



INTERIOR REGION 8: LOWER COLORADO BASIN CY 2020

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 CY 2020	Forecast Use CY 2020	Approved Use ² CY 2020	Excess to Approval CY 2020
ARIZONA	2,469,231	2,469,231	2,469,231	0
CALIFORNIA	4,062,141	4,062,141	4,062,141	0
NEVADA	255,723	255,723	255,723	0
STATES TOTAL ³	6,787,095	6,787,095	6,787,095	0
ACCOUNTABLE DELIVERIES TO MEXICO ⁴	1,552,177	1,552,177	1,500,000	52,177
TO MEXICO IN SATISFACTION OF TREATY (including downward delivery) ⁴	1,500,000	1,500,000		
TO MEXICO IN EXCESS OF TREATY ⁵	52,177	52,177		
WATER BYPASSED PURSUANT TO IBWC MINUTE NO. 242 ⁶	131,064	131,064		
TOTAL LOWER BASIN & MEXICO	8,470,336	8,470,336		

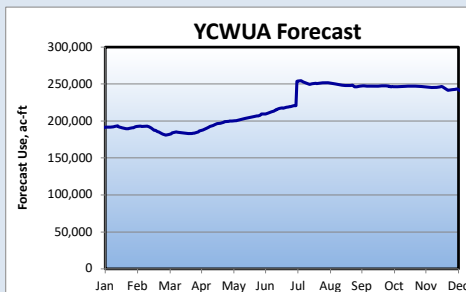
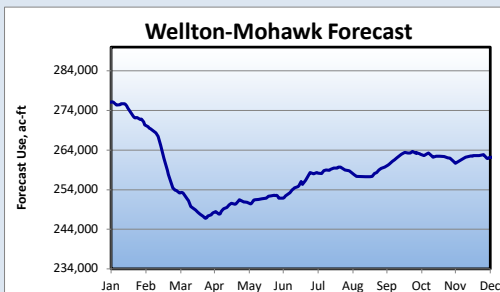
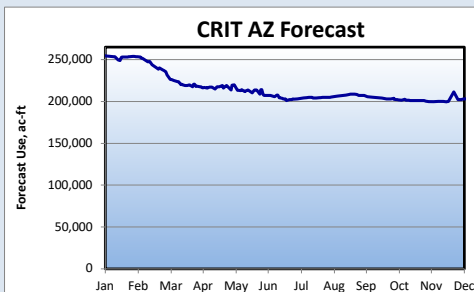
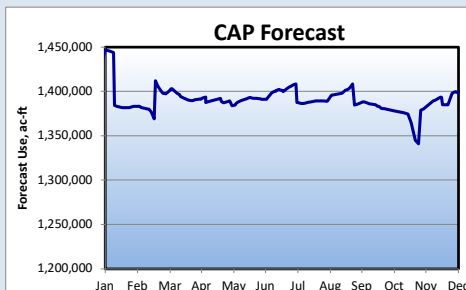
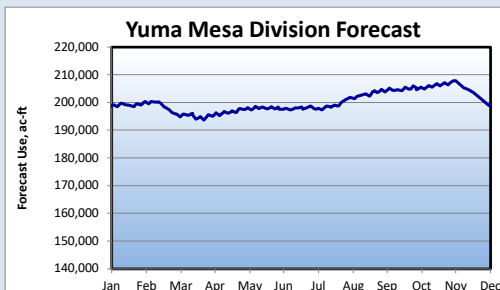
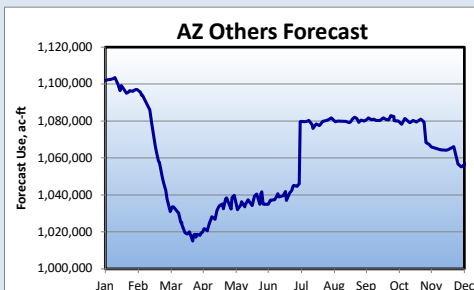
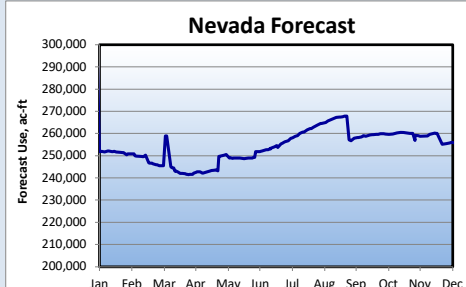
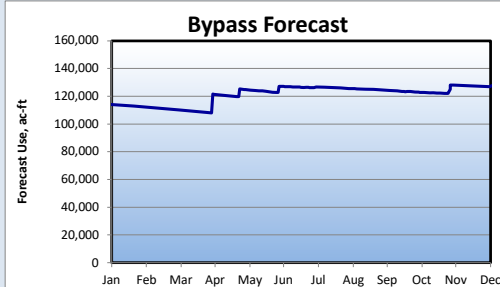
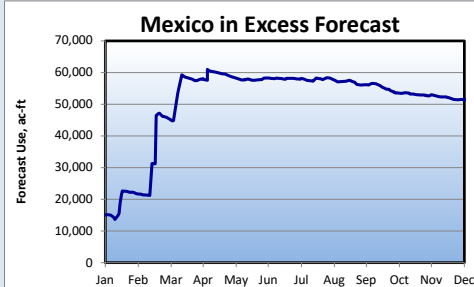
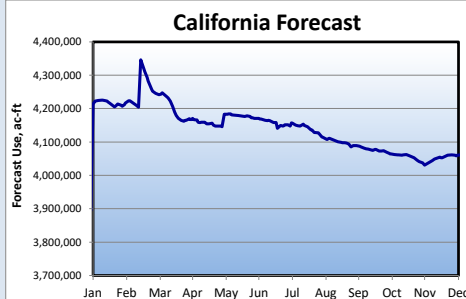
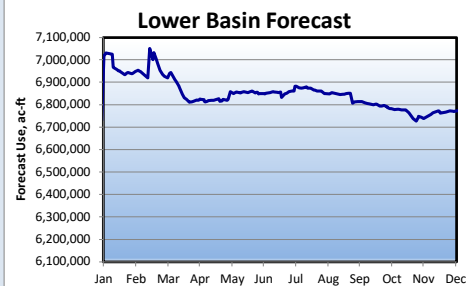
¹ Incorporates 80 daily reporting stations which may be revised after provisional data reports are distributed by the USGS. Use to date has been updated through December for users reporting monthly, and is estimated based on schedule for users reporting annually.

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 Includes downward adjustment(s) to Mexico's annual delivery schedule for the creation of Mexico's Recoverable Water Savings and/or Mexico's Water Reserve.

⁵ Mexico excess forecast is based on actual-to-date and the 5-year average for the period 2014-2018 for remainder of the year.

⁶ Bypass forecast is based on actual-to-date and the average for the period 1990-2018 for the remainder of the year.


Graph notes: January 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.



**BUREAU OF
RECLAMATION**

**INTERIOR REGION 8: LOWER COLORADO BASIN
CY 2020**

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

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

	Use To Date CY 2020	Forecast Use CY 2020	Estimated Use CY 2020	Excess to Estimated Use CY 2020	Diversion To Date CY 2020	Forecast Diversion CY 2020	Approved Diversion CY 2020	Excess to Approved Diversion CY 2020
WATER USER								
ARIZONA PUMPERS	14,074	14,074	14,074	---	21,654	21,654	21,654	0
LAKE MEAD NRA, AZ - Diversions from Lake Mead	56	56	86	---	56	56	86	-30
LAKE MEAD NRA, AZ - Diversions from Lake Mohave	213	213	215	---	213	213	215	-2
DAVIS DAM PROJECT	2	2	2	---	15	15	15	0
BULLHEAD CITY	6,707	6,707	8,122	---	10,531	10,531	12,720	-2,189
MOHAVE WATER CONSERVATION DISTRICT	656	656	656	---	979	979	979	0
BROOKE WATER LLC	342	342	344	---	512	512	515	-3
MOHAVE VALLEY IDD	14,107	14,107	16,516	---	26,125	26,125	30,585	-4,460
FORT MOJAVE INDIAN RESERVATION, AZ	35,638	35,638	44,550	---	65,996	65,996	82,500	-16,504
GOLDEN SHORES WATER CONSERVATION DISTRICT	278	278	278	---	417	417	417	0
HAVASU NATIONAL WILDLIFE REFUGE	3,196	3,196	3,563	---	26,626	26,626	41,820	-15,194
LAKE HAVASU CITY	7,725	7,725	8,928	---	12,460	12,460	14,400	-1,940
CENTRAL ARIZONA PROJECT (CAP)	1,402,537	1,402,537	---	---	1,402,537	1,402,537	---	---
TOWN OF PARKER	330	330	433	---	830	830	916	-86
COLORADO RIVER INDIAN RESERVATION, AZ	203,323	203,323	246,946	---	459,275	459,275	512,102	-52,827
EHRENBURG IMPROVEMENT ASSOCIATION	228	228	228	---	319	319	319	0
CIBOLA VALLEY ¹	13,119	13,119	15,219	---	18,348	18,348	21,270	-2,922
CIBOLA NATIONAL WILDLIFE REFUGE	8,129	8,129	14,264	-6,135	13,113	13,113	23,005	-9,892
IMPERIAL NATIONAL WILDLIFE REFUGE	2,793	2,793	3,799	-1,006	4,503	4,503	6,128	-1,625
BLM PERMITTEES (PARKER DAM TO IMPERIAL DAM)	756	756	756	0	1,163	1,163	1,163	0
CHA CHA, LLC	693	693	1,365	---	1,066	1,066	2,100	-1,034
BEATTIE FARMS	627	627	722	---	964	964	1,110	-146
YUMA PROVING GROUND	545	545	546	---	545	545	546	-1
GILA MONSTER FARMS	4,306	4,306	5,257	---	7,544	7,544	9,156	-1,612
WELLTON-MOHAWK IDD	262,547	262,547	278,000	-15,453	386,503	386,503	412,965	-26,462
BLM PERMITTEES (BELOW IMPERIAL DAM)	66	66	66	0	102	102	102	0
CITY OF YUMA	14,142	14,142	16,401	-2,259	25,578	25,578	27,500	-1,922
MARINE CORPS AIR STATION YUMA	1,296	1,296	1,360	---	1,296	1,296	1,360	-64
UNION PACIFIC RAILROAD	24	24	29	---	48	48	48	0
UNIVERSITY OF ARIZONA	833	833	896	---	833	833	896	-63
YUMA UNION HIGH SCHOOL DISTRICT	112	112	150	---	152	152	200	-48
DESERT LAWN MEMORIAL	20	20	20	---	28	28	28	0
NORTH GILA VALLEY IRRIGATION DISTRICT	9,852	9,852	12,165	---	43,164	43,164	44,200	-1,036
YUMA IRRIGATION DISTRICT	38,033	38,033	38,701	---	70,735	70,735	71,700	-965
YUMA MESA IDD	156,440	156,440	143,893	---	225,947	225,947	239,280	-13,333
UNIT "B" IRRIGATION DISTRICT	21,727	21,727	20,888	---	26,709	26,709	29,400	-2,691
FORT YUMA INDIAN RESERVATION	1,497	1,497	1,497	---	2,298	2,298	2,298	0
YUMA COUNTY WATER USERS' ASSOCIATION	241,788	241,788	244,397	---	346,085	346,085	375,492	-29,407
COCOPA INDIAN RESERVATION	371	371	1,651	---	597	597	2,530	-1,933
RECLAMATION-YUMA AREA OFFICE	103	103	103	---	103	103	103	0
RETURN FROM SOUTH GILA WELLS								
TOTAL ARIZONA	2,469,231	2,469,231	2,549,623		3,205,969	3,205,969	3,394,360	
CAP	1,402,537	1,402,537				1,402,537		
ALL OTHERS	1,066,694	1,066,694	1,147,086			1,803,432	1,991,823	
YUMA MESA DIVISION, GILA PROJECT	204,325	204,325	171,610	32,715		339,846		

ARIZONA ADJUSTED APPORTIONMENT CALCULATION

Arizona Basic Apportionment	2,800,000
System Conservation Water - Pilot System Conservation Program ²	(400)
System Conservation Water - Colorado River Indian Tribes (CRIT) ³	(50,000)
System Conservation Water - Fort McDowell Yavapai Nation (FMYN) ⁴	(10,000)
System Conservation Water - Mohave Valley I.D.D. (MVIDD) ⁵	(6,137)
Creation of Extraordinary Conservation ICS - CRIT (Estimated) ^{6,8}	(3,736)
Creation of Extraordinary Conservation ICS - GRIC (Estimated) ^{7,8}	(83,000)
Arizona DCP Contribution ⁹	(192,000)
Delivery of ICS - CAWCD (Estimated) ¹⁰	14,504
Total State Adjusted Apportionment	2,469,231
Excess to Total State Adjusted Apportionment	0

Estimated Allowable Use for CAP**1,402,532**

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

² The estimated amount of System Conservation Water that will be created by the City of Bullhead City pursuant to System Conservation Implementation Agreement (SCIA) No. 15-XX-30-W0587, as amended. This System Conservation Water will remain in Lake Mead to benefit system storage.

³ System Conservation Water to be created by CRIT pursuant to the *Agreement Among the United States of America, Through the Department of the Interior, Bureau of Reclamation, the State of Arizona, Through the Arizona Department of Water Resources, the Central Arizona Water Conservation District, and the Colorado River Indian Tribes to Fund the Creation of Colorado River System Water Through Voluntary Water Conservation and Reductions in use During Calendar Years 2020-2022*. This System Conservation Water will remain in Lake Mead to benefit system storage.

⁴ CAP water being conserved by FMYN pursuant to SCIA No. 19-XX-30-W0658, which will remain in Lake Mead to benefit system storage. In accordance with this SCIA and Section 3.b of the *Lower Basin Drought Contingency Plan Agreement* (LB DCP Agreement), the Bureau of Reclamation intends to apply this water towards the Secretary of the Interior's commitment to create or conserve 100,000 AF per annum or more of Colorado River System water to contribute to conservation of water supplies in Lake Mead and other Colorado River reservoirs in the Lower Basin.

⁵ System Conservation Water to be created by MVIDD pursuant to SCIA No. 20-XX-30-W0686, which will remain in Lake Mead to benefit system storage. In accordance with this SCIA and Section 3.b of the LB DCP Agreement, Reclamation intends to apply this water towards the Secretary's commitment to create or conserve 100,000 AF per annum or more of Colorado River System water to contribute to conservation of water supplies in Lake Mead and other Colorado River reservoirs in the Lower Basin.

⁶ CRIT has been approved to create up to 3,736 AF of Extraordinary Conservation (EC) ICS in 2020. The actual amount of EC ICS created by CRIT will be based on final accounting and verification.

⁷ CAP water being conserved by GRIC to create EC ICS consistent with its approved plan to create up to 83,000 AF of EC ICS in 2020. The actual amount of EC ICS created by GRIC will be based on final accounting and verification.

⁸ When combined with the approved EC ICS creation amounts of other ICS creators in the state of Arizona, the total amount of EC ICS approved for creation in the state of Arizona is approximately 147,000 AF, which exceeds the state's annual creation limit set forth in Section XI.G.3.B.4 of the 2007 Interim Guidelines. In accordance with Section XI.G.3.B.4 and Section IV.B of the Lower Basin Drought Contingency Operations (LBOs), the total amount of EC ICS that may be created by the states of Arizona, California, and Nevada in 2020 will be limited to 625,000 AF.

⁹ In accordance with Section III.B.1.a of LBOs, the state of Arizona shall make an annual DCP Contribution in the total amount of 192,000 AF. In accordance with the Agreement Regarding Lower Basin Drought Contingency Plan Obligations, it is currently anticipated that the required DCP Contribution will be made by the Central Arizona Water Conservation District (CAWCD) through the creation of EC ICS by and reductions in consumptive use. CAWCD has been approved to create up to 60,468 AF of EC ICS in 2020. The actual amount of EC ICS created by CAWCD and credited toward the DCP Contribution will be based on final accounting and verification.

¹⁰ The estimated amount of ICS delivered to CAWCD to avoid an overrun. This value is subject to change based on final accounting.

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

INTERIOR REGION 8: LOWER COLORADO BASIN
CY 2020

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 \(Water Accounting Reports\)](#)

NOTE:

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WATER USER	Use To Date CY 2020	Forecast Use CY 2020	Estimated Use CY 2020	Excess to Estimated Use CY 2020	Diversion To Date CY 2020	Forecast Diversion CY 2020	Approved Diversion CY 2020	Excess to Approved Diversion CY 2020
CALIFORNIA PUMPERS	1,697	1,697	1,697	---	3,081	3,081	3,081	0
FORT MOJAVE INDIAN RESERVATION, CA	7,052	7,052	8,996	---	13,106	13,106	16,720	-3,614
CITY OF NEEDLES (includes LCWSP use)	911	911	1,605	-694	1,961	1,961	2,261	-300
METROPOLITAN WATER DISTRICT	815,292	815,292	---	---	818,220	818,220	---	---
COLORADO RIVER INDIAN RESERVATION, CA	3,233	3,233	3,233	---	5,355	5,355	5,355	0
PALO VERDE IRRIGATION DISTRICT	345,180	345,180	419,768	---	792,052	792,052	856,000	-63,948
YUMA PROJECT RESERVATION DIVISION	40,386	40,386	47,721	---	82,767	82,767	91,553	-8,786
YUMA PROJECT RESERVATION DIVISION - INDIAN UNIT	---	---	---	---	44,909	44,909	46,058	-1,149
YUMA PROJECT RESERVATION DIVISION - BARD UNIT	---	---	---	---	37,858	37,858	45,495	-7,637
YUMA ISLAND PUMPERS	2,188	2,188	2,188	---	3,954	3,954	3,954	0
FORT YUMA INDIAN RESERVATION - RANCH 5	1,013	1,013	832	---	1,830	1,830	1,501	---
IMPERIAL IRRIGATION DISTRICT ¹	2,493,661	2,493,661	2,640,300	-146,639	2,487,335	2,487,335	2,715,352	---
SALTON SEA SALINITY MANAGEMENT	0	0	0	0	0	0	0	---
COACHELLA VALLEY WATER DISTRICT	350,626	350,626	394,000	-43,374	371,582	371,582	406,654	---
OTHER LCWSP CONTRACTORS	642	642	642	---	1,054	1,054	1,054	0
CITY OF WINTERHAVEN	63	63	63	---	97	97	97	0
CHEMEHUEVI INDIAN RESERVATION	197	197	197	---	11,340	11,340	11,340	0
TOTAL CALIFORNIA	4,062,141	4,062,141			4,593,734	4,593,734	4,942,922	

CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION

California Basic Apportionment

4,400,000

System Conservation Water - Pilot System Conservation Program ²

(145)

IID Creation of Extraordinary Conservation ICS - Stored in Lake Mead (Estimated) ³

(1,579)

IID Creation of Additional Conserved Water (Estimated) ⁴

(23,421)

MWD Creation of Extraordinary Conservation ICS (Estimated) ⁵

(312,714)

Total State Adjusted Apportionment

4,062,141

Excess to Total State Adjusted Apportionment

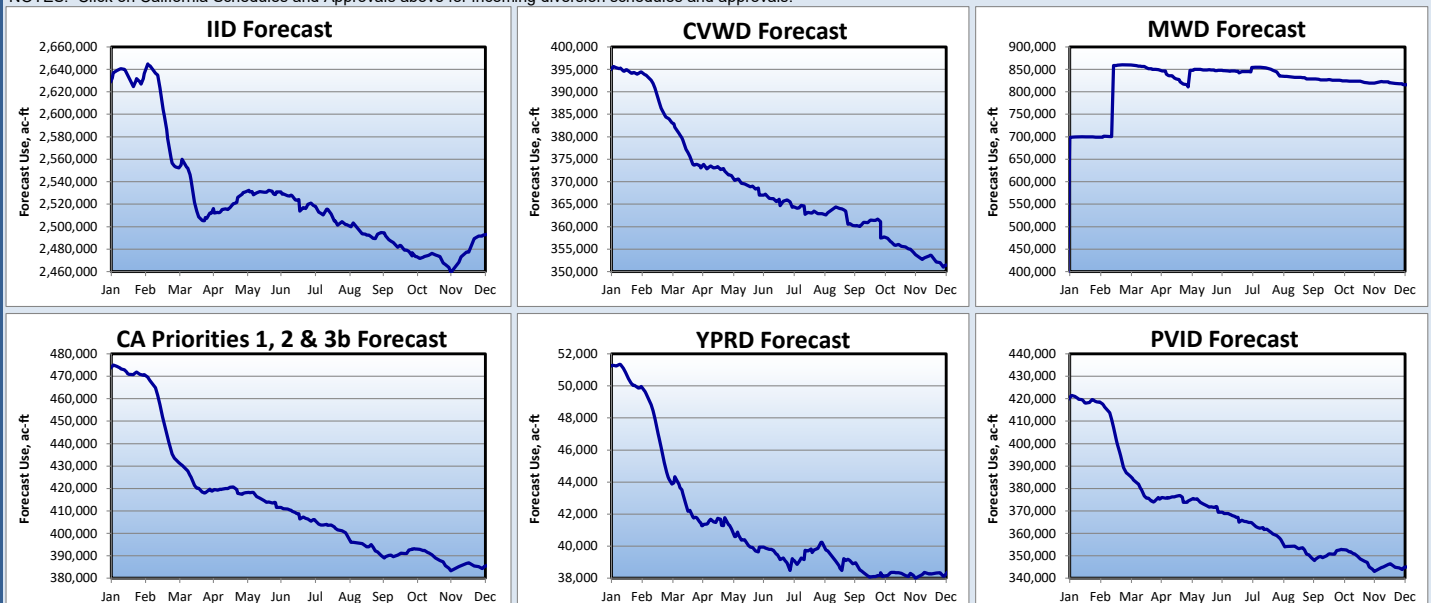
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Estimated Allowable Use for MWD

1,128,006

¹ As shown here, IID's Approved Diversion and Estimated Use values reflect the maximum amount of Colorado River water available to IID in 2020.² System Conservation Water to be conserved by the City of Needles pursuant to System Conservation Implementation Agreement No. 15-XX-30-W0596, executed under the Pilot System Conservation Program. This water will remain in Lake Mead to benefit system storage.³ IID has been approved to create up to 62,000 AF of Extraordinary Conservation (EC) ICS in 2020; however, due to limitations set forth in the California ICS Agreement, may only store up to 1,579 AF in its Lake Mead ICS Account. Creation and storage of EC ICS by IID in excess of 1,579 AF will require an executed amendment to the California ICS Agreement, which has not occurred as of the date of this forecast. The actual amount of EC ICS created by IID and stored in its Lake Mead ICS Account will be based on final accounting and verification.⁴ In its CY 2020 water order, IID has indicated that it intends to create up to a total of 25,000 AF of "Additional Conserved Water" for purposes including, but not limited to, the creation of ICS for storage in Lake Mead. As noted above, IID may only use up to 1,579 AF of "Additional Conserved Water" for the creation and storage of EC ICS in its Lake Mead ICS Account. Storage of "Additional Conserved Water" as EC ICS in excess of this amount will require an executed amendment to the California ICS Agreement, which has not occurred as of the date of this forecast. The actual amount of "Additional Conserved Water" created by IID in 2020 will be based on final accounting and verification.⁵ MWD has been approved to create up to 450,000 AF of EC ICS in 2020, less the amount of EC ICS created by IID, and further limited to the amount that, when added to the EC ICS created by the states of Arizona and Nevada, does not exceed 625,000 AF. The actual amount of EC ICS created by MWD will be based on final accounting and verification.

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



INTERIOR REGION 8: LOWER COLORADO BASIN
CY 2020

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 \(Water Accounting Reports\)](#)

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WATER USER	Use To Date CY 2020	Forecast Use CY 2020	Estimated Use CY 2020	Excess to Estimated Use CY 2020	Diversion To Date CY 2020	Forecast Diversion CY 2020	Approved Diversion CY 2020	Excess to Approved Diversion CY 2020
ROBERT B. GRIFFITH WATER PROJECT (SNWS)	448,397	448,397		---	448,397	448,397		---
LAKE MEAD NRA, NV - Diversions from Lake Mead	365	365	1,500	---	365	365	1,500	-1,135
LAKE MEAD NRA, NV - Diversions from Lake Mohave	174	174	500	---	174	174	500	-326
BASIC MANAGEMENT INC.	4,317	4,317	8,208	---	4,317	4,317	8,208	-3,891
CITY OF HENDERSON (BMI DELIVERY)	16,125	16,125	15,878	---	16,125	16,125	15,878	247
NEVADA DEPARTMENT OF WILDLIFE	12	12	12	0	1,164	1,164	1,000	---
PACIFIC COAST BUILDING PRODUCTS INC.	925	925	928	---	925	925	928	-3
BOULDER CANYON PROJECT	172	172	172	---	300	300	300	0
BIG BEND WATER DISTRICT	1,782	1,782	4,822	---	3,508	3,508	10,000	-6,492
FORT MOJAVE INDIAN TRIBE	2,652	2,652	4,020	---	3,958	3,958	6,000	-2,042
LAS VEGAS WASH RETURN FLOWS	-219,198	-219,198	-220,780	---				
TOTAL NEVADA	255,723	255,723	262,227	0	479,233	479,233	491,281	-13,642
SOUTHERN NEVADA WATER SYSTEM (SNWS)	229,199	229,199				448,397		
ALL OTHERS	26,524	26,524				30,836		
NEVADA USES ABOVE HOOVER	12,899	251,289				471,767		
NEVADA USES BELOW HOOVER	7,959	4,434				7,466		
	2,481							

Tributary Conservation Intentionally Created Surplus (ICS)

Southern Nevada Water Authority (SNWA) Creation of Tributary Conservation ICS (Approved) ¹

43,000

NEVADA ADJUSTED APPORTIONMENT CALCULATION

Nevada Basic Apportionment

300,000

SNWA Creation of Extraordinary Conservation (EC) ICS (Estimated) ²

(44,277)

Total State Adjusted Apportionment

255,723

Excess to Total State Adjusted Apportionment

0

¹ SNWA has been approved to create up to 43,000 AF of TC ICS in 2020. The actual amount of TC ICS created by SNWA will be based on final accounting and verification.

² SNWA has been approved to create up to 100,000 AF of EC ICS in 2020. The actual amount of EC ICS created by SNWA will be based on final accounting and verification.

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

