

Series 2014C Water Revenue Bonds

Board of Directors April 22, 2014



Proposed Financings for FY14



	Description	Issue/Approximate Size	Date of Board Action	Pricing or Issuance Date
1	Replace Royal Bank of Canada and Barclays Bank as remarketing agents for the District's outstanding Water Series 2008A-1, 2008A-2 and 2008A-3 Bonds	W 2008A-1: \$61.7 million W 2008A-2: \$46.3 million W 2008A-3: \$46.3 million	9/24/2013	12/10/2013
2	Authorization for Opportunistic Water and Wastewater Restructurings for De-Risking and Fixed Rate Refundings	Based on Market Opportunities	9/24/2013	TBD
3	Remarket the Water Series 2009A-1 and Series 2009A-2 Securities Industry and Financial Markets Association (SIFMA) Index Bonds to establish a new interest rate period	W 2009A-1: \$41.04 million W 2009A-2: \$41.04 million	10/22/2013	12/3/2013
4	Renew or replace Bank of America (BofA) and JPMorgan Chase Bank (JPM) as liquidity providers for Water Series 2008A-4, Water Series 2008B-3 and Wastewater Series 2008C Bonds and extend term	W 2008A-4: \$46.3 million W 2008B-3: \$15.1 million WW 2008C: \$51.7 million	10/22/2013	12/10/2013
5	Competitive Sale Refunding of Wastewater Series F (2003) G.O. Bonds	WW \$18.6 million	1/28/2014	2/27/2014
6	Remarket the Water Series 2011A-1 and A-2 SIFMA Index Bonds to establish a new interest rate period or refund with another product	W 2011A-1: \$74.1 million W 2011A-2: \$74.1 million	3/25/2014	5/2014
7	Renew or replace Wells Fargo Bank (WFB) as liquidity provider for Water Series 2008A-1 Bonds and extend term	W 2008A-1: \$61.7 million	10/22/2013	12/10/2013
8	Issue additional "New Money" Water Revenue Bonds	\$170.0 million	4/2014	5 - 6/2014

Debt Composition

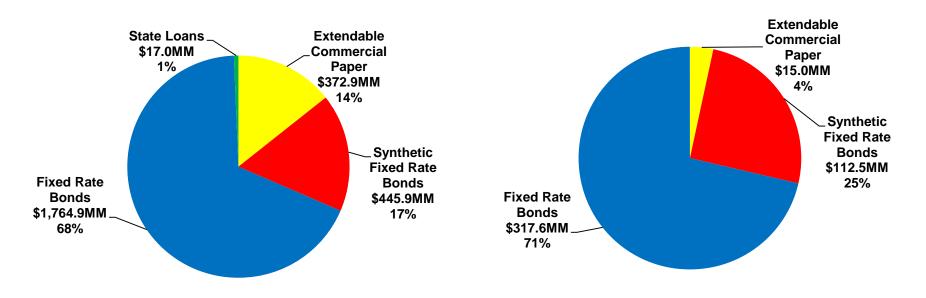


WATER SYSTEM

Total Outstanding Revenue Debt \$2.6 Billion

WASTEWATER SYSTEM

Total Outstanding Revenue Debt \$445.2 Million



"New Money" Series



Water System Revenue Bonds, Series 2014C

- \$75 million issue
- Fund a portion of budgeted capital expenditures for FY14 and FY15
- Simple bond structure:
 - Fixed Rate
 - 30-year maturity



Estimated Costs of Issuance Co-Bond Counsels Financial Advisors Rating Fees Tax Counsel Printer Trustee Contingency

\$121,000 56,000 68,300 40,000 5,000 4,100 20,000 \$314,400

Estimated Underwriter's Discount

\$150,000

Requested Action



• Adopt resolution providing for issuance of Water System Revenue Bonds, Series 2014C





.

.



Ordinance to Amend EBMUD Retirement System Ordinance No. 40 - Section 6(D)

Board of Directors April 22, 2014





 Section 6(d) of the Retirement Ordinance provides the rates of retirement contributions for retirement system members, and references that subsequent to December 15, 2003 rates shall not be increased or adjusted except pursuant to the terms of a negotiated collective bargaining agreement.



- The District completed successor bargaining with the four bargaining units, and completed the implementation of the bargained changes in January 2014.
- The bargained changes in retirement system member contributions for members of the 1980 plan were also adopted, by resolution, to apply to managers, confidentials, and nonrepresented employees of the District.



• The proposed update to the Retirement Ordinance, Section 6(d) updates language to show the negotiated increase in contributions for 1980 plan members

• And clarifies that these are not the rates for those members otherwise subject to PEPRA (Section 42 of the Retirement Ordinance).



1980 Member Contribution Rate Changes Negotiated:

- April 22, 2013 7.33%
- April 21, 2014 7.83%
- April 20, 2015 8.33%
- April 18, 2016

8.75%

Updates to Ordinance No. 40



• Action:

- After today's second reading, vote to approve the Retirement Ordinance changes.

• Fiscal Impact:

- There are no fiscal impacts associated with the proposed language changes.



Steps to Finalize Adoption of Ordinance Amendments:

- Second reading and vote to adopt, April 22, 2104
- The Ordinance amendment must be placed in newspaper for 2 successive weeks
- Adoption of the Ordinance amendment takes effect
 30 days after the vote to adopt, May 22, 2014



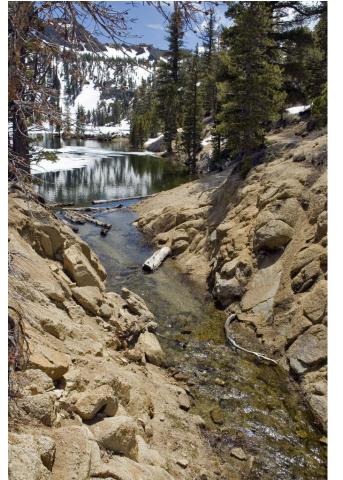
Water Supply Availability & Deficiency Report for 2014

Water & Natural Resources Department April 22, 2014



Supply Outlook for 2014 (forecast as of 4/22/14)





Precipitation to Date

Mokelumne Basin = 53% of average East Bay Watershed = 51% of average

Projected Runoff

WY2014 Runoff forecast = 235 TAF¹ (Average year = 745 TAF)

Projected Total System Storage

September 30 forecast = 415 TAF^1

JSA Year Type (Apr-Sept)

Dry²

Median Condition
 Based on DWR Apr 1st Water Supply Forecast of 310 TAF

•

•

٠



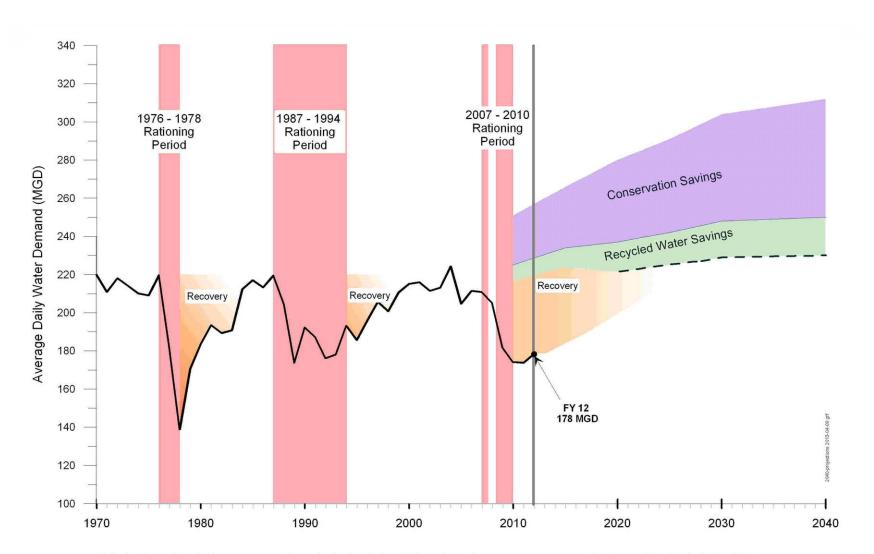
- Evaluates availability of District's water supplies
- Determines Allowable Maximum Level of annual Demand (AMLD)
 - \rightarrow AMLD = demand met by existing sources and rationing up to 15%
- Report on the adequacy of District's water supplies in the year 2040



- District's water supply is deficient for meeting customer demands in 2014.
- Projected runoff requires 'Dry' year flows for fishery protection under the District's Joint Settlement Agreement (JSA)
- The Allowable Maximum Level of Demand (AMLD) for 2040 is 189 MGD, requiring the District to continue pursuing projects to meet the projected level of demand of 230 MGD.

Policy 9.03 - Water Supply Availability and Deficiency





Following the ending of voluntary customer demand reductions in Sep 2007, no demand management program was in effect until its adoption in May 2008.



Water Year 2014 Dry Year Planning

April 22, 2014









FREEPORT

INTERTIES

Recommended Actions



- Declare the need to use Freeport in May and June 2014
- Suspend the implementation of the supplemental supply surcharge for FY14
- Reaffirm the 2014 Preliminary Dry Year Response Plan

Freeport Regional Water Project





Players

- Freeport Regional Water Authority (FRWA)
- Sacramento County Water Agency (SCWA)
- East Bay Municipal Utility District (EBMUD)
- US Bureau of Reclamation (USBR)



<u>Project</u>

- 185 MGD Regional Facility
 - 100 MGD EBMUD
 - 85 MGD SCWA
- 3 Pumping Plants
- 36 miles of transmission pipelines
- Project complete November 2011
- EBMUD share of costs = \$482M

Freeport Regional Water Project Sacramento River to East Bay





Freeport Regional Water Project Water Quality



- All treated water meets or surpasses state and federal regulations
- Increase in customers receiving water from the conventional plants
- Local and supplemental supplies have different chemistry than Mokelumne supply
- Standard practice is to notify in advance those industrial customers that are sensitive to changes in water chemistry

Freeport Regional Water Project Supplemental Supply



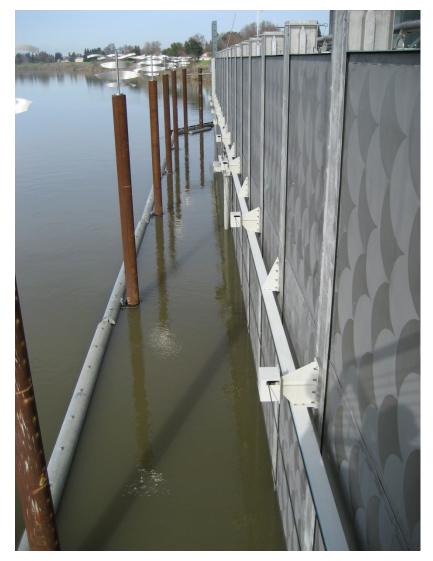


- Requested and paid for CVP water in April and May
- 5,000 acre-feet of Placer County Water Agency water approved
- Submitted preliminary request for 66,500 acre-feet of water to U.S. Bureau of Reclamation assuming continuing dry conditions

April 2014 Systems Testing



- · April 2014 Systems Testing
 - Fish Monitoring
 - Hydraulic Evaluation
 - District Systems Testing
- Sacramento River at Freeport to San Pablo Reservoir
- Approximately 130 miles traveled
- Discharge 30 to 90 mgd
- 6,700 acre feet delivery planned for April 2014

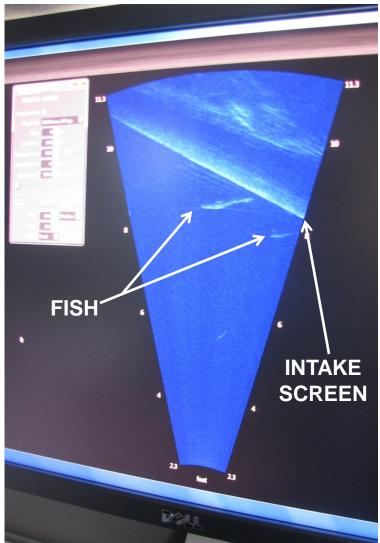


April 2014 Systems Testing Fish Monitoring – Impingement



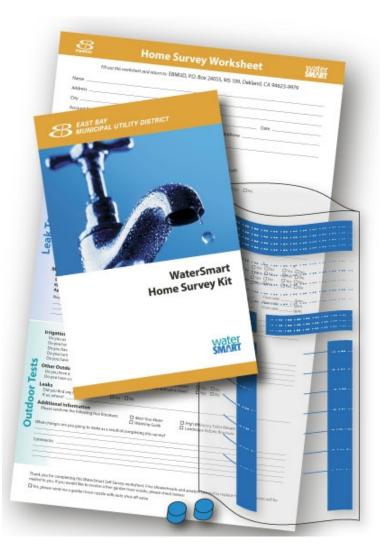


- Scheduled when Delta smelt most likely in vicinity
- 90 million gallons per day per forebay
- Check for impingement onto fish screen



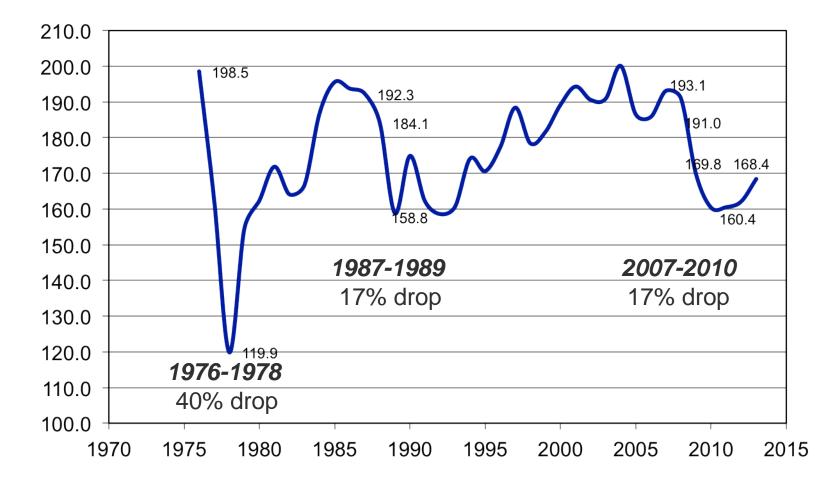
Water Rationing & Conservation







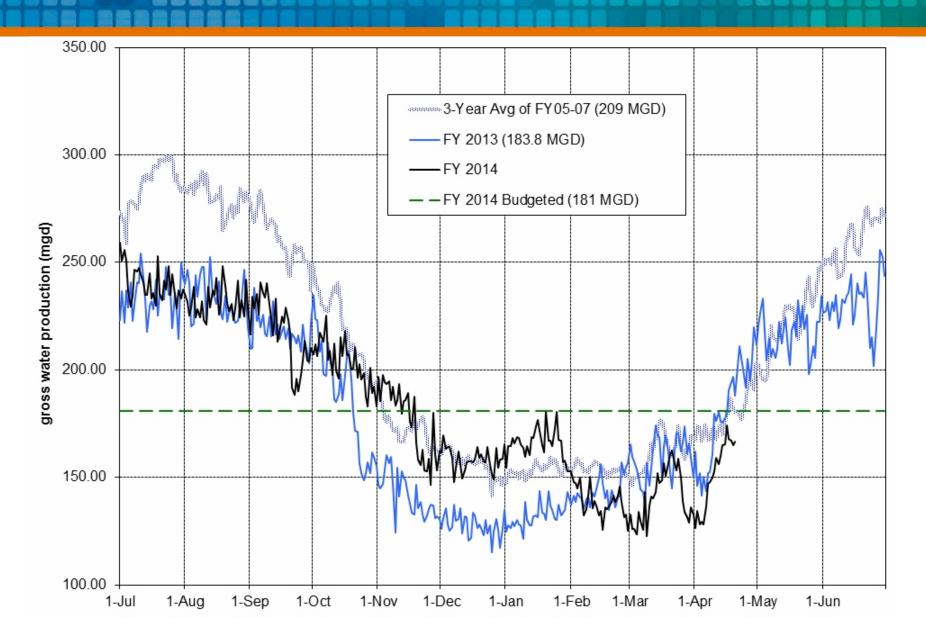
Metered Consumption



MGD

EBMU

Current Gross Water Production



Drought Management Update





	Feb 12-28	March 1-31	April 1-20
Avg Demand - 2013	146 mgd	159 mgd	169 mgd
Avg Demand - 2014	136 mgd	141 mgd	151 mgd
Savings Goal	15 mgd	16 mgd	17 mgd
Actual Savings	10 mgd	18 mgd	18 mgd
Actual Savings Rate	7%	11%	10%

Next Steps



May 13th

 Final Dry Year Response Plan for Board consideration

Summer

- Ongoing customer outreach
- Regular monitoring and reporting on water supply
- Begin evaluation of actions for 2015 in case dry conditions persist

Fall

 Reassess water supply situation and consider additional actions as necessary

Recommended Actions

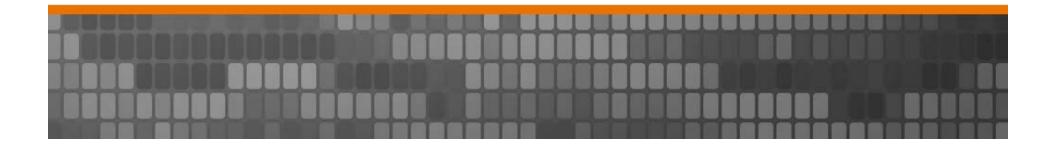


- Declare the need to use Freeport in May and June 2014
- Suspend the implementation of the supplemental supply surcharge for FY14
- Reaffirm the 2014 Preliminary Dry Year Response Plan



Water Supply Briefing

April 22, 2014



Water Supply Briefing

- Statewide Water Supply
- Precipitation & Snow
- · Reservoir Storage
- Water Supply Forecast



Statewide Water Supply Status (Storage in Thousand Acre-Feet)

Reservoir	Capacity	WY 2013	WY 2014	Percent of Capacity	Percent of Average	
Trinity	2,448	2,147	1,304	53	67	
Shasta	4,552	3,882	2,401	53	62	
Oroville	3,538	3,103	1,856	53	70	
Folsom	977	667	529	54	76	
New Melones	2,420	1,523	979	40	60	
Fed. San Luis	966	724	556	58	68	
Millerton	520	320	188	36	51	

EBMUD System	767	648	471	61	75
--------------	-----	-----	-----	----	----

As of April 20, 2014

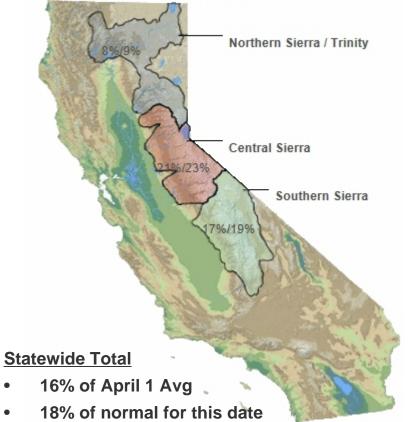
Statewide Snow Water Content Updated April 21st

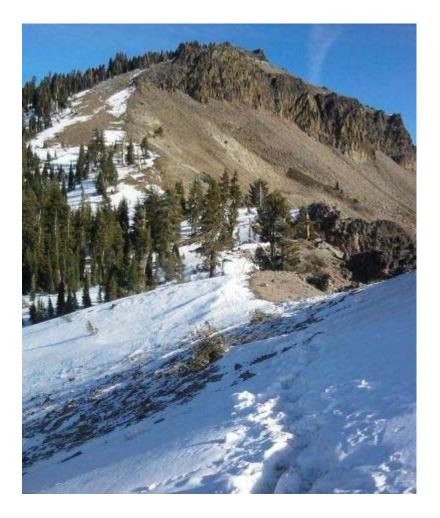
Snow Water Equivalents

Provided by the California Cooperative Snow Surveys

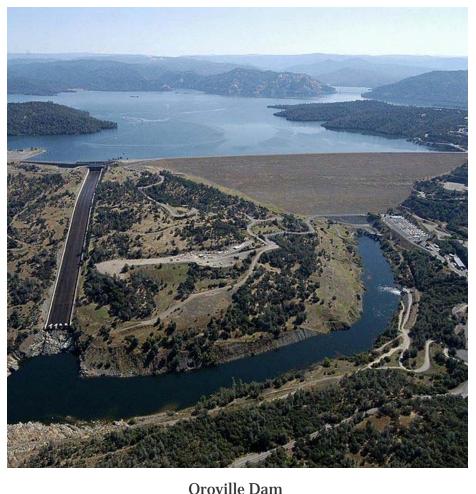
Data For: 21-Apr-2014

% Apr 1 Avg. / % Normal for this Date





DWR – State Water Project (SWP)



State Water Project

- Supplies 29 water agencies (25 million Californians and 750,000 acres of farmland)
- Delivers water to two-thirds of California's population

Allocation Update (Apr 18)

- Increased to 5% allocation
- Initial allocation on Jan 31, 2014 was 0%
- Still lowest overall allocation in SWP history



Allocation Update (April 18)

- North of Delta, Municipal & Industrial (M&I) Water contractor serviced by Folsom Reservoir on American River
- Max annual drought supply = 66.5 TAF (50% of 133 TAF)

CVP Contractor	North of Delta	South of Delta			
Agricultural (Ag)	0%	0%			
Urban (M&I)	50%	50%			
American River (M&I)	50%				
In Delta - Contra Costa	50%				
Settlement Contractors	75%	40%			
Wildlife Refuges (Level 2)	75%	40%			
Eastside Division	55	55%			
Friant (Class 1 / 2)	0% / 0%				





Current Precipitation & Snow

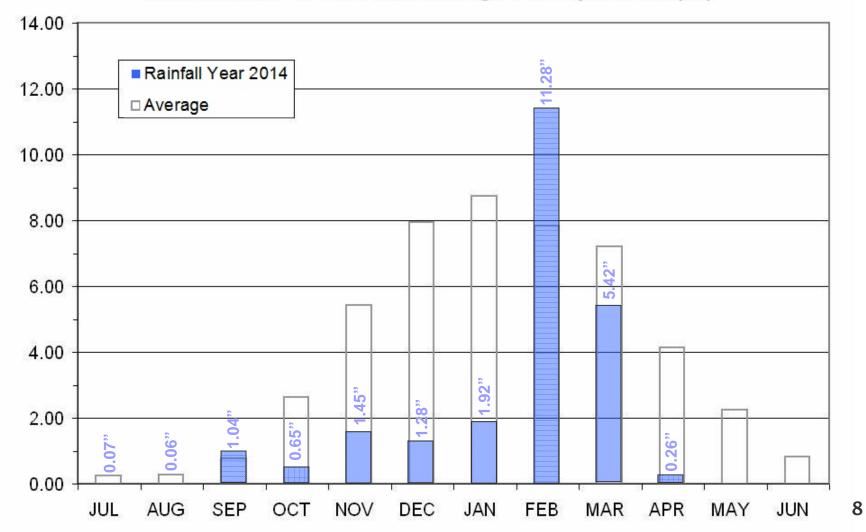


As of 04/20/14	Cumulative Precipitation	% of Average		
East Bay				
East Bay Watershed	12.84"	51%		
Mokelumne Basin				
4-Station Average	23.43"	53%		
Caples Lake Snow Depth	14"	25%		
Caples Lake Snow Water Content	9"	36%		





Mokelumne 4-Station Average Precipitation (in)

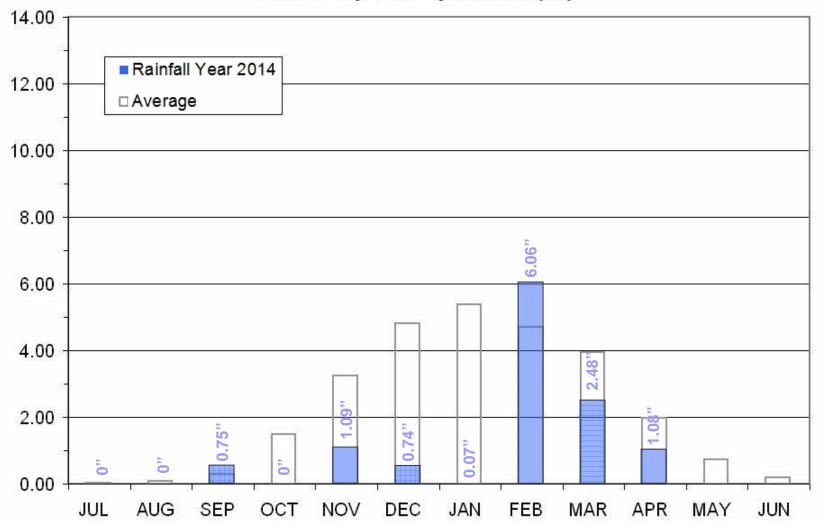


Current East Bay Precipitation

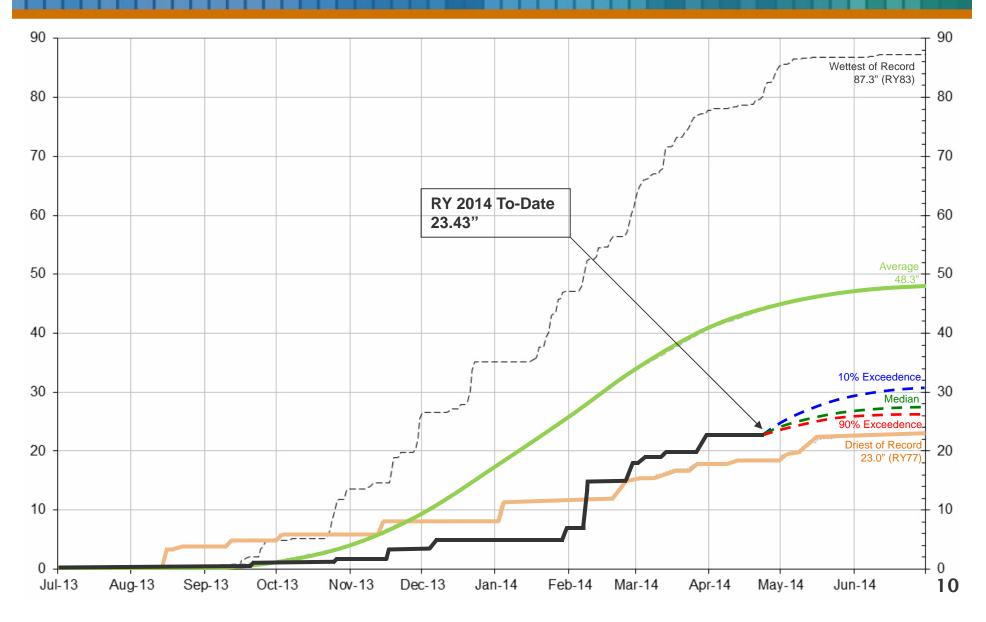
East Bay Precipitation (in)

EBMUD

9



Rainfall Year 2014 Projection Mokelumne Precipitation

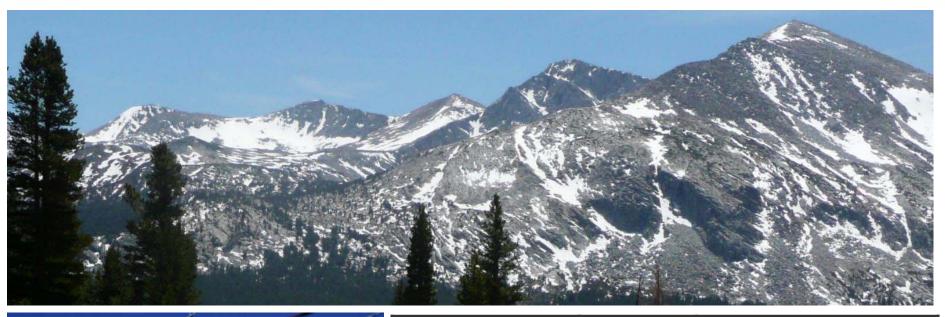


Current Reservoir Storage



As of 04/20/14	Current Storage	Percent of Capacity	Percent of Average		
Pardee	163,280 AF	82%	89%		
Camanche	179,960 AF	43%	59%		
East Bay	127,400 AF	84%	90%		
Total System	470,640 AF	61%	75%		

Water Supply Runoff Forecast (Projections as of April 22, 2014)

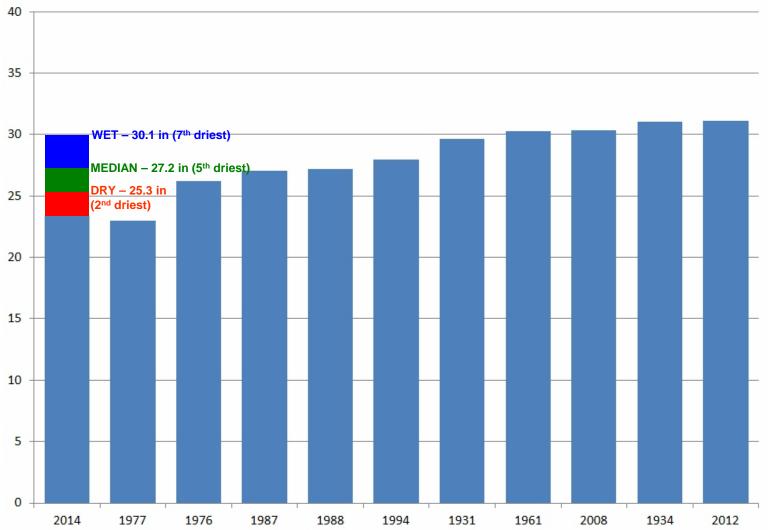


	Forecast	Annual Runoff	Total System Storage (on Sept 30, 2014)
	90% Exceedence (9 of 10 years are wetter)	190 TAF	370 TAF
	50% Exceedence (5 of 10 years are wetter)	235 TAF	415 TAF
	10% Exceedence (1 of 10 years is wetter)	300 TAF	490 TAF
and the second s	Average Year	745 TAF	630 TAF 12

Dry Year Comparison

ЕВМИД

Precipitation (in) - Top Ten Driest Rainfall Years



13



- Rainfall Year 2014 is the 2nd driest year in the Mokelumne watershed
- 9% of the precipitation accumulation season remains
- Received about 140,000 acre-feet of runoff to date
- Projected end of September storage with median precipitation is 415,000 acre-feet



WATER SUPPLY ENGINEERING DAILY REPORT

Monday, April 21, 2014

		KESEN	VOIK 510	NAGE AN	DELEVATION				
		SURFACE	STOR.		MAXIMUM		7		~
	Elevation	+Gain		+Gain	Elevation	Storage		Release	Spill
MOKELUMNE	<u>Feet</u>	<u>-Loss</u>	<u>Ac-Ft</u>	<u>-Loss</u>	Feet	<u>Ac-Ft</u>		<u>Cfs</u>	<u>Cfs</u>
Pardee	551.13	0.03	163,340	60	567.65	197,950		11	0
Camanche	197.18	-0.14	179,290	-670	235.50	417,120		326	0
EAST BAY	570.11	0.22	56 240	220	576 14	60 510		0	0
Briones Chabot	570.11 218.52	-0.33 -0.02	56,240 7,620	-230 0	576.14 227.25	60,510 10,350		0 0	0
Lafayette	444.94	-0.02 0	3,730	0	449.16	4,250		0	0
San Pablo	303.81	0.37	30,860	270	313.68	38,600		0	0
Upper San Leandro	446.75	-0.13	<u>28,910</u>	<u>-80</u>	459.98	<u>37,960</u>		0	0
Total East Bay Res.		0110	127,360	<u>-40</u>		<u>151,670</u>		0	0
TOTAL SYSTEM STORA	CE		469,990	-650		766,740			
	UTION SYS	STEM	409,990	-030		MOKELU	IMNE SVO	TEM	
		5 I E.M							
DISTRIBUTION RESERV	<u>VOIRS</u>				AQU	JEDUCT D	ELIVERIE	<u>ES</u>	
		Storage	Operating			MG		Flow Cor	
		MG	Capacity		Line 1	0		Use for CV	
Today		381	720		Line 2	0		Use for CV	
Total Previous Day		<u>369</u>			Line 3	<u>102</u>	1.50.0	GRAV	ΊΤΥ
Total Change		12			TOTAL	102	158 Ci		
WATER PRODUCTION		Million	Constitut		FSCC TO MC	OK AQUED	OUCTS	9	0.2 MGD
WATER PRODUCTION AND DEMAND		Million <u>Gallons</u>	Capacity <u>MGD</u>		RIVER FLOW	VS AND RI	FLEASES		<u>Cfs</u>
		<u>12.7</u>	<u>1000</u> 25						<u>1737</u>
Lafayette WTP Orinda WTP		12.7	23 190		Mokelumne R Pardee Reserv		II FIOW		232
San Pablo WTP		0	190 30		Pardee Releas		cha Pas		11
Sobrante WTP		0	50		Pardee Releas		che Kes.		11
Upper San Leandro WTP		23.8	50 45		Camanche Re		kel River		326
Walnut Creek WTP		48.7	90		Camanene Re				520
					PG&E CO. ST	FORAGE (A	Acre-feet)		
TOTAL SURFACE PROD	DUCTION	190.2	430			·	<u>,</u>	Maximum	
Miscellaneous(Estimated	ł)	0.4				Storage	Change	Capacity	
TOTAL WATER PRODU	CTION	190.6		Old R	eservoirs	12,419	20	26,560	
Change in Distribution S	ystem	12		Salt Springs Res.		67,095	2199	141,857	
Wash Water from Distrib	oution Sys.	<u>4.4</u>		Lower	Bear Res.	32,724	<u>767</u>	52,025	
SYSTEM DEMAND		174.1		Total		112,238	2986	220,442	
East-of-Hills Demand		51.6							
West-of-Hills Demand		122.5							
RAW WATER TRANSM	IISSION A	c-ft			PRECIPITA	ATION (In	ches)		
	I <u>NPUT</u>	DRAFT			<u>THIS Y</u>	EAR		AVERAG	E YEAR
Briones Res.	0	202							
San Pablo Res.	281	10	STATION	I		This	Season	Season	Season
U. San Leandro Res.	<u>0</u>	<u>79</u>		-	<u>Today</u>	Month	to-Date	to-Date	Total
			USL WTF)	0	1.31	13.21	23.82	25.33
TOTAL	281	291	Orinda W	ТР	0	1.56	19.88	30.22	32.06
REMARKS			Lafayette		0	0.85	12.47	26.65	28.18
WID Canal Diversion = 44 cfs Walnut Cr			0	0.94	12.46	21.89	23.02		
Mokelumne River below $WID = 166 cfs$		Camp Pare	dee	0	0.72	12.42	19.85	21.56	
		Salt Spring		0	0.14	24.65	41.18	45.51	
				-	PLES LAKE (7,8	330 FT) DA	TA		
PG&E data as of 4:00 pm previous date.					Today		Average		
All other data as of midnig	-		Snow Dep	oth	7 Inches		55 Inches		
WTP capacities are sustain			Water Cor		8.5 Inches		5.6 Inches		
The subtain									

RESERVOIR STORAGE AND ELEVATION

EAST BAY MUNICIPAL UTILITY DISTRICT