



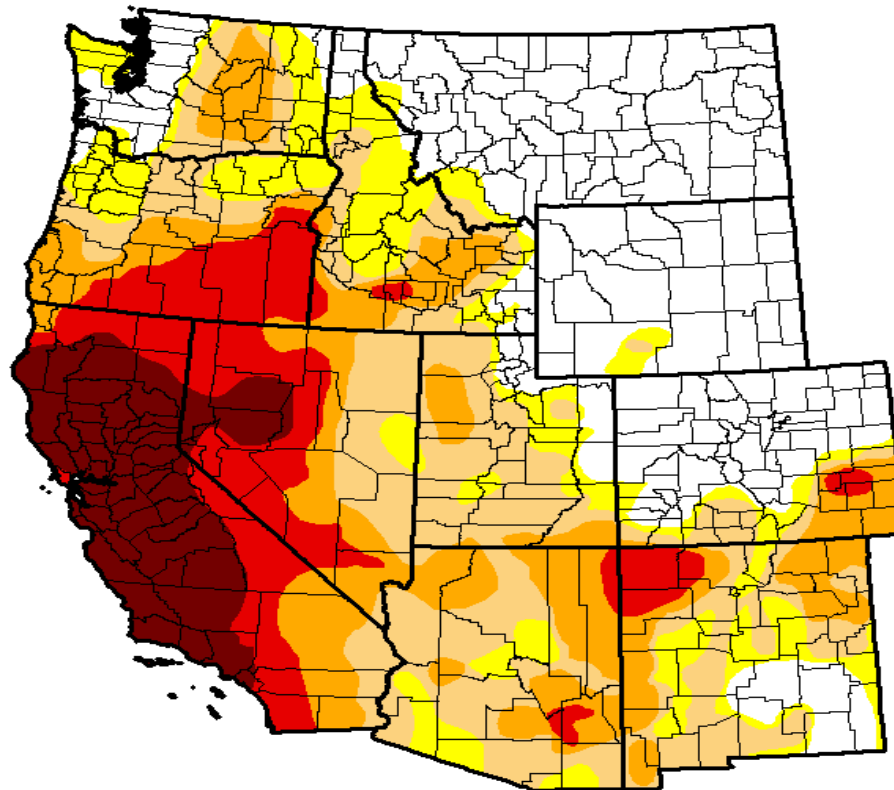
# Northern Nevada Water Planning Commission Water Supply-Drought Operations Report

Presentation by Truckee Meadows Water Authority  
October 1, 2014



# U.S. Drought Monitor West

**September 23, 2014**  
(Released Thursday, Sep. 25, 2014)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	31.18	68.82	56.42	35.96	20.00	8.90
<b>Last Week</b> <i>9/16/2014</i>	29.74	70.26	57.24	38.69	19.88	8.90
<b>3 Months Ago</b> <i>6/24/2014</i>	30.81	69.19	60.20	47.31	20.35	5.64
<b>Start of Calendar Year</b> <i>12/31/2013</i>	22.20	77.80	51.44	31.11	7.75	0.63
<b>Start of Water Year</b> <i>10/1/2013</i>	25.25	74.75	58.96	34.18	5.57	0.63
<b>One Year Ago</b> <i>9/24/2013</i>	18.70	81.30	65.30	38.58	7.47	0.63

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:**  
Richard Heim  
NCDC/NOAA

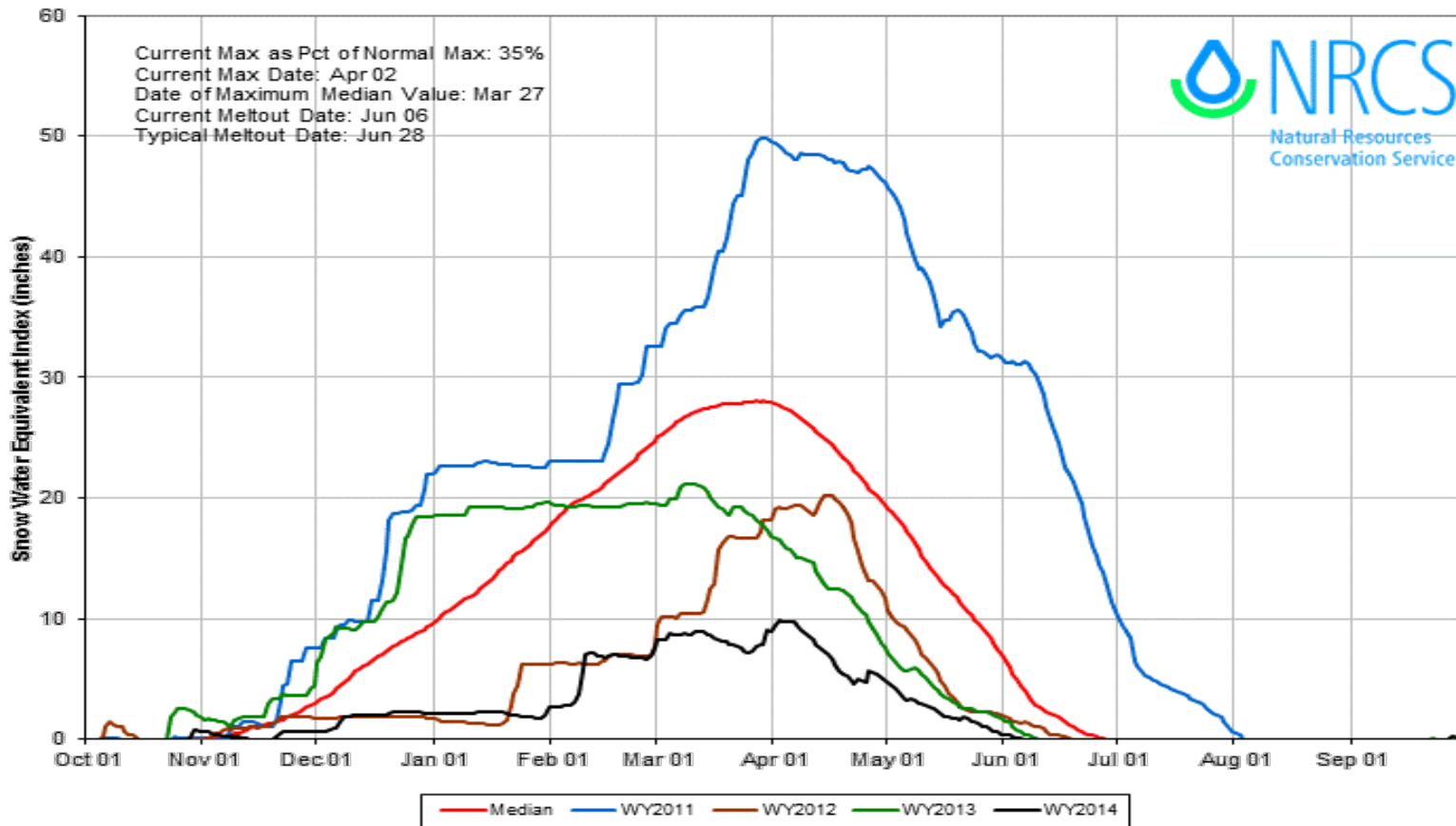


<http://droughtmonitor.unl.edu/>

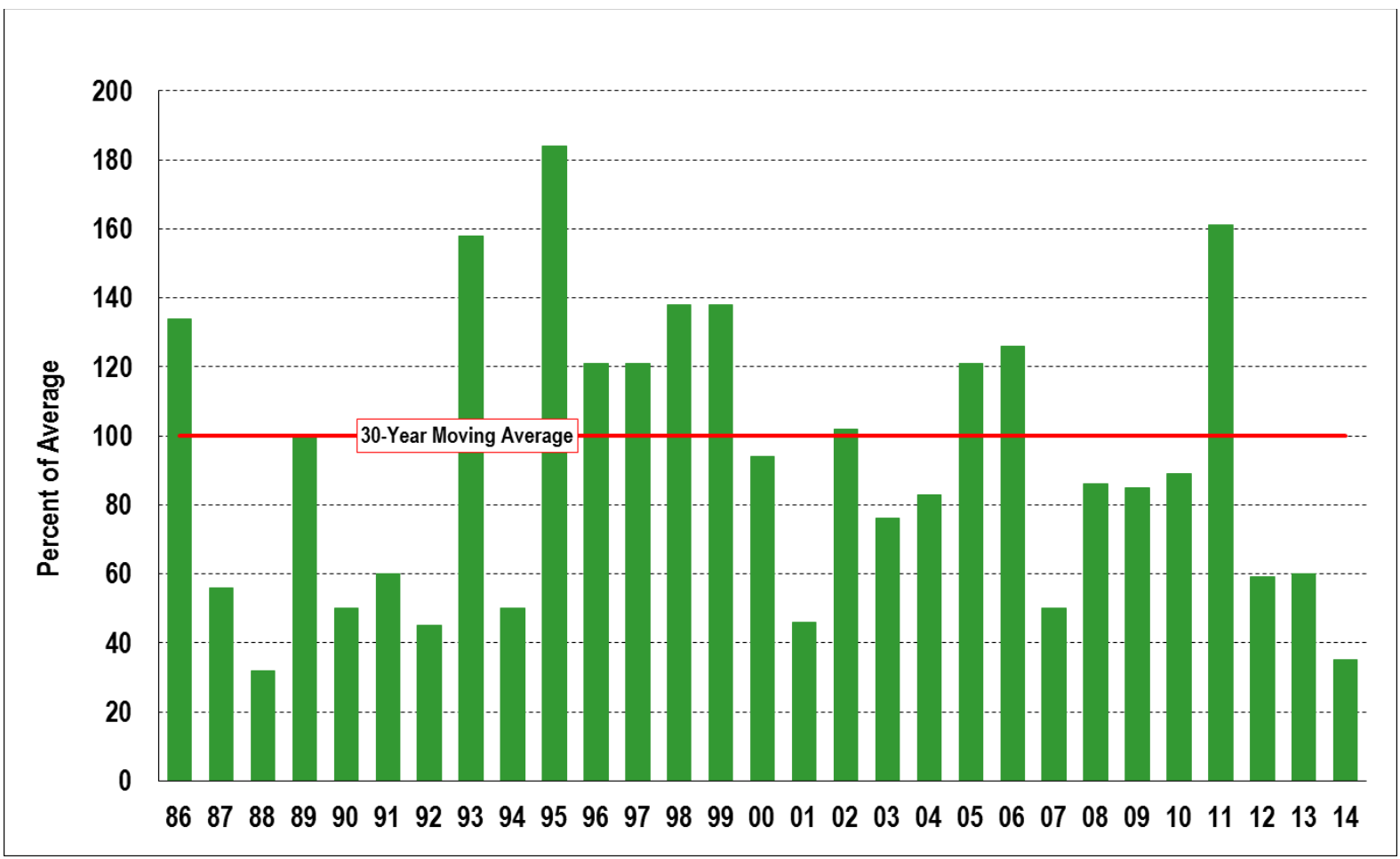


## 4 Year Truckee River Basin Snowpack Comparison

*TRUCKEE RIVER Time Series Snowpack Summary  
Based on Provisional SNOTEL data as of Sep 30, 2014*

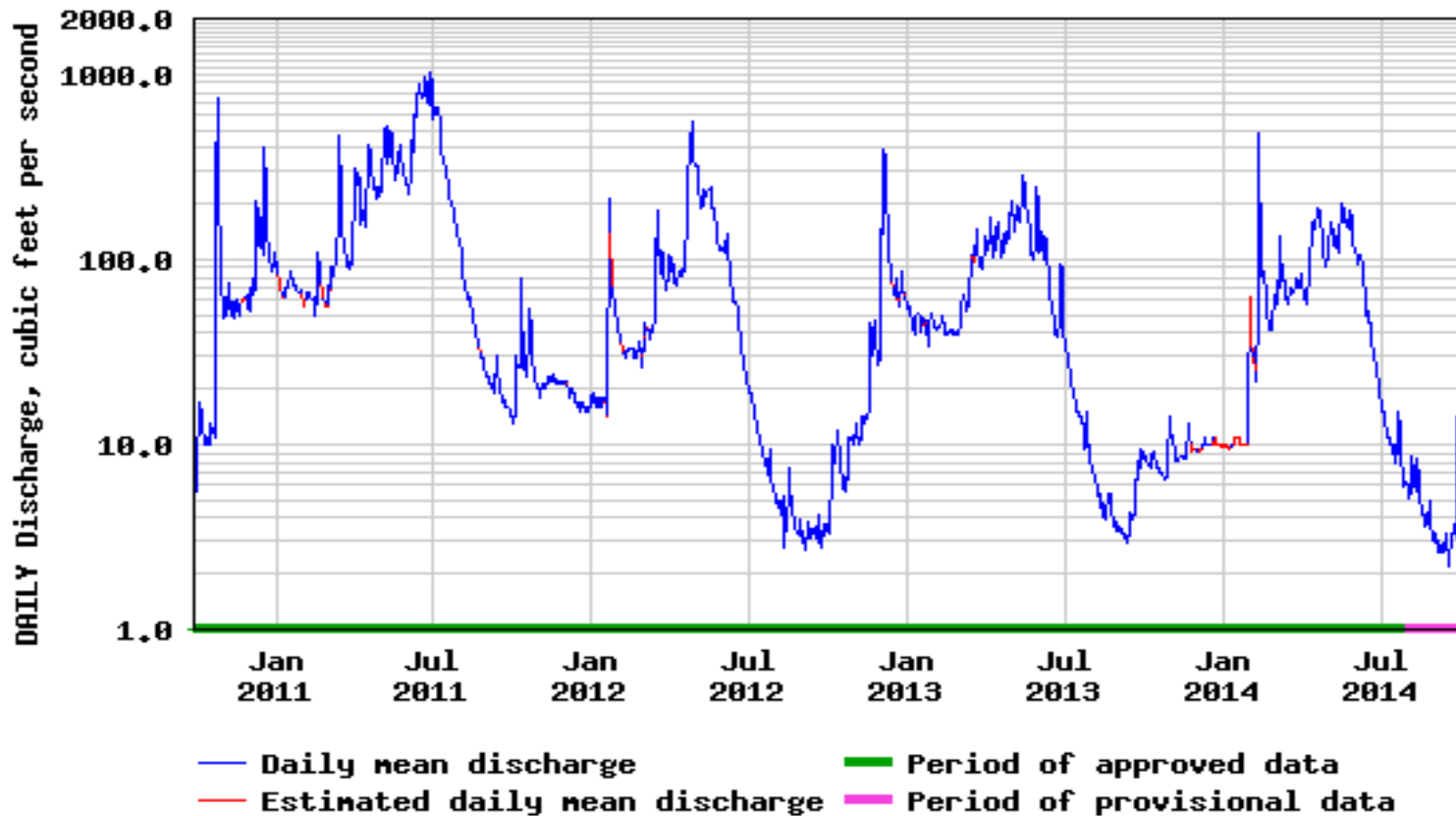


## Truckee River Basin Snowpack (April 1<sup>st</sup>)

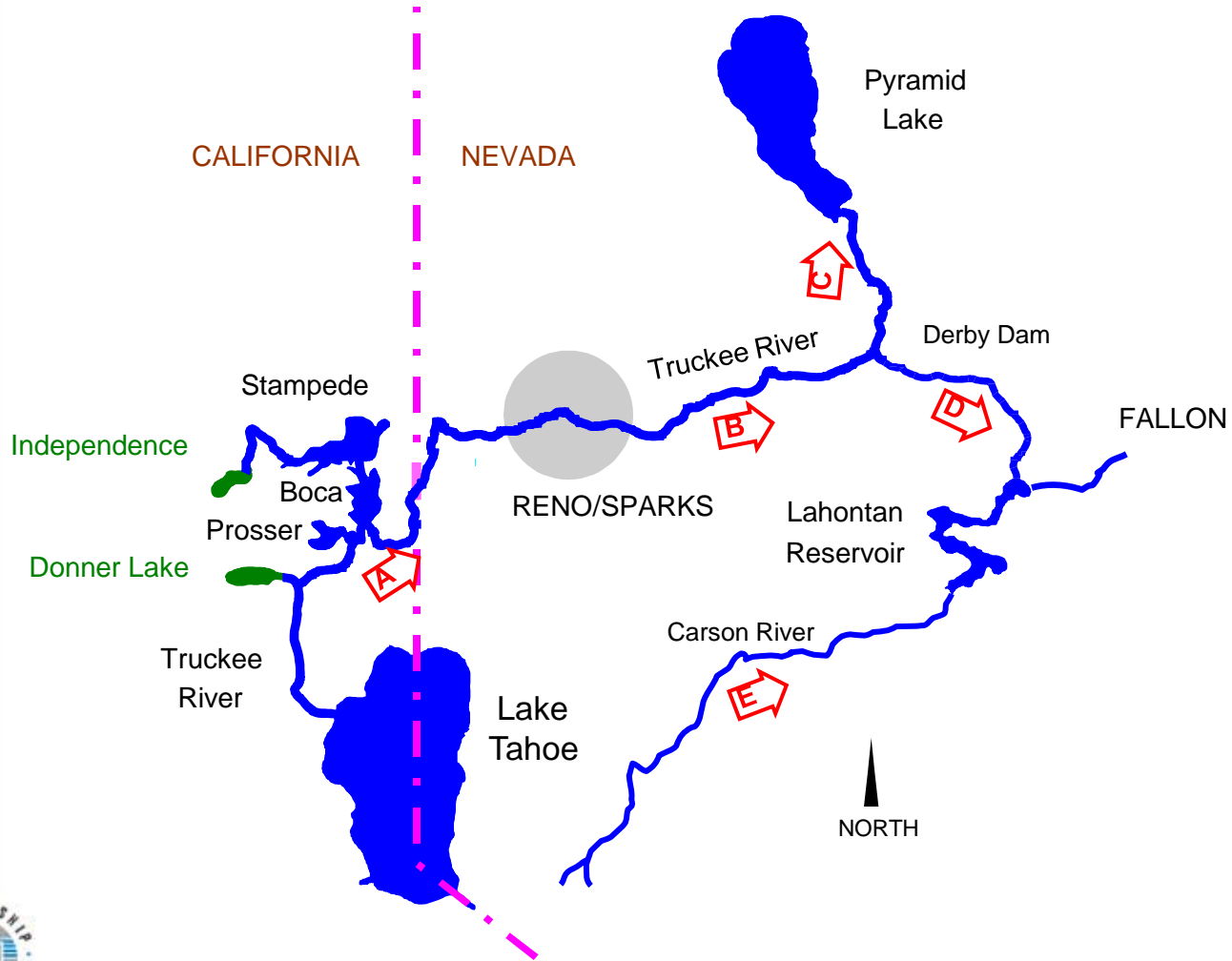




### USGS 10336610 UPPER TRUCKEE RV AT SOUTH LAKE TAHOE, CA



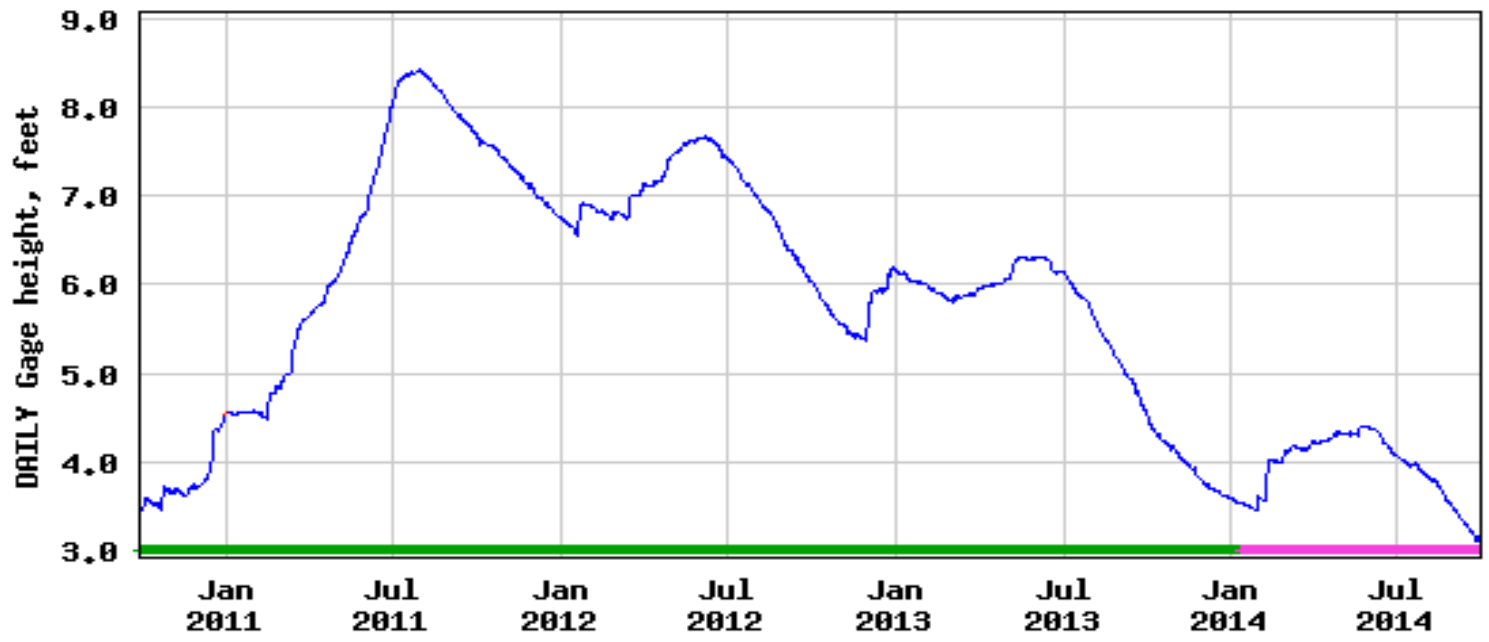
# Truckee and Carson River Systems



	1983-1,769,000 af AVG - 558,700 af 1931- 133,200 af
	1983-2,017,000 af AVG - 603,800 af 1992- 114,400 af
	1983-1,888,800 af AVG - 425,100 af 1992- 17,400 af
	1978- 287,400 af AVG - 161,400 af 2000- 31,000 af
	1983- 804,300 af AVG - 276,000 af 1927- 26,300 af



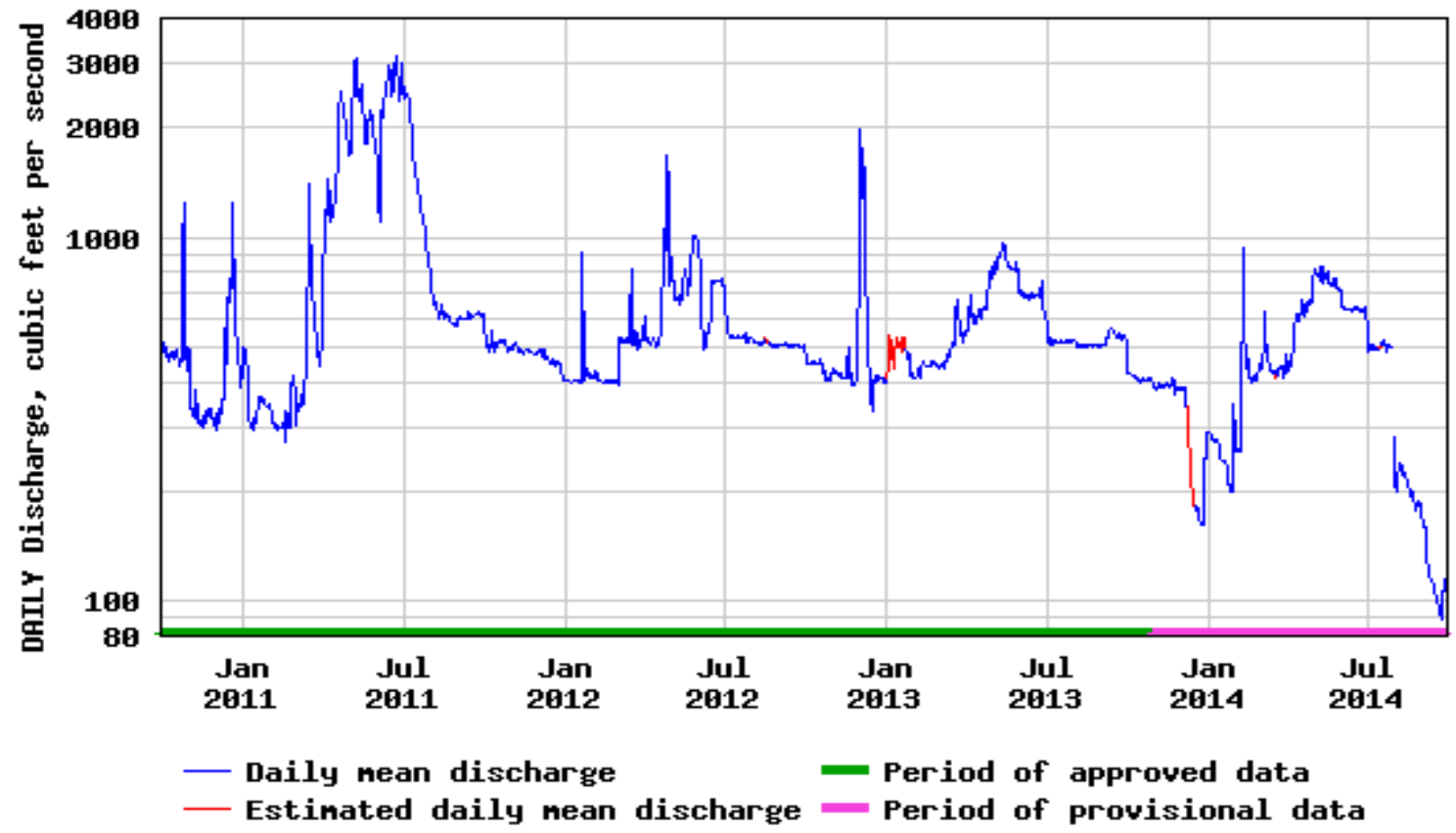
### USGS 10337000 LAKE TAHOE A TAHOE CITY CA



- Daily observation at midnight gage height
- Estimated daily observation at midnight gage height
- █ Period of approved data
- █ Period of provisional data



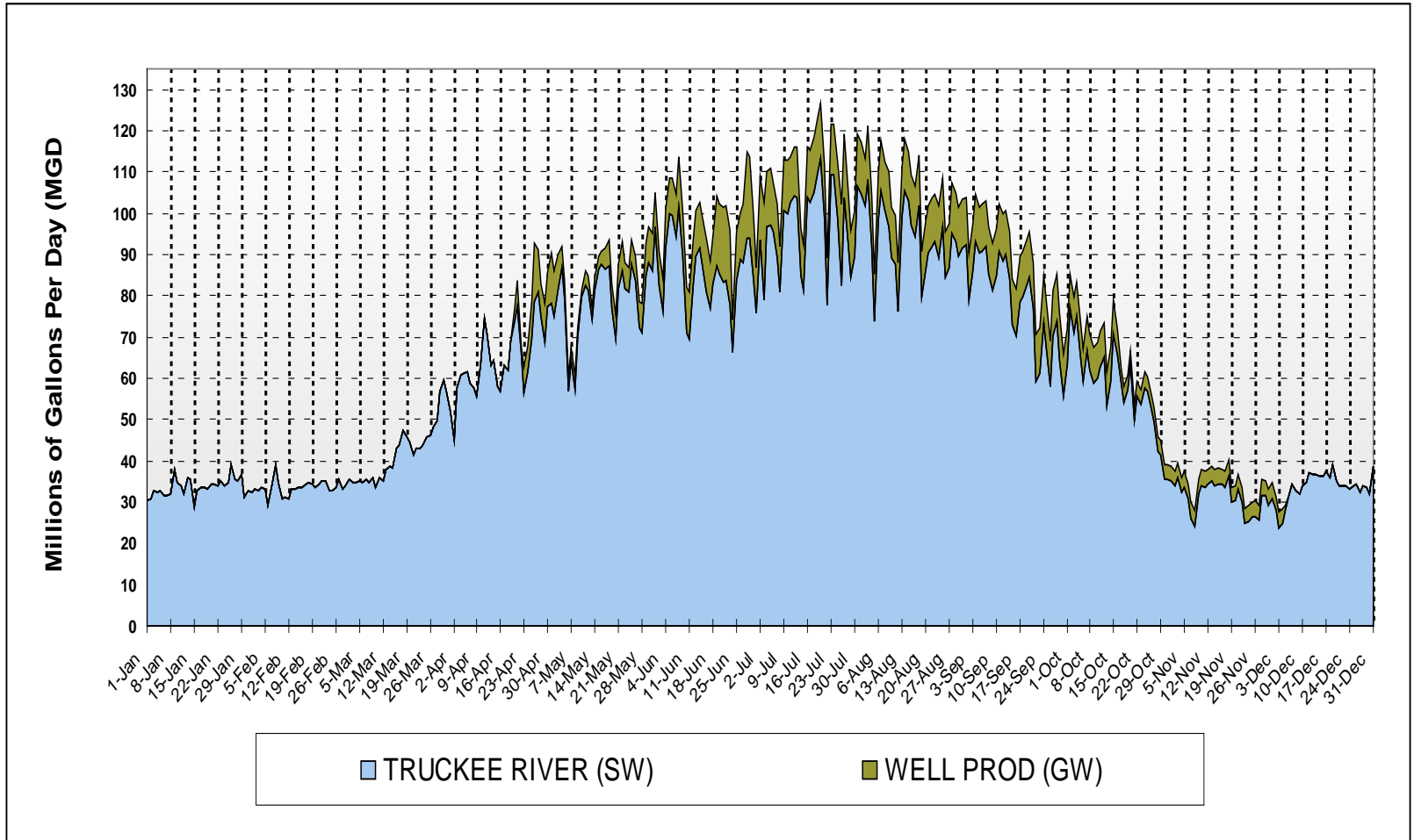
### USGS 10346000 TRUCKEE R A FARAD CA





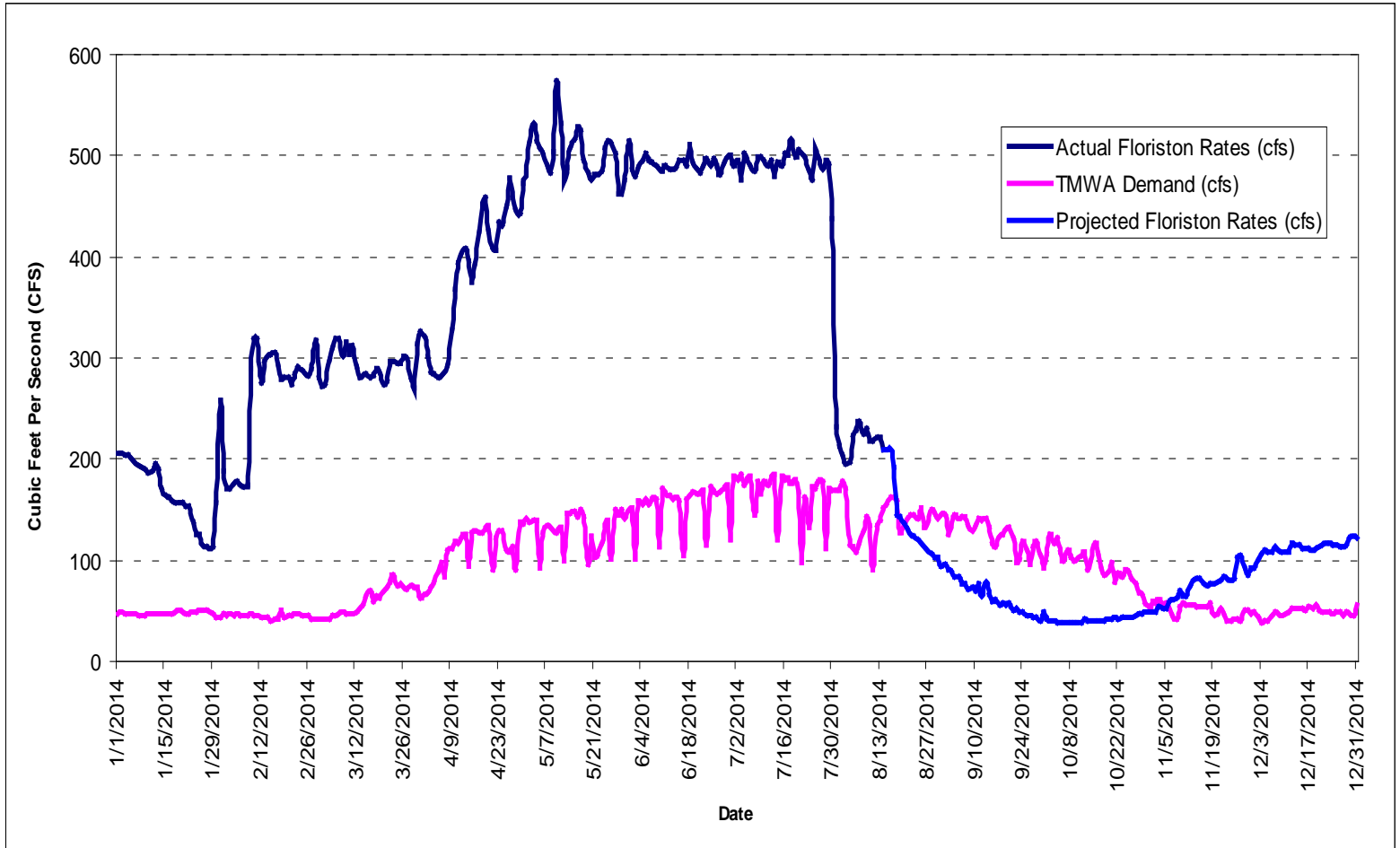


## Typical TMWA Demand Curve and Sources of Supply (2013 Actual)

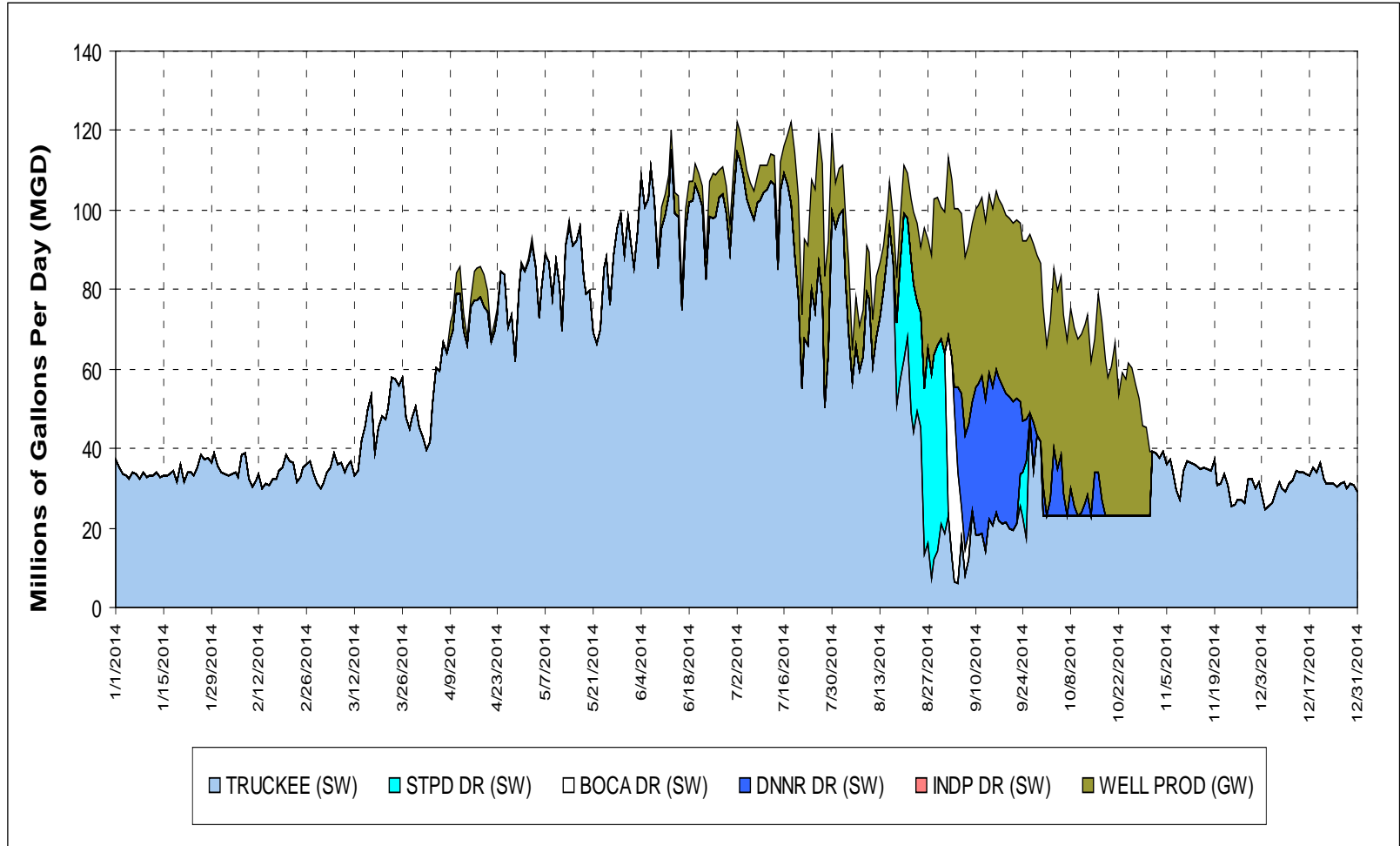




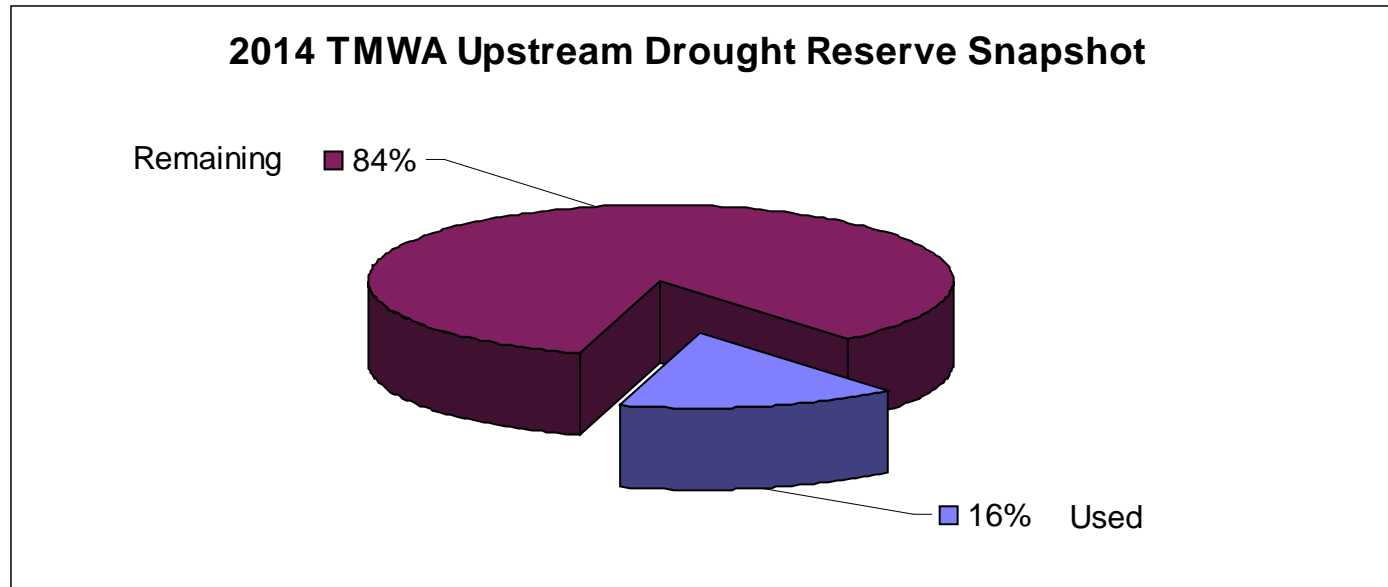
## 2014 Actual and Projected TMWA Daily Demand and River Flow



### 2014 TMWA Actual and Projected Demand and Sources of Supply (actual through 9/30)



## 2014 TMWA Upstream Drought Reserve Snapshot





# 2014 TMWA Upstream Drought Reserve Usage

## TMWA 2014 DROUGHT RESERVE USAGE<sup>1</sup>

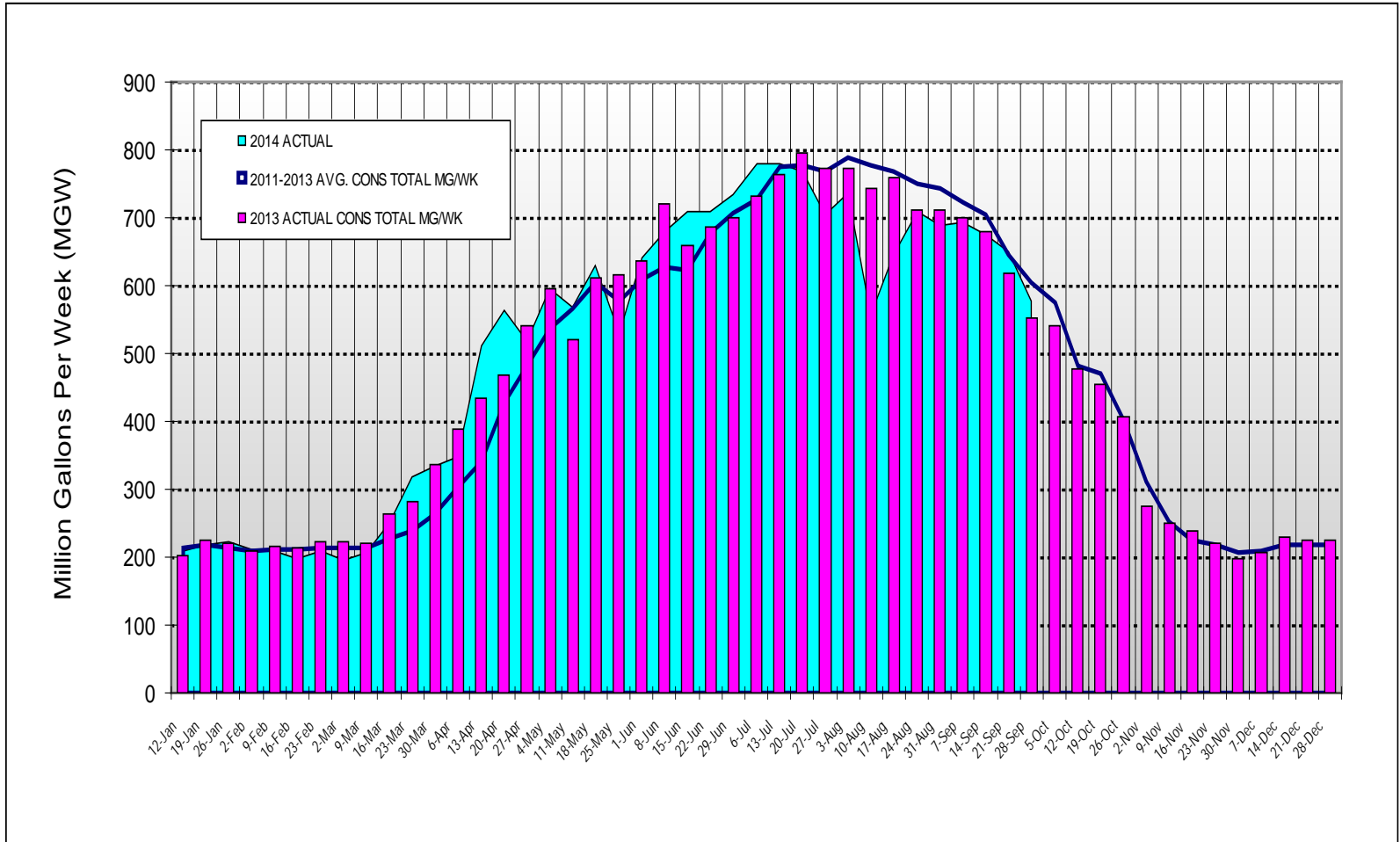
Date	Stampede (ISC)	Boca	Donner	Independence	Release	Release	Cumulative	SW Balance	Used	Remaining
Start (AF)	6,377	800	3,600	16,717				27,494		
Release	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(AF)	(AF)	(AF)	(%)	(%)
1-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
2-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
3-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
4-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
5-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
6-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
7-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
8-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
9-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
10-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
11-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
12-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
13-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
14-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
15-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
16-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
17-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
18-Aug	-	-	-	-	-	-	-	27,494	0	100.0%
19-Aug	-	-	-	-	-	-	-	27,494	0.2%	99.8%
20-Aug	23	-	-	-	23	46	46	27,448	0.6%	99.4%
21-Aug	58	-	-	-	58	114	160	27,334	1.0%	99.0%
22-Aug	46	-	-	-	46	92	252	27,242	1.3%	98.7%
23-Aug	60	-	-	-	60	119	371	27,123	1.7%	98.3%
24-Aug	58	-	-	-	58	115	486	27,008	2.2%	97.8%
25-Aug	42	-	-	-	42	84	570	26,924	2.5%	97.5%
26-Aug	44	-	-	-	44	88	658	26,836	2.8%	97.2%
27-Aug	65	-	-	-	65	128	786	26,708	2.9%	97.1%
28-Aug	76	-	-	-	76	150	936	26,558	3.4%	96.6%
29-Aug	80	-	-	-	80	159	1,095	26,399	4.0%	96.0%
30-Aug	80	-	-	-	80	159	1,253	26,241	4.6%	95.4%
31-Aug	62	-	-	-	62	124	1,377	26,117	5.0%	95.0%
1-Sep	-	72	-	-	72	142	1,519	25,975	5.5%	94.5%
2-Sep	-	63	-	-	63	125	1,644	25,850	6.0%	94.0%
3-Sep	-	70	-	-	70	139	1,782	25,712	6.5%	93.5%
4-Sep	-	77	8	-	86	170	1,952	25,542	7.1%	92.9%
5-Sep	-	67	33	-	100	199	2,151	25,343	7.8%	92.2%
6-Sep	-	41	45	-	86	170	2,321	25,173	8.4%	91.6%
7-Sep	-	9	44	-	54	106	2,427	25,067	8.8%	91.2%
8-Sep	-	5	43	-	48	95	2,522	24,972	9.2%	90.8%
9-Sep	-	-	43	-	43	84	2,606	24,888	9.5%	90.5%
10-Sep	-	-	58	-	58	114	2,720	24,774	9.9%	90.1%
11-Sep	-	-	59	-	59	117	2,837	24,657	10.3%	89.7%
12-Sep	-	-	61	-	61	121	2,958	24,536	10.8%	89.2%
13-Sep	-	-	68	-	58	116	3,074	24,420	11.2%	88.8%
14-Sep	-	-	57	-	57	113	3,187	24,307	11.6%	88.4%
15-Sep	-	-	54	-	54	106	3,294	24,200	12.0%	88.0%
16-Sep	-	-	56	-	56	111	3,404	24,090	12.4%	87.6%
17-Sep	-	-	56	-	56	110	3,515	23,979	12.8%	87.2%
18-Sep	-	-	54	-	54	107	3,622	23,872	13.2%	86.8%
19-Sep	-	-	50	-	50	99	3,721	23,773	13.5%	86.5%
20-Sep	-	-	51	-	51	101	3,822	23,672	13.9%	86.1%
21-Sep	-	-	50	-	50	99	3,921	23,573	14.3%	85.7%
22-Sep	-	-	49	-	49	97	4,018	23,476	14.6%	85.4%
23-Sep	12	-	28	-	40	80	4,098	23,396	14.9%	85.1%
24-Sep	18	-	21	-	38	76	4,174	23,320	15.2%	84.8%
25-Sep	30	-	17	-	46	92	4,266	23,228	15.5%	84.5%
26-Sep	-	-	2	-	2	4	4,270	23,224	15.5%	84.5%
27-Sep	-	-	19	-	19	37	4,307	23,187	15.7%	84.3%
28-Sep	-	-	-	-	-	-	4,307	23,187	15.7%	84.3%
29-Sep	-	-	-	-	-	-	4,307	23,187	15.7%	84.3%
Used	1,495	800	2,011	-	-	-	4,307		15.7%	84.3%
Remaining	4,882	(0)	1,589	16,717				23,187		

<sup>1</sup> Drought Reserves (DR) are a combination of TMWA privately-owned water in Donner Lake, Independence Lake, Boca and Stampede reservoirs





## TMWA Water Consumption (2014 Actual, 2013 Actual and 2011-2013 Average)





Thank you!  
Questions?

Bill Hauck, Senior Hydrologist  
Email: [bhauck@tmwa.com](mailto:bhauck@tmwa.com)  
O: (775) 834-8111, M: (775) 250-1333

