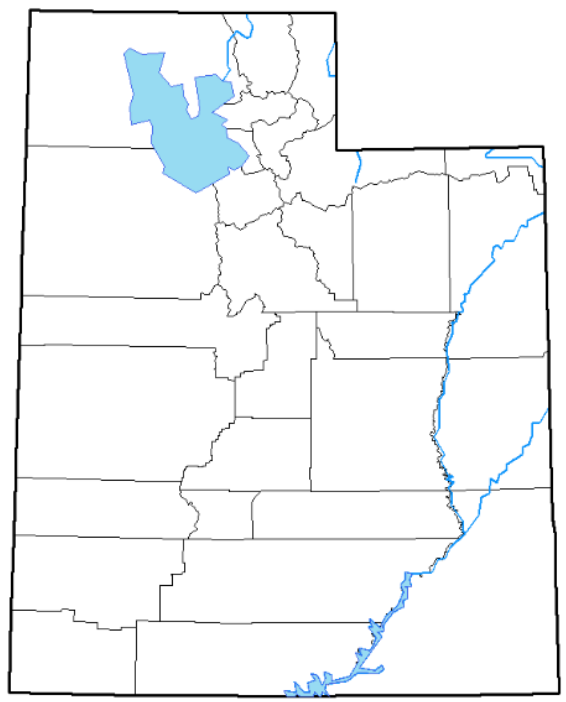
Drought Conditions

Home › State Drought Monitor

Login

U.S. Drought Monitor

Utah



Download: PNG PDF JPG

View drought planning resources

April 18, 2017

(Released Thursday April 20, 2017)

Valid 8 a.m. EDT

Statistics type: Traditional Percent Area

Export table: PNG CSV XLS

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current 2017-04-18	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 2017-04-11	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 2017-01-17	54.91	45.09	0.00	0.00	0.00	0.00
Start of Calendar Year 2016-12-27	35.81	64.19	13.25	0.00	0.00	0.00
Start of Water Year 2016-09-27	42.08	57.92	14.21	2.45	0.00	0.00
One Year Ago 2016-04-19	33.70	66.30	30.09	12.79	0.00	0.00

Estimated Population in Drought Areas: **0**

View More Statistics

Intensity:

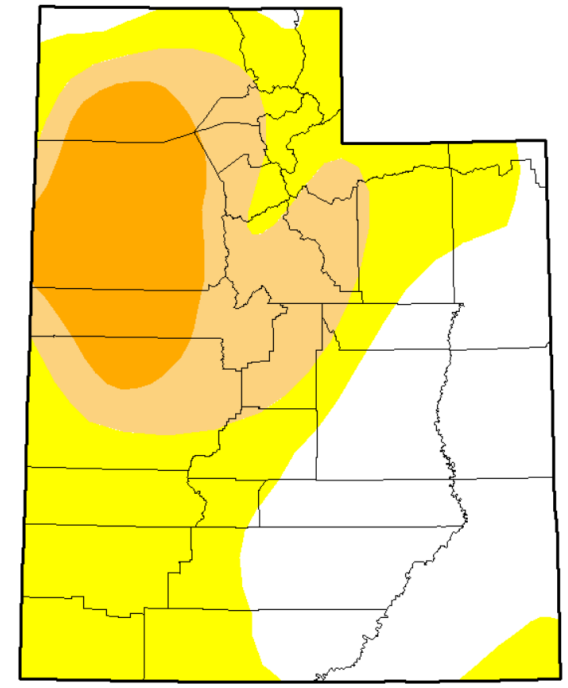
- **D0** (Abnormally Dry)
- **D1** (Moderate Drought)
- **D2** (Severe Drought)
- **D3** (Extreme Drought)
- **D4** (Exceptional Drought)

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying **text summary** for forecast statements.*

Author(s):

Chris Fenimore, NOAA/NESDIS/NCEI

April 19, 2016



The National Drought Mitigation Center | University of Nebraska-Lincoln
3310 Holdrege Street | P.O. Box 830988 | Lincoln, NE 68583–0988
phone: (402) 472–6707 | fax: (402) 472–2946 | **Contact Us** | **Web Policy**

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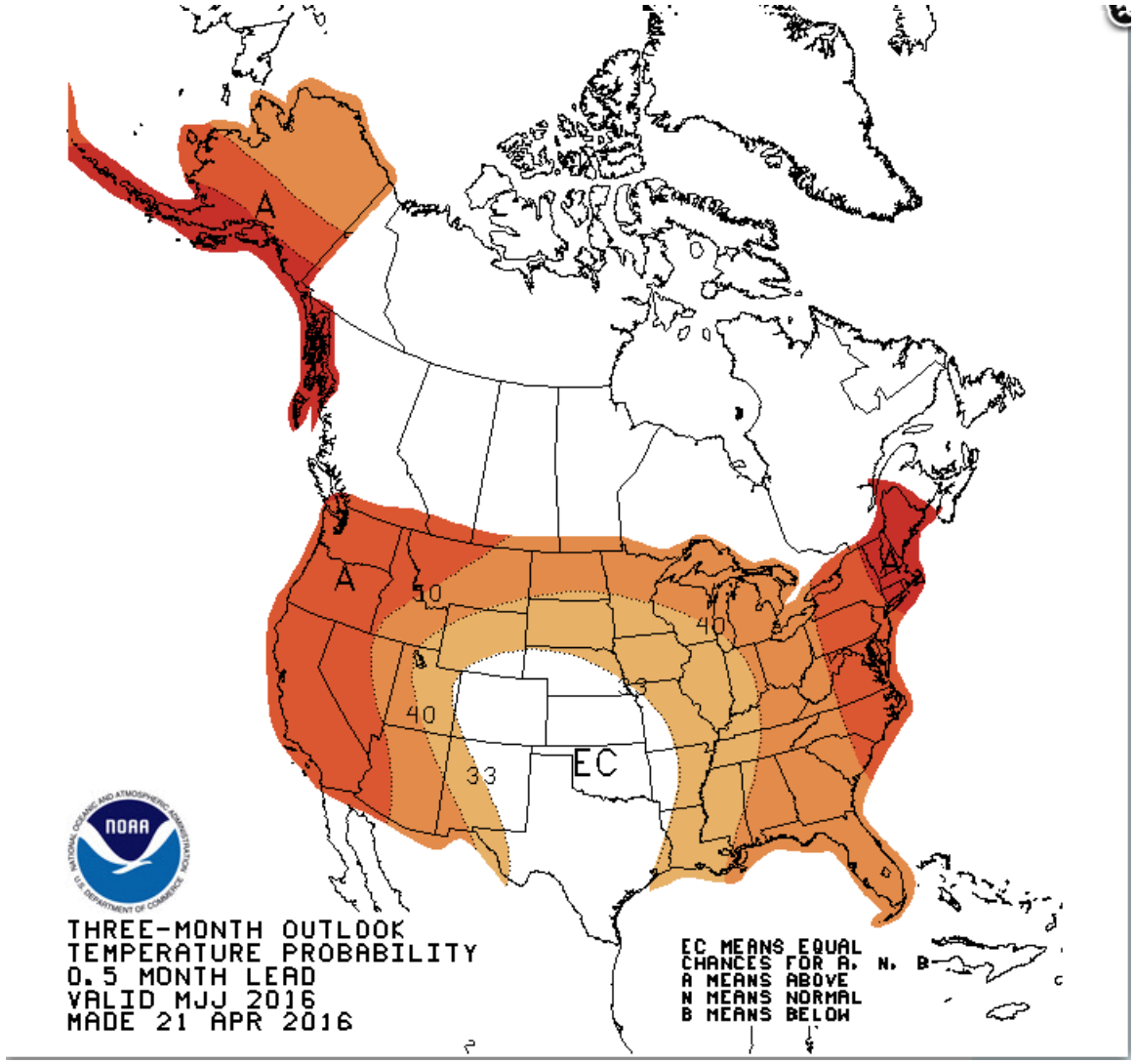
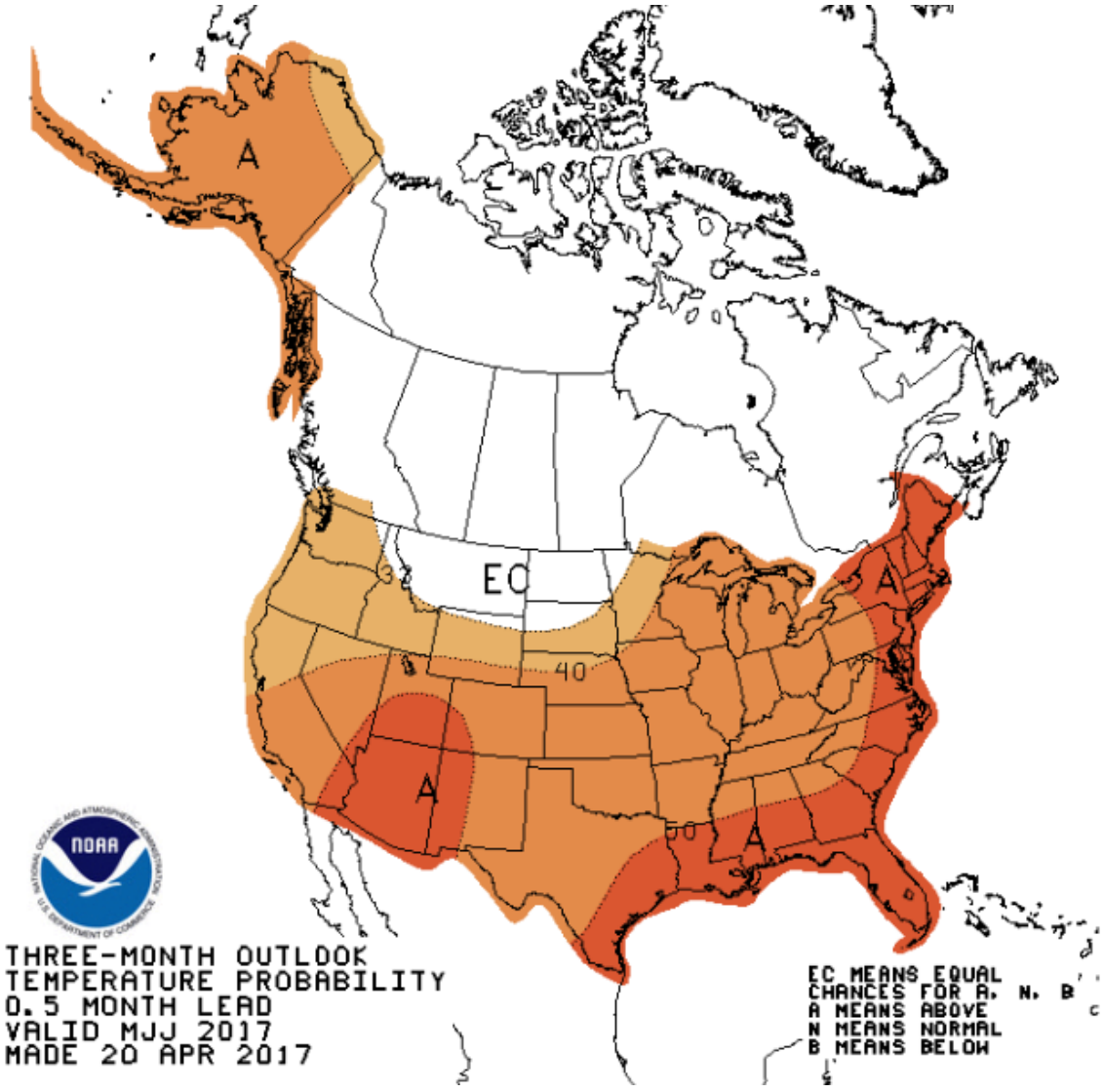
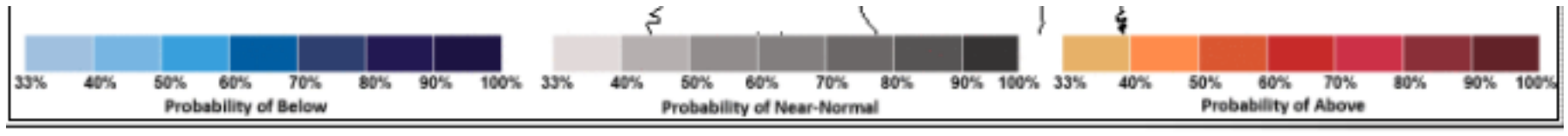
Temperature Forecast







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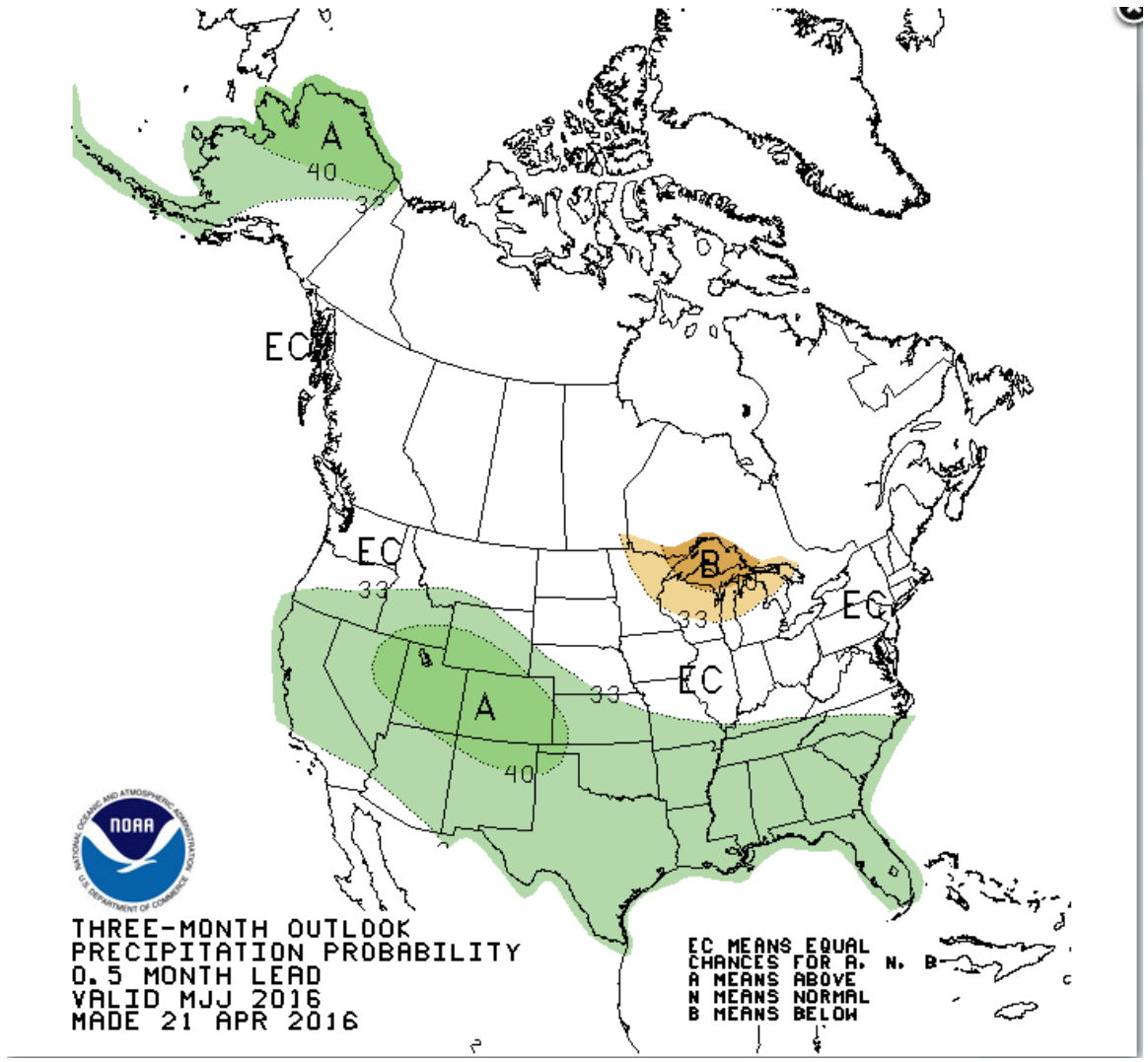
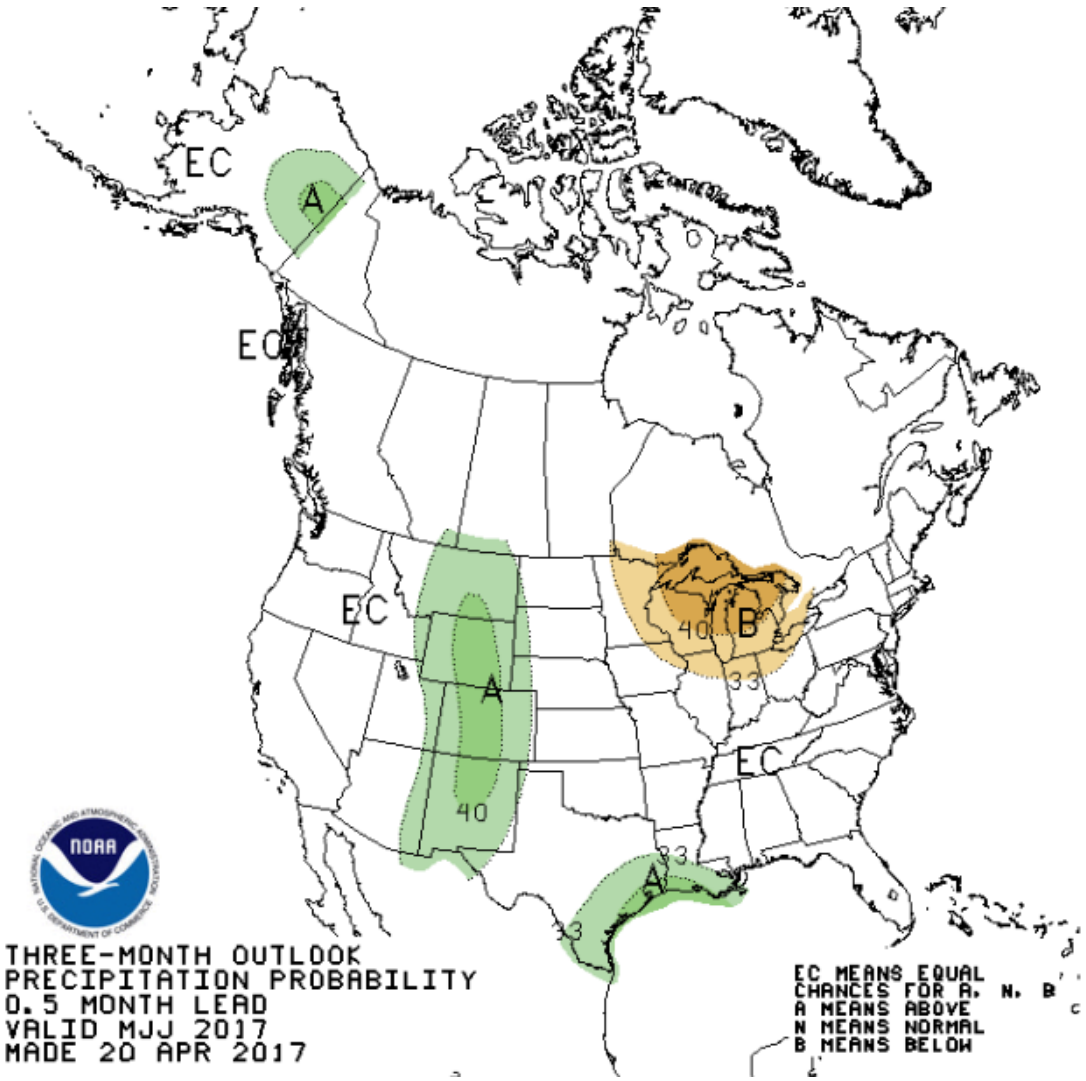
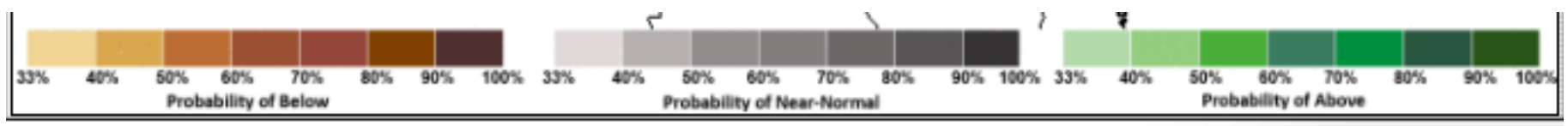
Precipitation Forecast







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Stream Runoff Models

Daily ESP List [Download Data]

/usr/bin/Rscript /web/rmap/wsup/espsort.R cbrfc Area Sub.Area SC

Water Supply Volume Percent Average/Median Condition

△ < 30% ▲ 30-50% ▲ 50-70% ▲ 70-90% ▲ 90-100% ▲ 100-110% ▲ 110-130% ▲ 130-150% ▲ 150-200% ▲ 200-300% ▲ 300-500 ▲ >500% ▲ Regulated △ No Forecast

Options (on/off): Plot
Area: CBRFC Green Colorado San Juan Great Sevier Virgin Low Col

Columns (on/off): Area Sub Area NWS ID DS River Location ESP Date Avg Cond Med Cond Forecast Period P 90 P 70 P 50 P 30 P 10 A

Click column heading to sort by that data. Click ID to view point info. Click Area, Sub Area, or Forecast Period to show only those points.

	Area	Sub Area	NWS ID	River	Location	ESP Date	Avg Cond	Med Cond	Forecast Period	P 90	P 70	P 50	P 30	P 10	Avg	Med	Pct Avg	Pct Med
1	Great	Six Creeks	CCSU1	City Ck	Salt Lake City	2017-04-26	△	△	Apr 01-Jul 31	0	0	0	0	0	7.7	5.9	*0*	*0*
2	Great	Six Creeks	EMIU1	Emigration Ck	Salt Lake City	2017-04-26	▲	▲	Apr 01-Jul 31	3.4	3.58	3.98	4.48	5.55	4	2.5	*100*	*160*
3	Great	Six Creeks	DELU1	Dell Fk	Little Dell Res	2017-04-26	△	△	Apr 01-Jul 31	0	0	0	0	0	5.5	4	*0*	*0*
4	Great	Six Creeks	LAMU1	Lambs Ck	NA	2017-04-26	△	△	Apr 01-Jul 31	0	0	0	0	0	5.3	4.1	*0*	*0*
5	Great	Six Creeks	PRLU1	Parleys Ck	Salt Lake City	2017-04-26	△	△	Apr 01-Jul 31	0	0	0	0	0	14.2	10.7	*0*	*0*
6	Great	Six Creeks	MILU1	Mill Ck	Salt Lake City	2017-04-26	▲	▲	Apr 01-Jul 31	6.64	6.8	7.06	7.82	8.7	6.4	5	*110*	*140*
7	Great	Six Creeks	BCTU1	Big Cottonwood Ck	Salt Lake City	2017-04-26	△	△	Apr 01-Jul 31	0	0	0	0	0	36	31	*0*	*0*
8	Great	Six Creeks	LCTU1	Little Cottonwood Ck	Salt Lake City	2017-04-26	△	△	Apr 01-Jul 31	0	0	0	0	0	38	35	*0*	*0*
9	Great	Six Creeks	WCGU1	S Willow Ck	Grantsville	2017-04-26	▲	▲	Apr 01-Jul 31	3.43	3.65	3.9	4.25	4.52	3.1	2.6	*130*	*150*

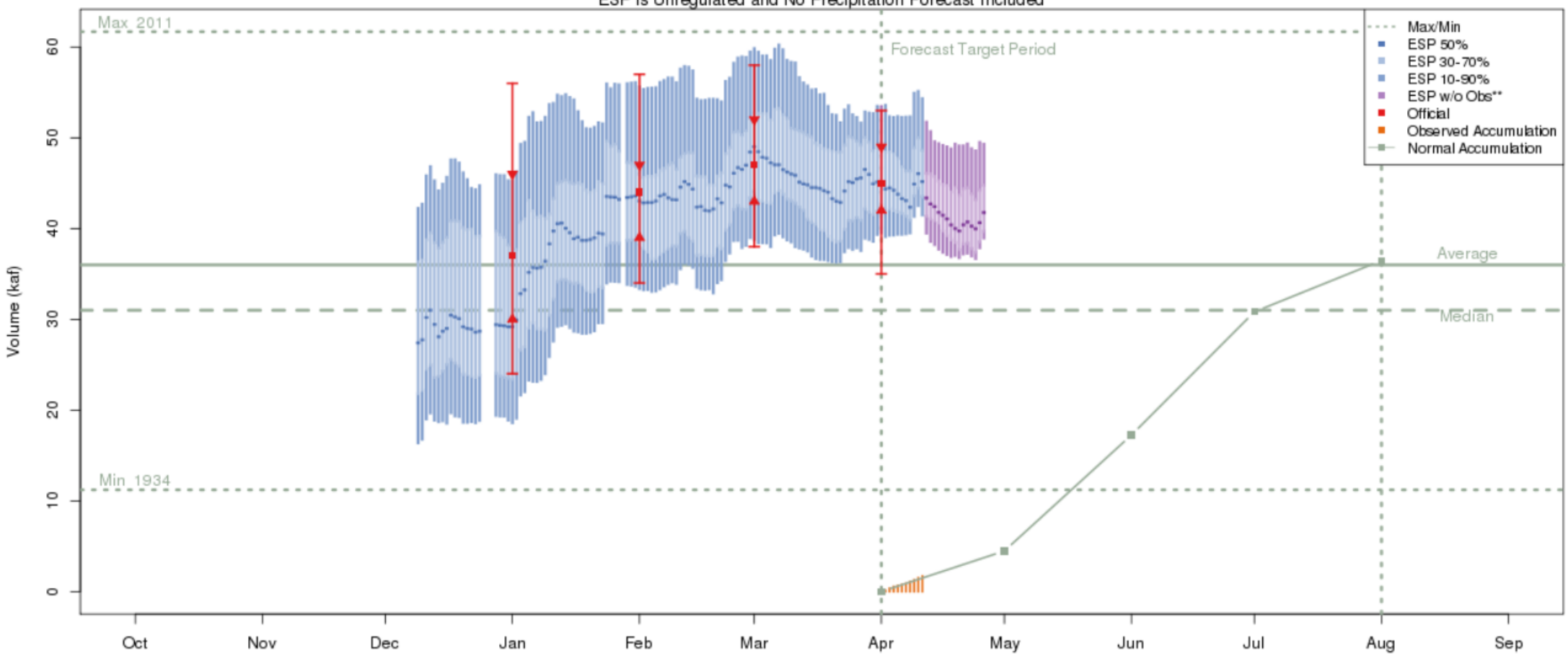
Big Cottonwood Creek

BCTU1 Water Supply Forecasts

Plot Forecasts Observations Historical Annual/Official Verification Reforcast Verification

Water Year: 2013 2014 2015 2016 2017
Plot Options (on/off): QPF ESP Official Forecasts Observations Max/Min Historical
Plot Help: Text Description Graphic Interpretation ESP Model Description

Big Cottonwood Ck - Salt Lake City- Nr (BCTU1)
2017-04-01 Apr-Jul Official 50% Forecast: 45 kaf (125% of average)
ESP is Unregulated and No Precipitation Forecast Included



The most recent (2017-04-11) full period 50% ESP forecast is 45 kaf.
Plot Created 2017-04-26 13:11:35, NOAA / NWS / CBRFC
**Purple ESP forecasts do not include observed and are not total runoff.

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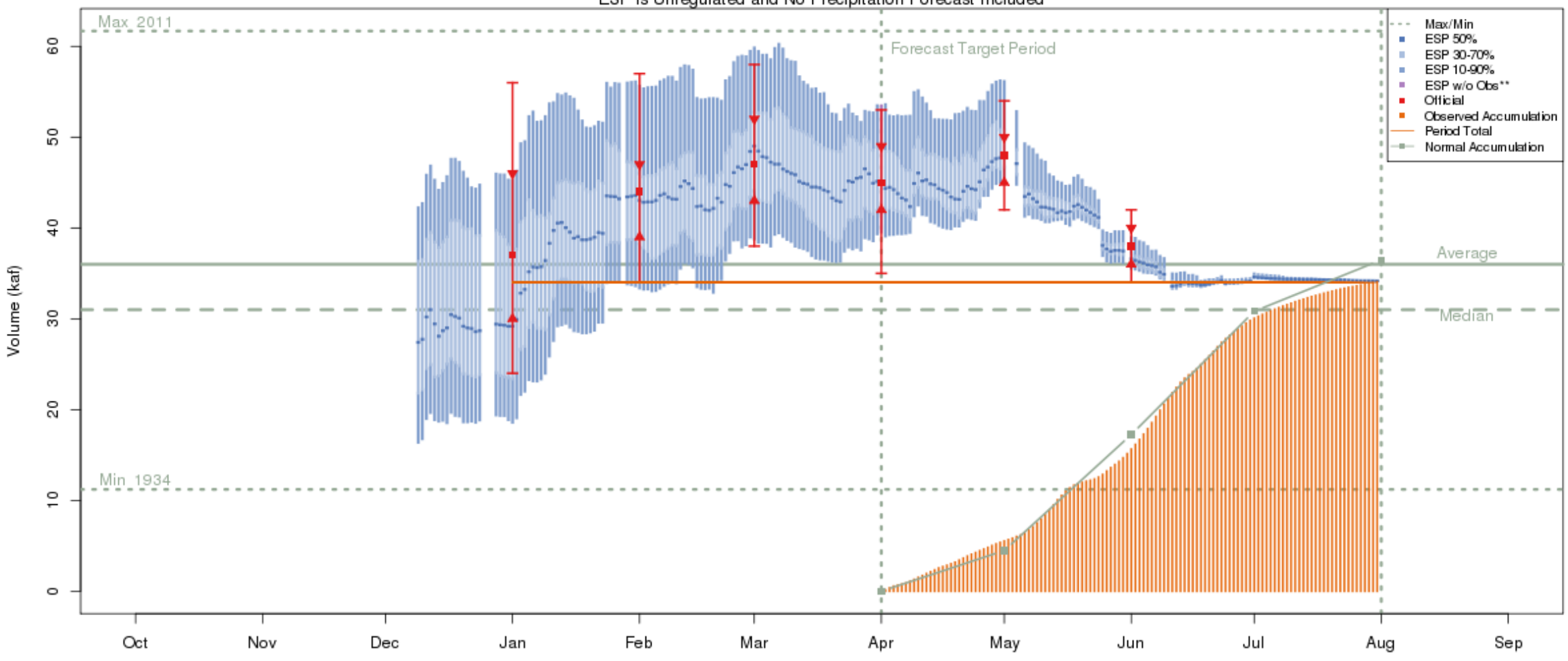
Big Cottonwood Creek

BCTU1 Water Supply Forecasts

Plot Beta Plot Forecasts Observations Historical Annual/Official Verification Reforcast Verification

Water Year: 2013 2014 2015 2016 2017
Plot Options (on/off): QPF ESP Official Forecasts Observations Max/Min Historical
Plot Help: Text Description Graphic Interpretation ESP Model Description

Big Cottonwood Ck - Salt Lake City- Nr (BCTU1)
Apr-Jul Observed Volume: 34 kaf (94% of average)
ESP is Unregulated and No Precipitation Forecast Included



Plot Created 2017-08-14 11:56:40, NOAA / NWS / CBRFC
Forecasts in the forecast target period include observed values.

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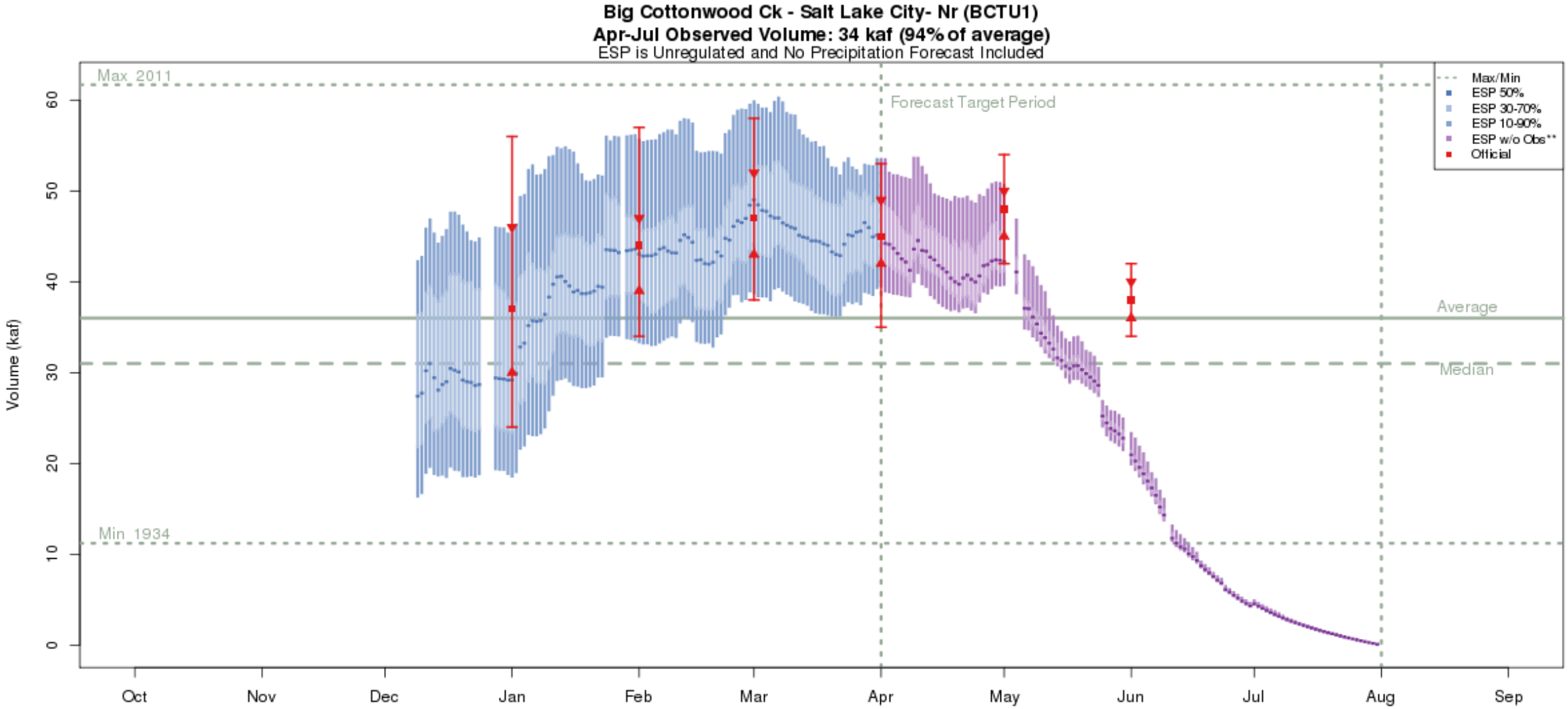
Big Cottonwood Creek

BCTU1 Water Supply Forecasts

Plot Beta Plot Forecasts Observations Historical Annual/Official Verification Reforcast Verification

Water Year: 2013 2014 2015 2016 2017
Plot Options (on/off): QPF ESP Official Forecasts Observations Max/Min Historical
Plot Help: Text Description Graphic Interpretation ESP Model Description



Plot Created 2017-08-14 11:56:40, NOAA / NWS / CBRFC
**Purple ESP forecasts do not include observed and are not total runoff.

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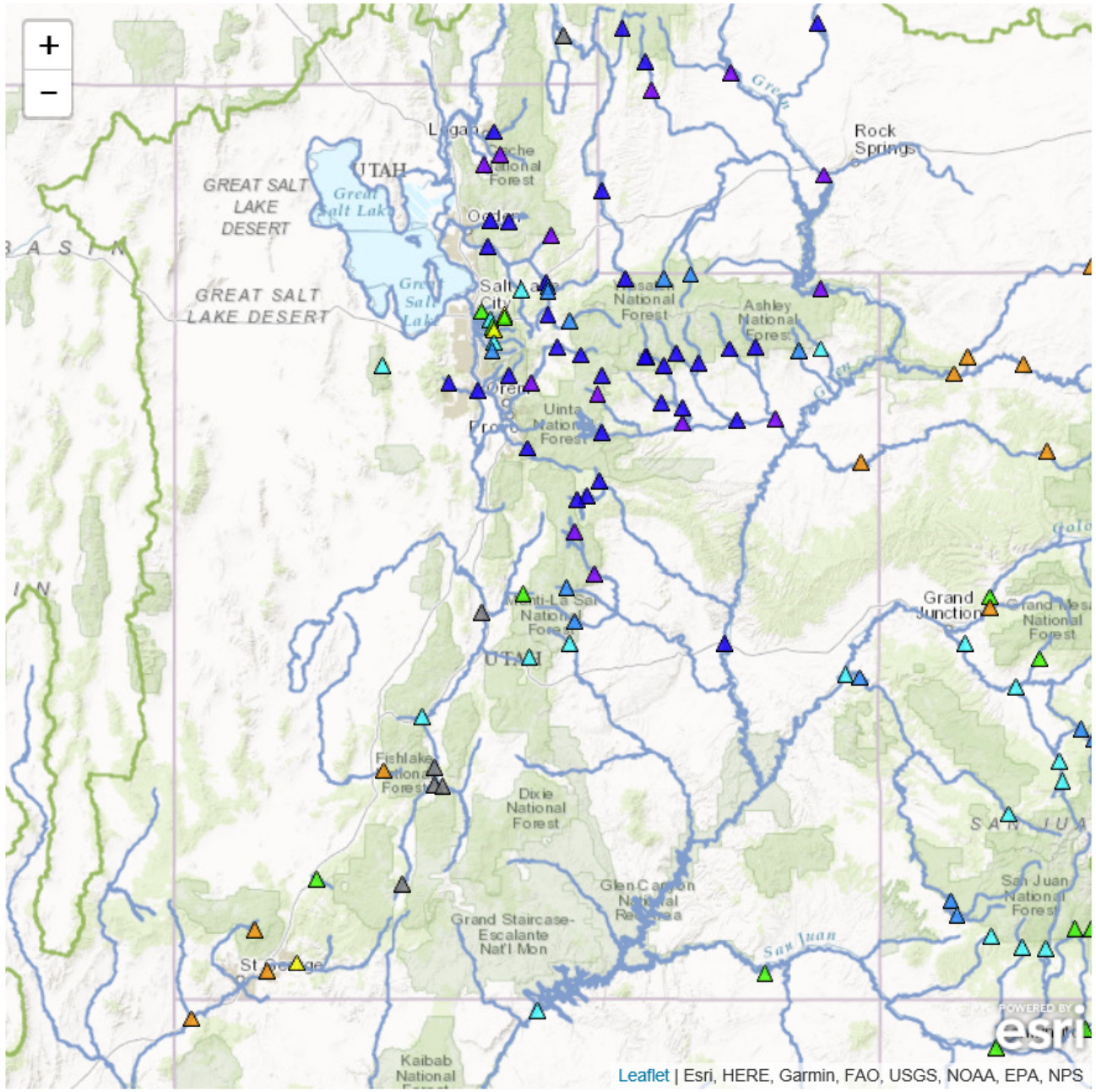
Water Supply Forecast

Conditions Map

Help



Lat: 39.52 Lng: -111.4, Zoom: 7

- River Conditions
- Snow Conditions
- Water Supply Forecasts

First of Month Forecast Date: 2017-4-1 Help
Latest Model Run Date: 2017-04-26

☑ Show Hide Other Types

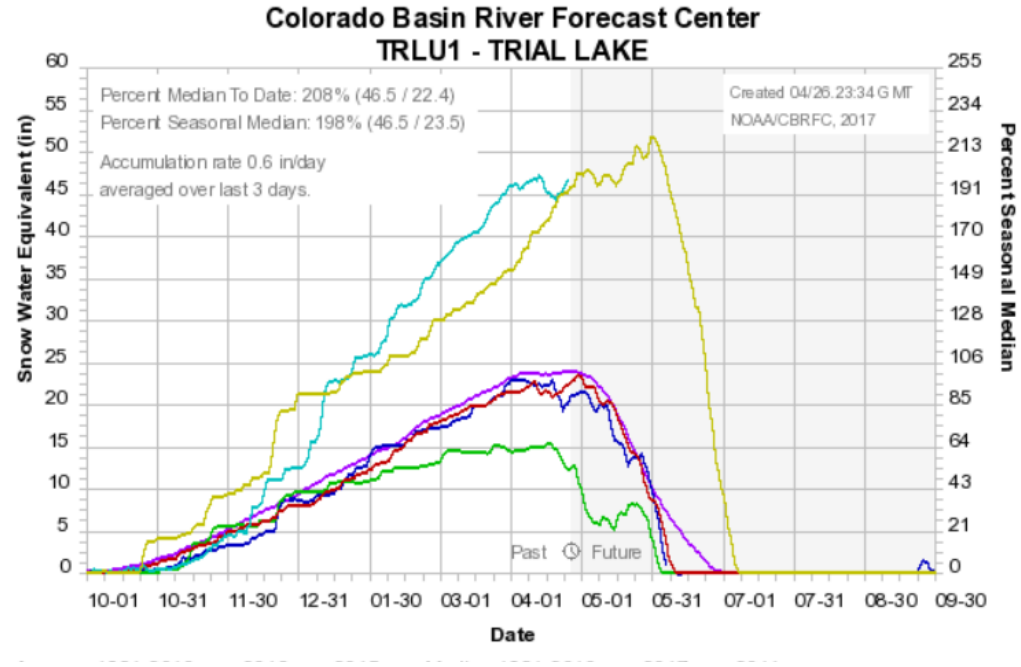
- ◉ First of Month Forecast Percent Average
- ○ First of Month Forecast Percent Median
- ○ Latest Model Guidance Percent Average
- ○ Latest Model Guidance Percent Median

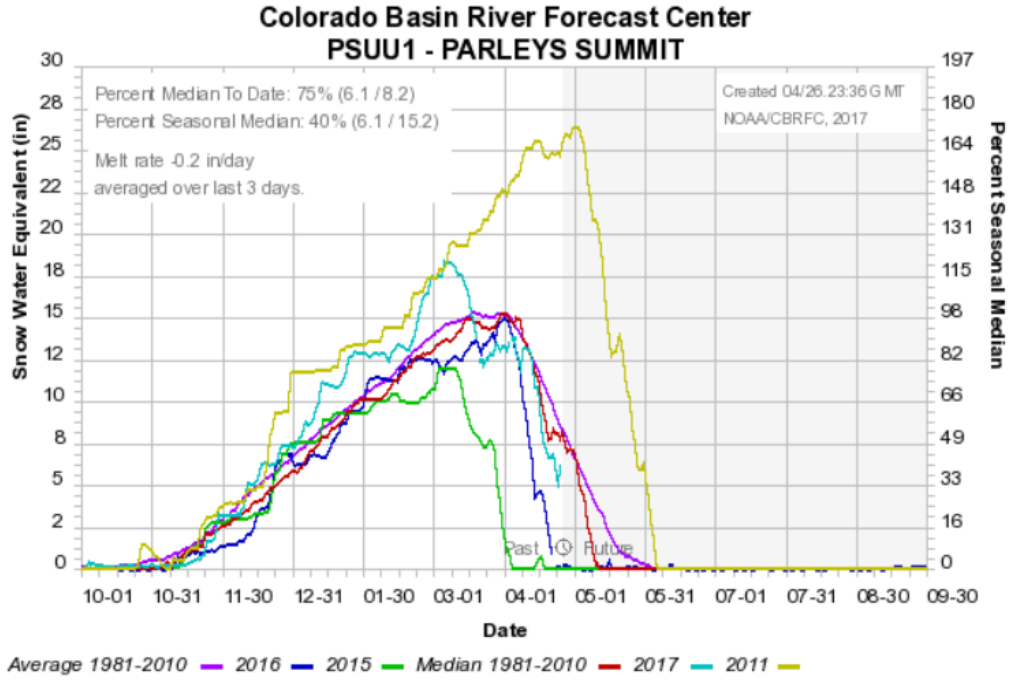
- △ < 30%
- △ 30-50%
- △ 50-70%
- △ 70-90%
- △ 90-100%
- △ 100-110%
- △ 110-130%
- △ 130-150%
- △ 150-200%
- △ 200-300%
- △ 300-500
- △ >500%
- △ Regulated
- △ No Forecast

- Peak Flood Probablity
- Reservoir Conditions
- Daily Precipitation
- Monthly Precipitation

Reservoir Storage and Basin Water

- Deer Creek 96.69% full
- Jordanelle 79.79% full
- Utah Lake 64.68% full
- Parleys System (Mountain Dell and Little Dell)





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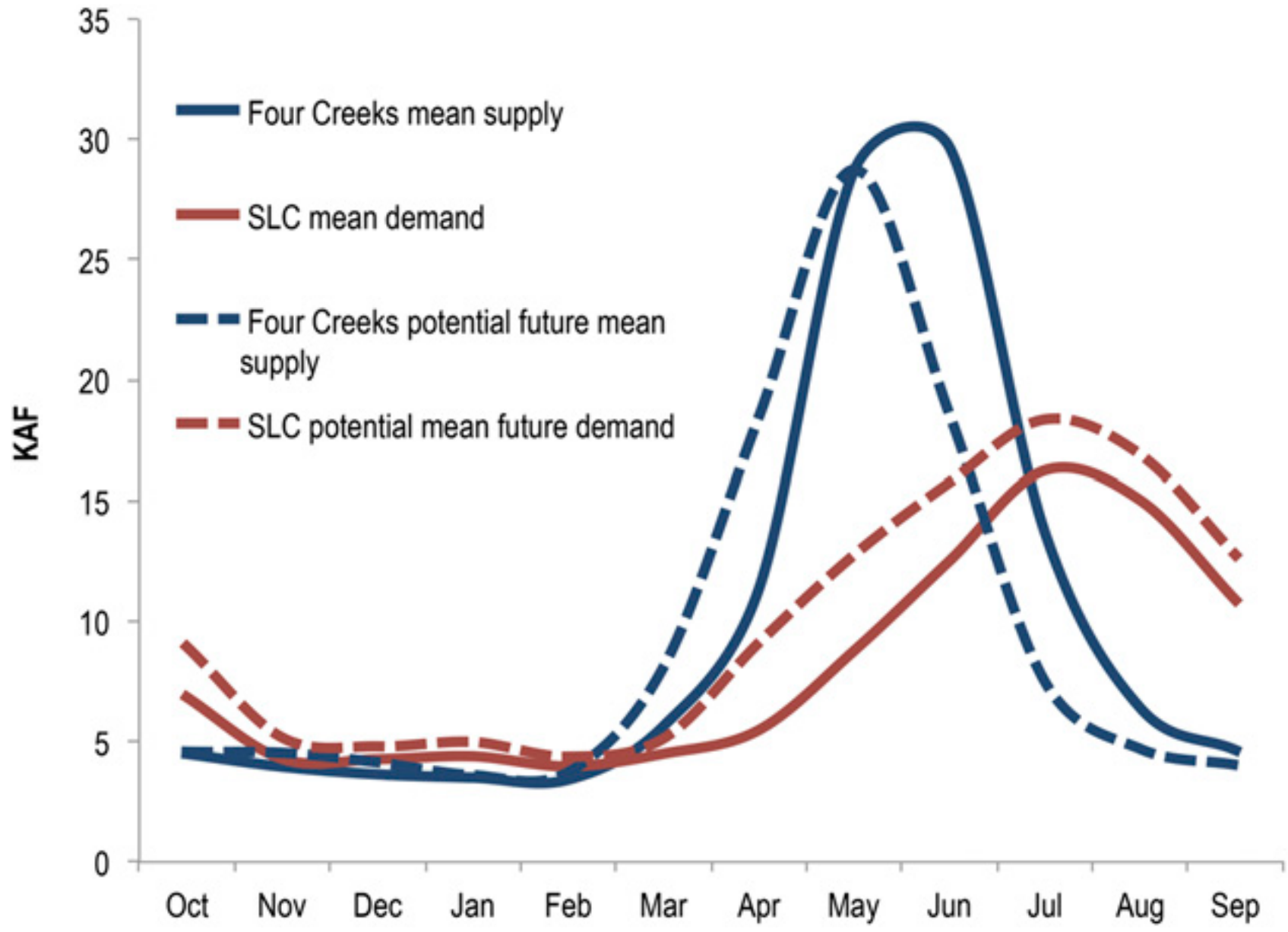
Water Demand



Water Supply Outlook and Management

- Stream flow ??
- Reservoir storage??
- Groundwater supplies??
- We manage water resources with future drought potential