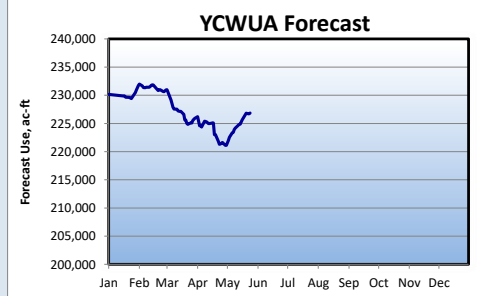
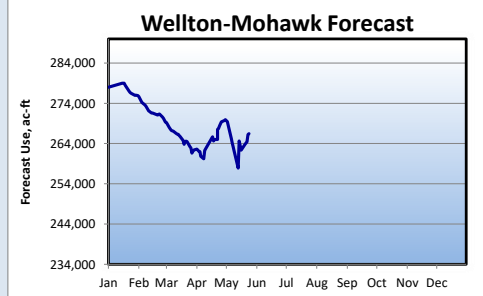
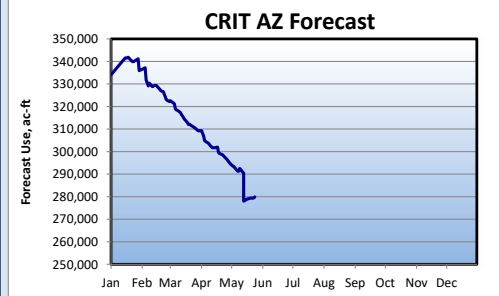
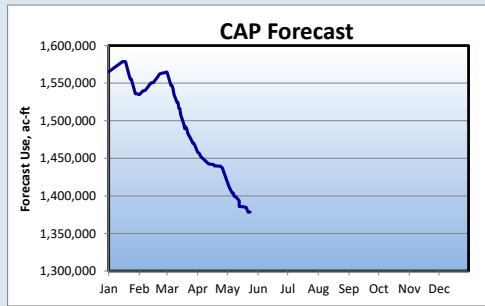
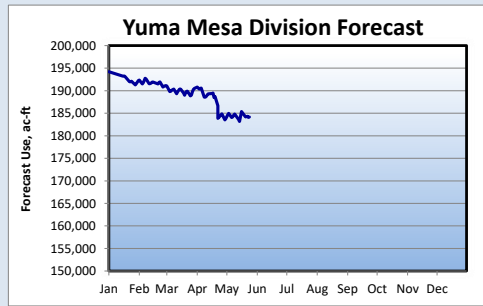
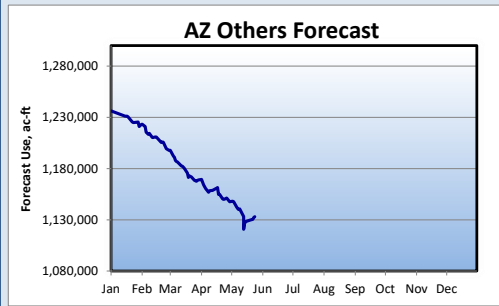
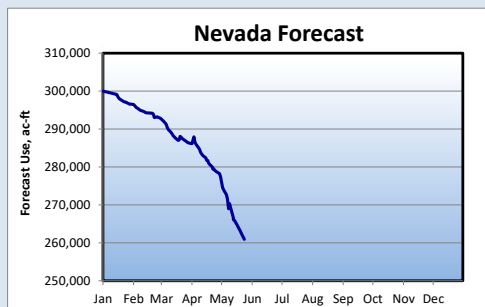
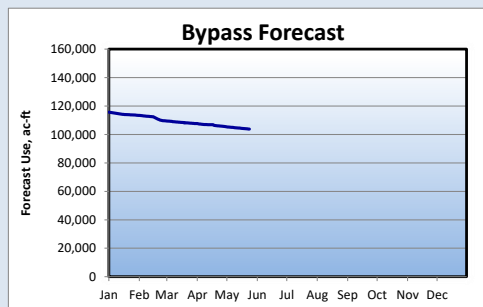
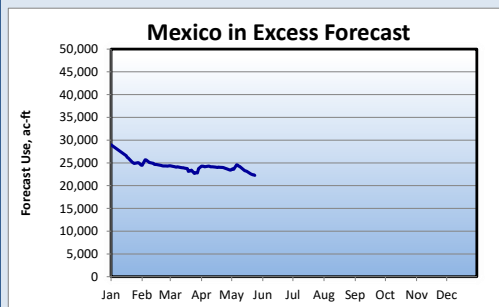
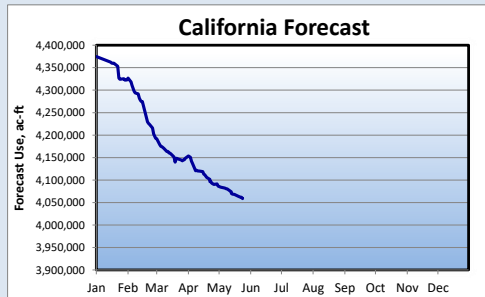
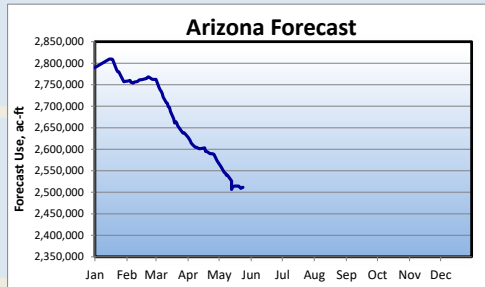
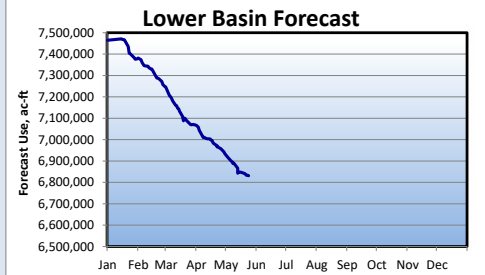


**U.S. BUREAU OF RECLAMATION
LOWER COLORADO REGION
CY 2019**

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 CY2019	Forecast Use CY2019	Approved Use² CY2019	Excess to Approval CY2019
ARIZONA	967,040	2,511,596	2,758,672	-247,076
CALIFORNIA	1,428,343	4,058,751	4,374,692	-315,941
NEVADA	54,270	260,930	300,000	-39,070
STATES TOTAL³	2,449,653	6,831,277	7,433,364	-602,087
MEXICO IN SATISFACTION OF TREATY (Including downward delivery) TO MEXICO AS SCHEDULED	715,054 712,329	1,522,257 1,500,000	1,500,000	22,257
MEXICO IN EXCESS OF TREATY ⁴	2,725	22,257		
BYPASS PURSUANT TO MINUTE 242 ⁵	35,765	103,795		
TOTAL LOWER BASIN & MEXICO	3,200,472	8,457,329		

1/ Incorporates 80 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 Department of Water Resources, Colorado River Board of California, and Reclamation.
 4/ Mexico excess forecast is based on the 5-year average for the period 2013-2017.
 5/ Bypass forecast is based on the average for the period 1990-2017.



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 Robert 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.

**U.S. BUREAU OF RECLAMATION
LOWER COLORADO REGION
CY 2019**

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.

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	Forecast	Estimated	Excess to	Diversion	Forecast	Approved	Excess to
	To Date CY2019	Use CY2019	Use CY2019	Estimated Use CY2019	To Date CY2019	Diversion CY2019	Diversion CY2019	Approved Diversion CY2019
ARIZONA PUMPERS	5,953	14,444	14,444	---	9,172	22,255	22,255	0
LAKE MEAD NRA, AZ - Diversions from Lake Mead	27	100	100	---	27	100	100	0
LAKE MEAD NRA, AZ - Diversions from Lake Mohave	64	188	188	---	64	188	188	0
DAVIS DAM PROJECT	1	2	2	---	8	20	20	0
BULLHEAD CITY	2,285	7,360	7,683	---	3,745	12,077	12,720	-643
MOHAVE WATER CONSERVATION DISTRICT	260	632	632	---	389	944	944	0
BROOKE WATER LLC	130	315	315	---	196	475	475	0
MOHAVE VALLEY IDD	5,611	19,454	21,464	---	10,392	36,023	39,746	-3,723
FORT MOJAVE INDIAN RESERVATION, AZ	10,891	39,284	44,550	---	20,168	72,749	82,500	-9,751
GOLDEN SHORES WATER CONSERVATION DISTRICT	110	268	268	---	166	402	402	0
HAVASU NATIONAL WILDLIFE REFUGE	1,278	3,358	3,563	---	10,655	35,053	41,820	-6,767
LAKE HAVASU CITY	2,710	8,575	8,928	---	4,372	13,832	14,400	-568
CENTRAL ARIZONA PROJECT	575,246	1,378,506		---	575,246	1,378,506		
TOWN OF PARKER	114	415	430	---	283	905	933	-28
COLORADO RIVER INDIAN RESERVATION, AZ	77,862	279,877	316,645	---	182,320	571,894	612,125	-40,231
EHRENBURG IMPROVEMENT ASSOCIATION	96	234	234	---	135	328	328	0
CIBOLA VALLEY ¹	6,455	15,661	15,661	---	9,022	21,891	21,891	0
CIBOLA NATIONAL WILDLIFE REFUGE	3,297	14,016	14,016	0	5,317	22,605	22,605	0
IMPERIAL NATIONAL WILDLIFE REFUGE	1,479	3,799	3,799	0	2,385	6,128	6,128	0
BLM PERMITEES (PARKER DAM to IMPERIAL DAM)	450	1,093	1,093		692	1,680	1,680	
CHA CHA, LLC	368	1,298	1,365	---	567	1,997	2,100	-103
BEATTIE FARMS	234	727	724	---	358	1,115	1,110	5
YUMA PROVING GROUND	121	462	479	---	121	462	479	-17
GILA MONSTER FARMS	2,140	4,967	5,254	---	3,664	8,545	9,156	-611
WELLTON-MOHAWK IDD	102,882	266,470	278,000	-11,530	140,868	382,005	412,965	-30,960
BLM PERMITEES (BELOW IMPERIAL DAM)	40	97	97	0	61	148	148	0
CITY OF YUMA	4,153	14,126	15,962	-1,836	7,967	24,646	26,700	-2,054
MARINE CORPS AIR STATION YUMA	424	1,289	1,359	---	424	1,289	1,359	-70
UNION PACIFIC RAILROAD	9	24	24	---	19	48	48	0
UNIVERSITY OF ARIZONA	279	902	888	---	279	902	888	14
YUMA UNION HIGH SCHOOL DISTRICT	38	141	151	---	52	189	200	-11
DESERT LAWN MEMORIAL	7	17	17	---	9	23	23	0
NORTH GILA VALLEY IRRIGATION DISTRICT	3,987	11,306	12,141	---	15,205	41,824	44,200	-2,376
YUMA IRRIGATION DISTRICT	14,929	37,317	39,007	---	25,885	66,801	71,900	-5,099
YUMA MESA IDD	39,102	135,534	143,060	---	70,460	229,246	239,724	-10,478
UNIT "B" IRRIGATION DISTRICT	4,987	19,516	21,483	---	8,341	27,880	29,400	-1,520
FORT YUMA INDIAN RESERVATION	518	1,258	1,258	---	798	1,937	1,937	0
YUMA COUNTY WATER USERS' ASSOCIATION	97,708	226,861	230,166	---	138,840	348,234	360,400	-12,166
COCOPA INDIAN RESERVATION	757	1,612	1,691	---	801	2,103	2,580	-477
RECLAMATION-YUMA AREA OFFICE	38	91	91	---	38	91	91	0
RETURN FROM SOUTH GILA WELLS								
TOTAL ARIZONA	967,040	2,511,596	2,758,664		1,249,511	3,337,540	3,638,100	
CAP	575,246	1,378,506				1,378,506		
ALL OTHERS	391,794	1,133,090	1,207,232			1,959,034	2,086,668	
YUMA MESA DIVISION, GILA PROJECT	58,018	184,157	171,610	12,547		337,871		

ARIZONA ADJUSTED APPORTIONMENT CALCULATION

Arizona Basic Apportionment	2,800,000
System Conservation Water - Pilot System Conservation Program ²	-41,328
Total State Adjusted Apportionment	2,758,672
Excess to Total State Adjusted Apportionment	-247,076
Estimated Allowable Use for CAP	1,625,394

¹ Includes the following water users within the Cibola Valley: Cibola Valley IDD, Arizona Game and Fish Commission, GSC Farms, Red River Land Co., Western Water, and the Hopi Tribe.

² System Conservation Water to be conserved by Bullhead City, Fort McDowell Yavapai Nation, and the Colorado River Indian Tribes pursuant to System Conservation Implementation Agreements executed under the Pilot System Conservation Program. This water will remain in Lake Mead to benefit system storage.

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

**U.S. BUREAU OF RECLAMATION
LOWER COLORADO REGION
CY 2019**

NOTE:

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**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	Forecast	Estimated	Excess to	Diversion	Forecast	Approved	Excess to
	To Date	Use	Use	Estimated	To Date	Diversion	Diversion	Approved
	CY2019	CY2019	CY2019	CY2019	CY2019	CY2019	CY2019	CY2019
CALIFORNIA PUMPERS	752	1,824	1,824	---	1,360	3,300	3,300	0
FORT MOJAVE INDIAN RESERVATION, CA	1,715	6,108	8,996	---	3,188	11,353	16,720	-5,367
CITY OF NEEDLES (includes LCWSP use)	376	1,425	1,605	-180	655	2,133	2,261	-128
METROPOLITAN WATER DISTRICT	191,552	630,258	840,734	---	192,680	633,072	843,474	---
COLORADO RIVER INDIAN RESERVATION, CA	1,050	2,548	2,548	---	1,739	4,220	4,220	0
PALO VERDE IRRIGATION DISTRICT	124,095	401,590	422,468	---	278,485	835,001	856,000	-20,999
YUMA PROJECT RESERVATION DIVISION	16,951	43,910	50,616	---	32,228	88,282	98,928	-10,646
YUMA PROJECT RESERVATION DIVISION - INDIAN UNIT	---	---	---	---	16,449	40,987	46,128	-5,141
YUMA PROJECT RESERVATION DIVISION - BARD UNIT	---	---	---	---	15,779	47,295	52,800	-5,505
YUMA ISLAND PUMPERS	1,102	2,673	2,673	---	1,992	4,833	4,833	0
FORT YUMA INDIAN RESERVATION - RANCH 5	216	523	523	---	389	945	945	0
IMPERIAL IRRIGATION DISTRICT	969,089	2,594,918	2,652,800	-57,882	962,873	2,660,454	2,755,109	---
SALTON SEA SALINITY MANAGEMENT	0	0	0	0	0	0	0	---
COACHELLA VALLEY WATER DISTRICT	121,004	371,906	388,837	-16,931	124,127	386,662	404,914	---
OTHER LCWSP CONTRACTORS	342	829	829	---	534	1,296	1,296	0
CITY OF WINTERHAVEN	28	67	67	---	41	99	99	0
CHEMEHUEVI INDIAN RESERVATION	71	172	172	---	4,674	11,340	11,340	0
TOTAL CALIFORNIA	1,428,343	4,058,751			1,604,965	4,642,990	5,003,439	

CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION

California Basic Apportionment	4,400,000
System Conservation Water - Pilot System Conservation Program ¹	-308
Creation of Additional Conserved Water (IID) ²	-25,000
Creation of Extraordinary Conservation ICS (MWD) ³	-
Total State Adjusted Apportionment	4,374,692
Excess to Total State Adjusted Apportionment	-315,941

Estimated Allowable Use for MWD

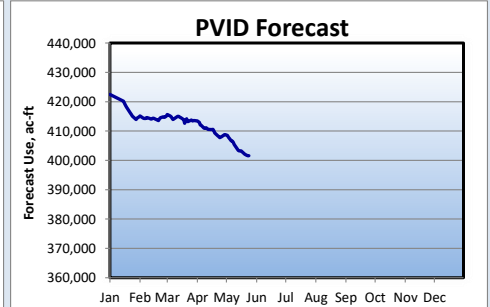
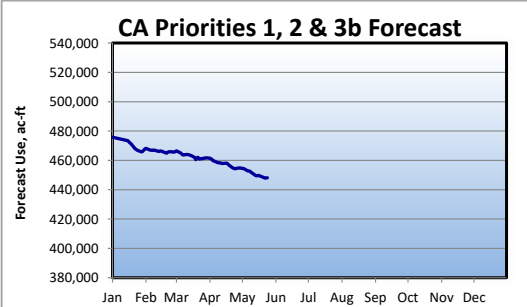
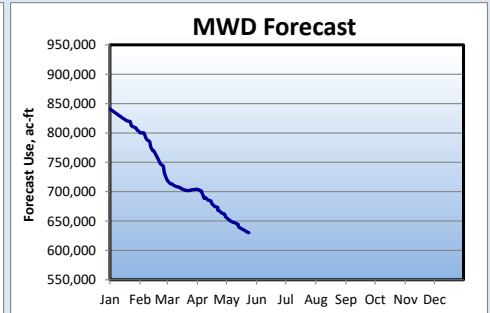
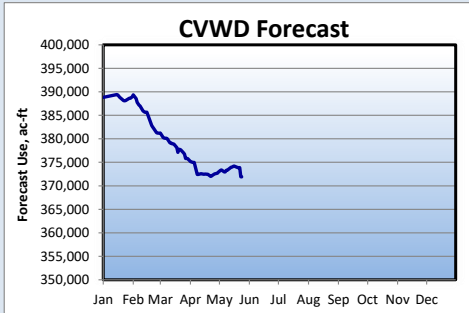
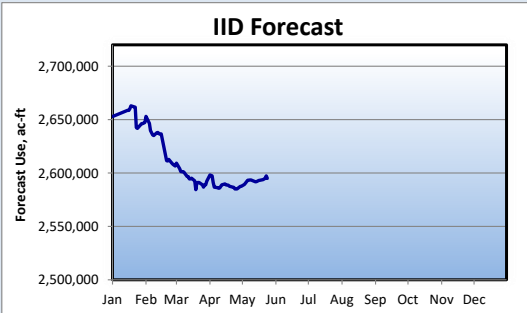
946,199

NOTES: Click on California Schedules and Approvals above for incoming diversion schedules and approvals.

¹ System Conservation Water to be conserved by the City of Needles and the Coachella Valley Water District pursuant to System Conservation Implementation Agreements executed under the Pilot System Conservation Program. This water will remain in Lake Mead to benefit system storage.

² IID's CY 2019 water order incorporates an "Estimate of Additional Conserved Water" for purposes including, but not limited to, storage in The Metropolitan Water District of Southern California's system (with the written consent of MWD) or in Lake Mead as Intentionally Created Surplus (ICS). As of the date of this forecast, approval of IID's CY 2019 ICS Plan of Creation (Plan) is pending. Use by IID of Additional Conserved Water to create ICS for storage in Lake Mead is conditional upon Reclamation's approval of IID's CY 2019 Plan.

³ MWD's CY 2019 water order incorporates the creation of up to 299,300 AF of Extraordinary Conservation Intentionally Created Surplus (ICS). As of the date of this forecast, approval of MWD's CY 2019 ICS Plan of Creation (Plan) is pending; therefore the estimate of the amount of water available to MWD does not incorporate ICS creation by MWD. Upon approval of MWD's CY 2019 ICS Plan, Reclamation will revise MWD's water order approval accordingly.



**U.S. BUREAU OF RECLAMATION
LOWER COLORADO REGION
CY 2019**

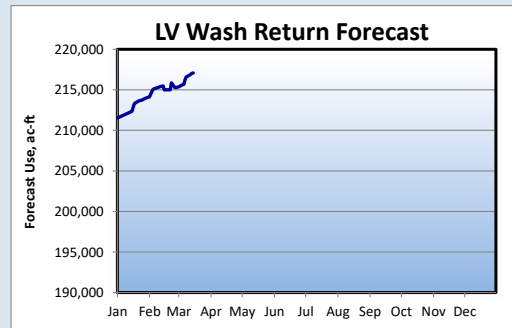
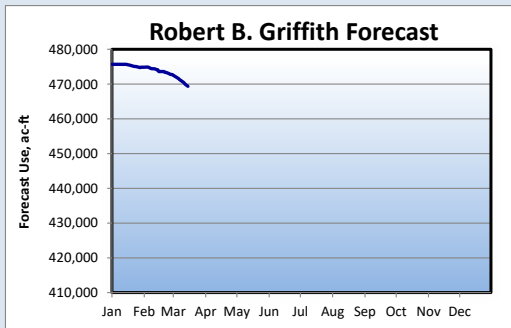
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NEVADA WATER USERS
 FORECAST OF END OF YEAR CONSUMPTIVE USE
 FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS
[Nevada Schedules and Approvals](#)
[Historic Use Records \(Water Accounting Reports\)](#)

WATER USER	Use	Forecast	Estimated	Excess to	Diversion	Forecast	Approved	Excess to
	To Date	Use	Use	Estimated	To Date	Diversion	Diversion	Approved
	CY2019	CY2019	CY2019	CY2019	CY2019	CY2019	CY2019	CY2019
ROBERT B. GRIFFITH WATER PROJECT (SNWS)	140,209	450,725	475,686	-24,961	140,209	450,725	475,686	-24,961
LAKE MEAD NRA, NV - Diversions from Lake Mead	248	1,261	1,500	---	248	1,261	1,500	-239
LAKE MEAD NRA, NV - Diversions from Lake Mohave	104	439	500	---	104	439	500	-61
BASIC MANAGEMENT INC.	1,943	7,468	8,208	---	1,943	7,468	8,208	-740
CITY OF HENDERSON (BMI DELIVERY)	6,363	16,590	15,878	---	6,363	16,590	15,878	712
NEVADA DEPARTMENT OF WILDLIFE	5	12	12	0	302	866	1,000	---
PACIFIC COAST BUILDING PRODUCTS INC.	369	932	928	---	369	932	928	4
BOULDER CANYON PROJECT	71	173	173	---	124	300	300	0
BIG BEND WATER DISTRICT	905	4,148	4,619	---	2,177	8,738	10,000	-1,262
FORT MOJAVE INDIAN TRIBE	787	3,271	4,020	---	1,175	4,882	6,000	-1,118
LAS VEGAS WASH RETURN FLOWS	-96,734	-224,089	-211,524	---				
TOTAL NEVADA	54,270	260,930	300,000	-24,961	153,014	492,201	520,000	-27,665
SOUTHERN NEVADA WATER SYSTEM (SNWS)	43,475	226,636				450,725		
ALL OTHERS	10,795	34,294				41,476		
NEVADA USES ABOVE HOOVER	52,578	253,511				478,581		
NEVADA USES BELOW HOOVER	1,692	7,419				13,620		

Tributary Conservation & Imported Intentionally Created Surplus	
Total Requested Tributary Conservation Intentionally Created Surplus	42,000
Total Requested Imported Conservation Intentionally Created Surplus	0
5% System Assessment for Creation of Intentionally Created Surplus	-2,100
Total Intentionally Created Surplus Left in Lake Mead	39,900

NEVADA ADJUSTED APPORTIONMENT CALCULATION	
Nevada Basic Apportionment	300,000
Excess to Total State Adjusted Apportionment	-39,070



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