

Jun 02, 2014

**LOWER COLORADO WATER SUPPLY REPORT**  
 River Operations  
 Bureau of Reclamation

Questions: [BCOOWaterops@usbr.gov](mailto:BCOOWaterops@usbr.gov)

(702) 293-8373

<http://www.usbr.gov/lc/region/g4000/weekly.pdf>

	PERCENT	Content 1000 ac-ft (kaf)	Elev. (Feet above mean sea level)	7-Day Release (CFS)
CURRENT STORAGE	FULL			
LAKE POWELL	45%	10,850	3590.33	7,900
* LAKE MEAD	41%	10,627	1087.32	18,300
LAKE MOHAVE	95%	1,722	643.84	16,000
LAKE HAVASU	95%	591	448.56	10,800
TOTAL SYSTEM CONTENTS **	49%	29,140		
As of 06/01/2014				
SYSTEM CONTENT LAST YEAR	52%	31,215		
* Percent based on capacity of 26,120 kaf or elevation 1219.6 feet.				
** TOTAL SYSTEM CONTENTS includes Upper & Lower Colorado River Reservoirs, less Lake Mead exclusive flood control space.				
Salt/Verde System	54%	1,258		
Painted Rock Dam	0%	0	530.00	0
Alamo Dam	5%	52	1087.79	25
Forecasted Water Use for Calendar Year 2014 (as of 06/02/2014) (values in kaf)				
NEVADA			273	
SOUTHERN NEVADA WATER SYSTEM				242
OTHERS				31
CALIFORNIA			4,161	
METROPOLITAN WATER DISTRICT OF CALIFORNIA				677
IRRIGATION DISTRICTS				3,373
OTHERS				111
ARIZONA			2,758	
CENTRAL ARIZONA PROJECT				1,529
OTHERS				1,229
TOTAL LOWER BASIN USE				7,192
DELIVERY TO MEXICO - 2014 (Mexico Scheduled Delivery + Preliminary Yearly Excess <sup>1</sup> )				1,570
OTHER SIGNIFICANT INFORMATION				
UNREGULATED INFLOW INTO LAKE POWELL - MAY MID-MONTH FORECAST DATED 05/19/2014				
		MILLION ACRE-FEET	% of Normal	
FORECASTED WATER YEAR 2014		10.833	100%	
FORECASTED APRIL-JULY 2014		7.550	105%	
APRIL OBSERVED INFLOW		0.964	91%	
MAY INFLOW FORECAST		2.400	102%	
		Upper Colorado Basin	Salt/Verde Basin	
WATER YEAR 2014 PRECIP TO DATE		100% (23.6")	52% (9.7")	
CURRENT BASIN SNOWPACK <sup>2</sup>		158% (3.3")	NA (NA)	

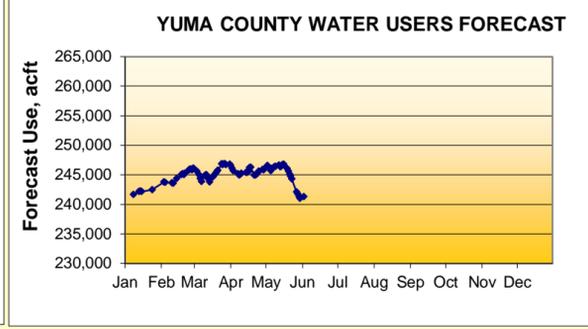
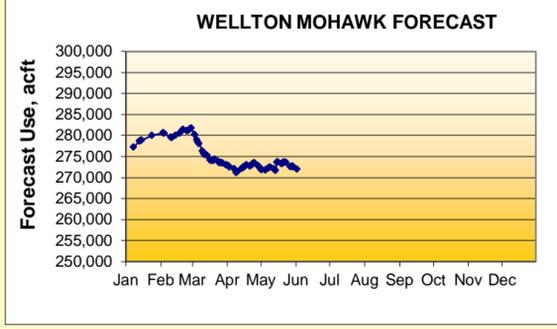
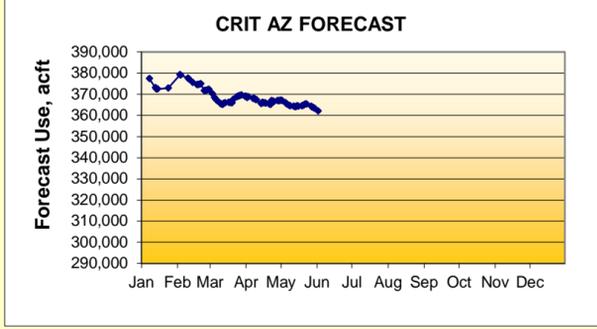
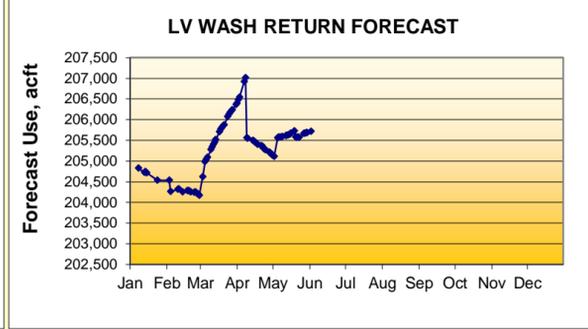
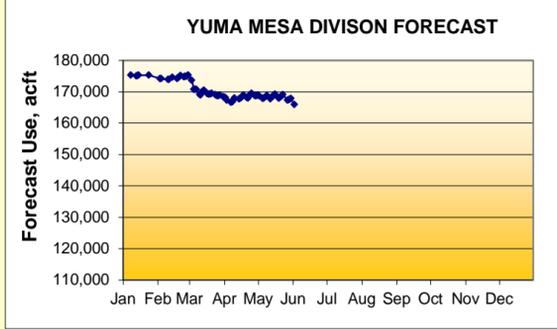
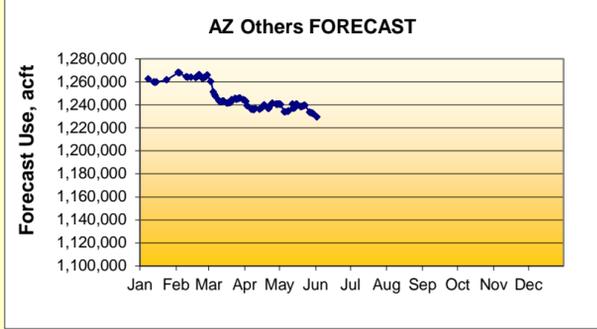
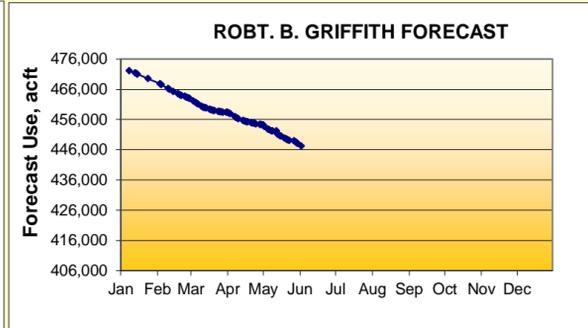
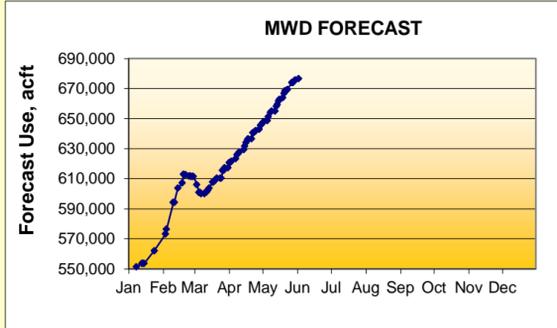
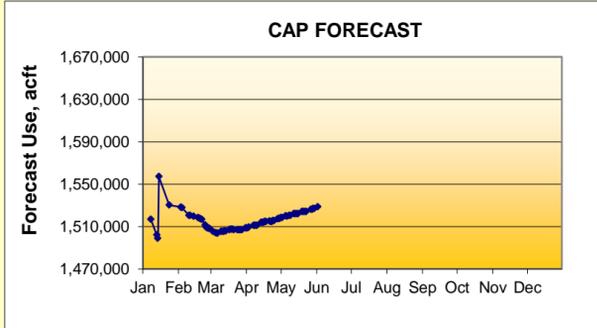
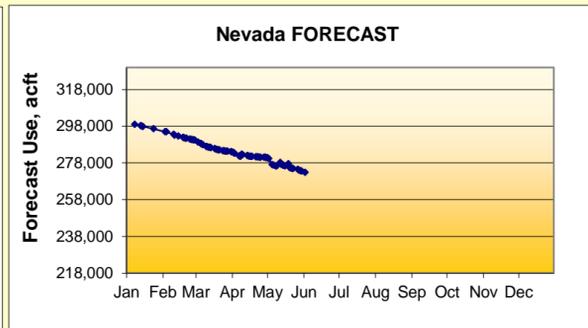
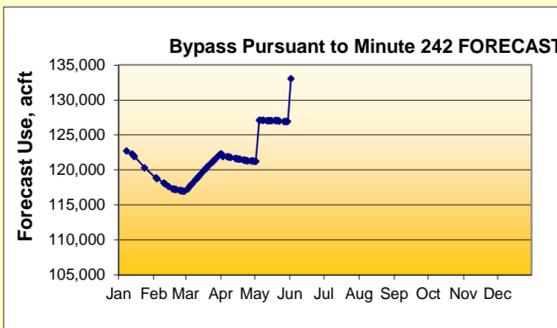
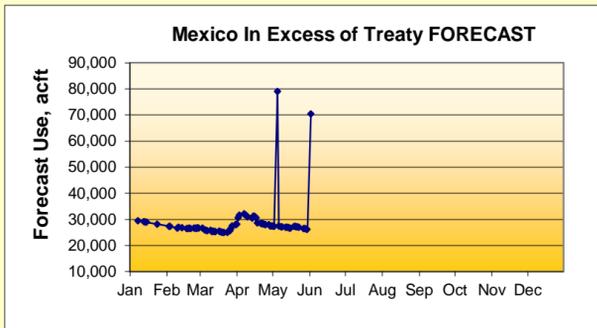
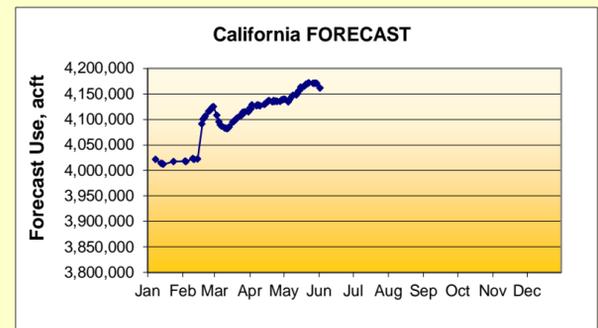
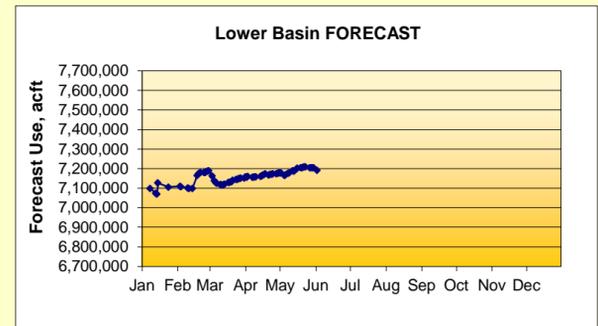
<sup>1</sup> Delivery to Mexico forecasted yearly excess calculated using year-to-date observed and projected excess.

<sup>2</sup> This late in the water year, snowpack values may not provide a valid measure of conditions.

ARIZONA, CALIFORNIA, NEVADA, MEXICO  
FORECAST OF END OF YEAR CONSUMPTIVE USE  
FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS /1  
(ACRE-FEET)

WATER USE SUMMARY	Use To Date CY2014	Forecast Use CY2014	Approved Use <sup>2</sup> CY2014	Excess to Approval CY2014
ARIZONA	1,266,325	2,757,781	2,799,672	-41,891
CALIFORNIA	1,933,983	4,161,284	4,020,262	141,022
NEVADA	82,450	272,760	300,000	-27,240
<b>STATES TOTAL /3</b>	<b>3,282,758</b>	<b>7,191,825</b>	<b>7,119,934</b>	<b>71,891</b>
MEXICO IN SATISFACTION OF TREATY (Including downward d TO MEXICO AS SCHEDULED	912,929	1,570,412	1,500,000	70,412
MEXICO IN EXCESS OF TREATY	859,934	1,500,000		
BYPASS PURSUANT TO MINUTE 242	56,005	132,972		
<b>TOTAL LOWER BASIN &amp; MEXICO</b>	<b>4,251,692</b>	<b>8,895,209</b>		

- 1/ Incorporates Jan-Apr USGS monthly data and 77 daily reporting stations which may be revised after provisional data reports are distributed by the USGS. Use to date estimated for users reporting monthly and annually.
- 2/ These values reflect adjusted apportionments. See Adjusted Apportionment calculation on each state page.
- 3/ Includes unmeasured returns based on estimated consumptive use/diversion ratios by user from studies provided by Arizona Dept. of Water Resources, Colorado River Board of California, and Reclamation.



Graph notes: Jan 1 forecast use is scheduled use in accordance with the Annual Operating Plan's state entitlements, available unused entitlements, and over-run paybacks. A downward sloping line indicates use at a lower rate than scheduled, upward sloping is above schedule, and a flat line indicates a use rate equal to schedule. Lower priority users such as CAP, MWD, and Robt.B.Griffith may adjust use rates to meet state entitlements as higher priority use deviates from schedule. Abrupt changes in the forecast use line may be due to a diversion schedule change or monthly updating of provisional realtime diversions.

NOTE:

- Diversions and uses that are pending approval are noted in *red italics*.
- Water users with a consumptive use entitlement - **Excess to Estimated Use** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a diversion entitlement.
- Water user with a diversion entitlement - **Excess to Approved Diversion** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a consumptive use entitlement.

CALIFORNIA WATER USERS  
FORECAST OF END OF YEAR CONSUMPTIVE USE  
FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS  
[California Schedules and Approvals](#)  
[Historic Use Records \(Water Accounting Reports\)](#)

WATER USER	Use To Date CY2014	Forecast Use CY2014	Estimated Use CY2014	Excess to Estimated Use CY2014	Diversion To Date CY2014	Forecast Diversion CY2014	Approved Diversion CY2014	Excess To Approved Diversion CY2014
CALIFORNIA PUMPERS	871	1,958	1,958	---	1,557	3,500	3,500	0
FORT MOJAVE INDIAN RESERVATION, CA	3,720	8,001	8,996	---	6,917	14,870	16,720	-1,850
CITY OF NEEDLES (includes LCWSP use)	859	1,931	1,931	0	1,210	2,720	2,720	0
METROPOLITAN WATER DISTRICT	453,254	676,752	546,660	---	454,512	680,093	549,763	---
COLORADO RIVER INDIAN RESERVATION, CA	1,533	3,444	3,444	---	2,629	5,909	5,909	0
PALO VERDE IRRIGATION DISTRICT	178,699	447,796	454,108	---	392,246	994,796	994,500	<b>296</b>
YUMA PROJECT RESERVATION DIVISION	29,173	50,657	47,886	---	45,209	98,364	102,700	-4,336
YUMA PROJECT RESERVATION DIVISION - INDIAN UNIT	---	---	---	---	21,848	47,263	49,100	-1,837
YUMA PROJECT RESERVATION DIVISION - BARD UNIT	---	---	---	---	23,361	51,104	53,600	-2,496
YUMA ISLAND PUMPERS	2,213	4,974	4,974	---	4,005	9,001	9,001	0
FORT YUMA INDIAN RESERVATION - RANCH 5	300	674	675	---	543	1,221	1,221	0
IMPERIAL IRRIGATION DISTRICT	1,092,333	2,521,242	2,506,803	<b>14,439</b>	1,094,536	2,588,709	2,607,017	---
SALTON SEA SALINITY MANAGEMENT	32,996	94,552	90,000	<b>4,552</b>	34,371	98,285	93,451	---
COACHELLA VALLEY WATER DISTRICT	137,655	348,455	352,000	-3,545	142,940	363,523	366,370	---
OTHER LCWSP CONTRACTORS	289	650	650	---	452	1,016	1,016	0
CITY OF WINTERHAVEN	31	69	69	---	46	104	104	0
CHEMEHUEVI INDIAN RESERVATION	57	128	6,101	---	5,046	11,340	11,340	0
<b>TOTAL CALIFORNIA</b>	<b>1,933,983</b>	<b>4,161,284</b>			<b>2,186,219</b>	<b>4,873,451</b>	<b>4,765,332</b>	
FORT YUMA INDIAN RESERVATION /1	---	---	---	---	23,933	51,984	53,821	-1,837

**CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION**

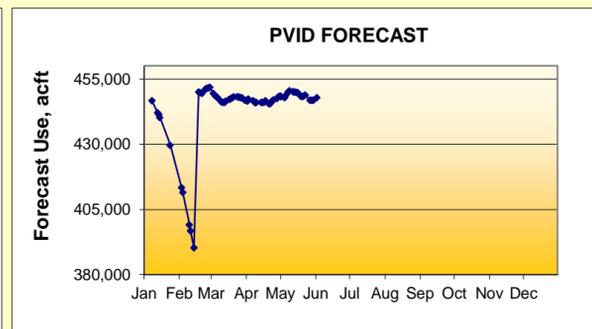
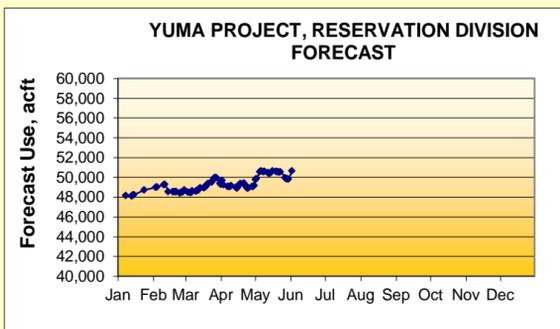
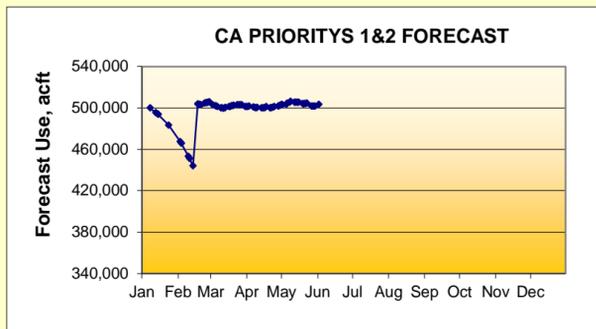
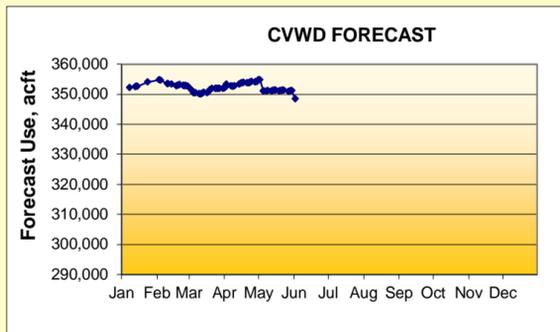
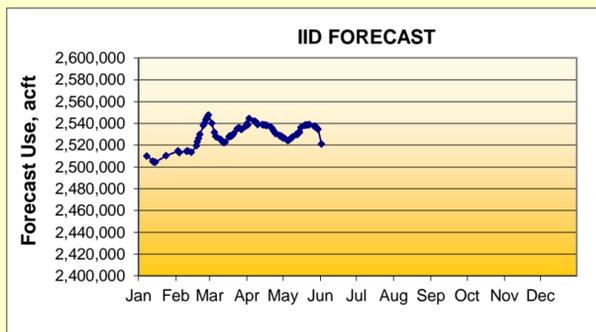
California Basic Apportionment	4,400,000
Payback of IOPP Overrun (IID)	-154,738
Intentionally Created Surplus Water (IID)	-25,000
Creation of Extraordinary Conservation ICS (MWD)	-200,000
<b>Total State Adjusted Apportionment</b>	<b>4,020,262</b>
Excess to Total State Adjusted Apportionment	141,022

**ISG ANNUAL TARGET COMPARISON CALCULATION**

Priorities 1, 2, 3b Use (PVID+YPRD+Island+PVID Mesa)	503,427
MWD Adjustment	-83,427
Total California Agricultural Use (PVID+YPRD+Island+IID+CVWD)	3,373,124
California Agricultural Paybacks	-154,738
Misc. PPRs Covered by IID and CVWD	14,500
California ICS Creation (IID ICS)	25,000
<b>Total Use for Target Comparison<sup>2</sup></b>	<b>3,174,459</b>
ISG Annual Target (Exhibit B)	3,462,000
Amount over/(under) ISG Annual Target	(287,541)

NOTES:

- Ranch 5
- Yuma Island assumed to be included in Priority 2.
- Click on California Schedules and Approvals above for incoming diversion schedules and approvals.
- 1/ Fort Yuma Indian Reservation includes Yuma Project Reservation Division Indian Unit, Ranch 5, an estimate of domestic use and pumpers.
- 2/ Includes MWD Adjustment, California Agricultural Use and Paybacks, IID-CVWD covered PPRs, and taking out the MWD-CVWD Exchange



U.S. BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
PROVISIONAL CY2014

## NOTE:

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ARIZONA WATER USERS  
FORECAST OF END OF YEAR CONSUMPTIVE USE  
FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS  
[Arizona Schedules and Approvals](#)  
[Historic Use Records \(Water Accounting Reports\)](#)

WATER USER	Use To Date CY2014	Forecast Use CY2014	Estimated Use CY2014	Excess to Estimated Use CY2014	Diversion To Date CY2014	Forecast Diversion CY2014	Approved Diversion CY2014	Excess to Approved Diversion CY2014
ARIZONA PUMPERS	7,940	17,842	17,842	---	12,285	27,607	27,607	0
LAKE MEAD NATIONAL RECREATION AREA, AZ	124	330	299	---	124	330	299	31
DAVIS DAM PROJECT	1	2	2	---	24	54	54	0
BULLHEAD CITY	2,230	7,575	8,522	---	3,327	11,305	12,720	-1,415
MOHAVE WATER CONSERVATION	220	494	494	---	328	738	738	0
BROOKE WATER LLC	94	212	212	---	141	317	317	0
MOHAVE VALLEY IDD	8,144	21,765	22,617	---	15,081	40,307	41,883	-1,576
FORT MOJAVE INDIAN RESERVATION, AZ	13,978	40,355	42,120	---	25,884	74,731	78,000	-3,269
GOLDEN SHORES WATER CONSERVATION DISTRICT	106	239	239	---	159	357	357	0
HAVASU NATIONAL WILDLIFE REFUGE	2,757	4,693	3,563	1,130	20,737	43,479	41,820	1,659
LAKE HAVASU CITY	3,722	9,427	9,083	---	5,000	14,202	14,650	-448
CENTRAL ARIZONA PROJECT	757,177	1,528,707	---	---	757,177	1,528,707	---	---
TOWN OF PARKER	132	356	362	-5	322	903	935	-32
COLORADO RIVER INDIAN RESERVATION, AZ	139,735	362,002	362,002	---	255,877	657,781	662,402	-4,621
EHRENBURG IMPROVEMENT ASSOCIATION	109	245	245	---	153	343	343	0
CIBOLA VALLEY IRRIGATION DISTRICT	7,543	16,951	16,951	---	10,549	23,707	23,707	0
CIBOLA NATIONAL WILDLIFE REFUGE	5,670	12,741	12,741	0	9,145	20,550	20,550	0
IMPERIAL NATIONAL WILDLIFE REFUGE	1,165	2,619	2,619	0	1,880	4,224	4,224	0
YUMA PROVING GROUND	194	537	504	---	194	537	504	33
GILA MONSTER FARMS	2,698	5,133	5,244	---	4,586	9,057	9,156	-99
WELLTON MOHAWK IDD	114,915	271,955	278,000	-6,045	167,735	413,702	424,997	---
CITY OF YUMA	6,151	16,052	16,451	-399	10,388	25,942	26,358	-416
MARINE CORPS AIR STATION YUMA	459	1,513	1,718	---	459	1,513	1,718	-205
UNION PACIFIC RAILROAD	15	32	29	---	20	48	48	0
YUMA MESA FRUIT GROWERS ASSOCIATION	0	0	0	---	0	0	0	0
UNIVERSITY OF ARIZONA	156	458	536	---	156	458	536	-78
YUMA UNION HIGH SCHOOL DISTRICT	90	183	150	---	109	234	200	34
YUMA MESA FRUIT COMPANY	0	0	0	---	0	0	0	0
DESERT LAWN MEMORIAL	6	39	46	---	9	56	66	-10
NORTH GILA VALLEY IDD	4,545	10,170	12,383	---	20,166	50,371	51,963	-1,592
YUMA IRRIGATION DISTRICT	18,656	40,938	42,991	---	32,375	74,341	76,600	-2,259
YUMA MESA IDD	41,996	114,824	119,077	---	75,270	208,013	217,488	-9,475
UNIT "B" IRRIGATION DISTRICT	7,805	20,711	20,409	---	11,417	32,594	33,450	-856
FORT YUMA INDIAN RESERVATION	622	1,397	1,397	---	957	2,150	2,150	0
YUMA COUNTY WATER USERS' ASSOCIATION	115,666	241,313	241,117	---	167,582	377,615	383,000	-5,385
COCOPAH INDIAN RESERVATION	1,395	5,722	6,598	---	1,406	8,010	10,055	-2,045
RECLAMATION-YUMA AREA OFFICE	110	247	247	---	110	247	247	0
RETURN FROM SOUTH GILA WELLS	0	0	0	---	---	---	---	---
<b>TOTAL ARIZONA</b>	<b>1,266,325</b>	<b>2,757,781</b>	<b>2,784,718</b>		<b>1,611,133</b>	<b>3,654,530</b>	<b>3,707,045</b>	
CAP	757,177	1,528,707				1,528,707		
ALL OTHERS	509,148	1,229,074	1,246,811			2,125,823	2,169,142	
YUMA MESA DIVISION, GILA PROJECT	65,197	165,932	250,000	-84,068		332,725		

**ARIZONA ADJUSTED APPORTIONMENT CALCULATION**

Arizona Basic Apportionment	2,800,000
Payback of IOPP overruns (Cocopah, Beattie Farms)	-328
System Conservation Created in Arizona (YMIDD)	
Intentionally Created Unused Apportionment for MWD	
Total State Adjusted Apportionment	2,799,672
Excess to Total State Adjusted Apportionment	-41,891

Estimated Allowable Use for CAP 1,572,669

## NOTES:

Click on Arizona Schedules and Approvals above for incoming diversion schedules and approvals.

06/02/14

U.S. BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
PROVISIONAL CY2014

## NOTE:

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## NEVADA WATER USERS

FORECAST OF END OF YEAR CONSUMPTIVE USE

FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS

[Nevada Schedules and Approvals](#)[Historic Use Records \(Water Accounting Reports\)](#)

WATER USER	Use To Date CY2014	Forecast Use CY2014	Estimated Use CY2014	Excess to Estimated Use CY2014	Diversion To Date CY2014	Forecast Diversion CY2014	Approved Diversion CY2014	Excess To Approved Diversion CY2014
ROBERT B. GRIFFITH WATER PROJECT (SNWS)	160,173	447,230	473,360	-26,130	160,173	447,230	473,360	-26,130
LAKE MEAD NATIONAL RECREATION AREA, NV.	247	714	792	---	247	714	792	-78
BASIC MANAGEMENT INC.	2,325	7,025	8,208	---	2,325	7,025	8,208	-1,183
CITY OF HENDERSON (BMI DELIVERY)	6,957	17,293	15,878	---	6,957	17,293	15,878	1,415
CITY OF BOULDER CITY AT HOOVER DAM	0	0	0	---	0	0	0	0
NEVADA STATE DEPT. OF FISH & GAME	4	12	12	0	182	387	300	---
PACIFIC COAST BUILDING PRODUCTS INC.	355	900	928	---	355	900	928	-28
BOULDER CANYON PROJECT	18	40	40	---	32	72	72	0
SOUTHERN CALIFORNIA EDISON	0	0	0	0	0	0	0	0
BIG BEND WATER DISTRICT	711	2,196	2,062	---	1,599	4,839	4,961	-122
BIG BEND CONSERVATION AREA	0	0			0	0		
FORT MOJAVE INDIAN TRIBE	802	3,062	3,685	---	1,199	4,572	5,500	-928
LAS VEGAS WASH RETURN FLOWS	-89,143	-205,712	-204,964	---				
<b>TOTAL NEVADA</b>	<b>82,450</b>	<b>272,760</b>	<b>300,001</b>	<b>-27,241</b>	<b>173,070</b>	<b>483,032</b>	<b>509,999</b>	<b>-27,054</b>
SOUTHERN NEVADA WATER SYSTEM (SNWS)	71,030	241,518				447,230		
ALL OTHERS	11,420	31,242				35,802		
NEVADA USES ABOVE HOOVER	80,936	267,502				473,621		
NEVADA USES BELOW HOOVER	1,514	5,258				9,411		
<b>Tributary Conservation &amp; Imported Intentionally Created Surplus</b>								
Total Requested Tributary Conservation Intentionally Created Surplus		37,000						
Total Requested Imported Conservation Intentionally Created Su		9,000						
5% System Cut for Creation of Intentionally Created Surplus		-2,300						
Total Intentionally Created Surplus Left in Lake Mead		43,700						
<b>NEVADA ADJUSTED APPORTIONMENT CALCULATION</b>								
Nevada Basic Apportionment		300,000						
Excess to Total State Adjusted Apportionment		-27,240						

## NOTES:

Click on Nevada Schedules and Approvals above for incoming diversion schedules and approvals.



# COLORADO BASIN RIVER FORECAST CENTER

NATIONAL WEATHER SERVICE / NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RIVERS SNOW WATER SUPPLY RESERVOIRS WEATHER HELP

Conditions Map Conditions List Snow Groups

Areas: CBRFC Upper Colorado Green San Juan Great Sevier Virgin Lower Colorado

## Snow Conditions

### Snow Conditions

Data Queried: Tue, 03 Jun 2014 12:00:02 -0600

[Help](#), [Double Click Map to Zoom](#), Lat: 37.6 Lng: -110.5, Zoom: 6

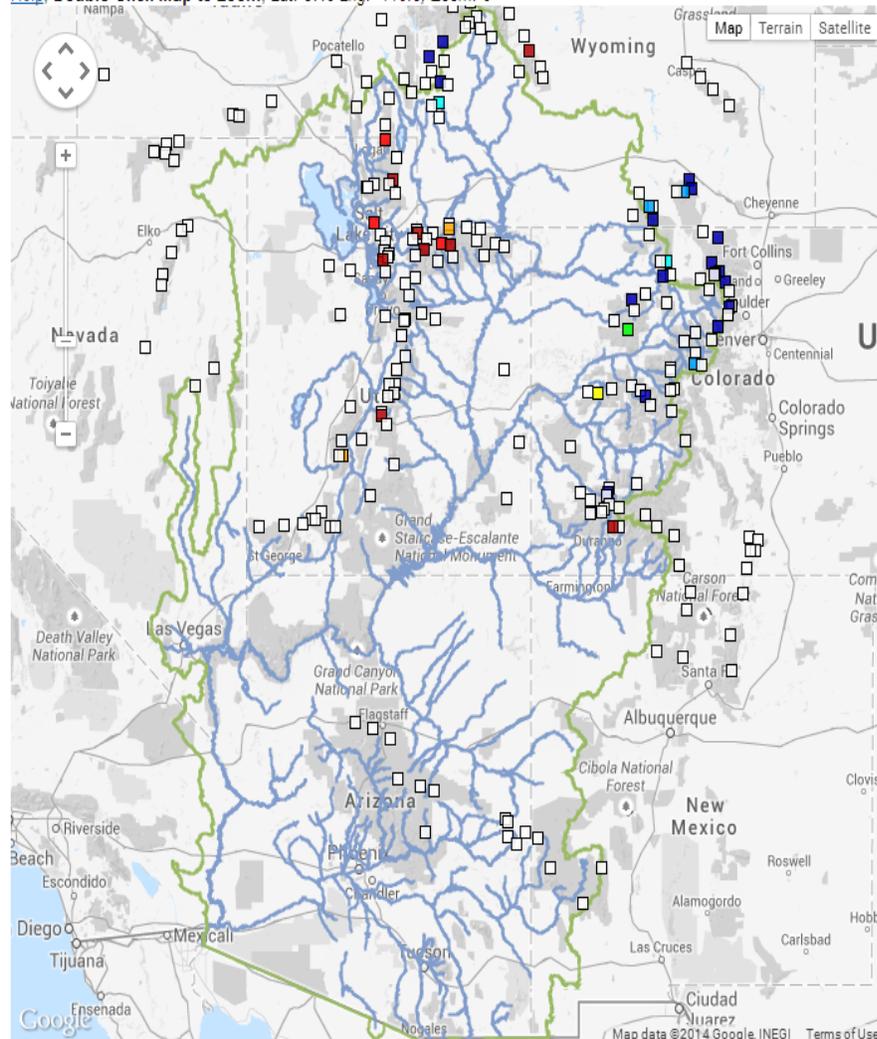
#### Forecast Group

#### Overlays

- Rivers
- RFC Boundary
- Forecast Group
- Basin
- County
- County Warning Area
- Hydrologic Service Area

#### Snow Sites

- All
- No Data
- No Average
- < 7000 ft
- 7000-8000 ft
- 8000-9000 ft
- 9000-10000 ft
- > 10000 ft



- #### Snow
- Percentiles
  - Percent Average
  - Percent Median
  - No Data
  - < 25%
  - 25-50%
  - 50-75%
  - 75-90%
  - 90-110%
  - 110-125%
  - 125-150%
  - 150-175%
  - >175%

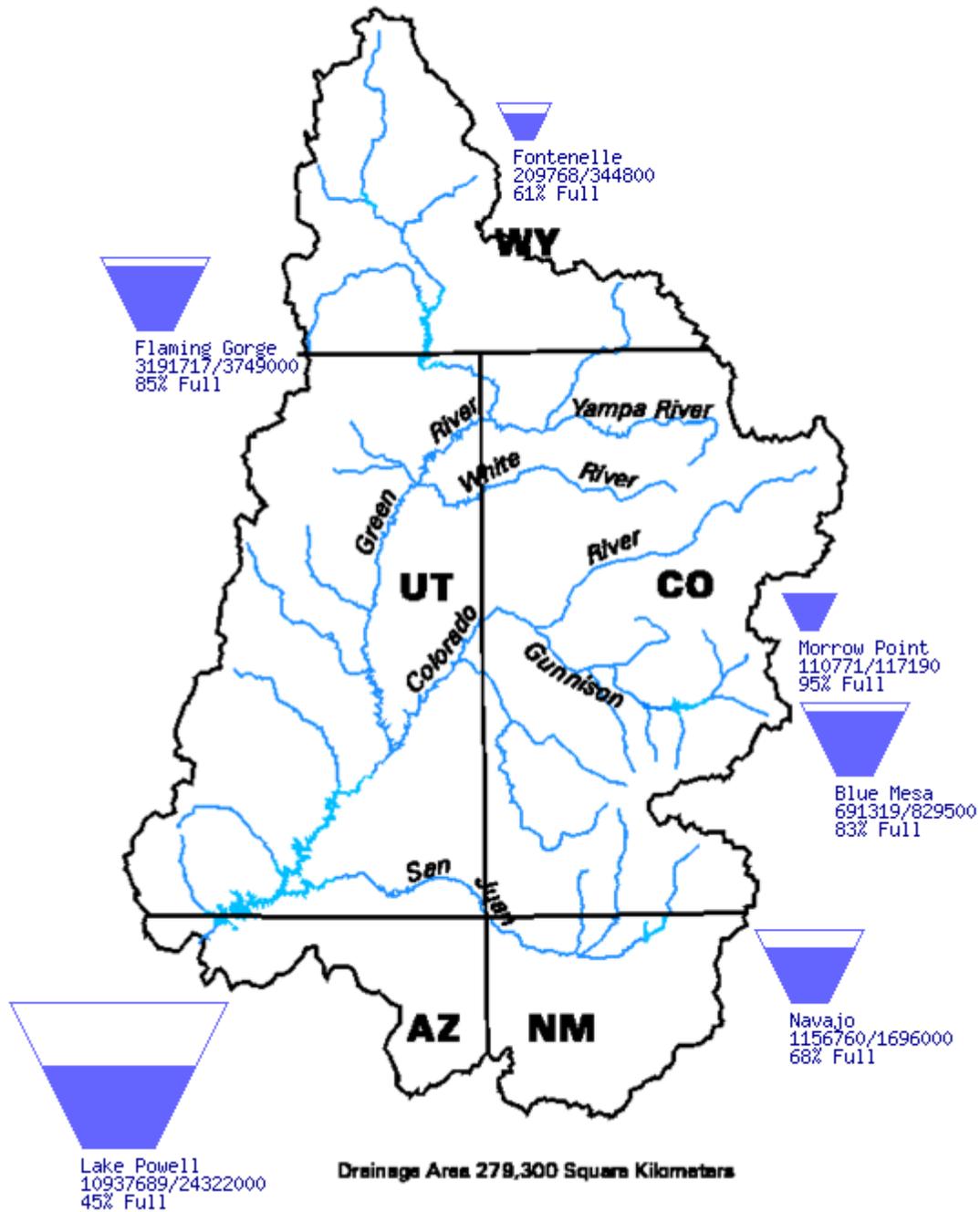
Map data ©2014 Google, INEGI Terms of Use

# Upper Colorado Region Water Resources Group

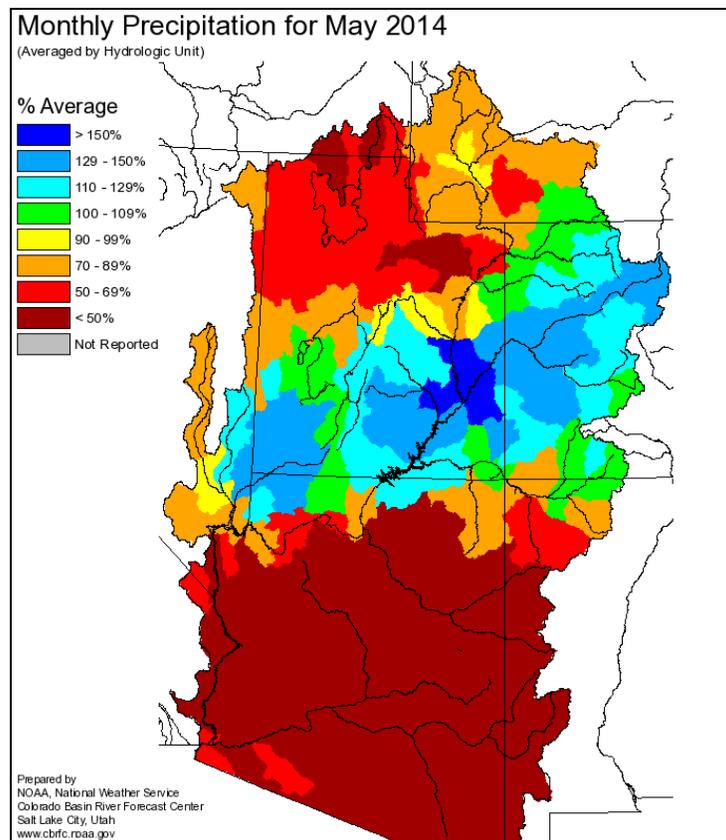
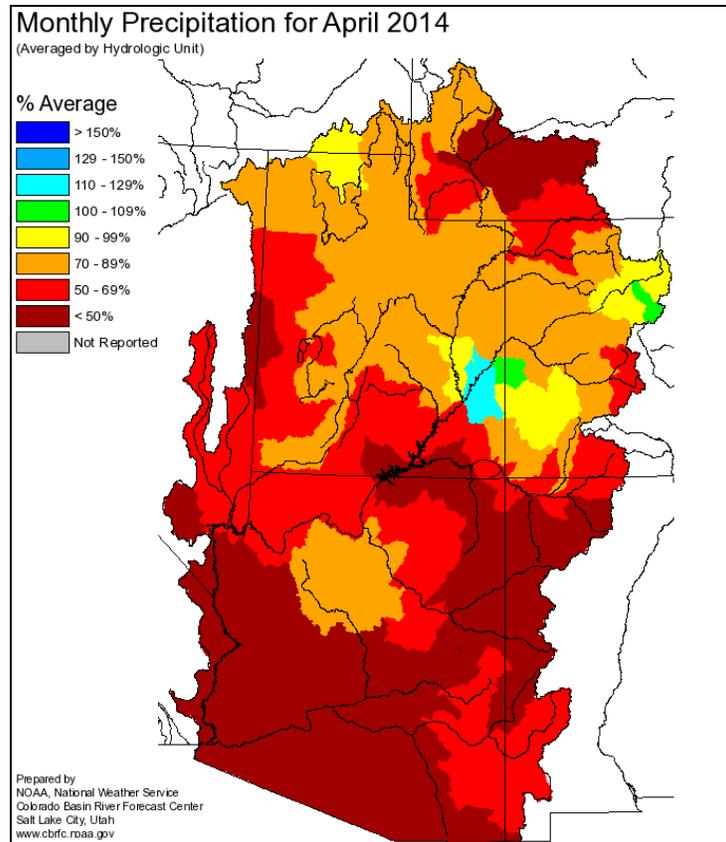
## River Basin Tea-Cup Diagrams

Data Current as of:  
06/02/2014

### Upper Colorado River Drainage Basin



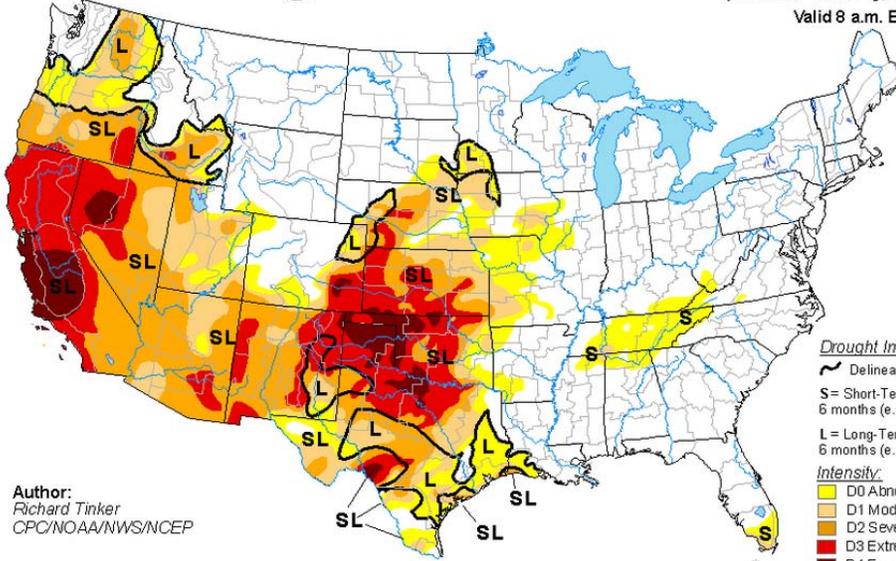
NOAA National Weather Service Monthly Precipitation Maps for April and May 2014



USDA United States Drought Monitor Map

# U.S. Drought Monitor

**June 3, 2014**  
 (Released Thursday, Jun. 5, 2014)  
 Valid 8 a.m. EDT

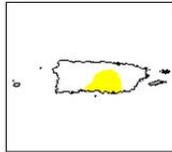
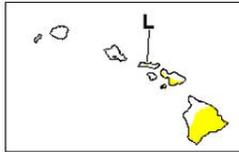
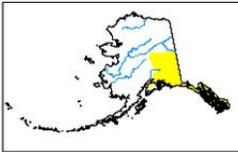


Author:  
 Richard Tinker  
 CPC/NOAA/NWS/NCEP

**Drought Impact Types:**  
 ~ Delineates dominant impacts  
 S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)  
 L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

**Intensity:**  
 D0 Abnormally Dry  
 D1 Moderate Drought  
 D2 Severe Drought  
 D3 Extreme Drought  
 D4 Exceptional Drought

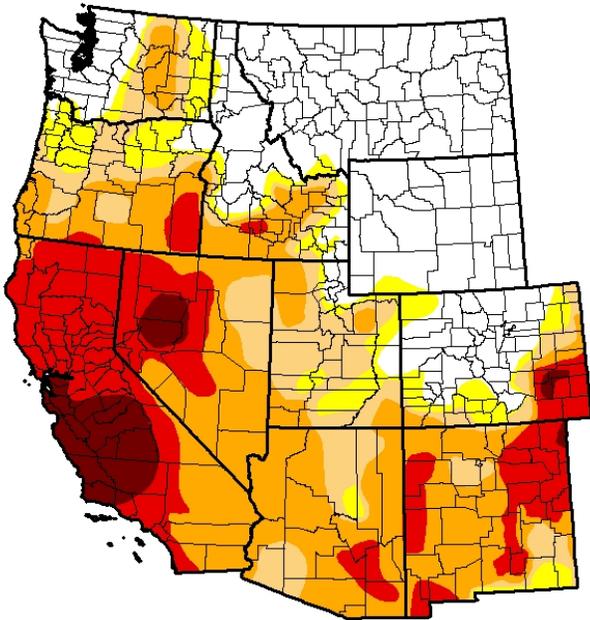
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



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

## U.S. Drought Monitor West

**June 3, 2014**  
 (Released Thursday, Jun. 5, 2014)  
 Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	31.84	68.16	60.32	47.21	20.20	4.31
<b>Last Week</b> 5/27/2014	31.18	68.82	60.38	47.20	20.21	4.31
<b>3 Months Ago</b> 3/9/2014	22.79	77.21	59.41	41.01	15.27	3.61
<b>Start of Calendar Year</b> 12/31/2013	22.20	77.80	51.44	31.11	7.75	0.63
<b>Start of Water Year</b> 10/1/2013	25.25	74.75	58.96	34.18	5.57	0.63
<b>One Year Ago</b> 6/4/2013	16.44	83.56	72.90	46.70	14.65	5.98

**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.

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