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April 11, 2017

VIA CALIFORNIA WATERFIX SERVICE LIST

Ms. Amy L. Aufdemberge
Assistant Regional Solicitor
Office of the Regional Solicitor
U.S. Department of the Interior
2800 Cottage Way
Sacramento, California 95825

Mr. Tripp Mizell
Senior Attorney
Office of the Chief Counsel
California Department of Water Resources
1416 Ninth Street, Room 1118-D
Sacramento, California 95814

Re: California WaterFix – Hydrologic Modeling Supporting Petitioners'
Rebuttal Testimony

Dear Ms. Aufdemberge and Mr. Mizell:

As you know, the Bureau of Reclamation (Reclamation) and the Department of Water Resources (DWR) have submitted rebuttal testimony that concerns, among other things, hydrologic modeling of the possible operations of the Central Valley Project (CVP) and the State Water Project (SWP) that could occur with California WaterFix in place. Based on our preliminary review of Reclamation's and DWR's rebuttal testimony, it appears that this testimony is incomplete or not supported by adequate information to allow other parties to understand the relevant modeling and its results. This letter is an attempt to resolve these issues quickly in a manner that will allow for expeditious testimony and cross-examination during the SWRCB's upcoming hearing sessions.

Exhibit DOI-33 – Missing Data in Table 1

Exhibit DOI-33 contains, on page 22, a Table 1 in which a figure has been laid over a data table. As a result, it is not possible to view the data for the years 1938 through 1972. This appears to be only a technical error, but it limits understanding of the related testimony. As soon as possible, please arrange for Reclamation to submit to the SWRCB, and serve on the other parties, a revised exhibit DOI-33 that corrects this error and makes the data for the years 1938 through 1972 visible.

Biological Assessment/H3+ Modeling Results

On page 33 of its October 30, 2015 notice of this hearing, the SWRCB established the following requirement: "Exhibits based on technical studies or models shall be accompanied by sufficient information to clearly identify and explain the logic, assumptions, development, and operation of the studies or models." Reclamation's and DWR's rebuttal testimony relies extensively on characterizations of results from "BA modeling" and modeling of the "CWF H3+" scenario. (See, e.g., exhibit DOI-33, pp. 1 ("Rerunning BA modeling using the same hydrology as MBK models eliminates this adverse comparison to MBK results"), 19 ("Petitioners' BA model results show Folsom at or near dead pool in 5 of the 82 years of simulation"), 24 ("Examination of BA results to discern the reason for the difference between the NAA and WaterFix scenario reveals that the opposite of Mr. Weaver's criticism is true"); exhibit DWR-86, pp. 33-37 (discussing "CWF H3+" and "No Action Alternative" modeling "under the CWF BA").)

This testimony does not clearly identify or explain what models are the sources of these results. It appears that at least some of these results may derive from the modeling whose results are presented in Section 5A.A.3 of the California WaterFix biological assessment that is staff exhibit SWRCB-104 in this hearing. (See exhibit DWR-86, p. 34:20-25.) To date, however, Reclamation and DWR have not made available, in this hearing, the operable modeling files that reflect "BA" or "CWF H3+" modeling. In fact, earlier in the hearing, your agencies represented that they were not presenting the biological assessment/H3+ modeling in this hearing. (See exhibit DWR-1, p. 10; July 29, 2016 transcript, p. 232:16-19 (DWR evidentiary objection on grounds that "a Draft BA . . . is not part of the modeling analysis presented in front of the Board").) My understanding, however, is that DWR and Reclamation have made the biological assessment modeling that reflects an "H3+" Delta outflow scenario available upon request and that it is possible to generate comparative results from that modeling's "no action" and "H3+" scenarios.

Accordingly, in order to expedite the upcoming presentation of DWR's and Reclamation's rebuttal testimony and cross-examination of DWR's and Reclamation's witnesses, attached to this letter are comparative results from the biological assessment/"H3+" modeling that DWR and Reclamation have made available. The attached results address the following parameters: (1) Trinity Reservoir storage; (2) Shasta Reservoir storage; (3) Oroville Reservoir storage; (4) Folsom Reservoir storage; (5) Sacramento River flow below Keswick; (6) Feather River flow below Thermalito Afterbay; and (7) American River flow below Nimbus. The attached results reflect the Q5 (central tendency) climate-change scenario.

Please confirm by 5 p.m. on Monday, April 17, that the attached results are the results of the biological assessment/"H3+" modeling on which DWR and Reclamation are relying in your rebuttal testimony. (Disclosure by 5 p.m. Monday will provide all parties one week before the hearing recommences to review key modeling information.) Such confirmation will avoid the need for elongated cross-examination concerning on what biological assessment/H3+ model results DWR and Reclamation are relying in your rebuttal testimony and possible sur-rebuttal to

authenticate certain model results that may be used in cross-examination. We can provide Microsoft Excel files containing the attached results that can be electronically compared with DWR's and Reclamation's modeling files, if that would simplify your agencies' confirmation that the attached results reflect the biological assessment modeling. If your agencies dispute whether the attached results are the results of the biological assessment/"H3+" modeling on which your agencies' rebuttal testimony relies, by 5 p.m. on Monday, April 17, please: (1) post to the SWRCB's ftp site for this hearing the modeling files that reflect the biological assessment/"H3+" modeling on which your agencies rely; and (2) notify the other parties to this hearing that those files have been posted.

"NoCC" Modeling Results

Reclamation's rebuttal testimony – specifically exhibit DOI-33 – relies extensively on descriptions of modeling of "no action" and "with action" scenarios without assumed climate change – called the "NoCC" modeling – and compares that modeling's results to results about which MBK Engineers previously has testified in this hearing. Reclamation and DWR do not appear to have previously introduced this "NoCC" modeling in this hearing. Reclamation and DWR also apparently have not made any such modeling available outside of this hearing. To make information about the "NoCC" modeling reflected in Reclamation's rebuttal testimony available, consistent with the SWRCB's October 30, 2015 notice of this hearing, by 5 p.m. on Monday, April 17, please do the following:

- Post to the SWRCB's website for this hearing, the operable modeling files for the NoCC modeling's no action and proposed action/H3+ scenarios, similar to the manner in which Reclamation and DWR previously posted the modeling files for the scenarios about which your agencies' witnesses testified in Part 1A of this hearing.
- Post, to the SWRCB's website for this hearing, monthly time-step CalSim II modeling results from the NoCC modeling's no action and H3+ scenarios, as well as results comparing those scenarios' results, for the following parameters: (1) Trinity Reservoir storage; (2) Shasta Reservoir storage; (3) Oroville Reservoir storage; (4) Folsom Reservoir storage; (5) Sacramento River flow below Keswick; (6) Feather River flow below Thermalito Afterbay; and (7) American River flow below Nimbus. In addition to the monthly results, please submit and post tables of those results categorized by progressive 10% exceedances and also water-year types in the same manner as modeling results are depicted in Appendix 5A, Section C, in Reclamation's and DWR's December 2016 final environmental impact report/environmental impact statement for California WaterFix. (See, e.g., FEIR/EIS, Appendix 5A, Section, page 5A-C11 (Table C-1-1 (Trinity Lake, End of Month Storage).) Please notify the other parties to this hearing via the SWRCB's e-mail service list when these materials have been posted.


Ms. Amy L Aufdemberge
Mr. Tripp Mizell
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Conclusion

To date, Reclamation and DWR do not appear to have complied with the SWRCB's requirement, in its October 30, 2015 notice of hearing, to provide sufficient information for the other parties to understand the modeling on which your witnesses rely in their rebuttal testimony. The above requests are intended to expedite the forthcoming Part 1 rebuttal portion of the hearing by creating a common base of information for the parties to understand the technical support for Reclamation's and DWR's rebuttal testimony. If you have any questions, please do not hesitate to contact the counsel below. If you have such questions, or would otherwise like to discuss this letter, please contact the counsel below as promptly as possible in light of the fact that rebuttal proceedings, and cross-examination of your agencies' witnesses, will begin on April 25, 2017.

Kind regards,

BARTKIEWICZ, KRONICK & SHANAHAN DOWNEY BRAND LLP

By: 
Ryan S. Bezerra

By: /s/ David Aladjem
David Aladjem

SOMACH, SIMMONS & DUNN

MINASIAN, MEITH, SOARES, SEXTON &
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By: /s/ Andy Hitchings
Andy Hitchings

By: /s/ Dustin Cooper
Dustin Cooper

8618/CWF/WR Change/L041117rsb DWR DOI modeling
Enclosures
Cc: California WaterFix service list

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (Q5 Central Tendency Climate Change) and Proposed Action (Q5 Central Tendency Climate Change)

Long-Term and Water Year-Type Average of Trinity Reservoir Under BA - No Action Alternative (Q5) and BA - Proposed Action (Q5)

| Analysis Period | Average Storage (TAF) | | | | | | | | | | | |
|---------------------------------|-----------------------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| | October | November | December | January | February | March | April | May | June | July | August | September |
| Long-Term | | | | | | | | | | | | |
| Full Simulation Period | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,230 | 1,239 | 1,303 | 1,381 | 1,506 | 1,633 | 1,776 | 1,753 | 1,685 | 1,547 | 1,402 | 1,282 |
| BA - Proposed Action (Q5) | 1,242 | 1,257 | 1,323 | 1,401 | 1,525 | 1,651 | 1,794 | 1,771 | 1,703 | 1,554 | 1,408 | 1,291 |
| Difference | 13 | 17 | 20 | 20 | 19 | 18 | 18 | 18 | 18 | 8 | 6 | 9 |
| Percent Difference | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 0% | 1% |
| Water Year-Types | | | | | | | | | | | | |
| Wet | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,450 | 1,489 | 1,611 | 1,742 | 1,918 | 2,055 | 2,227 | 2,247 | 2,187 | 2,066 | 1,937 | 1,782 |
| BA - Proposed Action (Q5) | 1,451 | 1,495 | 1,619 | 1,748 | 1,924 | 2,054 | 2,228 | 2,249 | 2,188 | 2,060 | 1,933 | 1,779 |
| Difference | 2 | 6 | 7 | 7 | 5 | -1 | 1 | 2 | 0 | -7 | -4 | -3 |
| Percent Difference | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Above Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,248 | 1,240 | 1,315 | 1,475 | 1,667 | 1,851 | 2,015 | 1,997 | 1,917 | 1,785 | 1,632 | 1,508 |
| BA - Proposed Action (Q5) | 1,275 | 1,274 | 1,360 | 1,511 | 1,697 | 1,880 | 2,048 | 2,030 | 1,947 | 1,807 | 1,649 | 1,519 |
| Difference | 27 | 34 | 45 | 37 | 29 | 30 | 33 | 33 | 30 | 22 | 17 | 11 |
| Percent Difference | 2% | 3% | 3% | 2% | 2% | 2% | 2% | 2% | 2% | 1% | 1% | 1% |
| Below Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,154 | 1,163 | 1,191 | 1,263 | 1,350 | 1,452 | 1,622 | 1,585 | 1,514 | 1,370 | 1,233 | 1,137 |
| BA - Proposed Action (Q5) | 1,170 | 1,177 | 1,207 | 1,281 | 1,368 | 1,470 | 1,638 | 1,601 | 1,533 | 1,376 | 1,244 | 1,148 |
| Difference | 16 | 14 | 17 | 17 | 18 | 19 | 17 | 16 | 19 | 5 | 11 | 11 |
| Percent Difference | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 1% | 0% | 1% | 1% |
| Dry | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,196 | 1,194 | 1,227 | 1,241 | 1,332 | 1,463 | 1,590 | 1,522 | 1,430 | 1,258 | 1,091 | 986 |
| BA - Proposed Action (Q5) | 1,211 | 1,217 | 1,250 | 1,271 | 1,361 | 1,494 | 1,620 | 1,553 | 1,465 | 1,290 | 1,112 | 1,009 |
| Difference | 15 | 23 | 23 | 30 | 28 | 31 | 30 | 30 | 35 | 32 | 21 | 23 |
| Percent Difference | 1% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 3% | 2% | 2% |
| Critical | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 874 | 856 | 871 | 856 | 898 | 969 | 1,018 | 978 | 943 | 820 | 675 | 583 |
| BA - Proposed Action (Q5) | 889 | 876 | 890 | 877 | 920 | 993 | 1,040 | 999 | 960 | 812 | 665 | 593 |
| Difference | 15 | 20 | 19 | 21 | 23 | 24 | 21 | 21 | 17 | -8 | -10 | 10 |
| Percent Difference | 2% | 2% | 2% | 2% | 3% | 2% | 2% | 2% | 2% | -1% | -1% | 2% |

Trinity Reservoir

BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,850 | 1,847 | 1,850 | 1,900 | 2,000 | 2,100 | 2,295 | 2,349 | 2,313 | 2,270 | 2,150 | 1,946 |
| 20% | 1,779 | 1,764 | 1,807 | 1,900 | 2,000 | 2,100 | 2,253 | 2,276 | 2,205 | 2,065 | 1,927 | 1,768 |
| 30% | 1,548 | 1,582 | 1,680 | 1,773 | 1,959 | 2,081 | 2,217 | 2,168 | 2,064 | 1,919 | 1,782 | 1,636 |
| 40% | 1,388 | 1,382 | 1,553 | 1,673 | 1,777 | 1,988 | 2,123 | 2,024 | 1,916 | 1,781 | 1,592 | 1,431 |
| 50% | 1,207 | 1,235 | 1,370 | 1,500 | 1,651 | 1,763 | 1,912 | 1,825 | 1,698 | 1,558 | 1,404 | 1,291 |
| 60% | 1,121 | 1,148 | 1,230 | 1,277 | 1,500 | 1,661 | 1,789 | 1,715 | 1,618 | 1,422 | 1,259 | 1,147 |
| 70% | 1,012 | 1,005 | 1,089 | 1,126 | 1,246 | 1,354 | 1,483 | 1,441 | 1,385 | 1,272 | 1,123 | 1,042 |
| 80% | 807 | 842 | 864 | 949 | 1,030 | 1,122 | 1,282 | 1,227 | 1,204 | 1,054 | 910 | 815 |
| 90% | 511 | 526 | 561 | 613 | 684 | 857 | 984 | 925 | 862 | 733 | 584 | 525 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,230 | 1,239 | 1,303 | 1,381 | 1,506 | 1,633 | 1,776 | 1,753 | 1,685 | 1,547 | 1,402 | 1,282 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 1,450 | 1,489 | 1,611 | 1,742 | 1,918 | 2,055 | 2,227 | 2,247 | 2,187 | 2,066 | 1,937 | 1,782 |
| Above Normal | 1,248 | 1,240 | 1,315 | 1,475 | 1,667 | 1,851 | 2,015 | 1,997 | 1,917 | 1,785 | 1,632 | 1,508 |
| Below Normal | 1,154 | 1,163 | 1,191 | 1,263 | 1,350 | 1,452 | 1,622 | 1,585 | 1,514 | 1,370 | 1,233 | 1,137 |
| Dry | 1,196 | 1,194 | 1,227 | 1,241 | 1,332 | 1,463 | 1,590 | 1,522 | 1,430 | 1,258 | 1,091 | 986 |
| Critical | 874 | 856 | 871 | 856 | 898 | 969 | 1,018 | 978 | 943 | 820 | 675 | 583 |

BA - Proposed Action (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,850 | 1,847 | 1,850 | 1,900 | 2,000 | 2,100 | 2,299 | 2,351 | 2,313 | 2,249 | 2,137 | 1,944 |
| 20% | 1,767 | 1,799 | 1,830 | 1,900 | 2,000 | 2,100 | 2,257 | 2,283 | 2,210 | 2,078 | 1,928 | 1,786 |
| 30% | 1,578 | 1,600 | 1,711 | 1,774 | 1,969 | 2,074 | 2,215 | 2,166 | 2,075 | 1,928 | 1,784 | 1,645 |
| 40% | 1,405 | 1,422 | 1,559 | 1,674 | 1,827 | 2,023 | 2,146 | 2,030 | 1,906 | 1,756 | 1,590 | 1,444 |
| 50% | 1,241 | 1,276 | 1,405 | 1,551 | 1,673 | 1,799 | 1,938 | 1,895 | 1,774 | 1,586 | 1,411 | 1,300 |
| 60% | 1,159 | 1,189 | 1,229 | 1,285 | 1,498 | 1,679 | 1,779 | 1,749 | 1,649 | 1,475 | 1,330 | 1,220 |
| 70% | 1,052 | 1,045 | 1,110 | 1,137 | 1,270 | 1,417 | 1,523 | 1,549 | 1,423 | 1,298 | 1,099 | 1,029 |
| 80% | 822 | 848 | 872 | 984 | 1,055 | 1,145 | 1,330 | 1,309 | 1,222 | 1,058 | 937 | 836 |
| 90% | 514 | 544 | 609 | 615 | 702 | 878 | 987 | 932 | 869 | 748 | 593 | 528 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,242 | 1,257 | 1,323 | 1,401 | 1,525 | 1,651 | 1,794 | 1,771 | 1,703 | 1,554 | 1,408 | 1,291 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 1,451 | 1,495 | 1,619 | 1,748 | 1,924 | 2,054 | 2,228 | 2,249 | 2,188 | 2,060 | 1,933 | 1,779 |
| Above Normal | 1,275 | 1,274 | 1,360 | 1,511 | 1,697 | 1,880 | 2,048 | 2,030 | 1,947 | 1,807 | 1,649 | 1,519 |
| Below Normal | 1,170 | 1,177 | 1,207 | 1,281 | 1,368 | 1,470 | 1,638 | 1,601 | 1,533 | 1,376 | 1,244 | 1,148 |
| Dry | 1,211 | 1,217 | 1,250 | 1,271 | 1,361 | 1,494 | 1,620 | 1,553 | 1,465 | 1,290 | 1,112 | 1,009 |
| Critical | 889 | 876 | 890 | 877 | 920 | 993 | 1,040 | 999 | 960 | 812 | 665 | 593 |

BA - Proposed Action (Q5) Minus BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | -21 | -13 | -2 |
| 20% | -12 | 35 | 23 | 0 | 0 | 0 | 4 | 7 | 4 | 13 | 2 | 19 |
| 30% | 29 | 18 | 31 | 1 | 9 | -7 | -2 | -1 | 11 | 9 | 3 | 9 |
| 40% | 17 | 40 | 6 | 1 | 51 | 35 | 23 | 6 | -10 | -25 | -2 | 12 |
| 50% | 34 | 41 | 35 | 51 | 22 | 36 | 26 | 70 | 76 | 28 | 7 | 9 |
| 60% | 38 | 41 | -1 | 8 | -2 | 17 | -10 | 34 | 31 | 52 | 71 | 73 |
| 70% | 40 | 40 | 20 | 11 | 25 | 64 | 40 | 108 | 38 | 27 | -24 | -14 |
| 80% | 15 | 7 | 9 | 35 | 25 | 24 | 48 | 81 | 18 | 4 | 27 | 21 |
| 90% | 3 | 18 | 48 | 2 | 18 | 21 | 3 | 7 | 7 | 15 | 9 | 3 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 13 | 17 | 20 | 20 | 19 | 18 | 18 | 18 | 18 | 8 | 6 | 9 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 2 | 6 | 7 | 7 | 5 | -1 | 1 | 2 | 0 | -7 | -4 | -3 |
| Above Normal | 27 | 34 | 45 | 37 | 29 | 30 | 33 | 33 | 30 | 22 | 17 | 11 |
| Below Normal | 16 | 14 | 17 | 17 | 18 | 19 | 17 | 16 | 19 | 5 | 11 | 11 |
| Dry | 15 | 23 | 23 | 30 | 28 | 31 | 30 | 30 | 35 | 32 | 21 | 23 |
| Critical | 15 | 20 | 19 | 21 | 23 | 24 | 21 | 21 | 17 | -8 | -10 | 10 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Trinity Reservoir (TAF)
 BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| 1922 | Above Normal | 1,830 | 1,676 | 1,678 | 1,675 | 1,697 | 1,752 | 1,847 | 1,935 | 1,965 | 1,846 | 1,723 | 1,574 |
| 1923 | Below Normal | 1,488 | 1,460 | 1,465 | 1,498 | 1,518 | 1,562 | 1,667 | 1,687 | 1,613 | 1,426 | 1,259 | 1,145 |
| 1924 | Critical | 1,121 | 1,109 | 1,100 | 1,000 | 1,031 | 1,022 | 990 | 905 | 844 | 721 | 599 | 500 |
| 1925 | Dry | 502 | 588 | 645 | 561 | 909 | 1,052 | 1,333 | 1,316 | 1,222 | 1,062 | 975 | 900 |
| 1926 | Dry | 873 | 865 | 874 | 875 | 1,028 | 1,139 | 1,327 | 1,200 | 1,148 | 1,043 | 870 | 785 |
| 1927 | Wet | 757 | 954 | 1,169 | 1,300 | 1,600 | 1,784 | 2,008 | 2,002 | 1,893 | 1,810 | 1,660 | 1,517 |
| 1928 | Above Normal | 1,456 | 1,490 | 1,499 | 1,554 | 1,663 | 1,863 | 2,015 | 1,927 | 1,819 | 1,660 | 1,507 | 1,385 |
| 1929 | Critical | 1,273 | 1,228 | 1,220 | 1,029 | 1,047 | 1,095 | 1,100 | 1,123 | 1,106 | 990 | 869 | 783 |
| 1930 | Dry | 750 | 732 | 876 | 893 | 1,002 | 1,130 | 1,225 | 1,123 | 1,053 | 935 | 797 | 713 |
| 1931 | Critical | 681 | 672 | 668 | 691 | 712 | 767 | 781 | 730 | 695 | 644 | 412 | 322 |
| 1932 | Dry | 240 | 240 | 245 | 262 | 292 | 447 | 530 | 537 | 531 | 476 | 369 | 329 |
| 1933 | Critical | 287 | 275 | 270 | 266 | 268 | 416 | 561 | 532 | 610 | 583 | 462 | 263 |
| 1934 | Critical | 240 | 240 | 254 | 330 | 415 | 561 | 624 | 574 | 527 | 395 | 240 | 206 |
| 1935 | Below Normal | 217 | 287 | 324 | 377 | 465 | 527 | 716 | 726 | 712 | 598 | 557 | 519 |
| 1936 | Below Normal | 505 | 499 | 502 | 628 | 800 | 917 | 1,064 | 969 | 904 | 794 | 694 | 656 |
| 1937 | Below Normal | 638 | 627 | 617 | 609 | 614 | 753 | 981 | 1,040 | 1,048 | 942 | 858 | 790 |
| 1938 | Wet | 765 | 941 | 1,181 | 1,294 | 1,509 | 1,760 | 2,065 | 2,256 | 2,177 | 2,040 | 1,922 | 1,808 |
| 1939 | Dry | 1,731 | 1,723 | 1,740 | 1,745 | 1,760 | 1,865 | 1,931 | 1,772 | 1,554 | 1,322 | 1,088 | 871 |
| 1940 | Above Normal | 700 | 689 | 709 | 902 | 1,326 | 1,683 | 1,925 | 1,828 | 1,690 | 1,507 | 1,372 | 1,262 |
| 1941 | Wet | 1,206 | 1,188 | 1,400 | 1,662 | 1,973 | 2,100 | 2,300 | 2,420 | 2,440 | 2,270 | 2,150 | 1,975 |
| 1942 | Wet | 1,850 | 1,833 | 1,850 | 1,900 | 2,000 | 2,085 | 2,243 | 2,287 | 2,187 | 2,144 | 2,028 | 1,884 |
| 1943 | Wet | 1,821 | 1,815 | 1,850 | 1,900 | 2,000 | 2,100 | 2,251 | 2,128 | 2,039 | 1,899 | 1,779 | 1,633 |
| 1944 | Dry | 1,545 | 1,362 | 1,351 | 1,241 | 1,286 | 1,341 | 1,368 | 1,406 | 1,363 | 1,200 | 1,021 | 937 |
| 1945 | Below Normal | 905 | 937 | 1,014 | 1,072 | 1,248 | 1,298 | 1,439 | 1,381 | 1,272 | 1,121 | 1,034 | 965 |
| 1946 | Below Normal | 971 | 1,065 | 1,343 | 1,496 | 1,551 | 1,677 | 1,888 | 1,867 | 1,760 | 1,586 | 1,438 | 1,325 |
| 1947 | Dry | 1,264 | 1,255 | 1,268 | 1,215 | 1,275 | 1,391 | 1,470 | 1,365 | 1,316 | 1,143 | 915 | 807 |
| 1948 | Below Normal | 839 | 849 | 848 | 1,057 | 1,080 | 1,110 | 1,303 | 1,296 | 1,330 | 1,276 | 1,162 | 1,138 |
| 1949 | Dry | 1,114 | 1,119 | 1,119 | 1,111 | 1,153 | 1,355 | 1,613 | 1,612 | 1,543 | 1,392 | 1,259 | 1,145 |
| 1950 | Below Normal | 1,114 | 1,104 | 1,090 | 1,117 | 1,210 | 1,342 | 1,476 | 1,445 | 1,406 | 1,276 | 1,141 | 1,072 |
| 1951 | Above Normal | 1,202 | 1,339 | 1,615 | 1,716 | 1,981 | 2,092 | 2,204 | 2,101 | 1,920 | 1,816 | 1,665 | 1,520 |
| 1952 | Wet | 1,466 | 1,476 | 1,661 | 1,733 | 1,959 | 2,100 | 2,300 | 2,408 | 2,315 | 2,270 | 2,150 | 1,975 |
| 1953 | Wet | 1,850 | 1,814 | 1,850 | 1,900 | 2,000 | 2,100 | 2,268 | 2,211 | 2,307 | 2,270 | 2,150 | 1,932 |
| 1954 | Above Normal | 1,850 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,300 | 2,237 | 2,146 | 1,994 | 1,805 | 1,667 |
| 1955 | Dry | 1,579 | 1,599 | 1,645 | 1,665 | 1,695 | 1,688 | 1,728 | 1,713 | 1,674 | 1,530 | 1,363 | 1,249 |
| 1956 | Wet | 1,187 | 1,197 | 1,555 | 1,900 | 2,000 | 2,100 | 2,267 | 2,345 | 2,229 | 2,094 | 1,977 | 1,852 |
| 1957 | Above Normal | 1,765 | 1,742 | 1,721 | 1,713 | 1,886 | 2,085 | 2,212 | 2,191 | 2,141 | 1,989 | 1,870 | 1,731 |
| 1958 | Wet | 1,821 | 1,850 | 1,850 | 1,900 | 2,178 | 2,100 | 2,300 | 2,420 | 2,376 | 2,270 | 2,150 | 1,962 |
| 1959 | Below Normal | 1,850 | 1,820 | 1,806 | 1,900 | 2,000 | 2,100 | 2,260 | 2,144 | 2,022 | 1,789 | 1,569 | 1,400 |
| 1960 | Dry | 1,337 | 1,298 | 1,277 | 1,276 | 1,446 | 1,657 | 1,787 | 1,707 | 1,680 | 1,501 | 1,337 | 1,223 |
| 1961 | Dry | 1,162 | 1,174 | 1,252 | 1,296 | 1,498 | 1,604 | 1,795 | 1,811 | 1,774 | 1,620 | 1,425 | 1,313 |
| 1962 | Below Normal | 1,253 | 1,232 | 1,244 | 1,262 | 1,398 | 1,470 | 1,800 | 1,777 | 1,693 | 1,629 | 1,483 | 1,371 |
| 1963 | Wet | 1,520 | 1,572 | 1,745 | 1,788 | 2,000 | 2,077 | 2,300 | 2,291 | 2,208 | 2,055 | 1,933 | 1,728 |
| 1964 | Dry | 1,634 | 1,708 | 1,735 | 1,773 | 1,781 | 1,808 | 1,827 | 1,711 | 1,640 | 1,418 | 1,259 | 1,151 |
| 1965 | Wet | 1,127 | 1,156 | 1,756 | 1,900 | 1,991 | 2,050 | 2,243 | 2,123 | 2,031 | 1,882 | 1,744 | 1,605 |
| 1966 | Below Normal | 1,514 | 1,580 | 1,606 | 1,710 | 1,789 | 1,991 | 2,247 | 2,202 | 2,036 | 1,815 | 1,600 | 1,434 |
| 1967 | Wet | 1,375 | 1,477 | 1,638 | 1,778 | 1,925 | 2,062 | 2,171 | 2,272 | 2,320 | 2,270 | 2,150 | 1,975 |
| 1968 | Below Normal | 1,850 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,163 | 2,029 | 1,899 | 1,712 | 1,534 | 1,422 |
| 1969 | Wet | 1,364 | 1,356 | 1,421 | 1,593 | 1,736 | 1,907 | 2,233 | 2,420 | 2,301 | 2,160 | 2,041 | 1,926 |
| 1970 | Wet | 1,850 | 1,850 | 1,850 | 1,952 | 2,000 | 2,100 | 2,155 | 2,030 | 1,936 | 1,752 | 1,571 | 1,350 |
| 1971 | Wet | 1,206 | 1,307 | 1,478 | 1,765 | 1,886 | 2,059 | 2,215 | 2,235 | 2,231 | 2,189 | 2,067 | 1,952 |
| 1972 | Below Normal | 1,850 | 1,818 | 1,823 | 1,900 | 2,000 | 2,100 | 2,215 | 2,111 | 2,032 | 1,875 | 1,726 | 1,582 |
| 1973 | Above Normal | 1,528 | 1,567 | 1,673 | 1,847 | 2,000 | 2,100 | 2,251 | 2,286 | 2,203 | 2,056 | 1,859 | 1,716 |
| 1974 | Wet | 1,681 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,300 | 2,350 | 2,262 | 2,135 | 2,015 | 1,901 |
| 1975 | Wet | 1,837 | 1,801 | 1,810 | 1,824 | 1,962 | 2,100 | 2,237 | 2,354 | 2,435 | 2,270 | 2,150 | 1,931 |
| 1976 | Critical | 1,850 | 1,850 | 1,850 | 1,662 | 1,691 | 1,727 | 1,780 | 1,724 | 1,564 | 1,378 | 1,222 | 1,111 |
| 1977 | Critical | 1,077 | 1,000 | 982 | 971 | 961 | 947 | 914 | 855 | 811 | 694 | 474 | 440 |
| 1978 | Above Normal | 285 | 311 | 536 | 988 | 1,195 | 1,489 | 1,675 | 1,665 | 1,555 | 1,439 | 1,309 | 1,221 |
| 1979 | Below Normal | 1,159 | 1,147 | 1,136 | 1,160 | 1,227 | 1,380 | 1,487 | 1,522 | 1,473 | 1,347 | 1,213 | 1,100 |
| 1980 | Above Normal | 1,110 | 1,170 | 1,241 | 1,494 | 1,838 | 1,976 | 2,127 | 2,003 | 1,888 | 1,748 | 1,598 | 1,454 |
| 1981 | Dry | 1,391 | 1,351 | 1,389 | 1,503 | 1,637 | 1,751 | 1,843 | 1,746 | 1,677 | 1,496 | 1,265 | 1,152 |
| 1982 | Wet | 1,122 | 1,387 | 1,751 | 1,850 | 2,000 | 2,100 | 2,300 | 2,282 | 2,107 | 1,971 | 1,855 | 1,741 |
| 1983 | Wet | 1,759 | 1,798 | 1,850 | 1,900 | 2,000 | 2,100 | 2,300 | 2,420 | 2,447 | 2,270 | 2,150 | 1,975 |
| 1984 | Wet | 1,850 | 1,850 | 1,850 | 1,900 | 1,996 | 2,100 | 2,198 | 2,145 | 2,062 | 1,918 | 1,769 | 1,625 |
| 1985 | Dry | 1,535 | 1,645 | 1,699 | 1,693 | 1,725 | 1,769 | 1,898 | 1,798 | 1,650 | 1,421 | 1,192 | 1,051 |
| 1986 | Wet | 1,017 | 1,005 | 1,023 | 1,172 | 1,724 | 2,080 | 2,092 | 1,951 | 1,811 | 1,618 | 1,438 | 1,326 |
| 1987 | Dry | 1,272 | 1,238 | 1,228 | 1,238 | 1,326 | 1,542 | 1,683 | 1,597 | 1,387 | 1,161 | 979 | 897 |
| 1988 | Critical | 855 | 840 | 1,046 | 1,150 | 1,249 | 1,327 | 1,388 | 1,311 | 1,279 | 1,113 | 995 | 913 |
| 1989 | Dry | 881 | 910 | 928 | 917 | 942 | 1,292 | 1,484 | 1,350 | 1,218 | 1,020 | 903 | 821 |
| 1990 | Critical | 843 | 843 | 838 | 915 | 940 | 1,024 | 1,055 | 993 | 987 | 878 | 761 | 680 |
| 1991 | Critical | 664 | 655 | 639 | 623 | 625 | 693 | 724 | 737 | 726 | 615 | 577 | 541 |
| 1992 | Critical | 526 | 500 | 500 | 505 | 671 | 836 | 1,052 | 1,017 | 982 | 762 | 537 | 373 |
| 1993 | Above Normal | 240 | 240 | 271 | 358 | 519 | 906 | 1,092 | 1,224 | 1,270 | 1,234 | 1,127 | 1,100 |
| 1994 | Critical | 1,071 | 1,061 | 1,082 | 1,127 | 1,159 | 1,216 | 1,249 | 1,230 | 1,182 | 1,065 | 948 | 866 |
| 1995 | Wet | 835 | 820 | 804 | 1,282 | 1,541 | 2,000 | 2,239 | 2,299 | 2,217 | 2,199 | 2,150 | 1,975 |
| 1996 | Wet | 1,850 | 1,839 | 1,850 | 1,900 | 2,000 | 2,100 | 2,255 | 2,165 | 2,077 | 1,926 | 1,804 | 1,689 |
| 1997 | Wet | 1,626 | 1,630 | 1,850 | 1,900 | 1,985 | 2,062 | 2,107 | 1,900 | 1,689 | 1,504 | 1,338 | 1,224 |
| 1998 | Wet | 1,100 | 1,100 | 1,145 | 1,496 | 1,904 | 2,100 | 2,270 | 2,384 | 2,447 | 2,270 | 2,150 | 1,975 |
| 1999 | Wet | 1,850 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,284 | 2,335 | 2,323 | 2,269 | 2,081 | 1,894 |
| 2000 | Above Normal | 1,799 | 1,635 | 1,598 | 1,776 | 2,000 | 2,100 | 2,267 | 2,246 | 2,209 | 2,066 | 1,868 | 1,727 |
| 2001 | Dry | 1,637 | 1,554 | 1,543 | 1,544 | 1,589 | 1,766 | 1,854 | 1,812 | 1,611 | 1,397 | 1,239 | 1,130 |
| 2002 | Dry | 1,081 | 1,132 | 1,269 | 1,524 | 1,639 | 1,743 | 1,928 | 1,822 | 1,702 | 1,518 | 1,383 | 1,269 |
| 2003 | Above Normal | 1,207 | 1,169 | 1,395 | 1,776 | 1,900 | 2,062 | 2,264 | 2,318 | 2,203 | 2,064 | 1,879 | 1,738 |
| Average: | | 1,230 | 1,239 | 1,303 | 1,381 | 1,506 | 1,633 | 1,776 | 1,753 | 1,685 | 1,547 | 1,402 | 1,282 |
| Minimum: | | 217 | 240 | 245 | 262 | 268 | 416 | 530 | 532 | 527 | 395 | 240 | 206 |
| Maximum: | | 1,850 | 1,850 | 1,850 | 1,952 | 2,178 | 2,100 | 2,300 | 2,420 | 2,447 | 2,270 | 2,150 | 1,975 |
| Wet: | | 1,450 | 1,489 | 1,611 | 1,742 | 1,918 | 2,055 | 2,227 | 2,247 | 2,187 | 2,066 | 1,937 | 1,782 |
| Above Normal: | | 1,248 | 1,240 | 1,315 | 1,475 | 1,667 | 1,851 | 2,015 | 1,997 | 1,917 | 1,785 | 1,632 | 1,508 |
| Below Normal: | | 1,154 | 1,163 | 1,191 | 1,263 | 1,350 | 1,452 | 1,622 | 1,585 | 1,514 | 1,370 | 1,233 | 1,137 |
| Dry: | | 1,196 | 1,194 | 1,227 | 1,241 | 1,332 | 1,463 | 1,590 | 1,522 | 1,430 | 1,258 | 1,091 | 986 |
| Critical: | | 874 | 856 | 871 | | | | | | | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Trinity Reservoir (TAF)
 BA - Proposed Action (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| 1922 | Above Normal | 1,830 | 1,771 | 1,773 | 1,770 | 1,792 | 1,847 | 1,941 | 2,029 | 2,059 | 1,940 | 1,816 | 1,668 |
| 1923 | Below Normal | 1,582 | 1,553 | 1,558 | 1,591 | 1,620 | 1,668 | 1,773 | 1,786 | 1,715 | 1,525 | 1,358 | 1,244 |
| 1924 | Critical | 1,188 | 1,176 | 1,166 | 1,021 | 1,067 | 1,058 | 1,000 | 916 | 854 | 731 | 609 | 500 |
| 1925 | Dry | 502 | 588 | 645 | 560 | 908 | 1,052 | 1,333 | 1,315 | 1,222 | 1,061 | 974 | 900 |
| 1926 | Dry | 872 | 864 | 873 | 874 | 1,027 | 1,150 | 1,338 | 1,211 | 1,159 | 1,054 | 868 | 782 |
| 1927 | Wet | 755 | 951 | 1,166 | 1,297 | 1,597 | 1,778 | 2,002 | 1,996 | 1,888 | 1,748 | 1,598 | 1,455 |
| 1928 | Above Normal | 1,394 | 1,428 | 1,446 | 1,510 | 1,620 | 1,820 | 1,972 | 1,884 | 1,775 | 1,586 | 1,433 | 1,318 |
| 1929 | Critical | 1,255 | 1,231 | 1,224 | 1,071 | 1,090 | 1,138 | 1,142 | 1,165 | 1,148 | 1,032 | 911 | 824 |
| 1930 | Dry | 791 | 773 | 917 | 928 | 1,037 | 1,159 | 1,241 | 1,138 | 1,063 | 944 | 798 | 714 |
| 1931 | Critical | 681 | 673 | 669 | 692 | 713 | 776 | 790 | 739 | 704 | 550 | 357 | 240 |
| 1932 | Dry | 240 | 240 | 245 | 262 | 292 | 447 | 530 | 537 | 531 | 479 | 372 | 332 |
| 1933 | Critical | 290 | 278 | 273 | 270 | 271 | 419 | 564 | 535 | 613 | 500 | 277 | 240 |
| 1934 | Critical | 240 | 240 | 254 | 330 | 415 | 561 | 624 | 574 | 527 | 352 | 240 | 206 |
| 1935 | Below Normal | 218 | 287 | 324 | 377 | 465 | 527 | 717 | 726 | 712 | 599 | 557 | 519 |
| 1936 | Below Normal | 505 | 499 | 503 | 629 | 800 | 917 | 1,064 | 970 | 905 | 794 | 694 | 656 |
| 1937 | Below Normal | 638 | 627 | 617 | 609 | 614 | 753 | 981 | 1,040 | 1,049 | 943 | 859 | 791 |
| 1938 | Wet | 767 | 942 | 1,182 | 1,295 | 1,510 | 1,761 | 2,066 | 2,257 | 2,178 | 2,041 | 1,923 | 1,809 |
| 1939 | Dry | 1,732 | 1,724 | 1,741 | 1,755 | 1,771 | 1,869 | 1,933 | 1,781 | 1,563 | 1,332 | 1,098 | 931 |
| 1940 | Above Normal | 802 | 712 | 785 | 979 | 1,402 | 1,759 | 2,001 | 1,904 | 1,766 | 1,582 | 1,432 | 1,322 |
| 1941 | Wet | 1,266 | 1,248 | 1,459 | 1,722 | 2,000 | 2,100 | 2,300 | 2,420 | 2,442 | 2,270 | 2,150 | 1,975 |
| 1942 | Wet | 1,850 | 1,833 | 1,850 | 1,900 | 2,000 | 2,085 | 2,243 | 2,287 | 2,187 | 2,143 | 2,028 | 1,914 |
| 1943 | Wet | 1,821 | 1,815 | 1,850 | 1,900 | 2,000 | 2,100 | 2,251 | 2,128 | 2,039 | 1,899 | 1,779 | 1,633 |
| 1944 | Dry | 1,545 | 1,475 | 1,464 | 1,405 | 1,442 | 1,496 | 1,523 | 1,561 | 1,517 | 1,298 | 1,080 | 995 |
| 1945 | Below Normal | 963 | 995 | 1,073 | 1,131 | 1,306 | 1,362 | 1,502 | 1,444 | 1,334 | 1,168 | 1,081 | 1,011 |
| 1946 | Below Normal | 1,017 | 1,106 | 1,384 | 1,537 | 1,591 | 1,723 | 1,934 | 1,912 | 1,805 | 1,632 | 1,483 | 1,370 |
| 1947 | Dry | 1,299 | 1,297 | 1,310 | 1,274 | 1,325 | 1,441 | 1,521 | 1,416 | 1,367 | 1,193 | 964 | 830 |
| 1948 | Below Normal | 862 | 872 | 871 | 1,080 | 1,103 | 1,132 | 1,326 | 1,319 | 1,353 | 1,298 | 1,183 | 1,133 |
| 1949 | Dry | 1,109 | 1,114 | 1,114 | 1,106 | 1,148 | 1,350 | 1,608 | 1,607 | 1,505 | 1,354 | 1,221 | 1,108 |
| 1950 | Below Normal | 1,076 | 1,066 | 1,053 | 1,079 | 1,172 | 1,299 | 1,433 | 1,402 | 1,364 | 1,234 | 1,099 | 1,031 |
| 1951 | Above Normal | 1,147 | 1,284 | 1,560 | 1,661 | 1,926 | 2,037 | 2,191 | 2,087 | 1,906 | 1,758 | 1,607 | 1,463 |
| 1952 | Wet | 1,408 | 1,418 | 1,603 | 1,675 | 1,901 | 2,073 | 2,300 | 2,408 | 2,315 | 2,270 | 2,150 | 1,975 |
| 1953 | Wet | 1,850 | 1,814 | 1,850 | 1,900 | 2,000 | 2,100 | 2,268 | 2,212 | 2,307 | 2,270 | 2,150 | 1,932 |
| 1954 | Above Normal | 1,850 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,300 | 2,237 | 2,144 | 1,992 | 1,803 | 1,666 |
| 1955 | Dry | 1,577 | 1,598 | 1,643 | 1,663 | 1,693 | 1,720 | 1,760 | 1,745 | 1,706 | 1,562 | 1,380 | 1,266 |
| 1956 | Wet | 1,203 | 1,189 | 1,548 | 1,900 | 2,000 | 2,100 | 2,267 | 2,345 | 2,229 | 2,094 | 1,977 | 1,826 |
| 1957 | Above Normal | 1,739 | 1,715 | 1,707 | 1,699 | 1,873 | 2,072 | 2,198 | 2,178 | 2,130 | 1,978 | 1,782 | 1,643 |
| 1958 | Wet | 1,780 | 1,850 | 1,850 | 1,900 | 2,178 | 2,100 | 2,300 | 2,420 | 2,376 | 2,270 | 2,150 | 1,949 |
| 1959 | Below Normal | 1,831 | 1,801 | 1,796 | 1,900 | 2,000 | 2,100 | 2,260 | 2,144 | 2,022 | 1,789 | 1,558 | 1,388 |
| 1960 | Dry | 1,326 | 1,287 | 1,265 | 1,264 | 1,435 | 1,646 | 1,776 | 1,696 | 1,646 | 1,467 | 1,334 | 1,220 |
| 1961 | Dry | 1,159 | 1,171 | 1,249 | 1,293 | 1,495 | 1,601 | 1,792 | 1,808 | 1,772 | 1,587 | 1,383 | 1,271 |
| 1962 | Below Normal | 1,211 | 1,190 | 1,211 | 1,230 | 1,366 | 1,438 | 1,768 | 1,745 | 1,661 | 1,508 | 1,378 | 1,266 |
| 1963 | Wet | 1,415 | 1,468 | 1,640 | 1,683 | 1,980 | 2,057 | 2,300 | 2,291 | 2,210 | 2,057 | 1,935 | 1,727 |
| 1964 | Dry | 1,633 | 1,707 | 1,743 | 1,836 | 1,836 | 1,865 | 1,883 | 1,768 | 1,696 | 1,554 | 1,330 | 1,222 |
| 1965 | Wet | 1,167 | 1,195 | 1,795 | 1,900 | 1,991 | 2,050 | 2,243 | 2,123 | 2,031 | 1,882 | 1,744 | 1,605 |
| 1966 | Below Normal | 1,544 | 1,611 | 1,652 | 1,762 | 1,841 | 2,043 | 2,272 | 2,226 | 2,074 | 1,853 | 1,711 | 1,574 |
| 1967 | Wet | 1,484 | 1,586 | 1,748 | 1,887 | 2,000 | 2,100 | 2,209 | 2,310 | 2,357 | 2,270 | 2,150 | 1,975 |
| 1968 | Below Normal | 1,850 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,163 | 2,029 | 1,925 | 1,689 | 1,511 | 1,399 |
| 1969 | Wet | 1,342 | 1,333 | 1,398 | 1,571 | 1,713 | 1,885 | 2,211 | 2,420 | 2,301 | 2,160 | 2,041 | 1,926 |
| 1970 | Wet | 1,850 | 1,850 | 1,850 | 1,952 | 2,000 | 2,100 | 2,155 | 2,030 | 1,902 | 1,718 | 1,537 | 1,316 |
| 1971 | Wet | 1,183 | 1,308 | 1,480 | 1,766 | 1,887 | 2,061 | 2,216 | 2,237 | 2,230 | 2,188 | 2,066 | 1,951 |
| 1972 | Below Normal | 1,850 | 1,829 | 1,834 | 1,900 | 2,000 | 2,100 | 2,215 | 2,111 | 2,032 | 1,837 | 1,688 | 1,545 |
| 1973 | Above Normal | 1,491 | 1,529 | 1,635 | 1,809 | 2,000 | 2,100 | 2,251 | 2,286 | 2,203 | 2,038 | 1,840 | 1,698 |
| 1974 | Wet | 1,662 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,300 | 2,350 | 2,262 | 2,135 | 2,015 | 1,901 |
| 1975 | Wet | 1,837 | 1,830 | 1,849 | 1,872 | 2,000 | 2,100 | 2,237 | 2,354 | 2,437 | 2,270 | 2,150 | 1,931 |
| 1976 | Critical | 1,850 | 1,850 | 1,850 | 1,689 | 1,719 | 1,754 | 1,808 | 1,746 | 1,581 | 1,389 | 1,233 | 1,121 |
| 1977 | Critical | 1,090 | 1,037 | 1,000 | 988 | 979 | 964 | 931 | 872 | 828 | 711 | 492 | 463 |
| 1978 | Above Normal | 354 | 380 | 605 | 1,057 | 1,264 | 1,558 | 1,743 | 1,733 | 1,623 | 1,506 | 1,377 | 1,288 |
| 1979 | Below Normal | 1,227 | 1,190 | 1,179 | 1,203 | 1,271 | 1,423 | 1,530 | 1,565 | 1,516 | 1,389 | 1,255 | 1,142 |
| 1980 | Above Normal | 1,152 | 1,218 | 1,289 | 1,542 | 1,887 | 2,029 | 2,181 | 2,056 | 1,905 | 1,765 | 1,614 | 1,470 |
| 1981 | Dry | 1,407 | 1,367 | 1,405 | 1,519 | 1,653 | 1,767 | 1,859 | 1,762 | 1,693 | 1,464 | 1,295 | 1,182 |
| 1982 | Wet | 1,151 | 1,423 | 1,787 | 1,886 | 2,000 | 2,100 | 2,300 | 2,282 | 2,107 | 1,971 | 1,855 | 1,741 |
| 1983 | Wet | 1,759 | 1,798 | 1,850 | 1,900 | 2,000 | 2,100 | 2,300 | 2,420 | 2,447 | 2,270 | 2,150 | 1,975 |
| 1984 | Wet | 1,850 | 1,850 | 1,850 | 1,900 | 1,996 | 2,100 | 2,198 | 2,145 | 2,062 | 1,918 | 1,769 | 1,625 |
| 1985 | Dry | 1,535 | 1,645 | 1,690 | 1,667 | 1,699 | 1,743 | 1,872 | 1,773 | 1,624 | 1,445 | 1,215 | 1,088 |
| 1986 | Wet | 1,056 | 1,046 | 1,063 | 1,212 | 1,764 | 2,100 | 2,097 | 1,956 | 1,816 | 1,633 | 1,483 | 1,372 |
| 1987 | Dry | 1,318 | 1,284 | 1,273 | 1,283 | 1,363 | 1,579 | 1,721 | 1,634 | 1,424 | 1,198 | 970 | 888 |
| 1988 | Critical | 844 | 828 | 1,034 | 1,138 | 1,237 | 1,315 | 1,376 | 1,299 | 1,267 | 1,102 | 983 | 901 |
| 1989 | Dry | 870 | 898 | 916 | 927 | 952 | 1,302 | 1,488 | 1,353 | 1,221 | 1,024 | 922 | 840 |
| 1990 | Critical | 862 | 862 | 857 | 934 | 958 | 1,043 | 1,074 | 1,018 | 1,012 | 903 | 786 | 704 |
| 1991 | Critical | 673 | 664 | 648 | 632 | 634 | 702 | 733 | 746 | 735 | 624 | 586 | 550 |
| 1992 | Critical | 535 | 526 | 522 | 530 | 697 | 861 | 1,078 | 1,042 | 1,008 | 787 | 562 | 500 |
| 1993 | Above Normal | 485 | 384 | 415 | 501 | 662 | 1,049 | 1,234 | 1,365 | 1,411 | 1,371 | 1,300 | 1,190 |
| 1994 | Critical | 1,161 | 1,151 | 1,178 | 1,228 | 1,267 | 1,323 | 1,356 | 1,335 | 1,244 | 1,065 | 948 | 866 |
| 1995 | Wet | 835 | 820 | 805 | 1,283 | 1,541 | 2,000 | 2,239 | 2,299 | 2,217 | 2,199 | 2,105 | 1,975 |
| 1996 | Wet | 1,850 | 1,839 | 1,850 | 1,900 | 2,000 | 2,100 | 2,255 | 2,165 | 2,077 | 1,926 | 1,804 | 1,689 |
| 1997 | Wet | 1,595 | 1,600 | 1,850 | 1,900 | 1,985 | 2,062 | 2,108 | 1,901 | 1,691 | 1,506 | 1,339 | 1,226 |
| 1998 | Wet | 1,148 | 1,163 | 1,208 | 1,559 | 1,967 | 2,100 | 2,270 | 2,384 | 2,447 | 2,270 | 2,150 | 1,975 |
| 1999 | Wet | 1,850 | 1,850 | 1,850 | 1,900 | 2,000 | 2,100 | 2,284 | 2,335 | 2,323 | 2,176 | 2,066 | 1,879 |
| 2000 | Above Normal | 1,815 | 1,817 | 1,828 | 1,900 | 2,000 | 2,100 | 2,268 | 2,246 | 2,209 | 2,066 | 1,868 | 1,728 |
| 2001 | Dry | 1,637 | 1,605 | 1,594 | 1,594 | 1,647 | 1,833 | 1,931 | 1,889 | 1,828 | 1,614 | 1,405 | 1,296 |
| 2002 | Dry | 1,242 | 1,269 | 1,406 | 1,661 | 1,770 | 1,874 | 2,059 | 1,953 | 1,832 | 1,598 | 1,417 | 1,303 |
| 2003 | Above Normal | 1,240 | 1,203 | 1,429 | 1,810 | 1,933 | 2,095 | 2,298 | 2,352 | 2,237 | 2,097 | 1,912 | 1,771 |
| Average: | | 1,242 | 1,257 | 1,323 | 1,401 | 1,525 | 1,651 | 1,794 | 1,771 | 1,703 | 1,554 | 1,408 | 1,291 |
| Minimum: | | 218 | 240 | 245 | 262 | 271 | 419 | 530 | 535 | 527 | 352 | 240 | 206 |
| Maximum: | | 1,850 | 1,850 | 1,850 | 1,952 | 2,178 | 2,100 | 2,300 | 2,420 | 2,447 | 2,270 | 2,150 | 1,975 |
| Wet: | | 1,451 | 1,495 | 1,619 | 1,748 | 1,924 | 2,054 | 2,228 | 2,249 | 2,188 | 2,060 | 1,933 | 1,779 |
| Above Normal: | | 1,275 | 1,274 | 1,360 | 1,511 | 1,697 | 1,880 | 2,048 | 2,030 | 1,947 | 1,807 | 1,649 | 1,519 |
| Below Normal: | | 1,170 | 1,177 | 1,207 | 1,281 | 1,368 | 1,470 | 1,638 | 1,601 | 1,533 | 1,376 | 1,244 | 1,148 |
| Dry: | | 1,211 | 1,217 | 1,250 | 1,271 | 1,361 | 1,494 | 1,620 | 1,553 | 1,465 | 1,290 | 1,112 | 1,009 |
| Critical: | | 889 | | | | | | | | | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Trinity Reservoir (TAF)
 Difference Between BA - Proposed Action (Q5) and BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|
| 1922 | Above Normal | 0 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 94 | 94 | 94 | 93 |
| 1923 | Below Normal | 93 | 93 | 93 | 93 | 101 | 106 | 106 | 100 | 102 | 99 | 98 | 98 |
| 1924 | Critical | 67 | 67 | 66 | 21 | 36 | 36 | 10 | 10 | 10 | 10 | 10 | 0 |
| 1925 | Dry | 0 | 0 | 0 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 | -1 |
| 1926 | Dry | -1 | -1 | -1 | -1 | -1 | 11 | 11 | 11 | 11 | 11 | -3 | -3 |
| 1927 | Wet | -3 | -3 | -3 | -3 | -3 | -6 | -6 | -6 | -6 | -62 | -62 | -62 |
| 1928 | Above Normal | -62 | -62 | -53 | -44 | -43 | -43 | -43 | -43 | -43 | -74 | -73 | -68 |
| 1929 | Critical | -17 | 4 | 4 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 41 | 41 |
| 1930 | Dry | 41 | 41 | 41 | 35 | 35 | 29 | 15 | 15 | 10 | 10 | 1 | 1 |
| 1931 | Critical | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | -94 | -56 | -82 |
| 1932 | Dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 |
| 1933 | Critical | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | -83 | -186 | -23 |
| 1934 | Critical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -43 | 0 | 0 |
| 1935 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1936 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1937 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 1938 | Wet | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1939 | Dry | 1 | 1 | 1 | 10 | 10 | 4 | 2 | 10 | 10 | 10 | 10 | 60 |
| 1940 | Above Normal | 102 | 23 | 77 | 76 | 76 | 76 | 76 | 76 | 76 | 75 | 60 | 60 |
| 1941 | Wet | 60 | 60 | 60 | 59 | 27 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| 1942 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | -1 | 31 |
| 1943 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1944 | Dry | 0 | 113 | 113 | 164 | 155 | 155 | 155 | 154 | 154 | 98 | 58 | 58 |
| 1945 | Below Normal | 58 | 58 | 58 | 58 | 58 | 63 | 63 | 63 | 63 | 47 | 47 | 47 |
| 1946 | Below Normal | 47 | 41 | 41 | 41 | 41 | 46 | 46 | 46 | 46 | 45 | 45 | 45 |
| 1947 | Dry | 35 | 42 | 42 | 59 | 51 | 51 | 51 | 50 | 50 | 50 | 50 | 23 |
| 1948 | Below Normal | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 22 | 22 | -5 |
| 1949 | Dry | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -38 | -38 | -38 | -38 |
| 1950 | Below Normal | -38 | -38 | -38 | -38 | -38 | -42 | -42 | -42 | -42 | -42 | -42 | -41 |
| 1951 | Above Normal | -55 | -55 | -55 | -55 | -55 | -55 | -14 | -14 | -14 | -58 | -58 | -58 |
| 1952 | Wet | -58 | -58 | -58 | -58 | -58 | -27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1953 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1954 | Above Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 | -2 | -2 |
| 1955 | Dry | -2 | -2 | -2 | -2 | -2 | 32 | 32 | 32 | 32 | 32 | 17 | 17 |
| 1956 | Wet | 16 | -7 | -7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -26 |
| 1957 | Above Normal | -26 | -26 | -14 | -14 | -14 | -14 | -14 | -14 | -11 | -11 | -88 | -88 |
| 1958 | Wet | -41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -13 |
| 1959 | Below Normal | -19 | -19 | -10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -11 | -11 |
| 1960 | Dry | -11 | -11 | -11 | -11 | -11 | -11 | -11 | -11 | -34 | -34 | -3 | -3 |
| 1961 | Dry | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -2 | -33 | -41 | -41 |
| 1962 | Below Normal | -41 | -41 | -32 | -32 | -32 | -32 | -32 | -32 | -32 | -121 | -105 | -105 |
| 1963 | Wet | -105 | -105 | -105 | -105 | -20 | -20 | 0 | 0 | 2 | 2 | 2 | -1 |
| 1964 | Dry | -1 | -1 | 8 | 63 | 55 | 56 | 56 | 56 | 56 | 136 | 71 | 70 |
| 1965 | Wet | 40 | 40 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1966 | Below Normal | 31 | 31 | 46 | 52 | 52 | 52 | 25 | 25 | 38 | 38 | 111 | 140 |
| 1967 | Wet | 109 | 109 | 109 | 109 | 75 | 38 | 38 | 37 | 37 | 0 | 0 | 0 |
| 1968 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | -23 | -23 | -23 |
| 1969 | Wet | -23 | -23 | -23 | -22 | -22 | -22 | -22 | 0 | 0 | 0 | 0 | 0 |
| 1970 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -34 | -34 | -34 | -34 |
| 1971 | Wet | -23 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | -1 | -1 | -1 | -1 |
| 1972 | Below Normal | 0 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | -38 | -38 | -38 |
| 1973 | Above Normal | -38 | -38 | -38 | -38 | 0 | 0 | 0 | 0 | 0 | -19 | -19 | -19 |
| 1974 | Wet | -19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1975 | Wet | 0 | 30 | 39 | 48 | 38 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| 1976 | Critical | 0 | 0 | 0 | 27 | 27 | 27 | 27 | 22 | 16 | 11 | 11 | 11 |
| 1977 | Critical | 13 | 37 | 18 | 18 | 18 | 17 | 17 | 17 | 17 | 17 | 17 | 23 |
| 1978 | Above Normal | 69 | 69 | 69 | 69 | 69 | 69 | 68 | 68 | 68 | 68 | 67 | 67 |
| 1979 | Below Normal | 67 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 42 | 42 |
| 1980 | Above Normal | 42 | 48 | 48 | 48 | 48 | 54 | 54 | 54 | 16 | 16 | 16 | 16 |
| 1981 | Dry | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | -32 | 30 | 30 |
| 1982 | Wet | 30 | 35 | 35 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1983 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1985 | Dry | 0 | 0 | -9 | -26 | -26 | -26 | -26 | -26 | -26 | 23 | 23 | 37 |
| 1986 | Wet | 39 | 40 | 40 | 40 | 40 | 20 | 5 | 5 | 5 | 15 | 46 | 46 |
| 1987 | Dry | 46 | 46 | 46 | 46 | 37 | 37 | 37 | 37 | 37 | 37 | -9 | -9 |
| 1988 | Critical | -12 | -12 | -12 | -12 | -12 | -12 | -12 | -12 | -12 | -12 | -12 | -12 |
| 1989 | Dry | -12 | -12 | -12 | 10 | 10 | 10 | 4 | 4 | 4 | 4 | 19 | 19 |
| 1990 | Critical | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 25 | 25 | 25 | 24 | 24 |
| 1991 | Critical | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1992 | Critical | 9 | 26 | 22 | 26 | 26 | 26 | 26 | 25 | 25 | 25 | 25 | 127 |
| 1993 | Above Normal | 245 | 144 | 144 | 144 | 144 | 143 | 141 | 141 | 140 | 137 | 173 | 90 |
| 1994 | Critical | 90 | 90 | 96 | 102 | 107 | 107 | 107 | 105 | 62 | 0 | 0 | 0 |
| 1995 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -45 | 0 |
| 1996 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | Wet | -31 | -31 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1998 | Wet | 48 | 63 | 63 | 63 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -92 | -15 | -15 |
| 2000 | Above Normal | 16 | 182 | 230 | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | Dry | 0 | 50 | 50 | 50 | 59 | 68 | 77 | 77 | 218 | 217 | 166 | 166 |
| 2002 | Dry | 161 | 137 | 137 | 137 | 131 | 131 | 131 | 130 | 130 | 80 | 34 | 34 |
| 2003 | Above Normal | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 33 | 33 |
| Average: | | 13 | 17 | 20 | 20 | 19 | 18 | 18 | 18 | 18 | 8 | 6 | 9 |
| Minimum: | | -105 | -105 | -105 | -105 | -58 | -55 | -43 | -43 | -43 | -121 | -186 | -105 |
| Maximum: | | 245 | 182 | 230 | 164 | 155 | 155 | 154 | 154 | 218 | 217 | 173 | 166 |
| Wet: | | 2 | 6 | 7 | 7 | 5 | -1 | 1 | 2 | 0 | -7 | -4 | -3 |
| Above Normal: | | 27 | 34 | 45 | 37 | 29 | 30 | 33 | 33 | 30 | 22 | 17 | 11 |
| Below Normal: | | 16 | 14 | 17 | 17 | 18 | 19 | 17 | 16 | 19 | 5 | 11 | 11 |
| Dry: | | 15 | 23 | 23 | 30 | 28 | 31 | 30 | 30 | 35 | 32 | 21 | 23 |
| Critical: | | 15 | 20 | 19 | 21 | 23 | 24 | 21 | 21 | 17 | -8 | -10 | 10 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (Q5 Central Tendency Climate Change) and Proposed Action (Q5 Central Tendency Climate Change)

Long-Term and Water Year-Type Average of Shasta Reservoir Under BA - No Action Alternative (Q5) and BA - Proposed Action (Q5)

| Analysis Period | Average Storage (TAF) | | | | | | | | | | | |
|---------------------------------|-----------------------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| | October | November | December | January | February | March | April | May | June | July | August | September |
| Long-Term | | | | | | | | | | | | |
| Full Simulation Period | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,398 | 2,376 | 2,590 | 2,897 | 3,182 | 3,550 | 3,831 | 3,844 | 3,515 | 2,980 | 2,672 | 2,480 |
| BA - Proposed Action (Q5) | 2,423 | 2,469 | 2,674 | 2,956 | 3,228 | 3,582 | 3,860 | 3,865 | 3,504 | 2,984 | 2,677 | 2,505 |
| Difference | 25 | 93 | 84 | 58 | 46 | 31 | 29 | 22 | -11 | 3 | 5 | 25 |
| Percent Difference | 1% | 4% | 3% | 2% | 1% | 1% | 1% | 1% | 0% | 0% | 0% | 1% |
| Water Year-Types | | | | | | | | | | | | |
| Wet | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,681 | 2,719 | 3,088 | 3,404 | 3,596 | 3,850 | 4,306 | 4,460 | 4,244 | 3,728 | 3,404 | 2,989 |
| BA - Proposed Action (Q5) | 2,714 | 2,811 | 3,135 | 3,420 | 3,597 | 3,850 | 4,305 | 4,461 | 4,234 | 3,720 | 3,387 | 2,981 |
| Difference | 33 | 92 | 47 | 16 | 1 | 0 | -1 | 1 | -10 | -8 | -16 | -9 |
| Percent Difference | 1% | 3% | 2% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Above Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,367 | 2,314 | 2,520 | 3,080 | 3,409 | 3,980 | 4,399 | 4,448 | 4,057 | 3,436 | 3,103 | 2,857 |
| BA - Proposed Action (Q5) | 2,387 | 2,417 | 2,639 | 3,168 | 3,458 | 3,981 | 4,396 | 4,443 | 4,012 | 3,399 | 3,074 | 2,891 |
| Difference | 20 | 104 | 119 | 88 | 49 | 2 | -3 | -5 | -45 | -37 | -30 | 34 |
| Percent Difference | 1% | 4% | 5% | 3% | 1% | 0% | 0% | 0% | -1% | -1% | -1% | 1% |
| Below Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,461 | 2,396 | 2,471 | 2,824 | 3,202 | 3,619 | 3,956 | 3,978 | 3,623 | 3,089 | 2,768 | 2,696 |
| BA - Proposed Action (Q5) | 2,447 | 2,484 | 2,579 | 2,899 | 3,245 | 3,643 | 3,987 | 4,009 | 3,605 | 3,067 | 2,769 | 2,727 |
| Difference | -14 | 89 | 108 | 75 | 43 | 25 | 31 | 31 | -18 | -22 | 1 | 31 |
| Percent Difference | -1% | 4% | 4% | 3% | 1% | 1% | 1% | 1% | -1% | -1% | 0% | 1% |
| Dry | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,290 | 2,272 | 2,468 | 2,655 | 3,065 | 3,525 | 3,654 | 3,540 | 3,145 | 2,604 | 2,293 | 2,260 |
| BA - Proposed Action (Q5) | 2,318 | 2,371 | 2,561 | 2,741 | 3,147 | 3,602 | 3,720 | 3,577 | 3,135 | 2,617 | 2,314 | 2,298 |
| Difference | 28 | 99 | 93 | 86 | 82 | 77 | 66 | 37 | -9 | 13 | 21 | 38 |
| Percent Difference | 1% | 4% | 4% | 3% | 3% | 2% | 2% | 1% | 0% | 0% | 1% | 2% |
| Critical | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,906 | 1,831 | 1,902 | 2,064 | 2,210 | 2,429 | 2,356 | 2,203 | 1,826 | 1,343 | 1,111 | 1,079 |
| BA - Proposed Action (Q5) | 1,958 | 1,909 | 1,989 | 2,126 | 2,297 | 2,498 | 2,422 | 2,262 | 1,853 | 1,425 | 1,176 | 1,143 |
| Difference | 53 | 78 | 86 | 62 | 87 | 69 | 66 | 59 | 28 | 82 | 65 | 64 |
| Percent Difference | 3% | 4% | 5% | 3% | 4% | 3% | 3% | 3% | 2% | 6% | 6% | 6% |

Shasta Reservoir

BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 3,200 | 3,251 | 3,326 | 3,620 | 3,837 | 4,223 | 4,489 | 4,552 | 4,486 | 3,921 | 3,580 | 3,207 |
| 20% | 3,016 | 2,945 | 3,290 | 3,529 | 3,716 | 4,117 | 4,437 | 4,552 | 4,293 | 3,797 | 3,483 | 3,045 |
| 30% | 2,853 | 2,757 | 3,252 | 3,371 | 3,638 | 4,010 | 4,377 | 4,548 | 4,201 | 3,588 | 3,231 | 2,972 |
| 40% | 2,714 | 2,670 | 3,023 | 3,263 | 3,492 | 3,950 | 4,268 | 4,423 | 4,009 | 3,327 | 3,026 | 2,852 |
| 50% | 2,588 | 2,536 | 2,792 | 3,153 | 3,380 | 3,756 | 4,139 | 4,196 | 3,774 | 3,182 | 2,842 | 2,729 |
| 60% | 2,498 | 2,443 | 2,532 | 3,000 | 3,283 | 3,567 | 3,989 | 3,974 | 3,550 | 2,975 | 2,712 | 2,612 |
| 70% | 2,233 | 2,239 | 2,321 | 2,612 | 3,174 | 3,416 | 3,728 | 3,526 | 3,274 | 2,715 | 2,514 | 2,337 |
| 80% | 1,914 | 1,917 | 2,122 | 2,428 | 2,717 | 3,137 | 3,347 | 3,126 | 2,780 | 2,310 | 2,022 | 1,967 |
| 90% | 862 | 987 | 1,158 | 1,677 | 2,136 | 2,362 | 2,393 | 2,194 | 1,815 | 1,443 | 1,041 | 954 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 2,398 | 2,376 | 2,590 | 2,897 | 3,182 | 3,550 | 3,831 | 3,844 | 3,515 | 2,980 | 2,672 | 2,480 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 2,681 | 2,719 | 3,088 | 3,404 | 3,596 | 3,850 | 4,306 | 4,460 | 4,244 | 3,728 | 3,404 | 2,989 |
| Above Normal | 2,367 | 2,314 | 2,520 | 3,080 | 3,409 | 3,980 | 4,399 | 4,448 | 4,057 | 3,436 | 3,103 | 2,857 |
| Below Normal | 2,461 | 2,396 | 2,471 | 2,824 | 3,202 | 3,619 | 3,956 | 3,978 | 3,623 | 3,089 | 2,768 | 2,696 |
| Dry | 2,290 | 2,272 | 2,468 | 2,655 | 3,065 | 3,525 | 3,654 | 3,540 | 3,145 | 2,604 | 2,293 | 2,260 |
| Critical | 1,906 | 1,831 | 1,902 | 2,064 | 2,210 | 2,429 | 2,356 | 2,203 | 1,826 | 1,343 | 1,111 | 1,079 |

BA - Proposed Action (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 3,200 | 3,224 | 3,335 | 3,623 | 3,883 | 4,223 | 4,496 | 4,552 | 4,480 | 3,906 | 3,555 | 3,200 |
| 20% | 3,046 | 3,109 | 3,312 | 3,535 | 3,743 | 4,129 | 4,447 | 4,552 | 4,293 | 3,790 | 3,434 | 3,081 |
| 30% | 2,912 | 2,981 | 3,253 | 3,434 | 3,654 | 4,015 | 4,376 | 4,545 | 4,200 | 3,582 | 3,212 | 2,992 |
| 40% | 2,753 | 2,825 | 3,194 | 3,349 | 3,535 | 3,963 | 4,280 | 4,410 | 3,875 | 3,297 | 2,998 | 2,806 |
| 50% | 2,601 | 2,687 | 3,038 | 3,252 | 3,463 | 3,784 | 4,157 | 4,200 | 3,714 | 3,152 | 2,809 | 2,729 |
| 60% | 2,509 | 2,493 | 2,720 | 3,084 | 3,316 | 3,666 | 3,998 | 3,982 | 3,513 | 3,001 | 2,727 | 2,642 |
| 70% | 2,308 | 2,324 | 2,472 | 2,771 | 3,252 | 3,428 | 3,820 | 3,696 | 3,359 | 2,802 | 2,579 | 2,465 |
| 80% | 1,888 | 2,003 | 2,145 | 2,518 | 2,766 | 3,243 | 3,488 | 3,268 | 2,812 | 2,331 | 2,002 | 1,970 |
| 90% | 986 | 965 | 1,228 | 1,663 | 2,164 | 2,450 | 2,493 | 2,280 | 1,848 | 1,502 | 1,177 | 1,094 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 2,423 | 2,469 | 2,674 | 2,956 | 3,228 | 3,582 | 3,860 | 3,865 | 3,504 | 2,984 | 2,677 | 2,505 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 2,714 | 2,811 | 3,135 | 3,420 | 3,597 | 3,850 | 4,305 | 4,461 | 4,234 | 3,720 | 3,387 | 2,981 |
| Above Normal | 2,387 | 2,417 | 2,639 | 3,168 | 3,458 | 3,981 | 4,396 | 4,443 | 4,012 | 3,399 | 3,074 | 2,891 |
| Below Normal | 2,447 | 2,484 | 2,579 | 2,899 | 3,245 | 3,643 | 3,987 | 4,009 | 3,605 | 3,067 | 2,769 | 2,727 |
| Dry | 2,318 | 2,371 | 2,561 | 2,741 | 3,147 | 3,602 | 3,720 | 3,577 | 3,135 | 2,617 | 2,314 | 2,298 |
| Critical | 1,958 | 1,909 | 1,989 | 2,126 | 2,297 | 2,498 | 2,422 | 2,262 | 1,853 | 1,425 | 1,176 | 1,143 |

BA - Proposed Action (Q5) Minus BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 0 | -28 | 8 | 3 | 46 | 0 | 7 | 0 | -6 | -15 | -25 | -7 |
| 20% | 29 | 163 | 22 | 6 | 27 | 12 | 10 | 0 | 1 | -7 | -49 | 36 |
| 30% | 59 | 223 | 1 | 63 | 16 | 5 | 0 | -2 | -1 | -7 | -19 | 21 |
| 40% | 39 | 155 | 170 | 86 | 43 | 12 | 13 | -14 | -134 | -29 | -28 | -45 |
| 50% | 12 | 150 | 246 | 99 | 83 | 27 | 18 | 5 | -60 | -30 | -33 | 0 |
| 60% | 11 | 50 | 189 | 84 | 32 | 99 | 9 | 7 | -37 | 26 | 15 | 30 |
| 70% | 75 | 86 | 151 | 159 | 78 | 12 | 92 | 170 | 85 | 87 | 64 | 128 |
| 80% | -26 | 86 | 23 | 90 | 50 | 106 | 142 | 142 | 32 | 21 | -20 | 3 |
| 90% | 125 | -22 | 70 | -14 | 28 | 89 | 100 | 86 | 33 | 59 | 136 | 140 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 25 | 93 | 84 | 58 | 46 | 31 | 29 | 22 | -11 | 3 | 5 | 25 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 33 | 92 | 47 | 16 | 1 | 0 | -1 | 1 | -10 | -8 | -16 | -9 |
| Above Normal | 20 | 104 | 119 | 88 | 49 | 2 | -3 | -5 | -45 | -37 | -30 | 34 |
| Below Normal | -14 | 89 | 108 | 75 | 43 | 25 | 31 | 31 | -18 | -22 | 1 | 31 |
| Dry | 28 | 99 | 93 | 86 | 82 | 77 | 66 | 37 | -9 | 13 | 21 | 38 |
| Critical | 53 | 78 | 86 | 62 | 87 | 69 | 66 | 59 | 28 | 82 | 65 | 64 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Shasta Reservoir (TAF)
 BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| 1922 | Above Normal | 2,534 | 2,500 | 2,676 | 2,845 | 3,314 | 3,783 | 4,360 | 4,552 | 4,142 | 3,620 | 3,208 | 2,762 |
| 1923 | Below Normal | 2,659 | 2,464 | 2,640 | 2,881 | 3,049 | 3,174 | 3,605 | 3,386 | 3,067 | 2,603 | 2,328 | 2,337 |
| 1924 | Critical | 2,270 | 2,216 | 2,229 | 2,372 | 2,555 | 2,536 | 2,283 | 1,981 | 1,595 | 1,152 | 726 | 637 |
| 1925 | Dry | 690 | 875 | 993 | 1,351 | 2,885 | 3,274 | 3,900 | 3,974 | 3,688 | 3,096 | 2,712 | 2,626 |
| 1926 | Dry | 2,506 | 2,479 | 2,513 | 2,556 | 3,389 | 3,516 | 3,741 | 3,460 | 2,984 | 2,375 | 2,061 | 1,980 |
| 1927 | Wet | 1,919 | 2,420 | 2,896 | 3,368 | 3,462 | 4,139 | 4,552 | 4,552 | 4,185 | 3,471 | 3,093 | 2,861 |
| 1928 | Above Normal | 2,695 | 2,826 | 2,941 | 3,189 | 3,672 | 3,965 | 4,510 | 4,404 | 3,818 | 3,159 | 2,716 | 2,346 |
| 1929 | Critical | 2,173 | 2,128 | 2,213 | 2,489 | 2,665 | 2,813 | 2,861 | 2,691 | 2,327 | 1,801 | 1,515 | 1,438 |
| 1930 | Dry | 1,325 | 1,253 | 1,850 | 2,070 | 2,437 | 2,886 | 2,992 | 2,947 | 2,589 | 2,204 | 1,963 | 1,947 |
| 1931 | Critical | 1,863 | 1,851 | 1,842 | 1,936 | 2,006 | 2,143 | 1,797 | 1,518 | 1,154 | 650 | 595 | 552 |
| 1932 | Dry | 550 | 550 | 788 | 970 | 1,129 | 1,577 | 1,636 | 1,741 | 1,473 | 1,139 | 872 | 772 |
| 1933 | Critical | 668 | 639 | 626 | 652 | 696 | 1,316 | 1,461 | 1,498 | 1,311 | 790 | 550 | 550 |
| 1934 | Critical | 550 | 550 | 677 | 965 | 1,256 | 1,484 | 1,456 | 1,294 | 786 | 572 | 550 | 550 |
| 1935 | Below Normal | 541 | 626 | 663 | 1,012 | 1,332 | 1,710 | 2,693 | 2,981 | 2,670 | 2,314 | 1,951 | 1,856 |
| 1936 | Below Normal | 1,788 | 1,754 | 1,745 | 2,432 | 3,346 | 3,613 | 3,798 | 3,723 | 3,458 | 2,879 | 2,523 | 2,400 |
| 1937 | Below Normal | 2,247 | 2,141 | 2,116 | 2,095 | 2,227 | 2,990 | 3,647 | 3,841 | 3,599 | 3,180 | 2,830 | 2,718 |
| 1938 | Wet | 2,666 | 3,243 | 3,310 | 3,644 | 3,560 | 3,416 | 4,058 | 4,501 | 4,323 | 3,927 | 3,563 | 2,920 |
| 1939 | Dry | 2,931 | 2,810 | 2,904 | 3,052 | 3,181 | 3,560 | 3,388 | 3,151 | 2,788 | 2,225 | 1,663 | 1,700 |
| 1940 | Above Normal | 1,681 | 1,503 | 1,712 | 2,617 | 3,252 | 3,435 | 4,140 | 4,137 | 3,755 | 3,137 | 2,732 | 2,456 |
| 1941 | Wet | 2,308 | 2,182 | 3,293 | 3,317 | 3,423 | 3,940 | 4,456 | 4,552 | 4,351 | 3,987 | 3,618 | 3,116 |
| 1942 | Wet | 2,979 | 2,669 | 3,316 | 3,389 | 3,516 | 3,775 | 4,385 | 4,552 | 4,434 | 3,905 | 3,514 | 3,030 |
| 1943 | Wet | 2,749 | 2,539 | 2,787 | 3,541 | 3,848 | 4,118 | 4,507 | 4,552 | 4,257 | 3,607 | 3,202 | 2,635 |
| 1944 | Dry | 2,463 | 2,246 | 2,255 | 2,422 | 2,751 | 3,051 | 3,080 | 3,088 | 2,834 | 2,414 | 2,191 | 2,156 |
| 1945 | Below Normal | 2,072 | 2,241 | 2,527 | 2,742 | 3,483 | 3,738 | 3,901 | 4,044 | 3,818 | 3,281 | 2,944 | 2,846 |
| 1946 | Below Normal | 2,921 | 3,252 | 3,265 | 3,622 | 3,808 | 4,135 | 4,253 | 4,175 | 3,783 | 3,184 | 2,826 | 2,473 |
| 1947 | Dry | 2,236 | 2,194 | 2,322 | 2,386 | 2,629 | 3,151 | 3,284 | 2,999 | 2,761 | 2,229 | 1,912 | 1,891 |
| 1948 | Below Normal | 2,083 | 2,114 | 2,126 | 2,692 | 2,777 | 3,116 | 4,101 | 4,552 | 4,500 | 3,902 | 3,495 | 3,400 |
| 1949 | Dry | 3,202 | 3,153 | 3,172 | 3,162 | 3,347 | 4,071 | 4,376 | 4,430 | 4,014 | 3,333 | 3,031 | 3,009 |
| 1950 | Below Normal | 2,839 | 2,705 | 2,655 | 2,921 | 3,334 | 3,680 | 4,007 | 3,975 | 3,665 | 3,299 | 3,009 | 2,955 |
| 1951 | Above Normal | 3,200 | 3,252 | 3,322 | 3,624 | 3,794 | 4,214 | 4,271 | 4,377 | 3,989 | 3,263 | 2,879 | 2,615 |
| 1952 | Wet | 2,519 | 2,482 | 3,306 | 3,604 | 3,739 | 4,022 | 4,290 | 4,552 | 4,431 | 4,017 | 3,682 | 3,320 |
| 1953 | Wet | 3,093 | 2,752 | 3,345 | 3,366 | 3,675 | 4,116 | 4,457 | 4,552 | 4,500 | 3,857 | 3,526 | 3,037 |
| 1954 | Above Normal | 2,846 | 2,670 | 2,788 | 3,552 | 3,661 | 4,106 | 4,546 | 4,501 | 4,163 | 3,536 | 3,228 | 2,949 |
| 1955 | Dry | 2,830 | 2,755 | 3,031 | 3,141 | 3,317 | 3,495 | 3,716 | 3,847 | 3,475 | 2,885 | 2,714 | 2,748 |
| 1956 | Wet | 2,676 | 2,774 | 3,252 | 3,288 | 3,994 | 3,994 | 4,456 | 4,552 | 4,309 | 3,878 | 3,581 | 2,970 |
| 1957 | Above Normal | 2,941 | 2,549 | 2,500 | 2,586 | 3,282 | 4,129 | 4,432 | 4,552 | 4,234 | 3,607 | 3,217 | 3,042 |
| 1958 | Wet | 3,220 | 3,154 | 3,338 | 3,531 | 3,252 | 3,416 | 4,173 | 4,552 | 4,500 | 4,083 | 3,700 | 3,175 |
| 1959 | Below Normal | 3,098 | 2,722 | 2,710 | 3,556 | 3,777 | 4,190 | 4,188 | 4,047 | 3,545 | 2,972 | 2,615 | 2,612 |
| 1960 | Dry | 2,497 | 2,338 | 2,338 | 2,563 | 3,376 | 4,011 | 4,050 | 4,168 | 3,576 | 2,985 | 2,672 | 2,584 |
| 1961 | Dry | 2,502 | 2,611 | 3,122 | 3,328 | 3,914 | 4,280 | 4,407 | 4,371 | 3,965 | 3,302 | 2,846 | 2,740 |
| 1962 | Below Normal | 2,567 | 2,701 | 3,032 | 3,145 | 3,675 | 4,256 | 4,441 | 4,382 | 4,041 | 3,284 | 2,926 | 2,907 |
| 1963 | Wet | 3,250 | 3,252 | 3,349 | 3,475 | 3,944 | 4,226 | 4,137 | 4,531 | 4,219 | 3,612 | 3,259 | 2,739 |
| 1964 | Dry | 2,751 | 2,929 | 2,995 | 3,449 | 3,663 | 3,805 | 3,645 | 3,519 | 3,290 | 2,765 | 2,519 | 2,528 |
| 1965 | Wet | 2,451 | 2,548 | 3,252 | 3,368 | 3,701 | 3,834 | 4,494 | 4,548 | 4,222 | 3,595 | 3,375 | 2,983 |
| 1966 | Below Normal | 2,769 | 2,906 | 3,039 | 3,674 | 4,037 | 4,229 | 4,417 | 4,239 | 3,722 | 3,154 | 2,740 | 2,642 |
| 1967 | Wet | 2,522 | 2,915 | 3,335 | 3,551 | 3,920 | 4,033 | 4,479 | 4,552 | 4,500 | 3,950 | 3,613 | 3,229 |
| 1968 | Below Normal | 3,157 | 2,840 | 2,937 | 3,200 | 3,654 | 4,171 | 4,200 | 4,093 | 3,571 | 2,955 | 2,750 | 2,682 |
| 1969 | Wet | 2,681 | 2,748 | 3,150 | 3,358 | 3,480 | 4,030 | 4,434 | 4,552 | 4,284 | 3,855 | 3,475 | 3,200 |
| 1970 | Wet | 3,200 | 2,970 | 3,317 | 3,252 | 3,431 | 3,988 | 4,032 | 3,970 | 3,542 | 2,951 | 2,685 | 2,209 |
| 1971 | Wet | 2,106 | 2,545 | 3,319 | 3,515 | 3,812 | 3,873 | 4,352 | 4,552 | 4,454 | 3,765 | 3,476 | 3,046 |
| 1972 | Below Normal | 2,851 | 2,500 | 2,664 | 3,002 | 3,384 | 4,226 | 4,455 | 4,400 | 3,836 | 3,200 | 2,977 | 3,070 |
| 1973 | Above Normal | 3,136 | 3,252 | 3,346 | 3,552 | 3,636 | 4,162 | 4,409 | 4,432 | 3,917 | 3,252 | 3,003 | 2,852 |
| 1974 | Wet | 2,981 | 3,252 | 3,267 | 3,252 | 3,694 | 3,416 | 4,289 | 4,470 | 4,201 | 3,810 | 3,539 | 3,200 |
| 1975 | Wet | 3,052 | 2,694 | 2,887 | 3,045 | 3,900 | 3,756 | 4,375 | 4,552 | 4,306 | 3,860 | 3,565 | 3,110 |
| 1976 | Critical | 3,200 | 3,055 | 3,158 | 3,393 | 3,494 | 3,681 | 3,729 | 3,389 | 3,084 | 2,680 | 2,682 | 2,752 |
| 1977 | Critical | 2,563 | 2,441 | 2,308 | 2,283 | 2,308 | 2,287 | 1,854 | 1,721 | 1,188 | 650 | 550 | 550 |
| 1978 | Above Normal | 550 | 583 | 1,087 | 3,266 | 3,567 | 4,000 | 4,552 | 4,552 | 4,118 | 3,542 | 3,201 | 3,087 |
| 1979 | Below Normal | 2,865 | 2,577 | 2,473 | 2,565 | 2,949 | 3,432 | 3,681 | 3,848 | 3,445 | 3,030 | 2,838 | 2,852 |
| 1980 | Above Normal | 2,992 | 3,123 | 3,290 | 3,528 | 3,292 | 3,980 | 4,245 | 4,216 | 3,804 | 3,343 | 3,037 | 3,045 |
| 1981 | Dry | 2,975 | 2,657 | 2,797 | 3,098 | 3,466 | 4,014 | 4,217 | 4,019 | 3,342 | 2,718 | 2,429 | 2,337 |
| 1982 | Wet | 2,328 | 3,249 | 3,276 | 3,616 | 3,530 | 3,953 | 4,094 | 4,428 | 4,224 | 3,853 | 3,576 | 3,400 |
| 1983 | Wet | 3,250 | 3,252 | 3,328 | 3,371 | 3,252 | 3,417 | 4,074 | 4,552 | 4,500 | 4,150 | 3,700 | 3,400 |
| 1984 | Wet | 3,250 | 3,252 | 3,285 | 3,650 | 3,997 | 4,246 | 4,475 | 4,468 | 4,133 | 3,496 | 3,272 | 2,702 |
| 1985 | Dry | 2,593 | 3,043 | 3,285 | 3,373 | 3,540 | 3,724 | 3,806 | 3,526 | 3,135 | 2,600 | 2,142 | 2,165 |
| 1986 | Wet | 2,123 | 2,107 | 2,309 | 2,859 | 3,252 | 3,534 | 3,943 | 3,904 | 3,464 | 2,915 | 2,640 | 2,635 |
| 1987 | Dry | 2,654 | 2,430 | 2,444 | 2,595 | 2,918 | 3,640 | 3,569 | 3,264 | 2,768 | 2,305 | 2,108 | 2,056 |
| 1988 | Critical | 1,907 | 1,898 | 2,548 | 3,034 | 3,001 | 3,114 | 3,072 | 2,995 | 2,511 | 1,946 | 1,693 | 1,642 |
| 1989 | Dry | 1,508 | 1,735 | 1,827 | 1,990 | 2,097 | 3,416 | 3,834 | 3,487 | 3,120 | 2,481 | 2,098 | 2,154 |
| 1990 | Critical | 2,317 | 2,283 | 2,270 | 2,513 | 2,606 | 2,849 | 2,652 | 2,774 | 2,567 | 1,980 | 1,638 | 1,594 |
| 1991 | Critical | 1,515 | 1,483 | 1,461 | 1,455 | 1,369 | 1,776 | 1,920 | 1,876 | 1,591 | 1,289 | 888 | 782 |
| 1992 | Critical | 683 | 648 | 635 | 674 | 1,347 | 1,780 | 2,002 | 1,658 | 1,295 | 787 | 550 | 550 |
| 1993 | Above Normal | 550 | 550 | 793 | 1,566 | 2,376 | 3,757 | 4,315 | 4,552 | 4,500 | 3,788 | 3,578 | 3,210 |
| 1994 | Critical | 3,158 | 2,784 | 2,860 | 2,999 | 3,215 | 3,366 | 3,184 | 3,037 | 2,501 | 1,824 | 1,397 | 1,353 |
| 1995 | Wet | 1,263 | 1,247 | 1,325 | 3,252 | 3,743 | 3,417 | 4,217 | 4,552 | 4,500 | 4,118 | 3,700 | 3,341 |
| 1996 | Wet | 3,208 | 2,724 | 3,249 | 3,706 | 3,503 | 4,010 | 4,421 | 4,552 | 4,306 | 3,718 | 3,434 | 3,023 |
| 1997 | Wet | 2,719 | 2,533 | 3,252 | 3,252 | 3,745 | 3,939 | 3,985 | 3,767 | 3,420 | 2,813 | 2,642 | 2,073 |
| 1998 | Wet | 1,944 | 1,930 | 2,204 | 3,339 | 3,252 | 3,504 | 4,314 | 4,552 | 4,500 | 4,150 | 3,700 | 3,400 |
| 1999 | Wet | 3,250 | 3,252 | 3,349 | 3,640 | 3,570 | 3,980 | 4,505 | 4,552 | 4,276 | 3,587 | 3,368 | 2,964 |
| 2000 | Above Normal | 2,694 | 2,437 | 2,498 | 3,121 | 3,282 | 3,976 | 4,456 | 4,549 | 4,042 | 3,437 | 3,178 | 2,936 |
| 2001 | Dry | 2,797 | 2,454 | 2,458 | 2,614 | 3,110 | 3,598 | 3,705 | 3,484 | 3,034 | 2,644 | 2,469 | 2,497 |
| 2002 | Dry | 2,208 | 2,383 | 3,334 | 3,678 | 4,022 | 4,381 | 4,422 | 4,245 | 3,766 | 3,172 | 2,873 | 2,796 |
| 2003 | Above Normal | 2,584 | 2,521 | 3,291 | 3,515 | 3,780 | 4,249 | 4,552 | 4,552 | 4,201 | 3,551 | 3,266 | 2,985 |
| Average: | | 2,398 | 2,376 | 2,590 | 2,897 | 3,182 | 3,550 | 3,831 | 3,844 | 3,515 | 2,980 | 2,672 | 2,480 |
| Minimum: | | 541 | 550 | 626 | 652 | 696 | 1,316 | 1,456 | 1,294 | 786 | 572 | 550 | 550 |
| Maximum: | | 3,250 | 3,252 | 3,349 | 3,706 | 4,037 | 4,381 | 4,552 | 4,552 | 4,500 | 4,150 | 3,700 | 3,400 |
| Wet: | | 2,681 | 2,719 | 3,088 | 3,404 | 3,596 | 3,850 | 4,306 | 4,460 | 4,244 | 3,728 | 3,404 | 2,989 |
| Above Normal: | | 2,367 | 2,314 | 2,520 | 3,080 | 3,409 | 3,980 | 4,399 | 4,448 | 4,057 | 3,436 | 3,103 | 2,857 |
| Below Normal: | | | | | | | | | | | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

**Shasta Reservoir (TAF)
 BA - Proposed Action (Q5)**

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| 1922 | Above Normal | 2,503 | 2,500 | 2,676 | 2,845 | 3,314 | 3,783 | 4,360 | 4,552 | 4,142 | 3,618 | 3,206 | 2,808 |
| 1923 | Below Normal | 2,678 | 2,646 | 2,821 | 3,062 | 3,221 | 3,342 | 3,772 | 3,558 | 3,235 | 2,775 | 2,493 | 2,500 |
| 1924 | Critical | 2,386 | 2,326 | 2,342 | 2,531 | 2,699 | 2,634 | 2,404 | 2,072 | 1,624 | 1,166 | 714 | 633 |
| 1925 | Dry | 687 | 873 | 991 | 1,350 | 2,884 | 3,272 | 3,898 | 3,971 | 3,611 | 3,111 | 2,723 | 2,636 |
| 1926 | Dry | 2,509 | 2,481 | 2,515 | 2,558 | 3,392 | 3,507 | 3,732 | 3,357 | 2,837 | 2,335 | 2,035 | 1,993 |
| 1927 | Wet | 1,883 | 2,384 | 2,861 | 3,333 | 3,462 | 4,142 | 4,552 | 4,552 | 4,182 | 3,580 | 3,184 | 2,973 |
| 1928 | Above Normal | 2,765 | 3,071 | 3,177 | 3,415 | 3,898 | 3,965 | 4,510 | 4,406 | 3,746 | 3,118 | 2,805 | 2,507 |
| 1929 | Critical | 2,285 | 2,282 | 2,368 | 2,605 | 2,780 | 2,928 | 2,975 | 2,766 | 2,370 | 1,919 | 1,471 | 1,377 |
| 1930 | Dry | 1,271 | 1,181 | 1,778 | 2,004 | 2,372 | 2,826 | 2,946 | 2,900 | 2,558 | 2,191 | 1,952 | 1,934 |
| 1931 | Critical | 1,792 | 1,767 | 1,758 | 1,852 | 1,922 | 2,051 | 1,705 | 1,426 | 1,056 | 650 | 550 | 550 |
| 1932 | Dry | 550 | 550 | 788 | 970 | 1,137 | 1,577 | 1,630 | 1,736 | 1,469 | 1,147 | 880 | 780 |
| 1933 | Critical | 676 | 646 | 634 | 659 | 704 | 1,272 | 1,347 | 1,370 | 1,055 | 649 | 550 | 550 |
| 1934 | Critical | 550 | 550 | 677 | 965 | 1,256 | 1,484 | 1,456 | 1,294 | 745 | 570 | 550 | 550 |
| 1935 | Below Normal | 550 | 634 | 672 | 1,020 | 1,341 | 1,718 | 2,701 | 2,990 | 2,676 | 2,299 | 1,928 | 1,833 |
| 1936 | Below Normal | 1,766 | 1,731 | 1,722 | 2,410 | 3,324 | 3,591 | 3,775 | 3,701 | 3,436 | 2,948 | 2,590 | 2,465 |
| 1937 | Below Normal | 2,311 | 2,205 | 2,180 | 2,159 | 2,290 | 3,054 | 3,711 | 3,903 | 3,657 | 3,171 | 2,809 | 2,698 |
| 1938 | Wet | 2,628 | 3,205 | 3,310 | 3,644 | 3,560 | 3,416 | 4,058 | 4,499 | 4,324 | 3,928 | 3,558 | 2,915 |
| 1939 | Dry | 2,927 | 2,895 | 3,067 | 3,206 | 3,335 | 3,720 | 3,534 | 3,272 | 2,889 | 2,325 | 1,940 | 1,934 |
| 1940 | Above Normal | 1,836 | 1,716 | 1,872 | 2,777 | 3,252 | 3,435 | 4,140 | 4,102 | 3,680 | 3,150 | 2,737 | 2,505 |
| 1941 | Wet | 2,336 | 2,305 | 3,293 | 3,317 | 3,423 | 3,940 | 4,456 | 4,552 | 4,349 | 3,924 | 3,546 | 3,087 |
| 1942 | Wet | 2,952 | 2,846 | 3,316 | 3,389 | 3,516 | 3,775 | 4,385 | 4,552 | 4,434 | 3,862 | 3,444 | 2,937 |
| 1943 | Wet | 2,810 | 2,776 | 3,023 | 3,541 | 3,848 | 4,118 | 4,507 | 4,552 | 4,263 | 3,612 | 3,210 | 2,680 |
| 1944 | Dry | 2,523 | 2,375 | 2,384 | 2,500 | 2,838 | 3,138 | 3,165 | 3,169 | 2,795 | 2,475 | 2,202 | 2,166 |
| 1945 | Below Normal | 2,052 | 2,222 | 2,508 | 2,723 | 3,464 | 3,713 | 3,876 | 4,019 | 3,795 | 3,159 | 2,809 | 2,737 |
| 1946 | Below Normal | 2,693 | 3,102 | 3,265 | 3,622 | 3,808 | 4,130 | 4,246 | 4,168 | 3,745 | 3,132 | 2,782 | 2,497 |
| 1947 | Dry | 2,249 | 2,292 | 2,420 | 2,465 | 2,716 | 3,238 | 3,368 | 3,038 | 2,810 | 2,225 | 1,861 | 1,865 |
| 1948 | Below Normal | 2,051 | 2,082 | 2,094 | 2,660 | 2,745 | 3,083 | 4,069 | 4,552 | 4,500 | 3,834 | 3,457 | 3,374 |
| 1949 | Dry | 3,200 | 3,185 | 3,204 | 3,193 | 3,379 | 4,071 | 4,345 | 4,365 | 3,848 | 3,178 | 2,849 | 2,798 |
| 1950 | Below Normal | 2,610 | 2,549 | 2,511 | 2,776 | 3,190 | 3,541 | 3,868 | 3,836 | 3,506 | 3,115 | 2,838 | 2,786 |
| 1951 | Above Normal | 3,025 | 3,252 | 3,322 | 3,624 | 3,794 | 4,214 | 4,231 | 4,338 | 3,881 | 3,200 | 2,819 | 2,589 |
| 1952 | Wet | 2,541 | 2,674 | 3,306 | 3,604 | 3,739 | 4,022 | 4,290 | 4,552 | 4,431 | 4,017 | 3,681 | 3,242 |
| 1953 | Wet | 3,121 | 3,004 | 3,345 | 3,366 | 3,675 | 4,116 | 4,457 | 4,552 | 4,500 | 3,830 | 3,508 | 3,023 |
| 1954 | Above Normal | 2,953 | 3,023 | 3,184 | 3,552 | 3,661 | 4,106 | 4,546 | 4,529 | 4,063 | 3,436 | 3,115 | 2,873 |
| 1955 | Dry | 2,808 | 2,966 | 3,241 | 3,351 | 3,527 | 3,671 | 3,825 | 3,918 | 3,514 | 2,928 | 2,716 | 2,749 |
| 1956 | Wet | 2,629 | 2,750 | 3,252 | 3,288 | 3,994 | 4,456 | 4,552 | 4,310 | 3,806 | 3,506 | 2,921 | 2,921 |
| 1957 | Above Normal | 2,976 | 2,836 | 2,851 | 2,937 | 3,632 | 4,129 | 4,426 | 4,552 | 4,201 | 3,574 | 3,298 | 3,200 |
| 1958 | Wet | 3,250 | 3,218 | 3,338 | 3,531 | 3,252 | 3,416 | 4,173 | 4,552 | 4,500 | 4,023 | 3,660 | 3,151 |
| 1959 | Below Normal | 3,146 | 3,034 | 3,052 | 3,648 | 3,777 | 4,190 | 4,192 | 4,053 | 3,416 | 2,844 | 2,546 | 2,714 |
| 1960 | Dry | 2,539 | 2,478 | 2,478 | 2,704 | 3,516 | 4,151 | 4,238 | 4,267 | 3,675 | 3,075 | 2,804 | 2,780 |
| 1961 | Dry | 2,610 | 2,718 | 3,229 | 3,435 | 3,914 | 4,280 | 4,322 | 4,285 | 3,786 | 3,154 | 2,736 | 2,721 |
| 1962 | Below Normal | 2,579 | 2,739 | 3,061 | 3,174 | 3,675 | 4,256 | 4,441 | 4,383 | 3,988 | 3,321 | 3,000 | 2,985 |
| 1963 | Wet | 3,250 | 3,252 | 3,349 | 3,475 | 3,944 | 4,226 | 4,137 | 4,531 | 4,214 | 3,607 | 3,254 | 2,737 |
| 1964 | Dry | 2,800 | 3,120 | 3,176 | 3,576 | 3,797 | 3,938 | 3,777 | 3,649 | 3,373 | 2,745 | 2,453 | 2,461 |
| 1965 | Wet | 2,329 | 2,425 | 3,252 | 3,368 | 3,701 | 3,834 | 4,494 | 4,548 | 4,220 | 3,593 | 3,373 | 3,079 |
| 1966 | Below Normal | 2,875 | 3,200 | 3,318 | 3,725 | 4,037 | 4,229 | 4,480 | 4,305 | 3,684 | 3,117 | 2,813 | 2,783 |
| 1967 | Wet | 2,585 | 2,978 | 3,335 | 3,551 | 3,920 | 4,033 | 4,479 | 4,552 | 4,500 | 3,988 | 3,651 | 3,179 |
| 1968 | Below Normal | 3,156 | 3,074 | 3,196 | 3,459 | 3,654 | 4,171 | 4,200 | 4,093 | 3,422 | 2,856 | 2,724 | 2,719 |
| 1969 | Wet | 2,632 | 2,699 | 3,101 | 3,358 | 3,480 | 4,030 | 4,434 | 4,552 | 4,285 | 3,855 | 3,464 | 3,200 |
| 1970 | Wet | 3,200 | 3,118 | 3,317 | 3,252 | 3,431 | 3,988 | 4,032 | 3,973 | 3,397 | 2,804 | 2,598 | 2,162 |
| 1971 | Wet | 2,083 | 2,492 | 3,319 | 3,515 | 3,812 | 3,873 | 4,318 | 4,552 | 4,424 | 3,735 | 3,413 | 3,069 |
| 1972 | Below Normal | 2,958 | 2,760 | 2,924 | 3,273 | 3,655 | 4,249 | 4,497 | 4,411 | 3,798 | 3,200 | 2,990 | 3,085 |
| 1973 | Above Normal | 3,134 | 3,252 | 3,346 | 3,552 | 3,636 | 4,162 | 4,409 | 4,431 | 3,819 | 3,200 | 2,954 | 2,883 |
| 1974 | Wet | 3,004 | 3,252 | 3,267 | 3,252 | 3,694 | 3,416 | 4,289 | 4,469 | 4,200 | 3,813 | 3,541 | 3,200 |
| 1975 | Wet | 3,200 | 3,055 | 3,239 | 3,388 | 3,936 | 3,756 | 4,375 | 4,552 | 4,309 | 3,848 | 3,557 | 3,105 |
| 1976 | Critical | 3,200 | 3,200 | 3,316 | 3,523 | 3,624 | 3,811 | 3,857 | 3,519 | 3,195 | 2,759 | 2,710 | 2,779 |
| 1977 | Critical | 2,592 | 2,531 | 2,478 | 2,396 | 2,421 | 2,372 | 1,968 | 1,837 | 1,272 | 726 | 550 | 562 |
| 1978 | Above Normal | 550 | 570 | 1,074 | 3,253 | 3,567 | 4,000 | 4,552 | 4,552 | 4,118 | 3,498 | 3,150 | 3,087 |
| 1979 | Below Normal | 2,830 | 2,804 | 2,779 | 2,871 | 3,254 | 3,737 | 3,985 | 4,152 | 3,605 | 3,167 | 2,993 | 3,002 |
| 1980 | Above Normal | 3,076 | 3,200 | 3,366 | 3,528 | 3,292 | 3,974 | 4,240 | 4,209 | 3,834 | 3,370 | 3,063 | 3,049 |
| 1981 | Dry | 2,962 | 2,837 | 2,977 | 3,278 | 3,647 | 4,194 | 4,395 | 4,191 | 3,513 | 2,937 | 2,582 | 2,580 |
| 1982 | Wet | 2,571 | 3,252 | 3,276 | 3,616 | 3,530 | 3,953 | 4,094 | 4,428 | 4,224 | 3,828 | 3,550 | 3,334 |
| 1983 | Wet | 3,250 | 3,252 | 3,328 | 3,371 | 3,252 | 3,417 | 4,074 | 4,552 | 4,500 | 4,150 | 3,700 | 3,400 |
| 1984 | Wet | 3,250 | 3,252 | 3,285 | 3,650 | 3,997 | 4,246 | 4,475 | 4,468 | 4,035 | 3,398 | 3,088 | 2,519 |
| 1985 | Dry | 2,508 | 2,958 | 3,210 | 3,315 | 3,482 | 3,665 | 3,770 | 3,531 | 3,123 | 2,530 | 2,245 | 2,295 |
| 1986 | Wet | 2,184 | 2,191 | 2,392 | 2,942 | 3,252 | 3,534 | 3,957 | 3,919 | 3,478 | 3,043 | 2,743 | 2,692 |
| 1987 | Dry | 2,707 | 2,544 | 2,558 | 2,709 | 3,040 | 3,762 | 3,668 | 3,263 | 2,813 | 2,352 | 2,054 | 2,032 |
| 1988 | Critical | 1,891 | 1,885 | 2,535 | 3,020 | 3,210 | 3,246 | 3,192 | 3,084 | 2,546 | 2,100 | 1,728 | 1,673 |
| 1989 | Dry | 1,543 | 1,770 | 1,862 | 2,003 | 2,110 | 3,430 | 3,853 | 3,494 | 3,051 | 2,538 | 2,249 | 2,294 |
| 1990 | Critical | 2,401 | 2,367 | 2,359 | 2,602 | 2,695 | 2,938 | 2,740 | 2,857 | 2,611 | 2,077 | 1,764 | 1,735 |
| 1991 | Critical | 1,676 | 1,609 | 1,588 | 1,369 | 1,381 | 1,788 | 1,933 | 1,889 | 1,604 | 1,324 | 1,051 | 972 |
| 1992 | Critical | 864 | 701 | 701 | 740 | 1,413 | 1,845 | 2,068 | 1,756 | 1,395 | 1,030 | 725 | 638 |
| 1993 | Above Normal | 550 | 550 | 809 | 1,582 | 2,392 | 3,785 | 4,333 | 4,552 | 4,500 | 3,779 | 3,375 | 3,200 |
| 1994 | Critical | 3,189 | 3,041 | 3,111 | 3,244 | 3,454 | 3,604 | 3,420 | 3,273 | 2,768 | 2,135 | 1,748 | 1,702 |
| 1995 | Wet | 1,995 | 1,582 | 1,660 | 3,252 | 3,743 | 3,417 | 4,217 | 4,552 | 4,500 | 4,116 | 3,700 | 3,267 |
| 1996 | Wet | 3,179 | 2,969 | 3,368 | 3,723 | 3,503 | 4,010 | 4,421 | 4,552 | 4,306 | 3,712 | 3,428 | 2,998 |
| 1997 | Wet | 2,789 | 2,826 | 3,252 | 3,252 | 3,745 | 3,939 | 3,990 | 3,766 | 3,423 | 2,816 | 2,652 | 2,170 |
| 1998 | Wet | 2,067 | 2,105 | 2,380 | 3,339 | 3,252 | 3,504 | 4,314 | 4,552 | 4,500 | 4,150 | 3,700 | 3,400 |
| 1999 | Wet | 3,250 | 3,226 | 3,349 | 3,640 | 3,570 | 3,980 | 4,505 | 4,552 | 4,275 | 3,678 | 3,360 | 3,056 |
| 2000 | Above Normal | 2,799 | 2,609 | 2,705 | 3,434 | 3,282 | 3,976 | 4,457 | 4,545 | 3,960 | 3,364 | 3,133 | 2,992 |
| 2001 | Dry | 2,910 | 2,822 | 2,893 | 3,049 | 3,536 | 4,015 | 4,103 | 3,822 | 3,200 | 2,867 | 2,626 | 2,676 |
| 2002 | Dry | 2,426 | 2,625 | 3,334 | 3,678 | 4,022 | 4,381 | 4,388 | 4,164 | 3,567 | 2,990 | 2,741 | 2,669 |
| 2003 | Above Normal | 2,477 | 2,428 | 3,291 | 3,515 | 3,780 | 4,249 | 4,552 | 4,552 | 4,201 | 3,478 | 3,230 | 3,000 |
| Average: | | 2,423 | 2,469 | 2,674 | 2,956 | 3,228 | 3,582 | 3,860 | 3,865 | 3,504 | 2,984 | 2,677 | 2,505 |
| Minimum: | | 550 | 550 | 634 | 659 | 704 | 1,272 | 1,347 | 1,294 | 745 | 570 | 550 | 550 |
| Maximum: | | 3,250 | 3,252 | 3,368 | 3,725 | 4,037 | 4,381 | 4,552 | 4,552 | 4,500 | 4,150 | 3,700 | 3,400 |
| Wet: | | 2,714 | 2,811 | 3,135 | 3,420 | 3,597 | 3,850 | 4,305 | 4,461 | 4,234 | 3,720 | 3,387 | 2,981 |
| Above Normal: | | 2,387 | 2,417 | 2,639 | 3,168 | 3,458 | 3,981 | 4,396 | 4,443 | 4,012 | 3,399 | 3,074 | 2,891 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Shasta Reservoir (TAF)
Difference Between BA - Proposed Action (Q5) and BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|------|------|------|--------|-----------|
| 1922 | Above Normal | -32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 | 47 |
| 1923 | Below Normal | 19 | 181 | 181 | 181 | 173 | 168 | 167 | 172 | 168 | 172 | 165 | 164 |
| 1924 | Critical | 116 | 111 | 113 | 159 | 144 | 98 | 121 | 92 | 29 | 14 | -12 | -4 |
| 1925 | Dry | -2 | -2 | -2 | -2 | -2 | -2 | -2 | -3 | -77 | 15 | 12 | 10 |
| 1926 | Dry | 3 | 2 | 2 | 2 | 2 | -9 | -9 | -102 | -147 | -40 | -26 | 13 |
| 1927 | Wet | -36 | -36 | -36 | -36 | 0 | 3 | 0 | 0 | -2 | 110 | 91 | 112 |
| 1928 | Above Normal | 69 | 245 | 236 | 226 | 226 | 0 | 0 | 1 | -72 | -41 | 89 | 161 |
| 1929 | Critical | 112 | 155 | 155 | 116 | 116 | 116 | 115 | 74 | 43 | 118 | -44 | -61 |
| 1930 | Dry | -54 | -72 | -72 | -66 | -65 | -60 | -46 | -47 | -31 | -13 | -11 | -13 |
| 1931 | Critical | -71 | -84 | -84 | -84 | -84 | -92 | -92 | -92 | -98 | 0 | -45 | -2 |
| 1932 | Dry | 0 | 0 | 0 | 0 | 8 | 0 | -6 | -5 | -4 | 7 | 8 | 8 |
| 1933 | Critical | 8 | 8 | 8 | 8 | 8 | -44 | -114 | -127 | -256 | -141 | 0 | 0 |
| 1934 | Critical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -42 | -1 | 0 | 0 |
| 1935 | Below Normal | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 6 | -15 | -23 | -23 |
| 1936 | Below Normal | -22 | -22 | -22 | -22 | -23 | -22 | -22 | -22 | -21 | 69 | 68 | 65 |
| 1937 | Below Normal | 64 | 64 | 64 | 64 | 64 | 63 | 63 | 62 | 58 | -10 | -21 | -20 |
| 1938 | Wet | -38 | -38 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | 0 | -5 | -5 |
| 1939 | Dry | -5 | 86 | 163 | 154 | 154 | 160 | 146 | 121 | 101 | 100 | 277 | 234 |
| 1940 | Above Normal | 155 | 214 | 160 | 160 | 0 | 0 | 0 | -35 | -75 | 13 | 5 | 50 |
| 1941 | Wet | 28 | 123 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -62 | -72 | -30 |
| 1942 | Wet | -27 | 178 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -43 | -70 | -93 |
| 1943 | Wet | 61 | 236 | 236 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 8 | 44 |
| 1944 | Dry | 60 | 129 | 129 | 78 | 87 | 86 | 85 | 81 | -39 | 62 | 11 | 10 |
| 1945 | Below Normal | -19 | -19 | -19 | -19 | -19 | -25 | -25 | -25 | -23 | -122 | -134 | -109 |
| 1946 | Below Normal | -228 | -150 | 0 | 0 | 0 | -5 | -6 | -8 | -39 | -52 | -44 | 24 |
| 1947 | Dry | 13 | 98 | 98 | 79 | 87 | 87 | 84 | 39 | 49 | -4 | -51 | -26 |
| 1948 | Below Normal | -32 | -32 | -32 | -32 | -32 | -32 | -32 | 0 | 0 | -67 | -38 | -26 |
| 1949 | Dry | -2 | 32 | 31 | 31 | 31 | 0 | -30 | -64 | -166 | -155 | -182 | -211 |
| 1950 | Below Normal | -229 | -156 | -144 | -144 | -144 | -139 | -138 | -159 | -185 | -171 | -168 | |
| 1951 | Above Normal | -175 | 0 | 0 | 0 | 0 | 0 | -40 | -39 | -108 | -63 | -60 | -26 |
| 1952 | Wet | 22 | 193 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -78 |
| 1953 | Wet | 28 | 252 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | -27 | -17 | -14 |
| 1954 | Above Normal | 107 | 353 | 397 | 0 | 0 | 0 | 0 | 28 | -100 | -99 | -113 | -76 |
| 1955 | Dry | -22 | 211 | 211 | 211 | 210 | 176 | 109 | 71 | 39 | 43 | 2 | 2 |
| 1956 | Wet | -47 | -24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -72 | -75 | -49 |
| 1957 | Above Normal | 34 | 288 | 351 | 351 | 350 | 0 | -6 | 0 | -34 | -34 | 81 | 158 |
| 1958 | Wet | 30 | 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -60 | -40 | -24 |
| 1959 | Below Normal | 48 | 312 | 342 | 92 | 0 | 0 | 3 | 6 | -129 | -129 | -70 | 102 |
| 1960 | Dry | 42 | 140 | 140 | 140 | 140 | 140 | 188 | 99 | 100 | 90 | 132 | 196 |
| 1961 | Dry | 107 | 107 | 107 | 107 | 0 | 0 | -85 | -85 | -180 | -148 | -110 | -18 |
| 1962 | Below Normal | 11 | 38 | 29 | 30 | 0 | 0 | 0 | 1 | -52 | 37 | 74 | 78 |
| 1963 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -5 | -5 | -5 | -2 |
| 1964 | Dry | 49 | 191 | 181 | 126 | 134 | 133 | 133 | 130 | 83 | -19 | -67 | -67 |
| 1965 | Wet | -123 | -122 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 | -1 | 95 |
| 1966 | Below Normal | 106 | 294 | 278 | 51 | 0 | 0 | 63 | 66 | -38 | -38 | 73 | 141 |
| 1967 | Wet | 63 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 38 | -50 |
| 1968 | Below Normal | -1 | 234 | 260 | 260 | 0 | 0 | 0 | 0 | -149 | -99 | -26 | 37 |
| 1969 | Wet | -49 | -49 | -49 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | -10 | 0 |
| 1970 | Wet | 0 | 149 | 0 | 0 | 0 | 0 | 0 | 2 | -145 | -146 | -87 | -47 |
| 1971 | Wet | -23 | -53 | 0 | 0 | 0 | 0 | -34 | 0 | -30 | -30 | -62 | 23 |
| 1972 | Below Normal | 107 | 260 | 260 | 271 | 270 | 23 | 42 | 10 | -38 | 0 | 14 | 15 |
| 1973 | Above Normal | -3 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | -98 | -52 | -49 | 31 |
| 1974 | Wet | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 3 | 3 | 0 |
| 1975 | Wet | 148 | 361 | 352 | 343 | 36 | 0 | 0 | 0 | 4 | -12 | -8 | -5 |
| 1976 | Critical | 0 | 145 | 158 | 130 | 130 | 130 | 127 | 131 | 110 | 79 | 27 | 27 |
| 1977 | Critical | 28 | 90 | 170 | 114 | 113 | 85 | 114 | 117 | 84 | 76 | 0 | 12 |
| 1978 | Above Normal | 0 | -12 | -12 | -12 | 0 | 0 | 0 | 0 | 0 | -43 | -52 | 1 |
| 1979 | Below Normal | -35 | 227 | 306 | 306 | 305 | 305 | 304 | 303 | 160 | 137 | 155 | 150 |
| 1980 | Above Normal | 84 | 77 | 77 | 0 | 0 | -5 | -5 | -6 | 30 | 28 | 26 | 4 |
| 1981 | Dry | -13 | 180 | 180 | 180 | 180 | 180 | 178 | 172 | 171 | 218 | 154 | 243 |
| 1982 | Wet | 243 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -25 | -26 | -66 |
| 1983 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -98 | -98 | -184 | -183 |
| 1985 | Dry | -85 | -85 | -75 | -58 | -58 | -58 | -36 | 5 | -11 | -69 | 103 | 130 |
| 1986 | Wet | 61 | 83 | 83 | 83 | 0 | 0 | 15 | 15 | 14 | 128 | 103 | 57 |
| 1987 | Dry | 53 | 114 | 114 | 114 | 122 | 122 | 99 | -2 | 45 | 47 | -53 | -24 |
| 1988 | Critical | -16 | -13 | -13 | -13 | 209 | 131 | 120 | 89 | 35 | 155 | 35 | 31 |
| 1989 | Dry | 35 | 35 | 35 | 13 | 13 | 13 | 19 | 7 | -69 | 57 | 150 | 140 |
| 1990 | Critical | 84 | 84 | 89 | 89 | 89 | 89 | 89 | 82 | 44 | 97 | 126 | 141 |
| 1991 | Critical | 161 | 126 | 127 | -86 | 12 | 12 | 12 | 12 | 13 | 35 | 163 | 190 |
| 1992 | Critical | 181 | 53 | 66 | 66 | 65 | 65 | 65 | 99 | 100 | 243 | 175 | 88 |
| 1993 | Above Normal | 0 | 0 | 16 | 16 | 17 | 28 | 18 | 0 | 0 | -9 | -203 | -10 |
| 1994 | Critical | 31 | 257 | 251 | 245 | 239 | 239 | 236 | 235 | 267 | 311 | 350 | 348 |
| 1995 | Wet | 336 | 335 | 335 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | 0 | -74 |
| 1996 | Wet | -30 | 245 | 118 | 16 | 0 | 0 | 0 | 0 | 0 | -6 | -6 | -25 |
| 1997 | Wet | 71 | 293 | 0 | 0 | 0 | 0 | 4 | -1 | 3 | 3 | 10 | 97 |
| 1998 | Wet | 123 | 175 | 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | Wet | 0 | -26 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 91 | -8 | 92 |
| 2000 | Above Normal | 105 | 172 | 207 | 312 | 0 | 0 | 1 | -4 | -82 | -73 | -45 | 55 |
| 2001 | Dry | 113 | 367 | 435 | 435 | 426 | 416 | 399 | 338 | 166 | 223 | 157 | 180 |
| 2002 | Dry | 218 | 242 | 0 | 0 | 0 | 0 | -34 | -81 | -198 | -182 | -132 | -126 |
| 2003 | Above Normal | -107 | -93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -73 | -36 | 14 |
| Average: | | 25 | 93 | 84 | 58 | 46 | 31 | 29 | 22 | -11 | 3 | 5 | 25 |
| Minimum: | | -229 | -156 | -144 | -144 | -144 | -139 | -139 | -138 | -256 | -185 | -203 | -211 |
| Maximum: | | 336 | 367 | 435 | 435 | 426 | 416 | 399 | 338 | 267 | 311 | 350 | 348 |
| Wet: | | 33 | 92 | 47 | 16 | 1 | 0 | -1 | 1 | -10 | -8 | -16 | -9 |
| Above Normal: | | 20 | 104 | 119 | 88 | 49 | 2 | -3 | -5 | -45 | -37 | -30 | 34 |
| Below Normal: | | -14 | 89 | 108 | 75 | 43 | 25 | 31 | 31 | -18 | -22 | 1 | 31 |
| Dry: | | 28 | 99 | 93 | 86 | 82 | 77 | 66 | 37 | -9 | 13 | 21 | 38 |
| Critical: | | 53 | 78 | 86 | 62 | 87 | 69 | 66 | 59 | 28 | 82 | 65 | 64 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (Q5 Central Tendency Climate Change) and Proposed Action (Q5 Central Tendency Climate Change)

Long-Term and Water Year-Type Average of Oroville Reservoir Under BA - No Action Alternative (Q5) and BA - Proposed Action (Q5)

| Analysis Period | Average Storage (TAF) | | | | | | | | | | | |
|---------------------------------|-----------------------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| | October | November | December | January | February | March | April | May | June | July | August | September |
| Long-Term | | | | | | | | | | | | |
| Full Simulation Period | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,399 | 1,390 | 1,565 | 1,830 | 2,146 | 2,387 | 2,654 | 2,749 | 2,602 | 2,118 | 1,817 | 1,512 |
| BA - Proposed Action (Q5) | 1,480 | 1,470 | 1,644 | 1,912 | 2,209 | 2,435 | 2,695 | 2,793 | 2,593 | 2,108 | 1,815 | 1,601 |
| Difference | 81 | 80 | 79 | 81 | 64 | 47 | 41 | 43 | -9 | -10 | -2 | 89 |
| Percent Difference | 6% | 6% | 5% | 4% | 3% | 2% | 2% | 2% | 0% | 0% | 0% | 6% |
| Water Year-Types | | | | | | | | | | | | |
| Wet | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,637 | 1,690 | 2,145 | 2,518 | 2,831 | 2,945 | 3,298 | 3,486 | 3,438 | 2,954 | 2,613 | 2,100 |
| BA - Proposed Action (Q5) | 1,705 | 1,758 | 2,208 | 2,598 | 2,859 | 2,945 | 3,298 | 3,488 | 3,381 | 2,874 | 2,546 | 2,165 |
| Difference | 68 | 69 | 64 | 80 | 28 | 0 | 0 | 1 | -57 | -79 | -66 | 65 |
| Percent Difference | 4% | 4% | 3% | 3% | 1% | 0% | 0% | 0% | -2% | -3% | -3% | 3% |
| Above Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,399 | 1,409 | 1,531 | 2,000 | 2,514 | 2,889 | 3,258 | 3,400 | 3,245 | 2,620 | 2,144 | 1,681 |
| BA - Proposed Action (Q5) | 1,526 | 1,547 | 1,661 | 2,125 | 2,610 | 2,920 | 3,268 | 3,412 | 3,142 | 2,511 | 2,060 | 1,724 |
| Difference | 127 | 138 | 129 | 126 | 96 | 31 | 10 | 12 | -103 | -109 | -84 | 43 |
| Percent Difference | 9% | 10% | 8% | 6% | 4% | 1% | 0% | 0% | -3% | -4% | -4% | 3% |
| Below Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,373 | 1,315 | 1,350 | 1,592 | 2,000 | 2,322 | 2,686 | 2,843 | 2,638 | 2,032 | 1,600 | 1,331 |
| BA - Proposed Action (Q5) | 1,463 | 1,402 | 1,449 | 1,681 | 2,098 | 2,439 | 2,799 | 2,953 | 2,653 | 2,042 | 1,676 | 1,569 |
| Difference | 90 | 87 | 99 | 89 | 98 | 116 | 113 | 111 | 15 | 10 | 77 | 237 |
| Percent Difference | 7% | 7% | 7% | 6% | 5% | 5% | 4% | 4% | 1% | 0% | 5% | 18% |
| Dry | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,210 | 1,177 | 1,224 | 1,343 | 1,598 | 1,938 | 2,109 | 2,088 | 1,848 | 1,373 | 1,216 | 1,116 |
| BA - Proposed Action (Q5) | 1,293 | 1,249 | 1,286 | 1,404 | 1,664 | 2,001 | 2,170 | 2,157 | 1,911 | 1,466 | 1,264 | 1,189 |
| Difference | 83 | 72 | 62 | 61 | 66 | 63 | 61 | 69 | 63 | 93 | 48 | 74 |
| Percent Difference | 7% | 6% | 5% | 5% | 4% | 3% | 3% | 3% | 3% | 7% | 4% | 7% |
| Critical | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,196 | 1,130 | 1,106 | 1,180 | 1,283 | 1,427 | 1,432 | 1,385 | 1,236 | 1,024 | 923 | 875 |
| BA - Proposed Action (Q5) | 1,246 | 1,180 | 1,172 | 1,242 | 1,349 | 1,489 | 1,481 | 1,434 | 1,292 | 1,085 | 974 | 910 |
| Difference | 50 | 50 | 66 | 62 | 66 | 61 | 50 | 49 | 56 | 61 | 51 | 35 |
| Percent Difference | 4% | 4% | 6% | 5% | 5% | 4% | 3% | 4% | 5% | 6% | 6% | 4% |

Oroville Reservoir

BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2,111 | 2,147 | 2,748 | 2,788 | 2,923 | 3,051 | 3,353 | 3,538 | 3,538 | 3,042 | 2,787 | 2,251 |
| 20% | 1,792 | 1,814 | 2,043 | 2,682 | 2,788 | 2,964 | 3,300 | 3,538 | 3,538 | 2,965 | 2,525 | 1,966 |
| 30% | 1,622 | 1,664 | 1,806 | 2,292 | 2,788 | 2,918 | 3,272 | 3,487 | 3,360 | 2,747 | 2,334 | 1,876 |
| 40% | 1,376 | 1,393 | 1,591 | 1,943 | 2,564 | 2,788 | 3,208 | 3,318 | 3,110 | 2,474 | 1,986 | 1,526 |
| 50% | 1,257 | 1,249 | 1,391 | 1,703 | 2,176 | 2,646 | 2,925 | 3,018 | 2,831 | 2,201 | 1,718 | 1,331 |
| 60% | 1,165 | 1,136 | 1,252 | 1,594 | 1,885 | 2,255 | 2,599 | 2,690 | 2,446 | 1,819 | 1,507 | 1,254 |
| 70% | 1,096 | 1,019 | 1,089 | 1,278 | 1,675 | 1,999 | 2,195 | 2,281 | 2,012 | 1,421 | 1,246 | 1,195 |
| 80% | 993 | 954 | 971 | 1,141 | 1,416 | 1,703 | 1,859 | 1,834 | 1,667 | 1,241 | 1,122 | 1,059 |
| 90% | 903 | 886 | 884 | 1,006 | 1,240 | 1,432 | 1,643 | 1,498 | 1,258 | 1,089 | 963 | 880 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,399 | 1,390 | 1,565 | 1,830 | 2,146 | 2,387 | 2,654 | 2,749 | 2,602 | 2,118 | 1,817 | 1,512 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 1,637 | 1,690 | 2,145 | 2,518 | 2,831 | 2,945 | 3,298 | 3,486 | 3,438 | 2,954 | 2,613 | 2,100 |
| Above Normal | 1,399 | 1,409 | 1,531 | 2,000 | 2,514 | 2,889 | 3,258 | 3,400 | 3,245 | 2,620 | 2,144 | 1,681 |
| Below Normal | 1,373 | 1,315 | 1,350 | 1,592 | 2,000 | 2,322 | 2,686 | 2,843 | 2,638 | 2,032 | 1,600 | 1,331 |
| Dry | 1,210 | 1,177 | 1,224 | 1,343 | 1,598 | 1,938 | 2,109 | 2,088 | 1,848 | 1,373 | 1,216 | 1,116 |
| Critical | 1,196 | 1,130 | 1,106 | 1,180 | 1,283 | 1,427 | 1,432 | 1,385 | 1,236 | 1,024 | 923 | 875 |

BA - Proposed Action (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2,153 | 2,202 | 2,760 | 2,803 | 2,924 | 3,056 | 3,353 | 3,538 | 3,538 | 3,008 | 2,651 | 2,261 |
| 20% | 1,930 | 1,962 | 2,186 | 2,788 | 2,788 | 2,974 | 3,300 | 3,538 | 3,535 | 2,900 | 2,450 | 2,101 |
| 30% | 1,775 | 1,764 | 1,990 | 2,358 | 2,788 | 2,936 | 3,275 | 3,487 | 3,223 | 2,653 | 2,220 | 1,870 |
| 40% | 1,526 | 1,498 | 1,729 | 2,209 | 2,664 | 2,813 | 3,216 | 3,381 | 3,002 | 2,386 | 2,049 | 1,736 |
| 50% | 1,378 | 1,355 | 1,524 | 1,875 | 2,449 | 2,777 | 3,044 | 3,078 | 2,798 | 2,166 | 1,802 | 1,545 |
| 60% | 1,248 | 1,237 | 1,256 | 1,602 | 1,973 | 2,324 | 2,639 | 2,778 | 2,419 | 1,859 | 1,513 | 1,379 |
| 70% | 1,158 | 1,113 | 1,196 | 1,337 | 1,710 | 2,127 | 2,282 | 2,296 | 2,077 | 1,607 | 1,263 | 1,243 |
| 80% | 1,053 | 995 | 1,072 | 1,217 | 1,451 | 1,719 | 1,818 | 1,895 | 1,733 | 1,287 | 1,212 | 1,131 |
| 90% | 914 | 919 | 918 | 1,054 | 1,252 | 1,490 | 1,635 | 1,552 | 1,321 | 1,167 | 1,028 | 962 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,480 | 1,470 | 1,644 | 1,912 | 2,209 | 2,435 | 2,695 | 2,793 | 2,593 | 2,108 | 1,815 | 1,601 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 1,705 | 1,758 | 2,208 | 2,598 | 2,859 | 2,945 | 3,298 | 3,488 | 3,381 | 2,874 | 2,546 | 2,165 |
| Above Normal | 1,526 | 1,547 | 1,661 | 2,125 | 2,610 | 2,920 | 3,268 | 3,412 | 3,142 | 2,511 | 2,060 | 1,724 |
| Below Normal | 1,463 | 1,402 | 1,449 | 1,681 | 2,098 | 2,439 | 2,799 | 2,953 | 2,653 | 2,042 | 1,676 | 1,569 |
| Dry | 1,293 | 1,249 | 1,286 | 1,404 | 1,664 | 2,001 | 2,170 | 2,157 | 1,911 | 1,466 | 1,264 | 1,189 |
| Critical | 1,246 | 1,180 | 1,172 | 1,242 | 1,349 | 1,489 | 1,481 | 1,434 | 1,292 | 1,085 | 974 | 910 |

BA - Proposed Action (Q5) Minus BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 41 | 54 | 13 | 15 | 1 | 5 | 0 | 0 | 0 | -34 | -137 | 10 |
| 20% | 138 | 147 | 144 | 106 | 0 | 10 | 0 | 0 | -3 | -65 | -75 | 135 |
| 30% | 154 | 100 | 184 | 66 | 0 | 18 | 2 | 0 | -137 | -94 | -114 | -6 |
| 40% | 150 | 105 | 137 | 266 | 100 | 25 | 8 | 63 | -108 | -87 | 63 | 210 |
| 50% | 121 | 107 | 133 | 172 | 272 | 132 | 120 | 60 | -32 | -35 | 84 | 213 |
| 60% | 83 | 100 | 4 | 8 | 88 | 68 | 40 | 88 | -26 | 39 | 6 | 125 |
| 70% | 62 | 94 | 107 | 59 | 35 | 128 | 87 | 15 | 66 | 186 | 17 | 48 |
| 80% | 59 | 41 | 101 | 76 | 35 | 16 | -42 | 61 | 66 | 46 | 90 | 72 |
| 90% | 11 | 33 | 34 | 47 | 12 | 59 | -8 | 54 | 63 | 78 | 64 | 81 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 81 | 80 | 79 | 81 | 64 | 47 | 41 | 43 | -9 | -10 | -2 | 89 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 68 | 69 | 64 | 80 | 28 | 0 | 0 | 1 | -57 | -79 | -66 | 65 |
| Above Normal | 127 | 138 | 129 | 126 | 96 | 31 | 10 | 12 | -103 | -109 | -84 | 43 |
| Below Normal | 90 | 87 | 99 | 89 | 98 | 116 | 113 | 111 | 15 | 10 | 77 | 237 |
| Dry | 83 | 72 | 62 | 61 | 66 | 63 | 61 | 69 | 63 | 93 | 48 | 74 |
| Critical | 50 | 50 | 66 | 62 | 66 | 61 | 50 | 49 | 56 | 61 | 51 | 35 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Oroville Reservoir (TAF)
 BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-------|---------|-------|--------|-----------|
| 1922 | Above Normal | 2,277 | 2,162 | 2,165 | 2,291 | 2,769 | 2,922 | 3,446 | 3,538 | 3,538 | 2,978 | 2,530 | 1,954 |
| 1923 | Below Normal | 1,766 | 1,671 | 1,871 | 2,141 | 2,275 | 2,482 | 2,818 | 2,917 | 2,744 | 2,129 | 1,612 | 1,269 |
| 1924 | Critical | 1,141 | 957 | 818 | 845 | 1,017 | 1,012 | 967 | 872 | 754 | 737 | 726 | 698 |
| 1925 | Dry | 707 | 754 | 824 | 973 | 1,635 | 1,914 | 2,196 | 2,263 | 2,053 | 1,592 | 1,420 | 1,264 |
| 1926 | Dry | 1,186 | 1,095 | 1,024 | 1,137 | 1,675 | 1,948 | 2,550 | 2,342 | 2,003 | 1,525 | 1,241 | 1,144 |
| 1927 | Wet | 1,073 | 1,292 | 1,252 | 1,508 | 2,788 | 2,999 | 3,396 | 3,538 | 3,518 | 2,869 | 2,368 | 1,885 |
| 1928 | Above Normal | 1,605 | 1,638 | 1,558 | 1,710 | 1,824 | 2,797 | 3,218 | 3,228 | 2,961 | 2,317 | 1,794 | 1,298 |
| 1929 | Critical | 1,163 | 1,009 | 938 | 967 | 1,116 | 1,251 | 1,239 | 1,209 | 1,088 | 900 | 768 | 738 |
| 1930 | Dry | 705 | 690 | 1,383 | 1,688 | 1,877 | 2,345 | 2,644 | 2,732 | 2,433 | 1,827 | 1,506 | 1,244 |
| 1931 | Critical | 1,158 | 1,066 | 1,004 | 1,115 | 1,243 | 1,389 | 1,294 | 1,244 | 1,127 | 932 | 790 | 760 |
| 1932 | Dry | 715 | 726 | 759 | 1,008 | 1,239 | 1,518 | 1,744 | 2,006 | 1,945 | 1,393 | 1,279 | 1,241 |
| 1933 | Critical | 1,112 | 967 | 917 | 1,001 | 1,110 | 1,104 | 1,156 | 1,156 | 1,050 | 867 | 751 | 718 |
| 1934 | Critical | 674 | 669 | 749 | 983 | 1,091 | 1,313 | 1,296 | 1,230 | 1,038 | 846 | 751 | 717 |
| 1935 | Below Normal | 669 | 718 | 782 | 1,046 | 1,252 | 1,543 | 2,599 | 3,007 | 2,703 | 2,120 | 1,670 | 1,290 |
| 1936 | Below Normal | 1,173 | 1,019 | 934 | 1,173 | 2,301 | 2,705 | 3,054 | 3,180 | 3,140 | 2,508 | 1,993 | 1,619 |
| 1937 | Below Normal | 1,286 | 1,142 | 1,029 | 1,038 | 1,280 | 1,710 | 2,109 | 2,382 | 2,013 | 1,568 | 1,249 | 1,179 |
| 1938 | Wet | 1,063 | 1,183 | 2,057 | 2,335 | 2,788 | 2,788 | 3,277 | 3,538 | 3,538 | 3,125 | 2,763 | 2,224 |
| 1939 | Dry | 2,054 | 1,956 | 1,822 | 1,891 | 1,991 | 2,159 | 2,105 | 1,954 | 1,737 | 1,383 | 1,242 | 1,162 |
| 1940 | Above Normal | 1,050 | 936 | 901 | 1,404 | 2,611 | 2,788 | 3,238 | 3,357 | 3,117 | 2,479 | 1,959 | 1,498 |
| 1941 | Wet | 1,267 | 1,173 | 1,767 | 2,427 | 2,788 | 2,918 | 3,334 | 3,538 | 3,538 | 3,007 | 2,574 | 1,997 |
| 1942 | Wet | 1,812 | 1,730 | 2,641 | 2,788 | 2,806 | 3,058 | 3,281 | 3,538 | 3,538 | 3,015 | 2,547 | 1,975 |
| 1943 | Wet | 1,750 | 1,761 | 2,019 | 2,788 | 2,890 | 2,937 | 3,350 | 3,454 | 3,357 | 2,715 | 2,212 | 1,628 |
| 1944 | Dry | 1,401 | 1,271 | 1,227 | 1,280 | 1,501 | 1,800 | 1,922 | 2,079 | 1,811 | 1,240 | 1,112 | 1,003 |
| 1945 | Below Normal | 905 | 944 | 1,092 | 1,250 | 1,912 | 2,229 | 2,475 | 2,633 | 2,443 | 1,835 | 1,346 | 1,234 |
| 1946 | Below Normal | 1,132 | 1,135 | 1,843 | 2,280 | 2,521 | 2,843 | 3,147 | 3,294 | 3,078 | 2,450 | 1,925 | 1,439 |
| 1947 | Dry | 1,248 | 1,197 | 1,225 | 1,253 | 1,489 | 1,822 | 1,961 | 1,777 | 1,563 | 1,240 | 1,116 | 1,005 |
| 1948 | Below Normal | 1,011 | 983 | 961 | 1,248 | 1,300 | 1,490 | 2,185 | 2,666 | 2,772 | 2,210 | 1,680 | 1,339 |
| 1949 | Dry | 1,207 | 1,071 | 1,017 | 1,037 | 1,129 | 1,406 | 1,679 | 1,801 | 1,559 | 1,241 | 1,119 | 1,023 |
| 1950 | Below Normal | 934 | 885 | 867 | 1,144 | 1,669 | 2,146 | 2,601 | 2,842 | 2,699 | 2,124 | 1,756 | 1,389 |
| 1951 | Above Normal | 1,387 | 1,923 | 2,829 | 2,846 | 2,925 | 3,105 | 3,319 | 3,481 | 3,275 | 2,636 | 2,133 | 1,675 |
| 1952 | Wet | 1,501 | 1,411 | 2,033 | 2,605 | 2,832 | 2,988 | 3,452 | 3,538 | 3,538 | 3,273 | 3,023 | 2,490 |
| 1953 | Wet | 2,256 | 2,161 | 2,409 | 2,809 | 3,095 | 3,059 | 3,284 | 3,538 | 3,538 | 2,956 | 2,463 | 1,891 |
| 1954 | Above Normal | 1,686 | 1,664 | 1,511 | 1,714 | 2,125 | 2,689 | 3,292 | 3,324 | 3,082 | 2,445 | 1,959 | 1,503 |
| 1955 | Dry | 1,271 | 1,237 | 1,254 | 1,383 | 1,501 | 1,649 | 1,714 | 1,827 | 1,665 | 1,323 | 1,216 | 1,138 |
| 1956 | Wet | 996 | 892 | 2,694 | 2,788 | 2,788 | 3,018 | 3,427 | 3,538 | 3,538 | 3,013 | 2,558 | 2,003 |
| 1957 | Above Normal | 1,846 | 1,767 | 1,518 | 1,602 | 2,077 | 2,554 | 2,715 | 2,968 | 2,809 | 2,170 | 1,679 | 1,250 |
| 1958 | Wet | 1,237 | 1,146 | 1,282 | 1,600 | 2,788 | 2,788 | 3,235 | 3,538 | 3,538 | 3,039 | 2,822 | 2,262 |
| 1959 | Below Normal | 2,029 | 1,921 | 1,703 | 2,022 | 2,395 | 2,653 | 2,719 | 2,690 | 2,490 | 1,817 | 1,304 | 1,239 |
| 1960 | Dry | 1,097 | 950 | 877 | 1,007 | 1,682 | 2,250 | 2,363 | 2,393 | 2,126 | 1,503 | 1,281 | 1,215 |
| 1961 | Dry | 1,080 | 1,027 | 1,058 | 1,159 | 1,431 | 1,700 | 1,807 | 1,828 | 1,668 | 1,240 | 1,095 | 1,004 |
| 1962 | Below Normal | 924 | 890 | 959 | 1,083 | 1,949 | 2,390 | 2,866 | 3,030 | 2,853 | 2,192 | 1,675 | 1,322 |
| 1963 | Wet | 1,994 | 2,004 | 2,299 | 2,612 | 3,057 | 2,927 | 3,180 | 3,538 | 3,356 | 2,745 | 2,269 | 1,705 |
| 1964 | Dry | 1,489 | 1,583 | 1,557 | 1,706 | 1,860 | 2,005 | 2,003 | 1,967 | 1,839 | 1,240 | 1,153 | 1,073 |
| 1965 | Wet | 970 | 937 | 2,762 | 2,788 | 2,997 | 3,096 | 3,354 | 3,538 | 3,413 | 2,786 | 2,436 | 1,877 |
| 1966 | Below Normal | 1,691 | 1,738 | 1,804 | 2,003 | 2,126 | 2,372 | 2,630 | 2,549 | 2,267 | 1,636 | 1,241 | 1,129 |
| 1967 | Wet | 972 | 1,036 | 1,399 | 2,182 | 2,700 | 2,847 | 3,236 | 3,538 | 3,538 | 3,311 | 2,993 | 2,440 |
| 1968 | Below Normal | 2,225 | 2,115 | 2,021 | 2,207 | 2,913 | 3,036 | 3,138 | 3,155 | 2,880 | 2,221 | 1,782 | 1,419 |
| 1969 | Wet | 1,315 | 1,275 | 1,467 | 2,788 | 2,788 | 3,027 | 3,470 | 3,538 | 3,538 | 3,043 | 2,804 | 2,283 |
| 1970 | Wet | 2,136 | 2,079 | 2,714 | 2,787 | 2,787 | 3,163 | 3,210 | 3,221 | 2,983 | 2,300 | 1,833 | 1,263 |
| 1971 | Wet | 1,230 | 1,319 | 1,745 | 2,156 | 2,494 | 3,162 | 3,433 | 3,538 | 3,538 | 2,988 | 2,521 | 1,960 |
| 1972 | Below Normal | 1,777 | 1,693 | 1,754 | 1,936 | 2,226 | 2,638 | 2,772 | 2,763 | 2,485 | 1,832 | 1,511 | 1,448 |
| 1973 | Above Normal | 1,329 | 1,413 | 1,633 | 2,301 | 2,788 | 2,951 | 3,275 | 3,538 | 3,233 | 2,568 | 2,153 | 1,704 |
| 1974 | Wet | 1,525 | 2,413 | 2,800 | 2,870 | 3,009 | 2,788 | 3,292 | 3,538 | 3,524 | 3,001 | 2,641 | 2,098 |
| 1975 | Wet | 1,884 | 1,825 | 1,817 | 1,866 | 2,331 | 2,833 | 3,320 | 3,538 | 3,538 | 2,991 | 2,709 | 2,154 |
| 1976 | Critical | 1,987 | 1,973 | 1,834 | 1,902 | 2,023 | 2,126 | 2,106 | 1,975 | 1,804 | 1,338 | 1,246 | 1,251 |
| 1977 | Critical | 1,166 | 1,044 | 920 | 870 | 850 | 827 | 756 | 722 | 666 | 603 | 591 | 587 |
| 1978 | Above Normal | 566 | 588 | 821 | 1,945 | 2,575 | 2,944 | 3,218 | 3,460 | 3,409 | 2,794 | 2,345 | 1,959 |
| 1979 | Below Normal | 1,701 | 1,556 | 1,274 | 1,482 | 1,878 | 2,278 | 2,489 | 2,692 | 2,364 | 1,804 | 1,649 | 1,324 |
| 1980 | Above Normal | 1,312 | 1,260 | 1,319 | 2,507 | 2,788 | 3,028 | 3,272 | 3,392 | 3,316 | 2,764 | 2,332 | 1,876 |
| 1981 | Dry | 1,615 | 1,453 | 1,433 | 1,592 | 1,853 | 2,124 | 2,269 | 2,196 | 1,870 | 1,250 | 1,167 | 1,109 |
| 1982 | Wet | 1,164 | 2,238 | 2,788 | 2,943 | 2,987 | 2,936 | 3,303 | 3,538 | 3,538 | 3,052 | 2,798 | 2,361 |
| 1983 | Wet | 2,449 | 2,637 | 2,930 | 2,854 | 2,788 | 2,788 | 3,208 | 3,538 | 3,538 | 3,522 | 3,497 | 3,351 |
| 1984 | Wet | 3,122 | 2,950 | 2,788 | 3,091 | 3,078 | 3,120 | 3,336 | 3,443 | 3,230 | 2,583 | 2,194 | 1,618 |
| 1985 | Dry | 1,440 | 1,574 | 1,680 | 1,752 | 1,984 | 2,242 | 2,459 | 2,340 | 2,022 | 1,373 | 1,242 | 1,197 |
| 1986 | Wet | 1,099 | 998 | 1,031 | 1,343 | 2,917 | 2,788 | 3,091 | 3,124 | 3,037 | 2,378 | 1,951 | 1,507 |
| 1987 | Dry | 1,328 | 1,251 | 1,196 | 1,187 | 1,320 | 1,641 | 1,662 | 1,466 | 1,242 | 1,038 | 917 | 878 |
| 1988 | Critical | 914 | 1,015 | 1,338 | 1,623 | 1,641 | 1,708 | 1,719 | 1,660 | 1,458 | 1,241 | 1,116 | 1,038 |
| 1989 | Dry | 1,023 | 1,161 | 1,222 | 1,253 | 1,392 | 2,622 | 2,984 | 2,844 | 2,455 | 1,817 | 1,535 | 1,273 |
| 1990 | Critical | 1,230 | 1,246 | 1,252 | 1,339 | 1,436 | 1,705 | 1,670 | 1,664 | 1,550 | 1,240 | 1,124 | 1,031 |
| 1991 | Critical | 989 | 960 | 930 | 900 | 867 | 1,251 | 1,423 | 1,544 | 1,382 | 1,230 | 1,117 | 1,086 |
| 1992 | Critical | 1,040 | 990 | 977 | 1,006 | 1,257 | 1,504 | 1,660 | 1,509 | 1,297 | 1,128 | 974 | 886 |
| 1993 | Above Normal | 902 | 866 | 1,066 | 1,699 | 2,371 | 2,964 | 3,456 | 3,538 | 3,538 | 2,938 | 2,459 | 1,974 |
| 1994 | Critical | 1,779 | 1,664 | 1,600 | 1,613 | 1,744 | 1,935 | 1,894 | 1,837 | 1,617 | 1,241 | 1,116 | 988 |
| 1995 | Wet | 924 | 935 | 1,097 | 2,842 | 2,788 | 2,788 | 3,208 | 3,538 | 3,538 | 3,480 | 3,305 | 2,777 |
| 1996 | Wet | 2,538 | 2,423 | 2,619 | 2,788 | 2,788 | 2,995 | 3,352 | 3,538 | 3,504 | 2,907 | 2,549 | 2,016 |
| 1997 | Wet | 1,828 | 1,807 | 2,788 | 2,788 | 2,952 | 3,123 | 3,258 | 3,223 | 3,016 | 2,438 | 2,112 | 1,531 |
| 1998 | Wet | 1,325 | 1,305 | 1,452 | 2,339 | 2,788 | 2,817 | 3,298 | 3,538 | 3,538 | 3,519 | 3,495 | 3,351 |
| 1999 | Wet | 3,136 | 3,008 | 3,107 | 2,788 | 2,788 | 2,817 | 3,165 | 3,416 | 3,387 | 2,746 | 2,496 | 1,944 |
| 2000 | Above Normal | 1,712 | 1,622 | 1,367 | 1,623 | 2,624 | 2,964 | 3,298 | 3,436 | 3,145 | 2,491 | 2,003 | 1,568 |
| 2001 | Dry | 1,398 | 1,281 | 1,252 | 1,255 | 1,375 | 1,588 | 1,636 | 1,493 | 1,241 | 1,072 | 959 | 865 |
| 2002 | Dry | 819 | 902 | 1,226 | 1,607 | 1,834 | 2,156 | 2,269 | 2,283 | 2,030 | 1,425 | 1,282 | 1,244 |
| 2003 | Above Normal | 1,112 | 1,065 | 1,689 | 2,354 | 2,693 | 2,964 | 3,351 | 3,538 | 3,518 | 2,857 | 2,381 | 1,913 |
| Average: | | 1,399 | 1,390 | 1,565 | 1,830 | 2,146 | 2,387 | 2,654 | 2,749 | 2,602 | 2,118 | 1,817 | 1,512 |
| Minimum: | | 566 | 588 | 749 | 845 | 850 | 827 | 756 | 722 | 666 | 603 | 591 | 587 |
| Maximum: | | 3,136 | 3,008 | 3,107 | 3,091 | 3,095 | 3,163 | 3,470 | 3,538 | 3,538 | 3,522 | 3,497 | 3,351 |
| Wet: | | 1,637 | 1,690 | 2,145 | 2,518 | 2,831 | 2,945 | 3,298 | 3,486 | 3,438 | 2,954 | 2,613 | 2,100 |
| Above Normal: | | 1,399 | 1,409 | 1,531 | 2,000 | 2,514 | 2,889 | 3,258 | 3,400 | 3,245 | 2,620 | 2,144 | 1,681 |
| Below Normal: | | 1,375 | 1,315 | 1,350 | 1,592 | 2,000 | 2,322 | 2,686 | 2,843 | 2,638</ | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Oroville Reservoir (TAF)
 BA - Proposed Action (Q5)

| Water Year Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|----------------------|---------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|
| 1922 Above Normal | 2,277 | 2,162 | 2,165 | 2,291 | 2,769 | 2,922 | 3,446 | 3,538 | 3,538 | 2,920 | 2,431 | 2,070 |
| 1923 Below Normal | 1,882 | 1,787 | 1,988 | 2,257 | 2,396 | 2,602 | 2,938 | 3,036 | 2,968 | 2,268 | 1,675 | 1,611 |
| 1924 Critical | 1,397 | 1,251 | 1,112 | 1,140 | 1,272 | 1,251 | 1,222 | 1,126 | 969 | 804 | 751 | 723 |
| 1925 Dry | 732 | 779 | 849 | 999 | 1,661 | 1,939 | 2,221 | 2,290 | 2,169 | 1,851 | 1,589 | 1,523 |
| 1926 Dry | 1,363 | 1,271 | 1,241 | 1,314 | 1,893 | 2,107 | 2,709 | 2,589 | 2,229 | 1,679 | 1,366 | 1,244 |
| 1927 Wet | 1,162 | 1,357 | 1,270 | 1,547 | 2,788 | 2,999 | 3,396 | 3,538 | 3,494 | 2,865 | 2,382 | 2,115 |
| 1928 Above Normal | 1,833 | 1,839 | 1,760 | 1,912 | 2,027 | 2,797 | 3,218 | 3,226 | 2,756 | 2,114 | 1,808 | 1,486 |
| 1929 Critical | 1,248 | 1,113 | 1,042 | 1,071 | 1,220 | 1,324 | 1,303 | 1,273 | 1,182 | 993 | 850 | 819 |
| 1930 Dry | 786 | 770 | 1,464 | 1,769 | 1,958 | 2,427 | 2,725 | 2,781 | 2,403 | 1,891 | 1,516 | 1,441 |
| 1931 Critical | 1,248 | 1,154 | 1,092 | 1,202 | 1,291 | 1,478 | 1,360 | 1,288 | 1,194 | 1,000 | 868 | 772 |
| 1932 Dry | 727 | 736 | 759 | 1,008 | 1,238 | 1,518 | 1,744 | 2,005 | 1,926 | 1,752 | 1,489 | 1,361 |
| 1933 Critical | 1,248 | 1,107 | 1,057 | 1,142 | 1,251 | 1,245 | 1,257 | 1,257 | 1,190 | 986 | 863 | 757 |
| 1934 Critical | 713 | 702 | 759 | 1,002 | 1,113 | 1,335 | 1,293 | 1,227 | 1,036 | 844 | 751 | 717 |
| 1935 Below Normal | 669 | 718 | 782 | 1,046 | 1,252 | 1,543 | 2,599 | 3,006 | 2,608 | 2,084 | 1,797 | 1,657 |
| 1936 Below Normal | 1,356 | 1,241 | 1,156 | 1,636 | 2,523 | 2,926 | 3,275 | 3,400 | 3,148 | 2,505 | 2,217 | 2,109 |
| 1937 Below Normal | 1,775 | 1,544 | 1,253 | 1,257 | 1,540 | 1,969 | 2,368 | 2,640 | 2,332 | 1,804 | 1,512 | 1,363 |
| 1938 Wet | 1,248 | 1,303 | 2,199 | 2,472 | 2,788 | 2,788 | 3,277 | 3,538 | 3,538 | 3,075 | 2,618 | 2,079 |
| 1939 Dry | 1,909 | 1,810 | 1,696 | 1,764 | 1,864 | 2,032 | 1,947 | 1,788 | 1,575 | 1,272 | 1,171 | 1,092 |
| 1940 Above Normal | 1,002 | 918 | 903 | 1,408 | 2,615 | 2,788 | 3,238 | 3,357 | 3,060 | 2,422 | 1,990 | 1,749 |
| 1941 Wet | 1,516 | 1,373 | 2,007 | 2,667 | 2,788 | 2,918 | 3,334 | 3,538 | 3,538 | 2,913 | 2,316 | 1,739 |
| 1942 Wet | 1,553 | 1,470 | 2,381 | 2,788 | 2,806 | 3,058 | 3,281 | 3,538 | 3,538 | 2,917 | 2,588 | 2,243 |
| 1943 Wet | 2,050 | 2,059 | 2,317 | 2,788 | 2,890 | 2,937 | 3,350 | 3,454 | 3,421 | 2,778 | 2,166 | 1,739 |
| 1944 Dry | 1,513 | 1,383 | 1,252 | 1,305 | 1,526 | 1,825 | 1,948 | 2,087 | 1,925 | 1,417 | 1,242 | 1,133 |
| 1945 Below Normal | 1,014 | 1,028 | 1,157 | 1,267 | 1,969 | 2,286 | 2,532 | 2,690 | 2,379 | 1,706 | 1,387 | 1,289 |
| 1946 Below Normal | 1,226 | 1,229 | 1,937 | 2,374 | 2,615 | 2,937 | 3,240 | 3,387 | 2,929 | 2,389 | 2,128 | 1,864 |
| 1947 Dry | 1,556 | 1,475 | 1,504 | 1,537 | 1,809 | 2,142 | 2,280 | 2,135 | 1,986 | 1,286 | 1,195 | 1,083 |
| 1948 Below Normal | 1,089 | 1,060 | 1,039 | 1,286 | 1,378 | 1,568 | 2,263 | 2,744 | 2,850 | 2,213 | 1,615 | 1,520 |
| 1949 Dry | 1,280 | 1,184 | 1,130 | 1,151 | 1,243 | 1,520 | 1,792 | 1,914 | 1,754 | 1,536 | 1,264 | 1,204 |
| 1950 Below Normal | 1,069 | 960 | 902 | 1,165 | 1,691 | 2,167 | 2,622 | 2,863 | 2,463 | 1,890 | 1,619 | 1,548 |
| 1951 Above Normal | 1,548 | 2,083 | 2,866 | 2,846 | 2,925 | 3,105 | 3,319 | 3,481 | 3,040 | 2,474 | 2,155 | 1,954 |
| 1952 Wet | 1,780 | 1,690 | 2,312 | 2,788 | 2,832 | 2,988 | 3,452 | 3,538 | 3,538 | 3,085 | 2,670 | 2,097 |
| 1953 Wet | 1,864 | 1,768 | 2,015 | 2,809 | 3,095 | 3,059 | 3,284 | 3,538 | 3,538 | 3,042 | 2,797 | 2,446 |
| 1954 Above Normal | 2,237 | 2,214 | 2,065 | 2,269 | 2,681 | 2,943 | 3,292 | 3,351 | 2,920 | 2,326 | 1,826 | 1,583 |
| 1955 Dry | 1,351 | 1,251 | 1,284 | 1,414 | 1,531 | 1,680 | 1,745 | 1,858 | 1,701 | 1,467 | 1,261 | 1,223 |
| 1956 Wet | 1,060 | 929 | 2,718 | 2,788 | 2,788 | 3,018 | 3,427 | 3,538 | 3,538 | 2,444 | 2,421 | 2,107 |
| 1957 Above Normal | 1,950 | 1,871 | 1,637 | 1,721 | 2,196 | 2,673 | 2,834 | 3,087 | 2,845 | 2,199 | 1,697 | 1,508 |
| 1958 Wet | 1,455 | 1,367 | 1,544 | 1,862 | 2,788 | 2,788 | 3,235 | 3,538 | 3,538 | 2,944 | 2,604 | 2,305 |
| 1959 Below Normal | 2,071 | 1,963 | 1,816 | 2,135 | 2,509 | 2,767 | 2,833 | 2,778 | 2,582 | 1,909 | 1,262 | 1,239 |
| 1960 Dry | 1,082 | 934 | 861 | 991 | 1,665 | 2,234 | 2,385 | 2,415 | 2,220 | 1,613 | 1,315 | 1,244 |
| 1961 Dry | 1,108 | 1,054 | 1,086 | 1,187 | 1,459 | 1,727 | 1,835 | 1,866 | 1,698 | 1,242 | 1,139 | 1,043 |
| 1962 Below Normal | 963 | 928 | 997 | 1,121 | 1,987 | 2,427 | 2,903 | 3,067 | 2,787 | 2,103 | 1,725 | 1,624 |
| 1963 Wet | 2,295 | 2,305 | 2,600 | 2,913 | 3,057 | 2,927 | 3,180 | 3,538 | 3,161 | 2,532 | 2,252 | 1,929 |
| 1964 Dry | 1,713 | 1,763 | 1,737 | 1,887 | 2,041 | 2,186 | 2,140 | 2,113 | 1,981 | 1,323 | 1,231 | 1,151 |
| 1965 Wet | 1,027 | 970 | 2,778 | 2,788 | 2,997 | 3,096 | 3,354 | 3,538 | 3,220 | 2,663 | 2,548 | 2,232 |
| 1966 Below Normal | 2,044 | 2,091 | 2,157 | 2,356 | 2,480 | 2,726 | 2,984 | 2,909 | 2,475 | 1,844 | 1,447 | 1,317 |
| 1967 Wet | 1,176 | 1,219 | 1,566 | 2,347 | 2,865 | 2,847 | 3,236 | 3,538 | 3,538 | 3,139 | 2,655 | 2,075 |
| 1968 Below Normal | 1,858 | 1,747 | 1,737 | 1,922 | 2,628 | 3,006 | 3,064 | 3,069 | 2,625 | 2,070 | 1,856 | 1,746 |
| 1969 Wet | 1,527 | 1,485 | 1,678 | 2,788 | 2,788 | 3,027 | 3,470 | 3,538 | 3,538 | 3,035 | 2,641 | 2,113 |
| 1970 Wet | 1,967 | 1,910 | 2,545 | 2,787 | 2,787 | 3,163 | 3,210 | 3,221 | 2,731 | 2,180 | 1,961 | 1,611 |
| 1971 Wet | 1,393 | 1,520 | 1,945 | 2,356 | 2,693 | 3,162 | 3,433 | 3,538 | 3,534 | 2,942 | 2,704 | 2,373 |
| 1972 Below Normal | 2,188 | 2,104 | 2,166 | 2,348 | 2,639 | 3,051 | 3,185 | 3,179 | 2,906 | 2,204 | 1,852 | 1,788 |
| 1973 Above Normal | 1,670 | 1,753 | 1,974 | 2,642 | 2,788 | 2,951 | 3,275 | 3,538 | 3,010 | 2,493 | 2,301 | 2,065 |
| 1974 Wet | 1,894 | 2,781 | 2,800 | 2,870 | 3,009 | 2,788 | 3,292 | 3,538 | 3,252 | 2,865 | 2,743 | 2,442 |
| 1975 Wet | 2,228 | 2,174 | 2,178 | 2,228 | 2,693 | 2,833 | 3,320 | 3,538 | 3,538 | 2,924 | 2,479 | 2,190 |
| 1976 Critical | 2,061 | 2,053 | 2,014 | 2,083 | 2,203 | 2,307 | 2,286 | 2,133 | 1,963 | 1,609 | 1,365 | 1,334 |
| 1977 Critical | 1,248 | 1,128 | 1,004 | 954 | 935 | 912 | 773 | 739 | 683 | 620 | 608 | 604 |
| 1978 Above Normal | 583 | 605 | 838 | 1,962 | 2,592 | 2,944 | 3,218 | 3,459 | 3,409 | 2,678 | 2,073 | 1,541 |
| 1979 Below Normal | 1,282 | 1,233 | 1,200 | 1,369 | 1,765 | 2,164 | 2,375 | 2,577 | 2,088 | 1,595 | 1,375 | 1,287 |
| 1980 Above Normal | 1,248 | 1,217 | 1,252 | 2,423 | 2,788 | 3,028 | 3,272 | 3,392 | 3,316 | 2,653 | 2,062 | 1,785 |
| 1981 Dry | 1,524 | 1,362 | 1,438 | 1,597 | 1,858 | 2,129 | 2,274 | 2,197 | 1,800 | 1,260 | 1,169 | 1,110 |
| 1982 Wet | 1,165 | 2,239 | 2,788 | 2,943 | 2,987 | 2,936 | 3,303 | 3,538 | 3,538 | 2,910 | 2,491 | 1,974 |
| 1983 Wet | 2,062 | 2,250 | 2,789 | 2,854 | 2,788 | 2,788 | 3,208 | 3,538 | 3,538 | 3,522 | 3,497 | 3,351 |
| 1984 Wet | 3,163 | 2,950 | 2,788 | 3,091 | 3,078 | 3,120 | 3,336 | 3,443 | 3,105 | 2,459 | 2,092 | 1,745 |
| 1985 Dry | 1,588 | 1,722 | 1,828 | 1,900 | 2,132 | 2,391 | 2,608 | 2,493 | 2,133 | 1,465 | 1,242 | 1,199 |
| 1986 Wet | 1,103 | 1,002 | 1,036 | 1,348 | 2,922 | 2,788 | 3,091 | 3,124 | 3,037 | 2,376 | 1,808 | 1,540 |
| 1987 Dry | 1,360 | 1,267 | 1,235 | 1,226 | 1,360 | 1,681 | 1,707 | 1,542 | 1,309 | 1,145 | 996 | 957 |
| 1988 Critical | 976 | 1,050 | 1,357 | 1,635 | 1,712 | 1,780 | 1,791 | 1,760 | 1,557 | 1,338 | 1,242 | 1,162 |
| 1989 Dry | 1,123 | 1,236 | 1,252 | 1,433 | 2,664 | 3,025 | 2,878 | 2,409 | 1,694 | 1,694 | 1,241 | 1,246 |
| 1990 Critical | 1,248 | 1,245 | 1,252 | 1,339 | 1,436 | 1,705 | 1,649 | 1,643 | 1,537 | 1,245 | 1,176 | 1,083 |
| 1991 Critical | 1,041 | 1,013 | 982 | 915 | 923 | 1,280 | 1,478 | 1,600 | 1,480 | 1,241 | 1,159 | 1,128 |
| 1992 Critical | 1,059 | 985 | 954 | 974 | 1,252 | 1,473 | 1,629 | 1,481 | 1,263 | 1,094 | 947 | 849 |
| 1993 Above Normal | 881 | 912 | 1,112 | 1,745 | 2,417 | 2,964 | 3,456 | 3,538 | 3,538 | 2,892 | 2,275 | 1,666 |
| 1994 Critical | 1,470 | 1,353 | 1,439 | 1,452 | 1,582 | 1,773 | 1,733 | 1,676 | 1,457 | 1,241 | 1,106 | 973 |
| 1995 Wet | 910 | 920 | 1,082 | 2,828 | 2,788 | 2,788 | 3,208 | 3,538 | 3,538 | 3,480 | 3,237 | 2,698 |
| 1996 Wet | 2,458 | 2,343 | 2,539 | 2,788 | 2,788 | 2,995 | 3,352 | 3,538 | 3,504 | 2,874 | 2,409 | 2,106 |
| 1997 Wet | 1,917 | 1,895 | 2,788 | 2,788 | 2,952 | 3,123 | 3,258 | 3,260 | 2,810 | 2,151 | 2,077 | 1,727 |
| 1998 Wet | 1,520 | 1,501 | 1,648 | 2,535 | 2,788 | 2,817 | 3,298 | 3,538 | 3,538 | 3,524 | 3,500 | 3,050 |
| 1999 Wet | 2,835 | 2,939 | 3,107 | 2,788 | 2,788 | 2,817 | 3,164 | 3,415 | 3,105 | 2,593 | 2,552 | 2,269 |
| 2000 Above Normal | 2,034 | 1,961 | 1,693 | 1,950 | 2,856 | 2,964 | 3,298 | 3,436 | 2,950 | 2,298 | 2,045 | 1,812 |
| 2001 Dry | 1,642 | 1,525 | 1,275 | 1,318 | 1,437 | 1,650 | 1,698 | 1,575 | 1,349 | 1,216 | 1,102 | 1,007 |
| 2002 Dry | 925 | 959 | 1,252 | 1,621 | 1,848 | 2,170 | 2,282 | 2,296 | 1,828 | 1,287 | 1,224 | 1,152 |
| 2003 Above Normal | 1,043 | 1,023 | 1,660 | 2,331 | 2,671 | 2,964 | 3,351 | 3,538 | 3,320 | 2,659 | 2,050 | 1,469 |
| Average: | 1,480 | 1,470 | 1,644 | 1,912 | 2,209 | 2,435 | 2,695 | 2,793 | 2,593 | 2,108 | 1,815 | 1,601 |
| Minimum: | 583 | 605 | 759 | 915 | 923 | 912 | 773 | 739 | 683 | 620 | 608 | 604 |
| Maximum: | 3,163 | 2,950 | 3,107 | 3,091 | 3,095 | 3,163 | 3,470 | 3,538 | 3,538 | 3,524 | 3,500 | 3,351 |
| Wet: | 1,705 | 1,758 | 2,208 | 2,598 | 2,859 | 2,945 | 3,298 | 3,488 | 3,381 | 2,874 | 2,546 | 2,165 |
| Above Normal: | 1,526 | 1,547 | 1,661 | 2,125 | 2,610 | 2,920 | 3,268 | 3,412 | 3,142 | 2,511 | 2,060 | 1,724 |
| Below Normal: | 1,463 | 1,402 | 1,449 | 1,681 | 2,098 | 2,439 | 2,799 | 2,953 | 2,653 | 2,042 | 1,676 | 1,569 |
| Dry: | 1,293 | 1,249 | 1,286 | 1,404 | 1,664 | 2,001 | 2,170 | 2,157 | 1,911 | 1,466 | 1,264 | 1,189 |
| Critical: | 1,246 | 1,180 | 1,172 | 1,242 | 1,349 | 1,489 | 1,481 | 1,434 | 1,292 | 1,085 | 974 | 910 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Oroville Reservoir (TAF)

Difference Between BA - Proposed Action (Q5) and BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|------|------|------|--------|-----------|
| 1922 | Above Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -59 | -99 | 116 |
| 1923 | Below Normal | 116 | 116 | 116 | 116 | 120 | 120 | 120 | 119 | 224 | 139 | 62 | 342 |
| 1924 | Critical | 255 | 294 | 294 | 295 | 255 | 239 | 254 | 254 | 215 | 67 | 25 | 25 |
| 1925 | Dry | 25 | 25 | 26 | 26 | 26 | 26 | 25 | 27 | 115 | 259 | 169 | 259 |
| 1926 | Dry | 177 | 176 | 217 | 177 | 218 | 159 | 159 | 248 | 226 | 154 | 125 | 100 |
| 1927 | Wet | 89 | 65 | 17 | 39 | 0 | 0 | 0 | 0 | -24 | -4 | 14 | 230 |
| 1928 | Above Normal | 229 | 202 | 202 | 202 | 202 | 0 | 0 | -2 | -205 | -203 | 14 | 189 |
| 1929 | Critical | 84 | 104 | 104 | 104 | 104 | 73 | 65 | 64 | 94 | 93 | 82 | 80 |
| 1930 | Dry | 80 | 81 | 81 | 81 | 81 | 81 | 81 | 50 | -30 | 64 | 10 | 197 |
| 1931 | Critical | 90 | 88 | 88 | 88 | 48 | 89 | 66 | 44 | 67 | 68 | 78 | 12 |
| 1932 | Dry | 12 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | -19 | 360 | 210 | 120 |
| 1933 | Critical | 136 | 140 | 140 | 140 | 141 | 141 | 101 | 101 | 140 | 139 | 112 | 39 |
| 1934 | Critical | 39 | 33 | 11 | 19 | 22 | 22 | -3 | -3 | -2 | -3 | 0 | 0 |
| 1935 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | -95 | -36 | 126 | 368 |
| 1936 | Below Normal | 182 | 222 | 222 | 222 | 222 | 222 | 221 | 221 | 8 | -3 | 224 | 490 |
| 1937 | Below Normal | 489 | 402 | 223 | 219 | 259 | 259 | 259 | 258 | 320 | 237 | 263 | 184 |
| 1938 | Wet | 185 | 120 | 143 | 137 | 0 | 0 | 0 | 0 | 0 | -50 | -145 | -145 |
| 1939 | Dry | -145 | -145 | -127 | -127 | -127 | -127 | -158 | -165 | -161 | -111 | -71 | -70 |
| 1940 | Above Normal | -48 | -18 | 2 | 5 | 5 | 0 | 0 | -1 | -58 | -58 | 31 | 251 |
| 1941 | Wet | 249 | 200 | 240 | 240 | 0 | 0 | 0 | 0 | 0 | -94 | -259 | -259 |
| 1942 | Wet | -259 | -260 | -260 | 0 | 0 | 0 | 0 | 0 | 0 | -98 | 41 | 268 |
| 1943 | Wet | 299 | 298 | 298 | 0 | 0 | 0 | 0 | 0 | 64 | 64 | -46 | 111 |
| 1944 | Dry | 111 | 111 | 25 | 25 | 25 | 25 | 25 | 8 | 114 | 176 | 129 | 129 |
| 1945 | Below Normal | 109 | 84 | 66 | 17 | 57 | 57 | 57 | 57 | -65 | -129 | 41 | 54 |
| 1946 | Below Normal | 94 | 94 | 95 | 94 | 94 | 94 | 93 | 93 | -149 | -62 | 203 | 424 |
| 1947 | Dry | 308 | 279 | 279 | 283 | 320 | 320 | 320 | 359 | 423 | 46 | 79 | 78 |
| 1948 | Below Normal | 78 | 77 | 77 | 38 | 78 | 78 | 78 | 78 | 78 | 3 | -65 | 181 |
| 1949 | Dry | 73 | 113 | 114 | 114 | 114 | 114 | 114 | 113 | 195 | 295 | 145 | 181 |
| 1950 | Below Normal | 135 | 75 | 34 | 21 | 21 | 21 | 21 | 21 | -236 | -234 | -137 | 159 |
| 1951 | Above Normal | 160 | 160 | 37 | 0 | 0 | 0 | 0 | 0 | -235 | -162 | 22 | 279 |
| 1952 | Wet | 279 | 279 | 279 | 183 | 0 | 0 | 0 | 0 | 0 | -188 | -353 | -393 |
| 1953 | Wet | -393 | -393 | -394 | 0 | -1 | 0 | 0 | 0 | 0 | 86 | 334 | 554 |
| 1954 | Above Normal | 551 | 550 | 554 | 555 | 555 | 254 | 0 | 27 | -161 | -120 | -133 | 80 |
| 1955 | Dry | 80 | 15 | 30 | 31 | 31 | 31 | 31 | 31 | 36 | 144 | 45 | 85 |
| 1956 | Wet | 64 | 36 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | -68 | -137 | 104 |
| 1957 | Above Normal | 104 | 104 | 119 | 119 | 119 | 119 | 119 | 119 | 36 | 30 | 18 | 258 |
| 1958 | Wet | 218 | 222 | 262 | 262 | 0 | 0 | 0 | 0 | 0 | -95 | -218 | 42 |
| 1959 | Below Normal | 42 | 42 | 113 | 114 | 114 | 114 | 113 | 88 | 92 | 91 | -42 | 0 |
| 1960 | Dry | -15 | -16 | -16 | -16 | -16 | -16 | 22 | 22 | 94 | 110 | 34 | 29 |
| 1961 | Dry | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 37 | 30 | 2 | 44 | 38 |
| 1962 | Below Normal | 39 | 38 | 37 | 38 | 38 | 37 | 37 | 36 | -66 | -89 | 50 | 302 |
| 1963 | Wet | 301 | 301 | 301 | 301 | 0 | 0 | 0 | 0 | -195 | -213 | -17 | 225 |
| 1964 | Dry | 224 | 181 | 181 | 181 | 181 | 181 | 137 | 146 | 142 | 82 | 78 | 78 |
| 1965 | Wet | 57 | 33 | 16 | 0 | 0 | 0 | 0 | 0 | -193 | -123 | 112 | 355 |
| 1966 | Below Normal | 353 | 353 | 353 | 353 | 354 | 354 | 354 | 360 | 208 | 208 | 206 | 187 |
| 1967 | Wet | 204 | 183 | 167 | 165 | 165 | 0 | 0 | 0 | 0 | -172 | -339 | -365 |
| 1968 | Below Normal | -367 | -368 | -284 | -285 | -285 | -30 | -73 | -86 | -255 | -151 | 74 | 327 |
| 1969 | Wet | 212 | 211 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | -8 | -162 | -169 |
| 1970 | Wet | -169 | -169 | -169 | 0 | 0 | 0 | 0 | 0 | -253 | -120 | 128 | 348 |
| 1971 | Wet | 164 | 201 | 200 | 199 | 198 | 0 | 0 | 0 | -4 | -46 | 183 | 412 |
| 1972 | Below Normal | 412 | 411 | 412 | 412 | 413 | 413 | 412 | 417 | 421 | 372 | 341 | 341 |
| 1973 | Above Normal | 340 | 341 | 341 | 342 | 0 | 0 | 0 | 0 | -223 | -74 | 148 | 361 |
| 1974 | Wet | 368 | 369 | 0 | 0 | 0 | 0 | 0 | 0 | -272 | -135 | 102 | 344 |
| 1975 | Wet | 343 | 348 | 361 | 362 | 362 | 0 | 0 | 0 | 0 | -67 | -231 | 36 |
| 1976 | Critical | 73 | 79 | 180 | 180 | 180 | 181 | 181 | 158 | 159 | 270 | 119 | 83 |
| 1977 | Critical | 82 | 84 | 84 | 84 | 84 | 84 | 17 | 17 | 17 | 17 | 17 | 17 |
| 1978 | Above Normal | 17 | 17 | 17 | 17 | 17 | 0 | 0 | 0 | -1 | -116 | -272 | -418 |
| 1979 | Below Normal | -419 | -323 | -73 | -114 | -114 | -114 | -114 | -114 | -277 | -209 | -274 | -36 |
| 1980 | Above Normal | -64 | -43 | -66 | -83 | 0 | 0 | 0 | 0 | 0 | -111 | -270 | -91 |
| 1981 | Dry | -91 | -91 | 5 | 5 | 5 | 5 | 5 | -1 | -70 | 10 | 2 | 2 |
| 1982 | Wet | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -142 | -307 | -387 |
| 1983 | Wet | -387 | -387 | -141 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | Wet | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -124 | -124 | -102 | 128 |
| 1985 | Dry | 148 | 148 | 148 | 148 | 148 | 149 | 149 | 153 | 111 | 92 | 0 | 2 |
| 1986 | Wet | 3 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | -1 | -2 | -143 | 33 |
| 1987 | Dry | 32 | 16 | 40 | 40 | 40 | 40 | 45 | 76 | 68 | 108 | 79 | 79 |
| 1988 | Critical | 62 | 36 | 19 | 12 | 71 | 72 | 72 | 100 | 98 | 97 | 126 | 124 |
| 1989 | Dry | 100 | 74 | 31 | 22 | 41 | 41 | 41 | 34 | -46 | -123 | -294 | -27 |
| 1990 | Critical | 18 | -1 | 0 | 0 | 0 | 0 | -20 | -20 | -13 | 5 | 52 | 52 |
| 1991 | Critical | 52 | 52 | 52 | 15 | 56 | 29 | 56 | 56 | 97 | 11 | 43 | 43 |
| 1992 | Critical | 19 | -5 | -23 | -32 | -6 | -32 | -32 | -28 | -34 | -34 | -27 | -37 |
| 1993 | Above Normal | -21 | 45 | 46 | 46 | 45 | 0 | 0 | 0 | 0 | -45 | -184 | -308 |
| 1994 | Critical | -310 | -311 | -161 | -161 | -161 | -161 | -161 | -161 | -161 | 0 | -10 | -14 |
| 1995 | Wet | -14 | -14 | -14 | -14 | 0 | 0 | 0 | 0 | 0 | 0 | -68 | -79 |
| 1996 | Wet | -79 | -80 | -80 | 0 | 0 | 0 | 0 | 0 | 0 | -32 | -140 | 90 |
| 1997 | Wet | 89 | 88 | 0 | 0 | 0 | 0 | 0 | 38 | -206 | -286 | -35 | 196 |
| 1998 | Wet | 195 | 196 | 196 | 196 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | -301 |
| 1999 | Wet | -301 | -69 | 0 | 0 | 0 | 0 | 0 | -1 | -282 | -153 | 56 | 325 |
| 2000 | Above Normal | 323 | 339 | 326 | 327 | 232 | 0 | 0 | 0 | -195 | -194 | 42 | 244 |
| 2001 | Dry | 244 | 244 | 22 | 63 | 63 | 63 | 62 | 82 | 107 | 144 | 143 | 142 |
| 2002 | Dry | 106 | 57 | 26 | 14 | 14 | 14 | 14 | 13 | -201 | -138 | -58 | -92 |
| 2003 | Above Normal | -70 | -42 | -29 | -22 | -22 | 0 | -1 | 0 | -197 | -198 | -331 | -443 |
| Average: | | 81 | 80 | 79 | 81 | 64 | 47 | 41 | 43 | -9 | -10 | -2 | 89 |
| Minimum: | | -419 | -393 | -394 | -285 | -285 | -161 | -161 | -165 | -282 | -286 | -353 | -443 |
| Maximum: | | 551 | 550 | 554 | 555 | 555 | 413 | 412 | 417 | 423 | 372 | 341 | 554 |
| Wet: | | 68 | 69 | 64 | 80 | 28 | 0 | 0 | 1 | -57 | -79 | -66 | 65 |
| Above Normal: | | 127 | 138 | 129 | 126 | 96 | 31 | 10 | 12 | -103 | -109 | -84 | 43 |
| Below Normal: | | 90 | 87 | 99 | 89 | 98 | 116 | 113 | 111 | 15 | 10 | 77 | 237 |
| Dry: | | 83 | 72 | 62 | 61 | 66 | 63 | 61 | 69 | 63 | 93 | 48 | 74 |
| Critical: | | 50 | 50 | 66 | 62 | 66 | 61 | 50 | 49 | 56 | 61 | 51 | 35 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (Q5 Central Tendency Climate Change) and Proposed Action (Q5 Central Tendency Climate Change)

Long-Term and Water Year-Type Average of Folsom Reservoir Under BA - No Action Alternative (Q5) and BA - Proposed Action (Q5)

| Analysis Period | Average Storage (TAF) | | | | | | | | | | | |
|---------------------------------|-----------------------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|
| | October | November | December | January | February | March | April | May | June | July | August | September |
| Long-Term | | | | | | | | | | | | |
| Full Simulation Period | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 408 | 394 | 439 | 461 | 489 | 589 | 712 | 820 | 764 | 591 | 524 | 455 |
| BA - Proposed Action (Q5) | 400 | 401 | 442 | 465 | 490 | 589 | 713 | 820 | 742 | 576 | 506 | 445 |
| Difference | -8 | 7 | 3 | 4 | 1 | 0 | 1 | 0 | -22 | -16 | -18 | -11 |
| Percent Difference | -2% | 2% | 1% | 1% | 0% | 0% | 0% | 0% | -3% | -3% | -3% | -2% |
| Water Year-Types | | | | | | | | | | | | |
| Wet | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 451 | 441 | 521 | 524 | 515 | 631 | 785 | 951 | 941 | 795 | 706 | 574 |
| BA - Proposed Action (Q5) | 446 | 456 | 525 | 526 | 515 | 631 | 785 | 952 | 928 | 780 | 690 | 569 |
| Difference | -6 | 15 | 4 | 2 | 0 | 0 | 0 | 1 | -13 | -15 | -16 | -6 |
| Percent Difference | -1% | 3% | 1% | 0% | 0% | 0% | 0% | 0% | -1% | -2% | -2% | -1% |
| Above Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 376 | 352 | 404 | 497 | 530 | 640 | 786 | 945 | 889 | 636 | 574 | 487 |
| BA - Proposed Action (Q5) | 383 | 374 | 421 | 514 | 538 | 640 | 786 | 945 | 864 | 636 | 571 | 494 |
| Difference | 7 | 22 | 17 | 17 | 8 | 0 | 0 | 0 | -24 | 0 | -4 | 7 |
| Percent Difference | 2% | 6% | 4% | 3% | 2% | 0% | 0% | 0% | -3% | 0% | -1% | 2% |
| Below Normal | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 430 | 414 | 436 | 479 | 541 | 626 | 779 | 908 | 855 | 616 | 549 | 515 |
| BA - Proposed Action (Q5) | 404 | 408 | 430 | 489 | 543 | 628 | 779 | 909 | 794 | 583 | 512 | 482 |
| Difference | -25 | -6 | -5 | 10 | 2 | 2 | 0 | 1 | -61 | -33 | -37 | -32 |
| Percent Difference | -6% | -1% | -1% | 2% | 0% | 0% | 0% | 0% | -7% | -5% | -7% | -6% |
| Dry | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 376 | 375 | 415 | 418 | 477 | 584 | 687 | 735 | 620 | 457 | 406 | 384 |
| BA - Proposed Action (Q5) | 376 | 378 | 419 | 424 | 482 | 586 | 690 | 734 | 593 | 423 | 376 | 358 |
| Difference | 0 | 3 | 4 | 5 | 5 | 2 | 3 | -1 | -27 | -34 | -31 | -26 |
| Percent Difference | 0% | 1% | 1% | 1% | 1% | 0% | 0% | 0% | -4% | -7% | -8% | -7% |
| Critical | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 365 | 335 | 336 | 330 | 352 | 410 | 440 | 437 | 367 | 279 | 224 | 203 |
| BA - Proposed Action (Q5) | 349 | 330 | 330 | 319 | 341 | 404 | 440 | 434 | 376 | 293 | 231 | 213 |
| Difference | -16 | -5 | -6 | -11 | -11 | -5 | 0 | -3 | 10 | 14 | 7 | 10 |
| Percent Difference | -4% | -2% | -2% | -3% | -3% | -1% | 0% | -1% | 3% | 5% | 3% | 5% |

Folsom Reservoir

BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 592 | 546 | 567 | 567 | 567 | 661 | 792 | 967 | 967 | 915 | 792 | 670 |
| 20% | 544 | 495 | 567 | 565 | 565 | 656 | 792 | 967 | 967 | 835 | 760 | 602 |
| 30% | 498 | 461 | 538 | 557 | 558 | 652 | 792 | 967 | 967 | 742 | 686 | 562 |
| 40% | 448 | 426 | 497 | 541 | 553 | 646 | 792 | 967 | 939 | 667 | 609 | 522 |
| 50% | 411 | 407 | 446 | 475 | 530 | 633 | 792 | 953 | 872 | 592 | 514 | 447 |
| 60% | 352 | 393 | 417 | 448 | 494 | 621 | 789 | 859 | 758 | 520 | 451 | 399 |
| 70% | 329 | 352 | 392 | 423 | 449 | 593 | 734 | 749 | 671 | 423 | 376 | 374 |
| 80% | 290 | 308 | 346 | 367 | 410 | 531 | 613 | 655 | 540 | 379 | 349 | 324 |
| 90% | 221 | 228 | 236 | 289 | 384 | 431 | 451 | 468 | 420 | 305 | 221 | 220 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 408 | 394 | 439 | 461 | 489 | 589 | 712 | 820 | 764 | 591 | 524 | 455 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 451 | 441 | 521 | 524 | 515 | 631 | 785 | 951 | 941 | 795 | 706 | 574 |
| Above Normal | 376 | 352 | 404 | 497 | 530 | 640 | 786 | 945 | 889 | 636 | 574 | 487 |
| Below Normal | 430 | 414 | 436 | 479 | 541 | 626 | 779 | 908 | 855 | 616 | 549 | 515 |
| Dry | 376 | 375 | 415 | 418 | 477 | 584 | 687 | 735 | 620 | 457 | 406 | 384 |
| Critical | 365 | 335 | 336 | 330 | 352 | 410 | 440 | 437 | 367 | 279 | 224 | 203 |

BA - Proposed Action (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 581 | 550 | 567 | 567 | 567 | 661 | 792 | 967 | 967 | 863 | 781 | 625 |
| 20% | 538 | 513 | 567 | 567 | 566 | 656 | 792 | 967 | 967 | 788 | 702 | 589 |
| 30% | 478 | 481 | 554 | 562 | 560 | 652 | 792 | 967 | 957 | 725 | 632 | 550 |
| 40% | 436 | 448 | 511 | 550 | 556 | 646 | 792 | 967 | 894 | 657 | 574 | 500 |
| 50% | 398 | 410 | 471 | 507 | 542 | 636 | 792 | 965 | 784 | 581 | 525 | 476 |
| 60% | 371 | 375 | 412 | 449 | 499 | 621 | 785 | 862 | 727 | 528 | 471 | 421 |
| 70% | 322 | 351 | 373 | 425 | 453 | 593 | 734 | 761 | 625 | 429 | 388 | 364 |
| 80% | 286 | 310 | 321 | 360 | 419 | 529 | 634 | 641 | 514 | 369 | 321 | 324 |
| 90% | 203 | 243 | 243 | 275 | 361 | 460 | 469 | 483 | 391 | 298 | 202 | 191 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 400 | 401 | 442 | 465 | 490 | 589 | 713 | 820 | 742 | 576 | 506 | 445 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 446 | 456 | 525 | 526 | 515 | 631 | 785 | 952 | 928 | 780 | 690 | 569 |
| Above Normal | 383 | 374 | 421 | 514 | 538 | 640 | 786 | 945 | 864 | 636 | 571 | 494 |
| Below Normal | 404 | 408 | 430 | 489 | 543 | 628 | 779 | 909 | 794 | 583 | 512 | 482 |
| Dry | 376 | 378 | 419 | 424 | 482 | 586 | 690 | 734 | 593 | 423 | 376 | 358 |
| Critical | 349 | 330 | 330 | 319 | 341 | 404 | 440 | 434 | 376 | 293 | 231 | 213 |

BA - Proposed Action (Q5) Minus BA - No Action Alternative (Q5)

| Statistic | End-of-Month Storage (TAF) | | | | | | | | | | | |
|----------------------------------|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -52 | -11 | -45 |
| 20% | -6 | 18 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | -46 | -57 | -14 |
| 30% | -20 | 19 | 16 | 4 | 2 | 0 | 0 | 0 | -10 | -17 | -54 | -12 |
| 40% | -12 | 22 | 14 | 9 | 3 | 0 | 0 | 0 | -44 | -11 | -35 | -22 |
| 50% | -13 | 3 | 25 | 32 | 13 | 2 | 0 | 11 | -88 | -10 | 11 | 29 |
| 60% | 20 | -18 | -5 | 1 | 5 | 0 | -4 | 2 | -31 | 8 | 20 | 23 |
| 70% | -7 | -1 | -19 | 2 | 4 | 0 | 0 | 11 | -46 | 6 | 12 | -10 |
| 80% | -4 | 2 | -26 | -7 | 9 | -1 | 20 | -14 | -27 | -10 | -28 | 0 |
| 90% | -18 | 15 | 7 | -14 | -23 | 29 | 18 | 15 | -29 | -7 | -19 | -29 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -8 | 7 | 3 | 4 | 1 | 0 | 1 | 0 | -22 | -16 | -18 | -11 |
| Water Year Types | | | | | | | | | | | | |
| Wet | -6 | 15 | 4 | 2 | 0 | 0 | 0 | 1 | -13 | -15 | -16 | -6 |
| Above Normal | 7 | 22 | 17 | 17 | 8 | 0 | 0 | 0 | -24 | 0 | -4 | 7 |
| Below Normal | -25 | -6 | -5 | 10 | 2 | 2 | 0 | 1 | -61 | -33 | -37 | -32 |
| Dry | 0 | 3 | 4 | 5 | 5 | 2 | 3 | -1 | -27 | -34 | -31 | -26 |
| Critical | -16 | -5 | -6 | -11 | -11 | -5 | 0 | -3 | 10 | 14 | 7 | 10 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Folsom Reservoir (TAF)
 BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|
| 1922 | Above Normal | 409 | 362 | 420 | 431 | 567 | 662 | 792 | 967 | 967 | 830 | 774 | 526 |
| 1923 | Below Normal | 445 | 396 | 567 | 567 | 564 | 643 | 792 | 967 | 960 | 733 | 667 | 629 |
| 1924 | Critical | 538 | 482 | 426 | 361 | 418 | 405 | 432 | 438 | 381 | 339 | 306 | 273 |
| 1925 | Dry | 285 | 325 | 392 | 454 | 567 | 656 | 792 | 967 | 783 | 572 | 521 | 484 |
| 1926 | Dry | 431 | 390 | 374 | 327 | 481 | 595 | 792 | 736 | 550 | 392 | 358 | 358 |
| 1927 | Wet | 318 | 494 | 567 | 565 | 553 | 647 | 792 | 967 | 960 | 689 | 611 | 499 |
| 1928 | Above Normal | 449 | 478 | 497 | 499 | 515 | 635 | 785 | 880 | 770 | 459 | 416 | 380 |
| 1929 | Critical | 322 | 305 | 297 | 261 | 275 | 326 | 393 | 461 | 433 | 357 | 315 | 294 |
| 1930 | Dry | 264 | 260 | 463 | 567 | 567 | 659 | 792 | 833 | 669 | 444 | 423 | 410 |
| 1931 | Critical | 320 | 311 | 264 | 222 | 200 | 269 | 310 | 339 | 329 | 291 | 184 | 94 |
| 1932 | Dry | 90 | 94 | 213 | 314 | 567 | 664 | 784 | 967 | 961 | 910 | 792 | 666 |
| 1933 | Critical | 595 | 522 | 477 | 423 | 382 | 399 | 363 | 408 | 288 | 255 | 90 | 90 |
| 1934 | Critical | 90 | 98 | 212 | 319 | 410 | 536 | 502 | 349 | 307 | 135 | 90 | 90 |
| 1935 | Below Normal | 90 | 144 | 188 | 297 | 392 | 474 | 792 | 967 | 967 | 860 | 751 | 711 |
| 1936 | Below Normal | 592 | 567 | 540 | 567 | 562 | 651 | 792 | 967 | 967 | 728 | 683 | 653 |
| 1937 | Below Normal | 545 | 491 | 457 | 417 | 567 | 664 | 792 | 967 | 941 | 691 | 638 | 592 |
| 1938 | Wet | 541 | 547 | 567 | 567 | 567 | 662 | 792 | 967 | 967 | 925 | 792 | 752 |
| 1939 | Dry | 592 | 474 | 446 | 395 | 369 | 484 | 570 | 548 | 466 | 225 | 191 | 205 |
| 1940 | Above Normal | 215 | 220 | 235 | 567 | 557 | 626 | 792 | 967 | 873 | 597 | 484 | 396 |
| 1941 | Wet | 346 | 349 | 567 | 567 | 566 | 658 | 792 | 967 | 967 | 869 | 792 | 569 |
| 1942 | Wet | 516 | 402 | 567 | 564 | 556 | 650 | 792 | 967 | 967 | 865 | 792 | 547 |
| 1943 | Wet | 468 | 409 | 567 | 556 | 529 | 625 | 792 | 923 | 915 | 651 | 582 | 437 |
| 1944 | Dry | 379 | 345 | 313 | 285 | 336 | 477 | 546 | 664 | 557 | 426 | 365 | 324 |
| 1945 | Below Normal | 296 | 410 | 527 | 559 | 558 | 656 | 792 | 967 | 872 | 622 | 564 | 501 |
| 1946 | Below Normal | 473 | 567 | 567 | 564 | 558 | 649 | 792 | 967 | 875 | 586 | 484 | 397 |
| 1947 | Dry | 345 | 399 | 446 | 410 | 473 | 651 | 756 | 687 | 538 | 377 | 361 | 358 |
| 1948 | Below Normal | 347 | 351 | 343 | 427 | 429 | 439 | 792 | 967 | 961 | 850 | 710 | 671 |
| 1949 | Dry | 598 | 556 | 542 | 486 | 479 | 644 | 792 | 953 | 827 | 614 | 546 | 505 |
| 1950 | Below Normal | 446 | 413 | 376 | 567 | 565 | 658 | 792 | 967 | 967 | 758 | 681 | 639 |
| 1951 | Above Normal | 592 | 449 | 367 | 384 | 407 | 599 | 792 | 962 | 878 | 576 | 505 | 430 |
| 1952 | Wet | 356 | 412 | 567 | 567 | 566 | 661 | 792 | 967 | 967 | 942 | 792 | 627 |
| 1953 | Wet | 563 | 460 | 533 | 566 | 560 | 629 | 792 | 967 | 967 | 834 | 722 | 606 |
| 1954 | Above Normal | 495 | 441 | 432 | 446 | 532 | 656 | 792 | 851 | 770 | 458 | 421 | 385 |
| 1955 | Dry | 327 | 313 | 404 | 476 | 495 | 538 | 621 | 750 | 671 | 511 | 447 | 406 |
| 1956 | Wet | 350 | 332 | 524 | 460 | 458 | 616 | 792 | 967 | 967 | 842 | 785 | 718 |
| 1957 | Above Normal | 521 | 412 | 400 | 364 | 541 | 652 | 732 | 954 | 940 | 668 | 602 | 549 |
| 1958 | Wet | 512 | 505 | 561 | 567 | 557 | 656 | 792 | 967 | 967 | 917 | 792 | 723 |
| 1959 | Below Normal | 564 | 453 | 416 | 457 | 567 | 660 | 723 | 729 | 678 | 351 | 308 | 321 |
| 1960 | Dry | 280 | 245 | 219 | 223 | 512 | 654 | 696 | 738 | 693 | 522 | 447 | 423 |
| 1961 | Dry | 360 | 352 | 356 | 304 | 311 | 360 | 417 | 456 | 416 | 201 | 170 | 182 |
| 1962 | Below Normal | 179 | 209 | 248 | 253 | 567 | 664 | 792 | 910 | 899 | 608 | 508 | 468 |
| 1963 | Wet | 707 | 567 | 567 | 544 | 499 | 629 | 792 | 967 | 967 | 702 | 634 | 592 |
| 1964 | Dry | 469 | 502 | 538 | 567 | 567 | 566 | 633 | 694 | 621 | 475 | 422 | 381 |
| 1965 | Wet | 330 | 366 | 428 | 425 | 443 | 612 | 792 | 967 | 967 | 741 | 708 | 533 |
| 1966 | Below Normal | 474 | 497 | 523 | 553 | 563 | 661 | 792 | 805 | 743 | 422 | 397 | 398 |
| 1967 | Wet | 350 | 426 | 567 | 563 | 552 | 636 | 792 | 967 | 967 | 934 | 792 | 600 |
| 1968 | Below Normal | 575 | 481 | 485 | 513 | 547 | 640 | 736 | 762 | 699 | 380 | 372 | 374 |
| 1969 | Wet | 331 | 381 | 508 | 543 | 527 | 637 | 792 | 967 | 967 | 937 | 792 | 592 |
| 1970 | Wet | 577 | 496 | 567 | 453 | 446 | 611 | 686 | 743 | 681 | 398 | 350 | 270 |
| 1971 | Wet | 256 | 426 | 567 | 567 | 558 | 648 | 792 | 951 | 967 | 783 | 723 | 550 |
| 1972 | Below Normal | 496 | 400 | 472 | 493 | 567 | 646 | 734 | 809 | 726 | 461 | 417 | 386 |
| 1973 | Above Normal | 342 | 403 | 558 | 559 | 555 | 652 | 792 | 967 | 799 | 520 | 465 | 437 |
| 1974 | Wet | 404 | 567 | 567 | 505 | 499 | 622 | 792 | 967 | 967 | 817 | 773 | 592 |
| 1975 | Wet | 544 | 446 | 445 | 442 | 567 | 662 | 792 | 967 | 957 | 835 | 787 | 700 |
| 1976 | Critical | 592 | 532 | 534 | 469 | 421 | 428 | 427 | 437 | 411 | 382 | 359 | 332 |
| 1977 | Critical | 308 | 283 | 239 | 224 | 207 | 185 | 158 | 145 | 111 | 90 | 90 | 90 |
| 1978 | Above Normal | 90 | 94 | 239 | 567 | 567 | 657 | 792 | 967 | 967 | 718 | 643 | 561 |
| 1979 | Below Normal | 493 | 418 | 388 | 474 | 567 | 657 | 792 | 967 | 717 | 570 | 503 | 465 |
| 1980 | Above Normal | 438 | 482 | 552 | 481 | 457 | 621 | 792 | 967 | 967 | 800 | 734 | 592 |
| 1981 | Dry | 538 | 437 | 420 | 423 | 425 | 563 | 641 | 640 | 542 | 411 | 377 | 370 |
| 1982 | Wet | 358 | 546 | 433 | 459 | 402 | 590 | 792 | 967 | 967 | 905 | 792 | 667 |
| 1983 | Wet | 712 | 565 | 565 | 556 | 543 | 628 | 792 | 967 | 967 | 942 | 792 | 752 |
| 1984 | Wet | 712 | 472 | 406 | 427 | 458 | 615 | 767 | 967 | 877 | 611 | 548 | 403 |
| 1985 | Dry | 373 | 510 | 567 | 545 | 567 | 662 | 792 | 821 | 579 | 371 | 347 | 348 |
| 1986 | Wet | 308 | 353 | 496 | 551 | 440 | 593 | 792 | 946 | 906 | 639 | 580 | 437 |
| 1987 | Dry | 414 | 393 | 387 | 361 | 410 | 525 | 569 | 530 | 441 | 365 | 312 | 306 |
| 1988 | Critical | 270 | 264 | 335 | 442 | 449 | 475 | 503 | 483 | 431 | 371 | 318 | 294 |
| 1989 | Dry | 258 | 351 | 417 | 448 | 502 | 642 | 782 | 776 | 576 | 401 | 344 | 324 |
| 1990 | Critical | 329 | 375 | 402 | 448 | 478 | 590 | 663 | 668 | 561 | 424 | 370 | 362 |
| 1991 | Critical | 294 | 259 | 215 | 200 | 190 | 332 | 431 | 500 | 443 | 173 | 180 | 176 |
| 1992 | Critical | 190 | 134 | 185 | 206 | 403 | 534 | 600 | 484 | 230 | 190 | 90 | 90 |
| 1993 | Above Normal | 90 | 90 | 219 | 567 | 553 | 637 | 792 | 967 | 967 | 809 | 747 | 595 |
| 1994 | Critical | 537 | 459 | 448 | 384 | 388 | 437 | 497 | 530 | 475 | 338 | 291 | 255 |
| 1995 | Wet | 233 | 274 | 407 | 546 | 530 | 618 | 792 | 967 | 967 | 942 | 792 | 633 |
| 1996 | Wet | 581 | 450 | 566 | 557 | 494 | 621 | 792 | 967 | 967 | 783 | 720 | 543 |
| 1997 | Wet | 421 | 360 | 512 | 370 | 394 | 591 | 747 | 858 | 794 | 528 | 467 | 324 |
| 1998 | Wet | 283 | 298 | 348 | 567 | 555 | 646 | 792 | 967 | 967 | 936 | 792 | 744 |
| 1999 | Wet | 655 | 567 | 567 | 560 | 560 | 654 | 788 | 967 | 967 | 704 | 655 | 527 |
| 2000 | Above Normal | 450 | 394 | 363 | 535 | 558 | 656 | 792 | 920 | 835 | 536 | 485 | 456 |
| 2001 | Dry | 413 | 395 | 403 | 379 | 402 | 518 | 602 | 600 | 506 | 420 | 370 | 375 |
| 2002 | Dry | 358 | 412 | 567 | 567 | 563 | 655 | 792 | 865 | 755 | 587 | 520 | 481 |
| 2003 | Above Normal | 421 | 405 | 567 | 562 | 551 | 632 | 792 | 967 | 933 | 665 | 617 | 533 |
| Average: | | 408 | 394 | 439 | 461 | 489 | 589 | 712 | 820 | 764 | 591 | 524 | 455 |
| Minimum: | | 90 | 90 | 185 | 200 | 190 | 185 | 158 | 145 | 111 | 90 | 90 | 90 |
| Maximum: | | 712 | 567 | 567 | 567 | 567 | 664 | 792 | 967 | 967 | 942 | 792 | 752 |
| Wet: | | 451 | 441 | 521 | 524 | 515 | 631 | 785 | 951 | 941 | 795 | 706 | 574 |
| Above Normal: | | 376 | 352 | 404 | 497 | 530 | 640 | 786 | 945 | 889 | 636 | 574 | 487 |
| Below Normal: | | 430 | 414 | 436 | 479 | 541 | 626 | 779 | 908 | 855 | 616 | 549 | 515 |
| Dry: | | 376 | 375 | 415 | 418 | 477 | 584 | 687 | 735 | 620 | 457 | 406 | 384 |
| Critical: | | 365 | 335 | 336 | 330 | 352 | 410 | 440 | 437 | 367 | 279 | 224 | 203 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Folsom Reservoir (TAF)
 BA - Proposed Action (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|
| 1922 | Above Normal | 401 | 353 | 411 | 422 | 567 | 662 | 792 | 967 | 967 | 746 | 691 | 485 |
| 1923 | Below Normal | 438 | 435 | 567 | 567 | 567 | 646 | 792 | 967 | 960 | 733 | 538 | 501 |
| 1924 | Critical | 389 | 335 | 280 | 214 | 271 | 276 | 302 | 314 | 303 | 298 | 294 | 264 |
| 1925 | Dry | 276 | 315 | 383 | 445 | 567 | 656 | 792 | 967 | 763 | 575 | 523 | 486 |
| 1926 | Dry | 403 | 361 | 345 | 300 | 453 | 531 | 782 | 705 | 529 | 398 | 364 | 363 |
| 1927 | Wet | 321 | 495 | 567 | 565 | 553 | 647 | 792 | 967 | 960 | 732 | 589 | 530 |
| 1928 | Above Normal | 473 | 520 | 540 | 541 | 557 | 635 | 784 | 880 | 749 | 549 | 506 | 402 |
| 1929 | Critical | 344 | 320 | 304 | 260 | 269 | 318 | 382 | 449 | 425 | 352 | 313 | 296 |
| 1930 | Dry | 265 | 260 | 463 | 567 | 567 | 659 | 792 | 833 | 592 | 414 | 393 | 379 |
| 1931 | Critical | 315 | 308 | 272 | 239 | 224 | 293 | 333 | 361 | 334 | 300 | 90 | 90 |
| 1932 | Dry | 90 | 90 | 202 | 303 | 561 | 664 | 784 | 967 | 954 | 721 | 592 | 545 |
| 1933 | Critical | 439 | 365 | 320 | 269 | 228 | 307 | 338 | 387 | 361 | 298 | 90 | 90 |
| 1934 | Critical | 90 | 90 | 211 | 318 | 409 | 526 | 492 | 339 | 304 | 133 | 90 | 90 |
| 1935 | Below Normal | 90 | 144 | 188 | 297 | 392 | 474 | 792 | 967 | 852 | 593 | 544 | 504 |
| 1936 | Below Normal | 371 | 347 | 320 | 567 | 562 | 651 | 792 | 967 | 967 | 728 | 592 | 562 |
| 1937 | Below Normal | 419 | 365 | 333 | 294 | 567 | 664 | 792 | 967 | 792 | 586 | 534 | 495 |
| 1938 | Wet | 394 | 401 | 567 | 567 | 567 | 662 | 792 | 967 | 967 | 865 | 735 | 666 |
| 1939 | Dry | 592 | 494 | 466 | 415 | 389 | 504 | 598 | 570 | 485 | 174 | 145 | 160 |
| 1940 | Above Normal | 170 | 191 | 206 | 567 | 557 | 626 | 792 | 967 | 800 | 580 | 477 | 401 |
| 1941 | Wet | 350 | 351 | 567 | 567 | 566 | 658 | 792 | 967 | 967 | 859 | 792 | 561 |
| 1942 | Wet | 506 | 457 | 567 | 564 | 556 | 650 | 792 | 967 | 967 | 836 | 690 | 520 |
| 1943 | Wet | 463 | 466 | 567 | 556 | 529 | 625 | 792 | 925 | 917 | 667 | 596 | 449 |
| 1944 | Dry | 392 | 353 | 321 | 291 | 340 | 479 | 546 | 662 | 537 | 430 | 369 | 327 |
| 1945 | Below Normal | 298 | 410 | 526 | 557 | 558 | 656 | 792 | 967 | 778 | 584 | 526 | 488 |
| 1946 | Below Normal | 453 | 552 | 567 | 564 | 558 | 649 | 792 | 967 | 749 | 460 | 401 | 364 |
| 1947 | Dry | 312 | 374 | 433 | 407 | 478 | 655 | 691 | 636 | 522 | 339 | 323 | 319 |
| 1948 | Below Normal | 324 | 342 | 350 | 446 | 450 | 460 | 792 | 967 | 960 | 826 | 695 | 642 |
| 1949 | Dry | 582 | 550 | 536 | 480 | 473 | 638 | 792 | 967 | 779 | 588 | 533 | 493 |
| 1950 | Below Normal | 430 | 400 | 367 | 567 | 565 | 658 | 792 | 967 | 926 | 661 | 592 | 550 |
| 1951 | Above Normal | 529 | 449 | 367 | 384 | 407 | 599 | 792 | 962 | 789 | 559 | 470 | 424 |
| 1952 | Wet | 374 | 430 | 567 | 567 | 566 | 661 | 792 | 967 | 967 | 942 | 792 | 604 |
| 1953 | Wet | 563 | 520 | 567 | 566 | 560 | 629 | 792 | 967 | 967 | 800 | 713 | 592 |
| 1954 | Above Normal | 524 | 508 | 499 | 513 | 567 | 656 | 792 | 851 | 770 | 592 | 554 | 502 |
| 1955 | Dry | 442 | 409 | 479 | 532 | 541 | 567 | 634 | 746 | 679 | 519 | 455 | 413 |
| 1956 | Wet | 354 | 333 | 524 | 460 | 458 | 616 | 792 | 967 | 967 | 815 | 749 | 690 |
| 1957 | Above Normal | 569 | 480 | 476 | 440 | 563 | 652 | 733 | 955 | 881 | 724 | 631 | 592 |
| 1958 | Wet | 556 | 549 | 567 | 567 | 557 | 656 | 792 | 967 | 967 | 906 | 776 | 699 |
| 1959 | Below Normal | 592 | 527 | 491 | 532 | 567 | 660 | 723 | 730 | 629 | 359 | 317 | 330 |
| 1960 | Dry | 286 | 247 | 218 | 220 | 506 | 653 | 734 | 775 | 729 | 560 | 520 | 477 |
| 1961 | Dry | 413 | 401 | 400 | 345 | 348 | 397 | 454 | 492 | 448 | 205 | 173 | 186 |
| 1962 | Below Normal | 182 | 212 | 251 | 256 | 567 | 664 | 792 | 910 | 819 | 591 | 529 | 489 |
| 1963 | Wet | 712 | 567 | 567 | 544 | 499 | 629 | 792 | 967 | 898 | 696 | 629 | 592 |
| 1964 | Dry | 544 | 567 | 567 | 567 | 567 | 566 | 633 | 694 | 642 | 476 | 413 | 373 |
| 1965 | Wet | 322 | 361 | 428 | 425 | 443 | 612 | 792 | 967 | 943 | 731 | 698 | 559 |
| 1966 | Below Normal | 503 | 526 | 553 | 567 | 567 | 661 | 792 | 811 | 672 | 450 | 419 | 420 |
| 1967 | Wet | 372 | 447 | 567 | 563 | 552 | 636 | 792 | 967 | 967 | 934 | 792 | 586 |
| 1968 | Below Normal | 561 | 537 | 551 | 567 | 547 | 640 | 736 | 763 | 577 | 451 | 443 | 445 |
| 1969 | Wet | 396 | 437 | 549 | 543 | 527 | 637 | 792 | 967 | 967 | 835 | 766 | 592 |
| 1970 | Wet | 577 | 542 | 567 | 453 | 446 | 611 | 686 | 743 | 649 | 430 | 380 | 350 |
| 1971 | Wet | 309 | 448 | 567 | 567 | 558 | 648 | 792 | 967 | 967 | 769 | 708 | 556 |
| 1972 | Below Normal | 507 | 462 | 533 | 554 | 567 | 646 | 735 | 810 | 727 | 551 | 507 | 475 |
| 1973 | Above Normal | 429 | 481 | 567 | 559 | 555 | 652 | 792 | 967 | 771 | 531 | 477 | 449 |
| 1974 | Wet | 416 | 567 | 567 | 505 | 499 | 622 | 792 | 967 | 943 | 818 | 774 | 592 |
| 1975 | Wet | 544 | 506 | 505 | 502 | 567 | 662 | 792 | 967 | 957 | 831 | 783 | 685 |
| 1976 | Critical | 592 | 567 | 567 | 502 | 453 | 461 | 460 | 469 | 442 | 412 | 389 | 362 |
| 1977 | Critical | 338 | 310 | 268 | 229 | 212 | 189 | 163 | 149 | 115 | 90 | 90 | 90 |
| 1978 | Above Normal | 90 | 94 | 239 | 567 | 567 | 657 | 792 | 967 | 967 | 709 | 634 | 561 |
| 1979 | Below Normal | 491 | 454 | 424 | 509 | 567 | 657 | 792 | 967 | 709 | 583 | 527 | 489 |
| 1980 | Above Normal | 461 | 499 | 562 | 481 | 457 | 621 | 792 | 967 | 967 | 744 | 671 | 550 |
| 1981 | Dry | 496 | 444 | 426 | 429 | 431 | 569 | 646 | 645 | 349 | 169 | 168 | 184 |
| 1982 | Wet | 208 | 546 | 433 | 459 | 402 | 590 | 792 | 967 | 967 | 905 | 792 | 631 |
| 1983 | Wet | 712 | 565 | 565 | 556 | 543 | 628 | 792 | 967 | 967 | 942 | 792 | 752 |
| 1984 | Wet | 712 | 472 | 406 | 427 | 458 | 615 | 767 | 967 | 822 | 556 | 493 | 360 |
| 1985 | Dry | 334 | 481 | 567 | 562 | 567 | 662 | 792 | 789 | 577 | 412 | 364 | 365 |
| 1986 | Wet | 319 | 357 | 492 | 551 | 440 | 593 | 792 | 946 | 906 | 639 | 580 | 453 |
| 1987 | Dry | 429 | 410 | 402 | 375 | 422 | 537 | 580 | 528 | 445 | 370 | 316 | 310 |
| 1988 | Critical | 272 | 264 | 334 | 439 | 446 | 471 | 499 | 479 | 427 | 368 | 316 | 293 |
| 1989 | Dry | 258 | 350 | 417 | 448 | 502 | 642 | 781 | 774 | 563 | 415 | 357 | 336 |
| 1990 | Critical | 336 | 377 | 398 | 439 | 465 | 578 | 651 | 657 | 554 | 427 | 375 | 367 |
| 1991 | Critical | 297 | 260 | 214 | 199 | 189 | 331 | 430 | 499 | 483 | 365 | 304 | 242 |
| 1992 | Critical | 244 | 275 | 313 | 309 | 508 | 639 | 705 | 554 | 266 | 225 | 194 | 168 |
| 1993 | Above Normal | 90 | 90 | 224 | 567 | 553 | 637 | 792 | 967 | 967 | 725 | 662 | 593 |
| 1994 | Critical | 535 | 488 | 476 | 411 | 414 | 463 | 522 | 555 | 502 | 248 | 221 | 205 |
| 1995 | Wet | 200 | 241 | 373 | 546 | 530 | 618 | 792 | 967 | 967 | 930 | 792 | 611 |
| 1996 | Wet | 574 | 504 | 567 | 557 | 494 | 621 | 792 | 967 | 967 | 781 | 717 | 536 |
| 1997 | Wet | 443 | 444 | 512 | 370 | 394 | 591 | 748 | 861 | 671 | 420 | 361 | 328 |
| 1998 | Wet | 286 | 301 | 350 | 567 | 555 | 646 | 792 | 967 | 967 | 936 | 792 | 743 |
| 1999 | Wet | 603 | 559 | 567 | 560 | 560 | 654 | 788 | 967 | 966 | 703 | 654 | 552 |
| 2000 | Above Normal | 477 | 424 | 393 | 564 | 558 | 656 | 792 | 920 | 811 | 512 | 462 | 433 |
| 2001 | Dry | 390 | 393 | 400 | 376 | 399 | 514 | 598 | 601 | 376 | 318 | 271 | 280 |
| 2002 | Dry | 263 | 310 | 508 | 567 | 563 | 655 | 792 | 864 | 698 | 527 | 479 | 441 |
| 2003 | Above Normal | 381 | 403 | 567 | 562 | 551 | 631 | 792 | 967 | 933 | 665 | 614 | 535 |
| Average: | | 400 | 401 | 442 | 465 | 490 | 589 | 713 | 820 | 742 | 576 | 506 | 445 |
| Minimum: | | 90 | 90 | 188 | 199 | 189 | 189 | 163 | 149 | 115 | 90 | 90 | 90 |
| Maximum: | | 712 | 567 | 567 | 567 | 567 | 664 | 792 | 967 | 967 | 942 | 792 | 752 |
| Wet: | | 446 | 456 | 525 | 526 | 515 | 631 | 785 | 952 | 928 | 780 | 690 | 569 |
| Above Normal: | | 383 | 374 | 421 | 514 | 538 | 640 | 786 | 945 | 864 | 636 | 571 | 494 |
| Below Normal: | | 404 | 408 | 430 | 489 | 543 | 628 | 779 | 909 | 794 | 583 | 512 | 482 |
| Dry: | | 376 | 378 | 419 | 424 | 482 | 586 | 690 | 734 | 593 | 423 | 376 | 358 |
| Critical: | | 349 | 330 | 330 | 319 | 341 | 404 | 440 | 434 | 376 | 293 | 231 | 213 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Folsom Reservoir (TAF)
Difference Between BA - Proposed Action (Q5) and BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|------|------|------|--------|-----------|
| 1922 | Above Normal | -9 | -9 | -9 | -9 | 0 | 0 | 0 | 0 | 0 | -84 | -84 | -41 |
| 1923 | Below Normal | -7 | 38 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | -128 | -128 |
| 1924 | Critical | -149 | -147 | -147 | -147 | -146 | -129 | -130 | -124 | -78 | -41 | -12 | -9 |
| 1925 | Dry | -9 | -9 | -9 | -9 | 0 | 0 | 0 | 0 | -20 | 3 | 2 | 2 |
| 1926 | Dry | -28 | -28 | -28 | -27 | -29 | -63 | -10 | -31 | -21 | 7 | 6 | 6 |
| 1927 | Wet | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | -22 | 31 |
| 1928 | Above Normal | 24 | 42 | 42 | 42 | 42 | 0 | 0 | 0 | -21 | 91 | 90 | 22 |
| 1929 | Critical | 22 | 15 | 7 | -1 | -6 | -8 | -11 | -13 | -8 | -5 | -2 | 1 |
| 1930 | Dry | 1 | 0 | -1 | 0 | 0 | 0 | 0 | 0 | -77 | -30 | -30 | -30 |
| 1931 | Critical | -6 | -2 | 8 | 17 | 24 | 24 | 23 | 23 | 5 | 9 | -94 | -4 |
| 1932 | Dry | 0 | -4 | -11 | -11 | -6 | 0 | 0 | 0 | -6 | -189 | -200 | -121 |
| 1933 | Critical | -157 | -157 | -157 | -155 | -154 | -92 | -26 | -21 | 73 | 43 | 0 | 0 |
| 1934 | Critical | 0 | -8 | -1 | -1 | -1 | -10 | -10 | -10 | -3 | -2 | 0 | 0 |
| 1935 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -115 | -267 | -208 | -207 |
| 1936 | Below Normal | -221 | -220 | -220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -91 | -91 |
| 1937 | Below Normal | -126 | -126 | -124 | -124 | 0 | 0 | 0 | 0 | -148 | -105 | -104 | -97 |
| 1938 | Wet | -146 | -146 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -60 | -57 | -86 |
| 1939 | Dry | 0 | 20 | 20 | 20 | 20 | 20 | 28 | 23 | 18 | -51 | -46 | -45 |
| 1940 | Above Normal | -45 | -29 | -29 | 0 | 0 | 0 | 0 | 0 | -73 | -17 | -7 | 6 |
| 1941 | Wet | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -11 | 0 | -8 |
| 1942 | Wet | -9 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -29 | -102 | -27 |
| 1943 | Wet | -6 | 56 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 16 | 14 | 12 |
| 1944 | Dry | 13 | 8 | 8 | 6 | 4 | 2 | 0 | -3 | -20 | 4 | 4 | 4 |
| 1945 | Below Normal | 2 | 1 | -1 | -3 | 0 | 0 | 0 | 0 | -93 | -38 | -38 | -13 |
| 1946 | Below Normal | -20 | -15 | 0 | 0 | 0 | 0 | 0 | 0 | -126 | -126 | -84 | -33 |
| 1947 | Dry | -33 | -25 | -13 | -3 | 5 | 5 | -64 | -51 | -16 | -38 | -38 | -38 |
| 1948 | Below Normal | -23 | -9 | 6 | 19 | 21 | 21 | 0 | 0 | -1 | -25 | -15 | -29 |
| 1949 | Dry | -15 | -6 | -6 | -6 | -6 | -6 | 0 | 14 | -48 | -27 | -12 | -12 |
| 1950 | Below Normal | -16 | -12 | -9 | 0 | 0 | 0 | 0 | 0 | -41 | -97 | -89 | -90 |
| 1951 | Above Normal | -63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -88 | -17 | -35 | -6 |
| 1952 | Wet | 18 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -23 |
| 1953 | Wet | 1 | 60 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | -34 | -10 | -14 |
| 1954 | Above Normal | 29 | 67 | 67 | 67 | 35 | 0 | 0 | 0 | 0 | 134 | 133 | 118 |
| 1955 | Dry | 115 | 96 | 75 | 56 | 46 | 29 | 13 | -4 | 8 | 8 | 8 | 8 |
| 1956 | Wet | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -26 | -36 | -29 |
| 1957 | Above Normal | 48 | 69 | 76 | 76 | 22 | 0 | 1 | 1 | -59 | 56 | 29 | 43 |
| 1958 | Wet | 44 | 44 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | -11 | -16 | -24 |
| 1959 | Below Normal | 28 | 74 | 74 | 74 | 0 | 0 | 1 | 1 | -49 | 8 | 9 | 9 |
| 1960 | Dry | 6 | 3 | -1 | -3 | -6 | -1 | 38 | 37 | 36 | 38 | 73 | 54 |
| 1961 | Dry | 53 | 49 | 44 | 41 | 38 | 37 | 37 | 37 | 33 | 3 | 3 | 3 |
| 1962 | Below Normal | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | -79 | -18 | 20 | 20 |
| 1963 | Wet | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -69 | -6 | -6 | 0 |
| 1964 | Dry | 75 | 65 | 29 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | -9 | -8 |
| 1965 | Wet | -8 | -5 | 0 | 0 | 0 | 0 | 0 | 0 | -24 | -10 | -9 | 26 |
| 1966 | Below Normal | 29 | 30 | 30 | 14 | 4 | 0 | 0 | 6 | -71 | 28 | 22 | 23 |
| 1967 | Wet | 22 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -14 |
| 1968 | Below Normal | -14 | 56 | 66 | 54 | 0 | 0 | 0 | 1 | -122 | 71 | 71 | 71 |
| 1969 | Wet | 64 | 56 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | -102 | -26 | 0 |
| 1970 | Wet | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | -32 | 32 | 30 | 80 |
| 1971 | Wet | 53 | 22 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | -13 | -15 | 6 |
| 1972 | Below Normal | 10 | 62 | 62 | 61 | 0 | 0 | 0 | 0 | 1 | 90 | 89 | 89 |
| 1973 | Above Normal | 86 | 78 | 9 | 0 | 0 | 0 | 0 | 0 | -28 | 12 | 12 | 12 |
| 1974 | Wet | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -24 | 1 | 1 | 0 |
| 1975 | Wet | 0 | 60 | 60 | 60 | 0 | 0 | 0 | 0 | 0 | -4 | -4 | -16 |
| 1976 | Critical | 0 | 35 | 33 | 33 | 33 | 33 | 32 | 32 | 31 | 31 | 30 | 30 |
| 1977 | Critical | 30 | 27 | 29 | 5 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 |
| 1978 | Above Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -9 | -9 | 0 |
| 1979 | Below Normal | -2 | 36 | 36 | 36 | 0 | 0 | 0 | 0 | -8 | 12 | 24 | 24 |
| 1980 | Above Normal | 24 | 17 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | -56 | -63 | -42 |
| 1981 | Dry | -42 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | -193 | -242 | -208 | -187 |
| 1982 | Wet | -150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -37 |
| 1983 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -55 | -55 | -55 | -43 |
| 1985 | Dry | -39 | -29 | 0 | 17 | 0 | 0 | 0 | -33 | -2 | 41 | 17 | 17 |
| 1986 | Wet | 10 | 4 | -3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1987 | Dry | 16 | 17 | 15 | 13 | 12 | 12 | 11 | -3 | 4 | 5 | 4 | 4 |
| 1988 | Critical | 2 | 0 | -1 | -3 | -4 | -4 | -4 | -4 | -4 | -3 | -2 | -1 |
| 1989 | Dry | -1 | 0 | 0 | 0 | 0 | 0 | -1 | -2 | -13 | 14 | 13 | 12 |
| 1990 | Critical | 7 | 2 | -4 | -8 | -12 | -12 | -12 | -12 | -7 | 3 | 5 | 5 |
| 1991 | Critical | 3 | 1 | -1 | -1 | -1 | -1 | -1 | -1 | 40 | 192 | 125 | 65 |
| 1992 | Critical | 55 | 141 | 128 | 103 | 105 | 105 | 104 | 70 | 36 | 35 | 104 | 78 |
| 1993 | Above Normal | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | -84 | -85 | -1 |
| 1994 | Critical | -2 | 29 | 28 | 27 | 26 | 26 | 25 | 25 | 27 | -90 | -70 | -50 |
| 1995 | Wet | -33 | -33 | -33 | 0 | 0 | 0 | 0 | 0 | 0 | -12 | 0 | -21 |
| 1996 | Wet | -8 | 54 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 | -7 |
| 1997 | Wet | 23 | 84 | 0 | 0 | 0 | 0 | 2 | 3 | -123 | -108 | -106 | 4 |
| 1998 | Wet | 4 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | Wet | -52 | -8 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | -1 | -1 | 25 |
| 2000 | Above Normal | 27 | 31 | 31 | 29 | 0 | 0 | 0 | 0 | -24 | -24 | -23 | -23 |
| 2001 | Dry | -23 | -3 | -3 | -3 | -3 | -3 | -4 | 1 | -130 | -101 | -99 | -95 |
| 2002 | Dry | -95 | -102 | -59 | 0 | 0 | 0 | 0 | -1 | -57 | -59 | -41 | -40 |
| 2003 | Above Normal | -41 | -1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -3 | 2 |
| Average: | | -8 | 7 | 3 | 4 | 1 | 0 | 1 | 0 | -22 | -16 | -18 | -11 |
| Minimum: | | -221 | -220 | -220 | -155 | -154 | -129 | -130 | -124 | -193 | -267 | -208 | -207 |
| Maximum: | | 115 | 141 | 128 | 103 | 105 | 105 | 104 | 70 | 36 | 35 | 104 | 78 |
| Wet: | | -6 | 15 | 4 | 2 | 0 | 0 | 0 | 1 | -13 | -15 | -16 | -6 |
| Above Normal: | | 7 | 22 | 17 | 17 | 8 | 0 | 0 | 0 | -24 | 0 | -4 | 7 |
| Below Normal: | | -25 | -6 | -5 | 10 | 2 | 2 | 0 | 1 | -61 | -33 | -37 | -32 |
| Dry: | | 0 | 3 | 4 | 5 | 5 | 2 | 3 | -1 | -27 | -34 | -31 | -26 |
| Critical: | | -16 | -5 | -6 | -11 | -11 | -5 | 0 | -3 | 10 | 14 | 7 | 10 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (Q5 Central Tendency Climate Change) and Proposed Action (Q5 Central Tendency Climate Change)

Long-Term and Water Year-Type Average of Sacramento River Below Keswick Under BA - No Action Alternative (Q5) and BA - Proposed Action (Q5)

| Analysis Period | Average Flow (cfs) | | | | | | | | | | | | Total (TAF) |
|---------------------------------|--------------------|----------|----------|---------|----------|--------|-------|-------|--------|--------|--------|-----------|-------------|
| | October | November | December | January | February | March | April | May | June | July | August | September | |
| Long-Term | | | | | | | | | | | | | |
| Full Simulation Period | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 6,206 | 6,938 | 7,064 | 8,770 | 11,398 | 8,324 | 6,599 | 7,357 | 10,517 | 13,423 | 9,965 | 8,035 | 6,306 |
| BA - Proposed Action (Q5) | 6,142 | 5,733 | 7,160 | 9,163 | 11,596 | 8,542 | 6,641 | 7,468 | 11,063 | 13,360 | 9,956 | 7,647 | 6,299 |
| Difference | -64 | -1,205 | 96 | 393 | 198 | 218 | 42 | 111 | 546 | -63 | -10 | -387 | -7 |
| Percent Difference | -1% | -17% | 1% | 4% | 2% | 3% | 1% | 2% | 5% | 0% | 0% | -5% | 0% |
| Water Year-Types | | | | | | | | | | | | | |
| Wet | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 6,632 | 8,232 | 12,019 | 17,440 | 21,515 | 15,964 | 8,851 | 8,181 | 10,024 | 13,472 | 10,371 | 12,775 | 8,744 |
| BA - Proposed Action (Q5) | 6,597 | 7,180 | 12,695 | 17,926 | 21,732 | 15,991 | 8,853 | 8,147 | 10,222 | 13,557 | 10,465 | 12,624 | 8,777 |
| Difference | -34 | -1,052 | 677 | 486 | 217 | 27 | 2 | -33 | 198 | 85 | 95 | -151 | 32 |
| Percent Difference | -1% | -13% | 6% | 3% | 1% | 0% | 0% | 0% | 2% | 1% | 1% | -1% | 0% |
| Above Normal | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 6,731 | 7,469 | 5,744 | 7,755 | 15,033 | 8,277 | 5,801 | 7,348 | 11,220 | 14,561 | 10,488 | 9,206 | 6,600 |
| BA - Proposed Action (Q5) | 6,601 | 5,990 | 5,344 | 8,396 | 15,699 | 9,057 | 5,807 | 7,383 | 11,945 | 14,572 | 10,444 | 8,240 | 6,591 |
| Difference | -130 | -1,479 | -401 | 641 | 666 | 781 | 6 | 35 | 725 | 11 | -44 | -966 | -9 |
| Percent Difference | -2% | -20% | -7% | 8% | 4% | 9% | 0% | 0% | 6% | 0% | 0% | -10% | 0% |
| Below Normal | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 6,060 | 6,622 | 5,994 | 4,127 | 6,232 | 4,187 | 4,972 | 6,399 | 10,501 | 13,101 | 9,800 | 5,399 | 5,039 |
| BA - Proposed Action (Q5) | 6,010 | 4,914 | 5,638 | 4,662 | 6,676 | 4,475 | 4,902 | 6,396 | 11,278 | 13,383 | 9,337 | 4,904 | 4,990 |
| Difference | -50 | -1,708 | -355 | 535 | 444 | 288 | -70 | -3 | 777 | 283 | -463 | -495 | -50 |
| Percent Difference | -1% | -26% | -6% | 13% | 7% | 7% | -1% | 0% | 7% | 2% | -5% | -9% | -1% |
| Dry | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 6,105 | 6,188 | 3,875 | 4,080 | 3,430 | 3,783 | 5,380 | 7,151 | 11,171 | 13,761 | 10,000 | 4,803 | 4,829 |
| BA - Proposed Action (Q5) | 5,899 | 4,868 | 3,962 | 4,082 | 3,542 | 3,812 | 5,564 | 7,610 | 11,885 | 13,446 | 10,037 | 4,481 | 4,796 |
| Difference | -206 | -1,320 | 87 | 2 | 113 | 28 | 184 | 459 | 714 | -316 | 37 | -322 | -32 |
| Percent Difference | -3% | -21% | 2% | 0% | 3% | 1% | 3% | 6% | 6% | -2% | 0% | -7% | -1% |
| Critical | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 5,077 | 5,096 | 3,680 | 3,452 | 3,823 | 3,454 | 6,241 | 7,010 | 9,923 | 12,050 | 8,704 | 4,515 | 4,419 |
| BA - Proposed Action (Q5) | 5,214 | 4,592 | 3,553 | 3,817 | 3,353 | 3,730 | 6,322 | 7,119 | 10,521 | 11,565 | 8,962 | 4,223 | 4,418 |
| Difference | 137 | -504 | -127 | 365 | -469 | 276 | 81 | 109 | 598 | -485 | 258 | -293 | -1 |
| Percent Difference | 3% | -10% | -3% | 11% | -12% | 8% | 1% | 2% | 6% | -4% | 3% | -6% | 0% |

Sacramento River Below Keswick

BA - No Action Alternative (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 8,851 | 11,503 | 17,920 | 22,979 | 30,956 | 19,492 | 10,297 | 9,714 | 13,183 | 15,000 | 11,733 | 14,750 |
| 20% | 7,965 | 9,872 | 9,273 | 12,357 | 22,599 | 12,182 | 7,933 | 8,739 | 11,908 | 15,000 | 11,054 | 12,150 |
| 30% | 7,226 | 8,575 | 5,412 | 8,096 | 11,565 | 8,214 | 6,822 | 8,296 | 11,293 | 15,000 | 10,778 | 10,425 |
| 40% | 6,810 | 7,031 | 4,353 | 4,500 | 5,199 | 4,500 | 5,853 | 7,610 | 10,579 | 14,534 | 10,324 | 8,869 |
| 50% | 6,020 | 5,932 | 4,000 | 4,126 | 4,500 | 4,214 | 5,372 | 7,224 | 10,228 | 14,082 | 10,015 | 6,066 |
| 60% | 5,284 | 4,707 | 3,968 | 3,639 | 3,772 | 3,512 | 4,994 | 6,520 | 9,955 | 13,298 | 9,615 | 5,317 |
| 70% | 4,974 | 4,239 | 3,524 | 3,250 | 3,250 | 3,250 | 4,500 | 6,099 | 9,396 | 12,692 | 9,162 | 4,790 |
| 80% | 4,605 | 4,000 | 3,257 | 3,250 | 3,250 | 3,250 | 4,500 | 5,579 | 8,824 | 11,870 | 8,783 | 4,397 |
| 90% | 4,000 | 3,428 | 3,250 | 3,250 | 3,250 | 3,250 | 3,436 | 5,092 | 8,387 | 10,508 | 8,023 | 4,095 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 6,206 | 6,938 | 7,064 | 8,770 | 11,398 | 8,324 | 6,599 | 7,357 | 10,517 | 13,423 | 9,965 | 8,035 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 6,632 | 8,232 | 12,019 | 17,440 | 21,515 | 15,964 | 8,851 | 8,181 | 10,024 | 13,472 | 10,371 | 12,775 |
| Above Normal | 6,731 | 7,469 | 5,744 | 7,755 | 15,033 | 8,277 | 5,801 | 7,348 | 11,220 | 14,561 | 10,488 | 9,206 |
| Below Normal | 6,060 | 6,622 | 5,994 | 4,127 | 6,232 | 4,187 | 4,972 | 6,399 | 10,501 | 13,101 | 9,800 | 5,399 |
| Dry | 6,105 | 6,188 | 3,875 | 4,080 | 3,430 | 3,783 | 5,380 | 7,151 | 11,171 | 13,761 | 10,000 | 4,803 |
| Critical | 5,077 | 5,096 | 3,680 | 3,452 | 3,823 | 3,454 | 6,241 | 7,010 | 9,923 | 12,050 | 8,704 | 4,515 |

BA - Proposed Action (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 8,252 | 7,812 | 18,025 | 22,417 | 31,811 | 19,492 | 10,229 | 10,316 | 14,503 | 15,000 | 11,456 | 14,115 |
| 20% | 7,422 | 6,796 | 10,501 | 15,190 | 22,599 | 12,697 | 8,005 | 9,207 | 12,882 | 15,000 | 11,118 | 12,247 |
| 30% | 7,149 | 6,206 | 5,012 | 8,946 | 13,589 | 8,708 | 6,786 | 8,256 | 12,154 | 15,000 | 10,540 | 9,586 |
| 40% | 6,504 | 5,637 | 4,039 | 4,500 | 5,219 | 4,549 | 6,089 | 7,674 | 11,308 | 14,722 | 10,349 | 8,206 |
| 50% | 6,157 | 5,188 | 4,000 | 4,482 | 4,500 | 4,500 | 5,412 | 7,218 | 10,796 | 13,802 | 10,035 | 5,573 |
| 60% | 5,716 | 4,480 | 3,797 | 3,755 | 3,429 | 3,993 | 4,972 | 6,576 | 10,088 | 13,007 | 9,693 | 4,889 |
| 70% | 5,132 | 4,196 | 3,488 | 3,250 | 3,250 | 3,250 | 4,500 | 6,289 | 9,542 | 12,154 | 9,498 | 4,446 |
| 80% | 4,809 | 4,000 | 3,250 | 3,250 | 3,250 | 3,250 | 4,500 | 5,827 | 9,193 | 11,626 | 8,927 | 4,221 |
| 90% | 4,315 | 3,557 | 3,250 | 3,250 | 3,250 | 3,250 | 3,455 | 5,186 | 8,413 | 10,689 | 8,215 | 3,972 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 6,142 | 5,733 | 7,160 | 9,163 | 11,596 | 8,542 | 6,641 | 7,468 | 11,063 | 13,360 | 9,956 | 7,647 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 6,597 | 7,180 | 12,695 | 17,926 | 21,732 | 15,991 | 8,853 | 8,147 | 10,222 | 13,557 | 10,465 | 12,624 |
| Above Normal | 6,601 | 5,990 | 5,344 | 8,396 | 15,699 | 9,057 | 5,807 | 7,383 | 11,945 | 14,572 | 10,444 | 8,240 |
| Below Normal | 6,010 | 4,914 | 5,638 | 4,662 | 6,676 | 4,475 | 4,902 | 6,396 | 11,278 | 13,383 | 9,337 | 4,904 |
| Dry | 5,899 | 4,868 | 3,962 | 4,082 | 3,542 | 3,812 | 5,564 | 7,610 | 11,885 | 13,446 | 10,037 | 4,481 |
| Critical | 5,214 | 4,592 | 3,553 | 3,817 | 3,353 | 3,730 | 6,322 | 7,119 | 10,521 | 11,565 | 8,962 | 4,223 |

BA - Proposed Action (Q5) Minus BA - No Action Alternative (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|--------|-------|-------|-------|-----|-----|-----|-------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -600 | -3,691 | 105 | -562 | 856 | 0 | -68 | 601 | 1,320 | 0 | -277 | -635 |
| 20% | -544 | -3,076 | 1,228 | 2,834 | 0 | 515 | 73 | 469 | 974 | 0 | 64 | 97 |
| 30% | -77 | -2,370 | -400 | 849 | 2,024 | 495 | -35 | -40 | 860 | 0 | -238 | -840 |
| 40% | -306 | -1,395 | -314 | 0 | 20 | 49 | 236 | 64 | 729 | 188 | 26 | -663 |
| 50% | 137 | -744 | 0 | 356 | 0 | 286 | 40 | -5 | 568 | -280 | 19 | -493 |
| 60% | 432 | -227 | -171 | 117 | -344 | 481 | -22 | 56 | 133 | -291 | 78 | -428 |
| 70% | 157 | -43 | -35 | 0 | 0 | 0 | 0 | 189 | 146 | -538 | 336 | -344 |
| 80% | 204 | 0 | -7 | 0 | 0 | 0 | 0 | 248 | 368 | -244 | 144 | -176 |
| 90% | 315 | 129 | 0 | 0 | 0 | 0 | 19 | 94 | 26 | 181 | 191 | -123 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -64 | -1,205 | 96 | 393 | 198 | 218 | 42 | 111 | 546 | -63 | -10 | -387 |
| Water Year Types | | | | | | | | | | | | |
| Wet | -34 | -1,052 | 677 | 486 | 217 | 27 | 2 | -33 | 198 | 85 | 95 | -151 |
| Above Normal | -130 | -1,479 | -401 | 641 | 666 | 781 | 6 | 35 | 725 | 11 | -44 | -966 |
| Below Normal | -50 | -1,708 | -355 | 535 | 444 | 288 | -70 | -3 | 777 | 283 | -463 | -495 |
| Dry | -206 | -1,320 | 87 | 2 | 113 | 28 | 184 | 459 | 714 | -316 | 37 | -322 |
| Critical | 137 | -504 | -127 | 365 | -469 | 276 | 81 | 109 | 598 | -485 | 258 | -293 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Sacramento River Below Keswick (cfs)
 BA - No Action Alternative (Q5)

| Water Year Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|----------------------|---------|----------|----------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|-------------|
| 1922 Above Normal | 9,767 | 7,312 | 3,744 | 3,250 | 4,500 | 4,500 | 5,004 | 8,117 | 12,576 | 13,311 | 11,465 | 12,893 | 5,828 |
| 1923 Below Normal | 6,990 | 8,783 | 4,000 | 3,638 | 3,250 | 3,250 | 3,250 | 9,337 | 10,397 | 13,252 | 9,516 | 4,420 | 4,852 |
| 1924 Critical | 4,925 | 4,495 | 3,682 | 3,250 | 3,250 | 4,004 | 7,611 | 7,616 | 9,222 | 11,255 | 11,042 | 5,525 | 4,599 |
| 1925 Dry | 3,828 | 3,250 | 3,250 | 3,250 | 3,250 | 3,422 | 3,719 | 6,102 | 9,657 | 13,983 | 10,048 | 5,723 | 4,209 |
| 1926 Dry | 5,644 | 4,349 | 3,493 | 3,250 | 3,250 | 4,134 | 3,990 | 8,324 | 10,559 | 13,394 | 9,667 | 4,808 | 4,537 |
| 1927 Wet | 4,339 | 3,481 | 4,378 | 4,500 | 29,347 | 4,250 | 9,742 | 7,714 | 10,769 | 15,000 | 10,828 | 8,822 | 6,719 |
| 1928 Above Normal | 6,675 | 6,951 | 4,000 | 4,465 | 3,414 | 11,909 | 3,700 | 7,254 | 13,033 | 15,000 | 11,753 | 10,577 | 5,989 |
| 1929 Critical | 7,528 | 5,686 | 3,251 | 3,250 | 3,250 | 3,250 | 5,473 | 7,209 | 9,539 | 12,448 | 8,521 | 4,801 | 4,493 |
| 1930 Dry | 4,978 | 4,207 | 3,250 | 3,250 | 3,250 | 3,250 | 4,313 | 5,165 | 9,584 | 10,149 | 7,996 | 3,921 | 3,830 |
| 1931 Critical | 4,607 | 3,405 | 3,250 | 3,250 | 3,250 | 3,250 | 9,291 | 7,238 | 8,828 | 10,738 | 7,641 | 3,989 | 4,157 |
| 1932 Dry | 3,908 | 3,046 | 3,250 | 3,250 | 3,250 | 3,250 | 5,891 | 4,754 | 7,873 | 9,434 | 7,900 | 4,170 | 3,633 |
| 1933 Critical | 4,539 | 3,526 | 3,250 | 3,250 | 3,250 | 3,250 | 5,178 | 5,503 | 7,366 | 11,086 | 8,851 | 5,295 | 3,895 |
| 1934 Critical | 3,229 | 2,761 | 3,250 | 3,250 | 3,250 | 3,250 | 5,376 | 6,073 | 11,248 | 8,420 | 4,898 | 2,787 | 3,490 |
| 1935 Below Normal | 2,611 | 3,250 | 3,250 | 3,250 | 3,250 | 3,250 | 3,250 | 3,842 | 9,152 | 9,845 | 8,507 | 4,333 | 3,494 |
| 1936 Below Normal | 3,995 | 3,499 | 3,490 | 3,250 | 4,146 | 4,500 | 4,500 | 5,964 | 8,381 | 12,865 | 9,279 | 4,627 | 4,154 |
| 1937 Below Normal | 5,106 | 4,455 | 3,250 | 3,250 | 3,250 | 3,250 | 3,250 | 5,146 | 8,669 | 10,409 | 8,956 | 4,933 | 3,869 |
| 1938 Wet | 4,000 | 4,000 | 18,818 | 4,500 | 37,196 | 35,340 | 11,215 | 8,392 | 9,970 | 11,671 | 10,807 | 15,602 | 10,244 |
| 1939 Dry | 5,483 | 7,263 | 4,515 | 3,250 | 3,250 | 3,250 | 8,153 | 9,383 | 11,828 | 15,000 | 15,000 | 5,350 | 5,556 |
| 1940 Above Normal | 5,879 | 6,108 | 3,472 | 3,250 | 25,084 | 21,912 | 4,500 | 5,917 | 10,744 | 15,000 | 11,071 | 9,114 | 7,345 |
| 1941 Wet | 6,693 | 6,793 | 7,034 | 27,204 | 24,622 | 14,015 | 13,347 | 11,197 | 10,057 | 13,295 | 11,254 | 14,715 | 9,616 |
| 1942 Wet | 8,050 | 10,120 | 11,826 | 19,439 | 30,876 | 4,500 | 4,500 | 8,187 | 8,820 | 12,260 | 11,095 | 13,673 | 8,557 |
| 1943 Wet | 9,202 | 9,283 | 4,000 | 5,919 | 8,457 | 10,984 | 4,500 | 6,443 | 9,734 | 15,000 | 11,155 | 14,743 | 6,602 |
| 1944 Dry | 7,698 | 11,310 | 4,000 | 3,979 | 3,250 | 3,250 | 5,836 | 5,121 | 9,255 | 12,271 | 8,984 | 4,406 | 4,806 |
| 1945 Below Normal | 5,143 | 4,242 | 3,650 | 3,250 | 4,500 | 4,500 | 4,627 | 5,060 | 8,976 | 13,081 | 9,292 | 5,316 | 4,332 |
| 1946 Below Normal | 4,639 | 5,203 | 31,540 | 8,941 | 4,500 | 4,500 | 6,748 | 7,625 | 11,070 | 15,000 | 10,883 | 10,408 | 7,350 |
| 1947 Dry | 8,017 | 6,977 | 3,250 | 3,642 | 3,250 | 3,250 | 4,616 | 8,598 | 10,470 | 14,142 | 11,263 | 4,576 | 4,973 |
| 1948 Below Normal | 3,746 | 3,885 | 3,764 | 3,255 | 3,250 | 3,250 | 4,046 | 5,883 | 8,323 | 12,707 | 10,682 | 4,507 | 4,084 |
| 1949 Dry | 6,840 | 4,696 | 4,000 | 3,629 | 4,207 | 8,384 | 4,261 | 5,629 | 10,309 | 15,000 | 9,143 | 4,383 | 4,877 |
| 1950 Below Normal | 5,992 | 5,756 | 4,115 | 4,025 | 4,500 | 4,500 | 3,747 | 6,015 | 8,847 | 10,028 | 8,900 | 4,243 | 4,274 |
| 1951 Above Normal | 6,262 | 10,520 | 15,823 | 8,993 | 17,767 | 4,048 | 7,156 | 5,413 | 11,289 | 15,000 | 10,878 | 9,264 | 7,345 |
| 1952 Wet | 6,101 | 8,590 | 9,084 | 12,036 | 21,603 | 12,078 | 16,481 | 7,205 | 7,849 | 10,786 | 10,022 | 11,822 | 8,044 |
| 1953 Wet | 9,071 | 10,347 | 6,035 | 31,940 | 4,500 | 4,500 | 5,131 | 7,954 | 8,764 | 14,550 | 10,124 | 14,715 | 7,746 |
| 1954 Above Normal | 8,148 | 11,256 | 4,719 | 7,284 | 17,874 | 10,674 | 10,967 | 7,456 | 10,136 | 15,000 | 11,203 | 10,189 | 7,489 |
| 1955 Dry | 7,011 | 7,911 | 4,498 | 4,202 | 3,250 | 3,250 | 5,472 | 5,079 | 10,640 | 14,473 | 7,745 | 4,038 | 4,695 |
| 1956 Wet | 5,181 | 4,000 | 27,318 | 34,001 | 24,136 | 4,500 | 4,500 | 8,733 | 9,509 | 11,811 | 9,623 | 15,345 | 9,594 |
| 1957 Above Normal | 7,076 | 12,118 | 5,419 | 4,082 | 4,451 | 4,177 | 4,992 | 8,702 | 10,024 | 15,000 | 10,906 | 8,881 | 5,794 |
| 1958 Wet | 5,636 | 8,990 | 10,520 | 15,258 | 60,491 | 21,723 | 11,542 | 6,985 | 8,232 | 12,728 | 11,688 | 15,452 | 11,189 |
| 1959 Below Normal | 7,081 | 11,122 | 5,023 | 3,417 | 14,025 | 3,250 | 7,786 | 7,552 | 12,725 | 15,000 | 11,887 | 6,570 | 6,324 |
| 1960 Dry | 6,286 | 6,859 | 4,048 | 3,502 | 3,488 | 3,602 | 6,920 | 4,537 | 14,278 | 14,509 | 10,237 | 6,050 | 5,103 |
| 1961 Dry | 5,717 | 4,473 | 3,250 | 3,250 | 5,245 | 6,304 | 5,774 | 7,570 | 11,344 | 15,000 | 12,946 | 6,228 | 5,269 |
| 1962 Below Normal | 7,103 | 4,822 | 4,000 | 3,504 | 18,570 | 3,422 | 5,449 | 6,952 | 10,164 | 15,000 | 10,577 | 4,688 | 5,635 |
| 1963 Wet | 7,180 | 5,563 | 9,093 | 4,500 | 9,723 | 6,279 | 30,893 | 5,058 | 9,951 | 15,000 | 10,390 | 15,000 | 7,730 |
| 1964 Dry | 5,174 | 6,388 | 4,000 | 4,500 | 3,250 | 3,250 | 8,437 | 6,522 | 9,326 | 14,331 | 8,771 | 4,136 | 4,732 |
| 1965 Wet | 4,829 | 4,000 | 19,611 | 24,981 | 4,500 | 4,500 | 4,500 | 6,306 | 9,404 | 15,000 | 8,622 | 11,787 | 7,172 |
| 1966 Below Normal | 8,332 | 7,742 | 4,000 | 4,500 | 5,726 | 10,676 | 6,613 | 8,298 | 13,487 | 15,000 | 12,755 | 7,217 | 6,312 |
| 1967 Wet | 6,100 | 4,279 | 10,038 | 10,612 | 8,074 | 14,069 | 10,210 | 12,507 | 8,492 | 12,558 | 10,484 | 12,594 | 7,261 |
| 1968 Below Normal | 7,300 | 9,596 | 4,418 | 4,500 | 11,351 | 3,510 | 6,261 | 6,673 | 12,948 | 15,000 | 9,392 | 6,083 | 5,852 |
| 1969 Wet | 4,805 | 4,000 | 3,609 | 24,244 | 25,682 | 6,466 | 9,670 | 9,728 | 10,017 | 12,075 | 10,775 | 9,985 | 7,839 |
| 1970 Wet | 5,278 | 8,266 | 15,812 | 58,978 | 13,491 | 4,500 | 6,323 | 6,470 | 11,330 | 14,966 | 10,264 | 14,750 | 10,318 |
| 1971 Wet | 7,987 | 5,121 | 7,086 | 16,862 | 4,500 | 16,022 | 5,243 | 7,031 | 8,731 | 15,000 | 9,111 | 12,120 | 6,971 |
| 1972 Below Normal | 8,982 | 11,474 | 4,000 | 4,500 | 3,250 | 3,517 | 6,834 | 6,436 | 13,431 | 15,000 | 8,961 | 4,078 | 5,478 |
| 1973 Above Normal | 4,316 | 6,243 | 6,932 | 15,146 | 20,652 | 8,195 | 4,500 | 6,401 | 12,231 | 15,448 | 9,838 | 7,911 | 7,060 |
| 1974 Wet | 5,001 | 29,514 | 23,948 | 39,202 | 5,399 | 34,994 | 5,857 | 6,336 | 10,071 | 11,910 | 9,753 | 10,971 | 11,720 |
| 1975 Wet | 7,409 | 11,664 | 3,250 | 3,250 | 4,500 | 27,693 | 4,500 | 8,747 | 10,902 | 13,259 | 10,009 | 15,054 | 7,283 |
| 1976 Critical | 5,163 | 8,143 | 3,607 | 3,926 | 4,491 | 3,979 | 5,341 | 11,356 | 10,584 | 12,177 | 5,972 | 3,864 | 4,760 |
| 1977 Critical | 7,217 | 7,045 | 5,873 | 4,087 | 3,250 | 4,094 | 10,323 | 5,313 | 12,028 | 12,983 | 9,184 | 4,320 | 5,184 |
| 1978 Above Normal | 6,048 | 3,250 | 3,250 | 3,712 | 15,702 | 14,030 | 5,367 | 8,296 | 11,469 | 14,023 | 10,398 | 6,980 | 6,157 |
| 1979 Below Normal | 7,825 | 8,880 | 5,411 | 4,500 | 3,679 | 3,250 | 3,250 | 4,805 | 10,446 | 11,223 | 7,610 | 4,168 | 4,539 |
| 1980 Above Normal | 4,000 | 4,000 | 3,439 | 18,371 | 32,212 | 4,500 | 4,500 | 6,636 | 11,228 | 12,010 | 9,647 | 5,280 | 6,944 |
| 1981 Dry | 5,257 | 9,504 | 4,000 | 4,040 | 3,250 | 3,250 | 3,323 | 7,587 | 15,000 | 15,000 | 10,351 | 5,818 | 5,225 |
| 1982 Wet | 4,464 | 4,492 | 25,037 | 8,480 | 24,094 | 13,234 | 24,914 | 4,336 | 8,401 | 11,248 | 9,164 | 7,898 | 8,729 |
| 1983 Wet | 7,337 | 6,318 | 15,233 | 20,026 | 41,920 | 50,123 | 10,237 | 9,426 | 12,852 | 13,465 | 13,370 | 12,195 | 12,734 |
| 1984 Wet | 9,042 | 13,822 | 33,201 | 9,873 | 4,500 | 8,939 | 5,032 | 7,255 | 10,528 | 15,000 | 8,791 | 15,000 | 8,563 |
| 1985 Dry | 7,326 | 4,000 | 4,000 | 4,500 | 3,250 | 3,250 | 5,273 | 8,434 | 11,557 | 14,854 | 13,699 | 5,062 | 5,168 |
| 1986 Wet | 4,937 | 4,750 | 3,690 | 3,584 | 43,792 | 19,852 | 4,500 | 7,265 | 11,339 | 14,525 | 10,144 | 5,659 | 7,929 |
| 1987 Dry | 4,370 | 8,095 | 3,959 | 3,250 | 3,250 | 3,250 | 6,800 | 8,831 | 14,041 | 13,825 | 8,160 | 4,934 | 5,003 |
| 1988 Critical | 6,145 | 4,072 | 3,494 | 4,165 | 7,113 | 3,374 | 5,518 | 6,520 | 12,738 | 13,917 | 8,088 | 4,802 | 4,834 |
| 1989 Dry | 5,613 | 3,250 | 3,471 | 3,250 | 3,250 | 3,250 | 3,250 | 10,417 | 9,512 | 15,000 | 10,267 | 3,254 | 4,479 |
| 1990 Critical | 3,848 | 4,590 | 3,527 | 3,250 | 3,250 | 3,250 | 7,117 | 5,421 | 8,562 | 13,711 | 9,786 | 4,600 | 4,292 |
| 1991 Critical | 4,425 | 3,841 | 3,261 | 3,250 | 5,016 | 3,250 | 3,250 | 5,894 | 7,907 | 8,851 | 9,235 | 4,625 | 3,793 |
| 1992 Critical | 4,691 | 3,883 | 3,463 | 3,250 | 3,250 | 3,250 | 3,250 | 9,682 | 9,301 | 14,276 | 10,338 | 5,321 | 4,491 |
| 1993 Above Normal | 5,309 | 3,188 | 3,250 | 3,250 | 3,250 | 3,250 | 4,500 | 5,346 | 8,367 | 14,802 | 7,842 | 9,330 | 4,338 |
| 1994 Critical | 4,609 | 9,707 | 4,252 | 3,250 | 3,250 | 3,250 | 7,165 | 6,292 | 11,749 | 14,739 | 10,896 | 4,256 | 5,044 |
| 1995 Wet | 4,603 | 4,018 | 3,250 | 12,321 | 7,113 | 47,351 | 6,979 | 10,510 | 8,447 | 10,263 | 10,718 | 11,959 | 8,352 |
| 1996 Wet | 7,951 | 11,850 | 4,000 | 4,500 | 36,796 | 12,339 | 4,500 | 9,646 | 9,527 | 14,536 | 9,613 | 12,001 | 8,219 |
| 1997 Wet | 9,701 | 10,688 | 21,170 | 36,776 | 4,500 | 4,500 | 6,820 | 8,376 | 10,504 | 15,000 | 8,341 | 14,750 | 9,181 |
| 1998 Wet | 8,265 | 8,574 | 3,250 | 12,410 | 51,790 | 18,653 | 4,500 | 13,219 | 16,440 | 14,362 | 13,530 | 11,993 | 10,492 |
| 1999 Wet | 9,259 | 11,516 | 12,205 | 8,054 | 27,798 | 13,660 | 4,500 | 7,671 | 9,985 | 15,000 | 9,955 | 13,503 | 8,555 |
| 2000 Above Normal | 10,098 | 13,213 | 5,339 | 4,500 | 30,989 | 8,688 | 5,384 | 5,806 | 13,247 | 15,141 | 10,808 | 10,259 | 8,000 |
| 2001 Dry | 8,202 | 11,600 | 5,295 | 3,250 | 3,250 | 3,250 | 4,838 | 9,010 | 14,256 | 13,096 | 8,326 | 4,062 | 5,349 |
| 2002 Dry | 8,546 | 4,204 | 4,220 | 12,199 | 3,292 | 3,250 | 5,978 | 7,660 | 11,594 | 14,243 | 9,495 | 5,529 | 5,473 |
| 2003 Above Normal | | | | | | | | | | | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Sacramento River Below Keswick (cfs)
BA - Proposed Action (Q5)

| Water Year Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|----------------------|---------|----------|----------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|-------------|
| 1922 Above Normal | 10,284 | 5,182 | 3,744 | 3,250 | 4,500 | 4,500 | 5,011 | 8,111 | 12,578 | 13,337 | 11,467 | 12,078 | 5,686 |
| 1923 Below Normal | 7,444 | 6,048 | 4,000 | 3,638 | 3,250 | 3,250 | 3,250 | 9,347 | 10,407 | 13,220 | 9,625 | 4,425 | 4,723 |
| 1924 Critical | 6,200 | 4,575 | 3,654 | 3,250 | 3,250 | 4,746 | 7,644 | 8,091 | 10,266 | 11,506 | 11,457 | 5,568 | 4,863 |
| 1925 Dry | 3,796 | 3,250 | 3,250 | 3,250 | 3,250 | 3,422 | 3,719 | 6,130 | 10,893 | 12,500 | 10,095 | 5,755 | 4,196 |
| 1926 Dry | 5,754 | 4,358 | 3,493 | 3,250 | 3,250 | 4,134 | 3,990 | 9,838 | 11,317 | 11,669 | 9,656 | 4,156 | 4,537 |
| 1927 Wet | 5,133 | 3,481 | 4,378 | 4,500 | 28,705 | 4,250 | 9,795 | 7,714 | 10,810 | 14,099 | 11,121 | 8,474 | 6,679 |
| 1928 Above Normal | 7,356 | 4,000 | 4,000 | 4,465 | 3,414 | 15,581 | 3,700 | 7,231 | 14,273 | 15,000 | 9,627 | 9,268 | 5,945 |
| 1929 Critical | 7,498 | 4,620 | 3,251 | 3,250 | 3,250 | 3,250 | 5,488 | 7,863 | 10,063 | 11,225 | 11,143 | 5,091 | 4,603 |
| 1930 Dry | 4,872 | 4,506 | 3,250 | 3,250 | 3,250 | 3,250 | 4,315 | 5,184 | 9,410 | 9,854 | 8,122 | 3,941 | 3,823 |
| 1931 Critical | 5,561 | 3,627 | 3,250 | 3,250 | 3,250 | 3,250 | 9,292 | 7,251 | 8,926 | 10,837 | 7,644 | 4,105 | 4,248 |
| 1932 Dry | 2,653 | 3,046 | 3,250 | 3,250 | 3,250 | 3,250 | 5,891 | 4,754 | 7,941 | 9,201 | 7,885 | 4,174 | 3,545 |
| 1933 Critical | 4,541 | 3,527 | 3,250 | 3,250 | 3,250 | 4,092 | 6,348 | 5,732 | 9,544 | 10,647 | 8,250 | 3,250 | 3,974 |
| 1934 Critical | 2,615 | 2,761 | 3,250 | 3,250 | 3,250 | 3,250 | 5,376 | 6,072 | 11,955 | 8,458 | 4,548 | 2,784 | 3,475 |
| 1935 Below Normal | 2,469 | 3,250 | 3,250 | 3,250 | 3,250 | 3,250 | 3,250 | 3,841 | 9,191 | 10,201 | 8,638 | 4,325 | 3,517 |
| 1936 Below Normal | 3,989 | 3,499 | 3,490 | 3,250 | 4,146 | 4,500 | 4,500 | 5,958 | 8,373 | 11,397 | 9,294 | 4,659 | 4,065 |
| 1937 Below Normal | 5,122 | 4,463 | 3,250 | 3,250 | 3,250 | 3,250 | 3,250 | 5,158 | 8,725 | 11,509 | 9,141 | 4,910 | 3,952 |
| 1938 Wet | 4,302 | 4,000 | 18,198 | 4,500 | 37,196 | 35,340 | 11,215 | 8,390 | 9,968 | 11,669 | 10,890 | 15,605 | 10,229 |
| 1939 Dry | 5,479 | 5,747 | 3,250 | 3,250 | 3,250 | 3,250 | 8,410 | 9,670 | 12,151 | 15,000 | 12,109 | 5,202 | 5,253 |
| 1940 Above Normal | 6,488 | 6,433 | 3,472 | 3,250 | 27,865 | 21,912 | 4,500 | 6,490 | 11,411 | 13,576 | 11,453 | 8,360 | 7,528 |
| 1941 Wet | 7,047 | 5,193 | 9,031 | 27,204 | 24,622 | 14,015 | 13,347 | 11,197 | 10,056 | 14,315 | 11,419 | 14,001 | 9,696 |
| 1942 Wet | 8,006 | 6,683 | 13,129 | 19,439 | 30,876 | 4,500 | 4,500 | 8,187 | 8,821 | 12,964 | 11,546 | 13,531 | 8,492 |
| 1943 Wet | 7,205 | 6,329 | 4,000 | 9,383 | 8,457 | 10,984 | 4,500 | 6,443 | 9,637 | 15,000 | 11,116 | 14,131 | 6,472 |
| 1944 Dry | 7,448 | 8,241 | 4,000 | 3,979 | 3,250 | 3,250 | 5,853 | 5,190 | 11,274 | 11,525 | 10,437 | 4,425 | 4,778 |
| 1945 Below Normal | 5,621 | 4,242 | 3,650 | 3,250 | 4,500 | 4,500 | 4,627 | 5,064 | 8,940 | 14,952 | 9,503 | 4,898 | 4,463 |
| 1946 Below Normal | 6,576 | 4,000 | 29,102 | 8,941 | 4,500 | 4,500 | 6,765 | 7,643 | 11,592 | 15,228 | 10,757 | 9,263 | 7,219 |
| 1947 Dry | 8,357 | 5,423 | 3,250 | 3,683 | 3,250 | 3,250 | 4,666 | 9,322 | 10,300 | 15,000 | 12,029 | 4,606 | 5,043 |
| 1948 Below Normal | 3,850 | 3,885 | 3,764 | 3,255 | 3,250 | 3,250 | 4,048 | 5,358 | 8,323 | 13,813 | 10,203 | 4,775 | 4,113 |
| 1949 Dry | 6,452 | 4,125 | 4,000 | 3,629 | 4,207 | 8,896 | 4,774 | 6,181 | 12,578 | 14,826 | 9,603 | 4,886 | 5,097 |
| 1950 Below Normal | 6,290 | 4,526 | 3,929 | 4,025 | 4,500 | 4,500 | 3,747 | 6,013 | 9,194 | 10,467 | 8,693 | 4,204 | 4,240 |
| 1951 Above Normal | 6,597 | 7,585 | 15,823 | 8,993 | 17,767 | 4,048 | 7,140 | 5,393 | 12,456 | 15,000 | 10,839 | 8,689 | 7,222 |
| 1952 Wet | 5,318 | 5,725 | 12,217 | 12,036 | 21,603 | 11,584 | 16,022 | 7,205 | 7,853 | 10,787 | 10,021 | 13,133 | 8,038 |
| 1953 Wet | 7,347 | 6,585 | 10,127 | 31,940 | 4,500 | 4,500 | 5,116 | 7,964 | 8,764 | 15,000 | 9,962 | 14,692 | 7,681 |
| 1954 Above Normal | 6,176 | 7,129 | 4,000 | 13,734 | 17,874 | 10,674 | 10,967 | 7,037 | 12,277 | 15,000 | 11,436 | 9,561 | 7,553 |
| 1955 Dry | 6,138 | 4,000 | 4,498 | 4,202 | 3,250 | 3,250 | 6,592 | 5,694 | 11,178 | 14,403 | 8,658 | 4,046 | 4,597 |
| 1956 Wet | 5,978 | 4,000 | 26,935 | 34,001 | 24,136 | 4,500 | 4,500 | 8,733 | 9,505 | 12,983 | 9,686 | 15,354 | 9,655 |
| 1957 Above Normal | 5,722 | 7,854 | 4,182 | 4,082 | 4,451 | 9,872 | 5,094 | 8,603 | 10,550 | 15,000 | 10,285 | 7,590 | 5,648 |
| 1958 Wet | 6,966 | 7,712 | 11,566 | 15,277 | 60,491 | 21,723 | 11,542 | 6,985 | 8,232 | 13,701 | 11,376 | 15,406 | 11,298 |
| 1959 Below Normal | 5,997 | 6,692 | 4,376 | 7,318 | 15,684 | 3,250 | 7,735 | 7,505 | 15,000 | 15,000 | 11,121 | 3,688 | 6,197 |
| 1960 Dry | 7,261 | 5,200 | 4,048 | 3,502 | 3,488 | 3,602 | 6,109 | 5,973 | 14,649 | 14,647 | 9,051 | 4,968 | 4,997 |
| 1961 Dry | 7,153 | 4,473 | 3,250 | 3,250 | 7,174 | 6,304 | 7,204 | 7,579 | 12,926 | 15,000 | 12,467 | 4,694 | 5,524 |
| 1962 Below Normal | 6,623 | 4,377 | 4,000 | 3,488 | 19,103 | 3,422 | 5,444 | 6,944 | 11,059 | 15,000 | 9,724 | 4,618 | 5,603 |
| 1963 Wet | 8,444 | 5,563 | 9,093 | 4,500 | 8,197 | 6,279 | 30,893 | 5,059 | 10,004 | 15,000 | 10,387 | 15,000 | 7,726 |
| 1964 Dry | 4,351 | 4,000 | 4,000 | 4,500 | 3,250 | 3,250 | 8,435 | 6,557 | 10,114 | 14,684 | 10,601 | 4,139 | 4,723 |
| 1965 Wet | 6,240 | 4,000 | 17,621 | 24,981 | 4,500 | 4,500 | 4,500 | 6,301 | 9,446 | 15,000 | 8,609 | 10,159 | 7,041 |
| 1966 Below Normal | 7,656 | 4,583 | 4,000 | 8,103 | 6,637 | 10,676 | 6,008 | 8,252 | 15,000 | 15,000 | 9,760 | 5,579 | 6,124 |
| 1967 Wet | 7,862 | 4,279 | 11,061 | 10,612 | 8,683 | 14,682 | 10,210 | 12,507 | 8,492 | 12,552 | 10,479 | 14,061 | 7,590 |
| 1968 Below Normal | 6,509 | 5,645 | 4,000 | 4,500 | 14,469 | 3,510 | 6,252 | 6,690 | 15,000 | 15,000 | 8,208 | 5,032 | 5,709 |
| 1969 Wet | 6,204 | 4,000 | 3,609 | 23,441 | 25,682 | 6,466 | 9,670 | 9,364 | 10,002 | 12,093 | 10,942 | 9,809 | 7,853 |
| 1970 Wet | 5,278 | 5,764 | 18,230 | 58,978 | 13,491 | 4,500 | 6,320 | 6,434 | 14,384 | 15,000 | 9,311 | 14,080 | 10,401 |
| 1971 Wet | 7,407 | 5,236 | 6,222 | 16,862 | 4,500 | 16,022 | 5,818 | 6,476 | 9,276 | 15,000 | 9,638 | 10,690 | 6,869 |
| 1972 Below Normal | 7,601 | 8,711 | 4,000 | 4,500 | 3,250 | 7,542 | 6,502 | 6,957 | 14,246 | 15,000 | 8,741 | 4,050 | 5,522 |
| 1973 Above Normal | 4,604 | 6,200 | 6,932 | 15,146 | 20,652 | 8,195 | 4,500 | 6,419 | 13,867 | 15,000 | 9,794 | 6,570 | 7,063 |
| 1974 Wet | 5,121 | 29,913 | 23,948 | 39,202 | 5,399 | 34,994 | 5,857 | 6,344 | 10,082 | 11,847 | 9,752 | 11,018 | 11,751 |
| 1975 Wet | 5,007 | 7,565 | 3,250 | 3,250 | 9,924 | 28,273 | 4,500 | 8,747 | 10,803 | 13,546 | 9,947 | 15,001 | 7,233 |
| 1976 Critical | 5,085 | 5,710 | 3,394 | 3,926 | 4,491 | 3,979 | 5,380 | 11,383 | 11,011 | 12,761 | 6,812 | 3,872 | 4,715 |
| 1977 Critical | 7,149 | 5,606 | 4,897 | 5,000 | 3,250 | 4,561 | 9,818 | 5,270 | 12,562 | 13,107 | 10,415 | 3,512 | 5,154 |
| 1978 Above Normal | 5,714 | 3,734 | 3,250 | 3,712 | 15,479 | 14,030 | 5,367 | 8,296 | 11,468 | 14,731 | 10,537 | 6,100 | 6,153 |
| 1979 Below Normal | 8,400 | 4,881 | 4,128 | 4,500 | 3,679 | 3,250 | 3,250 | 4,809 | 12,846 | 11,578 | 7,316 | 4,232 | 4,409 |
| 1980 Above Normal | 5,077 | 4,014 | 3,439 | 19,618 | 32,212 | 4,500 | 4,500 | 6,650 | 11,251 | 12,038 | 9,670 | 5,657 | 7,116 |
| 1981 Dry | 5,523 | 6,256 | 4,000 | 4,040 | 3,250 | 3,250 | 3,350 | 7,675 | 15,000 | 15,000 | 10,386 | 4,304 | 4,967 |
| 1982 Wet | 4,464 | 8,413 | 25,089 | 8,480 | 24,094 | 13,234 | 24,914 | 4,332 | 8,398 | 11,658 | 9,184 | 8,576 | 9,031 |
| 1983 Wet | 6,264 | 6,318 | 15,233 | 20,026 | 41,920 | 50,123 | 10,237 | 9,426 | 12,852 | 13,465 | 13,370 | 12,195 | 12,668 |
| 1984 Wet | 9,042 | 13,822 | 33,201 | 9,873 | 4,500 | 8,939 | 5,030 | 7,253 | 12,182 | 15,000 | 10,202 | 15,000 | 8,748 |
| 1985 Dry | 5,730 | 4,000 | 4,000 | 4,500 | 3,250 | 3,250 | 4,900 | 7,764 | 11,837 | 15,000 | 10,898 | 4,378 | 4,820 |
| 1986 Wet | 6,013 | 4,357 | 3,690 | 3,584 | 45,287 | 19,852 | 4,500 | 7,265 | 11,344 | 12,504 | 10,042 | 6,431 | 7,970 |
| 1987 Dry | 4,436 | 7,064 | 3,959 | 3,250 | 3,250 | 3,250 | 7,180 | 10,465 | 13,249 | 13,792 | 10,536 | 4,449 | 5,136 |
| 1988 Critical | 6,056 | 4,025 | 3,494 | 4,165 | 3,250 | 4,634 | 5,704 | 7,013 | 13,642 | 11,967 | 10,027 | 4,863 | 4,779 |
| 1989 Dry | 5,550 | 3,250 | 3,471 | 3,250 | 3,250 | 3,250 | 3,250 | 10,615 | 10,789 | 12,959 | 8,487 | 3,422 | 4,339 |
| 1990 Critical | 4,757 | 4,583 | 3,447 | 3,250 | 3,250 | 3,250 | 7,115 | 5,418 | 9,199 | 12,850 | 9,310 | 4,330 | 4,281 |
| 1991 Critical | 4,343 | 4,420 | 3,250 | 6,712 | 3,250 | 3,250 | 3,250 | 5,889 | 7,903 | 8,492 | 7,142 | 4,157 | 3,757 |
| 1992 Critical | 4,821 | 5,750 | 3,250 | 3,250 | 3,250 | 3,250 | 3,250 | 9,131 | 9,264 | 11,935 | 10,563 | 4,879 | 4,405 |
| 1993 Above Normal | 4,937 | 5,231 | 3,250 | 3,250 | 3,250 | 3,250 | 4,500 | 5,638 | 8,367 | 15,000 | 10,401 | 7,478 | 4,514 |
| 1994 Critical | 3,948 | 5,903 | 4,252 | 3,250 | 3,250 | 3,250 | 7,204 | 6,316 | 11,916 | 15,000 | 10,232 | 4,265 | 4,767 |
| 1995 Wet | 4,792 | 4,031 | 3,250 | 17,763 | 7,113 | 47,351 | 6,979 | 10,510 | 8,447 | 10,297 | 11,411 | 12,455 | 8,773 |
| 1996 Wet | 7,232 | 7,238 | 6,052 | 6,158 | 37,081 | 12,339 | 4,500 | 9,646 | 9,525 | 14,637 | 9,610 | 12,325 | 8,170 |
| 1997 Wet | 8,647 | 6,953 | 25,927 | 36,776 | 4,500 | 4,500 | 6,719 | 8,461 | 10,441 | 15,000 | 8,231 | 13,280 | 9,087 |
| 1998 Wet | 6,955 | 7,567 | 3,250 | 15,256 | 51,790 | 18,653 | 4,500 | 13,219 | 16,440 | 14,362 | 13,530 | 11,993 | 10,527 |
| 1999 Wet | 9,259 | 11,957 | 11,778 | 8,054 | 27,798 | 13,660 | 4,500 | 7,671 | 10,000 | 15,000 | 10,320 | 11,819 | 8,479 |
| 2000 Above Normal | 9,381 | 9,275 | 4,000 | 4,500 | 36,419 | 8,688 | 5,362 | 5,892 | 14,554 | 15,000 | 10,357 | 8,574 | 7,897 |
| 2001 Dry | 7,256 | 6,484 | 4,186 | 3,250 | 3,250 | 3,250 | 4,962 | 9,967 | 14,760 | 12,160 | 10,190 | 3,670 | 5,049 |
| 2002 Dry | 7,980 | 4,204 | 8,154 | 12,199 | 3,392 | 3,250 | 6,552 | 8,424 | 13,571 | 14,802 | 9,449 | 5,434 | 5,910 |
| 2003 Above Normal | 6,8 | | | | | | | | | | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Sacramento River Below Keswick (cfs)
 Difference Between BA - Proposed Action (Q5) and BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|---------------|--------------|---------|----------|----------|---------|----------|-------|-------|-------|-------|--------|--------|-----------|-------------|
| 1922 | Above Normal | 516 | -2,130 | 0 | 0 | 0 | 0 | 7 | -7 | 2 | 26 | 2 | -815 | -142 |
| 1923 | Below Normal | 454 | -2,735 | 0 | 0 | 0 | 0 | 0 | 11 | 10 | -32 | 108 | 5 | -129 |
| 1924 | Critical | 1,275 | 79 | -29 | 0 | 0 | 742 | 33 | 475 | 1,044 | 250 | 415 | 43 | 264 |
| 1925 | Dry | -32 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 1,236 | -1,482 | 47 | 32 | -13 |
| 1926 | Dry | 111 | 9 | 0 | 0 | 0 | 0 | 0 | 1,514 | 757 | -1,726 | -11 | -653 | 0 |
| 1927 | Wet | 794 | 0 | 0 | 0 | -642 | 0 | 53 | 0 | 41 | -901 | 293 | -348 | -39 |
| 1928 | Above Normal | 682 | -2,951 | 0 | 0 | 0 | 3,673 | 0 | -22 | 1,240 | 0 | -2,125 | -1,309 | -44 |
| 1929 | Critical | -30 | -1,066 | 0 | 0 | 0 | 0 | 16 | 654 | 523 | -1,223 | 2,622 | 290 | 110 |
| 1930 | Dry | -106 | 298 | 0 | 0 | 0 | 0 | 3 | 19 | -174 | -295 | 126 | 20 | -7 |
| 1931 | Critical | 955 | 222 | 0 | 0 | 0 | 0 | 1 | 13 | 99 | 98 | 4 | 115 | 92 |
| 1932 | Dry | -1,255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 68 | -233 | -15 | 4 | -88 |
| 1933 | Critical | 2 | 0 | 0 | 0 | 0 | 842 | 1,170 | 229 | 2,178 | -439 | -601 | -2,045 | 80 |
| 1934 | Critical | -614 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 707 | 38 | -350 | -4 | -15 |
| 1935 | Below Normal | -142 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 39 | 356 | 131 | -8 | 23 |
| 1936 | Below Normal | -6 | 0 | 0 | 0 | 0 | 0 | 0 | -6 | -7 | -1,468 | 15 | 32 | -89 |
| 1937 | Below Normal | 16 | 8 | 0 | 0 | 0 | 0 | 0 | 12 | 55 | 1,099 | 184 | -23 | 83 |
| 1938 | Wet | 302 | 0 | -621 | 0 | 0 | 0 | 0 | -2 | -2 | -2 | 82 | 3 | -15 |
| 1939 | Dry | -4 | -1,516 | -1,265 | 0 | 0 | 0 | 257 | 287 | 323 | 0 | -2,891 | -148 | -303 |
| 1940 | Above Normal | 609 | 325 | 0 | 0 | 2,781 | 0 | 0 | 573 | 667 | -1,424 | 382 | -753 | 183 |
| 1941 | Wet | 354 | -1,599 | 1,997 | 0 | 0 | 0 | 0 | 0 | -1 | 1,020 | 165 | -715 | 80 |
| 1942 | Wet | -45 | -3,437 | 1,303 | 0 | 0 | 0 | 0 | 0 | 1 | 704 | 451 | -142 | -64 |
| 1943 | Wet | -1,997 | -2,955 | 0 | 3,464 | 0 | 0 | 0 | 0 | -97 | 0 | -39 | -612 | -130 |
| 1944 | Dry | -250 | -3,069 | 0 | 0 | 0 | 0 | 16 | 70 | 2,019 | -746 | 1,453 | 19 | -28 |
| 1945 | Below Normal | 478 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | -36 | 1,871 | 211 | -418 | 131 |
| 1946 | Below Normal | 1,937 | -1,203 | -2,438 | 0 | 0 | 0 | 17 | 19 | 522 | 228 | -126 | -1,146 | -131 |
| 1947 | Dry | 340 | -1,554 | 0 | 41 | 0 | 0 | 50 | 724 | -171 | 858 | 767 | 31 | 70 |
| 1948 | Below Normal | 103 | 0 | 0 | 0 | 0 | 0 | 2 | -525 | 0 | 1,106 | -479 | 268 | 29 |
| 1949 | Dry | -388 | -571 | 0 | 0 | 0 | 511 | 513 | 552 | 2,268 | -174 | 459 | 503 | 221 |
| 1950 | Below Normal | 298 | -1,230 | -186 | 0 | 0 | 0 | 0 | -2 | 347 | 440 | -207 | -39 | -34 |
| 1951 | Above Normal | 335 | -2,935 | 0 | 0 | 0 | 0 | -16 | -20 | 1,166 | 0 | -39 | -574 | -123 |
| 1952 | Wet | -783 | -2,864 | 3,133 | 0 | 0 | -495 | -459 | 0 | 3 | 0 | -1 | 1,312 | -6 |
| 1953 | Wet | -1,724 | -3,762 | 4,093 | 0 | 0 | 0 | -14 | 10 | 0 | 450 | -162 | -59 | -64 |
| 1954 | Above Normal | -1,972 | -4,128 | -719 | 6,450 | 0 | 0 | 0 | -418 | 2,141 | 0 | 234 | -628 | 64 |
| 1955 | Dry | -873 | -3,911 | 0 | 0 | 0 | 0 | 1,120 | 615 | 538 | 0 | 913 | 8 | -98 |
| 1956 | Wet | 797 | 0 | -383 | 0 | 0 | 0 | 0 | 0 | -4 | 1,172 | 62 | 9 | 102 |
| 1957 | Above Normal | -1,355 | -4,264 | -1,237 | 0 | 0 | 5,695 | 102 | -99 | 525 | 0 | -620 | -1,291 | -147 |
| 1958 | Wet | 1,329 | -1,278 | 1,046 | 19 | 0 | 0 | 0 | 0 | 0 | 972 | -312 | -46 | 109 |
| 1959 | Below Normal | -1,084 | -4,430 | -647 | 3,901 | 1,659 | 0 | -51 | -47 | 2,275 | 0 | -766 | -2,882 | -127 |
| 1960 | Dry | 975 | -1,659 | 0 | 0 | 0 | 0 | -811 | 1,436 | 371 | 138 | -1,187 | -1,081 | -106 |
| 1961 | Dry | 1,436 | 0 | 0 | 0 | 1,929 | 0 | 1,430 | 9 | 1,582 | 0 | -478 | -1,533 | 255 |
| 1962 | Below Normal | -480 | -446 | 0 | -16 | 532 | 0 | -5 | -8 | 894 | 0 | -853 | -70 | -32 |
| 1963 | Wet | 1,265 | 0 | 0 | 0 | -1,525 | 0 | 0 | 1 | 53 | 0 | -3 | 0 | -4 |
| 1964 | Dry | -823 | -2,388 | 0 | 0 | 0 | 0 | -2 | 36 | 788 | 353 | 1,830 | 4 | -9 |
| 1965 | Wet | 1,411 | 0 | -1,990 | 0 | 0 | 0 | 0 | -5 | 41 | 0 | -13 | -1,628 | -131 |
| 1966 | Below Normal | -676 | -3,159 | 0 | 3,603 | 911 | 0 | -604 | -46 | 1,513 | 0 | -2,996 | -1,638 | -188 |
| 1967 | Wet | 1,763 | 0 | 1,023 | 0 | 609 | 613 | 0 | 0 | 0 | -6 | -5 | 1,467 | 329 |
| 1968 | Below Normal | -792 | -3,951 | -418 | 0 | 3,119 | 0 | -9 | 17 | 2,052 | 0 | -1,184 | -1,051 | -143 |
| 1969 | Wet | 1,399 | 0 | 0 | -803 | 0 | 0 | 0 | -365 | -15 | 18 | 167 | -176 | 14 |
| 1970 | Wet | 0 | -2,502 | 2,419 | 0 | 0 | 0 | -3 | -36 | 3,054 | 34 | -953 | -670 | 83 |
| 1971 | Wet | -580 | 115 | -863 | 0 | 0 | 0 | 575 | -555 | 544 | 0 | 527 | -1,429 | -102 |
| 1972 | Below Normal | -1,381 | -2,763 | 0 | 0 | 0 | 4,025 | -332 | 521 | 815 | 0 | -220 | -28 | 44 |
| 1973 | Above Normal | 288 | -43 | 0 | 0 | 0 | 0 | 0 | 18 | 1,636 | -448 | -45 | -1,341 | 3 |
| 1974 | Wet | 119 | 399 | 0 | 0 | 0 | 0 | 0 | 8 | 11 | -63 | -1 | 47 | 31 |
| 1975 | Wet | -2,402 | -4,100 | 0 | 0 | 5,424 | 579 | 0 | 0 | -99 | 288 | -62 | -53 | -50 |
| 1976 | Critical | -77 | -2,433 | -213 | 0 | 0 | 0 | 39 | 27 | 427 | 584 | 841 | 9 | -45 |
| 1977 | Critical | -69 | -1,439 | -977 | 913 | 0 | 468 | -505 | -43 | 535 | 124 | 1,230 | -808 | -31 |
| 1978 | Above Normal | -334 | 484 | 0 | 0 | -223 | 0 | 0 | -2 | 708 | 139 | -880 | -4 | -4 |
| 1979 | Below Normal | 575 | -3,999 | -1,283 | 0 | 0 | 0 | 0 | 4 | 2,399 | 355 | -294 | 64 | -131 |
| 1980 | Above Normal | 1,077 | 14 | 0 | 1,247 | 0 | 0 | 0 | 15 | 22 | 28 | 23 | 377 | 172 |
| 1981 | Dry | 267 | -3,248 | 0 | 0 | 0 | 0 | 27 | 88 | 0 | 0 | 36 | -1,515 | -258 |
| 1982 | Wet | 0 | 3,922 | 52 | 0 | 0 | 0 | 0 | -4 | -4 | 410 | 20 | 678 | 303 |
| 1983 | Wet | -1,074 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -66 |
| 1984 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | -2 | -2 | 1,654 | 0 | 1,411 | 0 | 185 |
| 1985 | Dry | -1,596 | 0 | 0 | 0 | 0 | 0 | -373 | -670 | 280 | 146 | -2,801 | -684 | -349 |
| 1986 | Wet | 1,075 | -394 | 0 | 0 | 1,495 | 0 | 0 | 0 | 4 | -2,021 | -102 | 772 | 41 |
| 1987 | Dry | 65 | -1,031 | 0 | 0 | 0 | 0 | 380 | 1,634 | -792 | -34 | 2,376 | -486 | 134 |
| 1988 | Critical | -89 | -47 | 0 | 0 | -3,863 | 1,260 | 186 | 494 | 904 | -1,950 | 1,940 | 61 | -55 |
| 1989 | Dry | -63 | 0 | 0 | 0 | 0 | 0 | 0 | 198 | 1,278 | -2,041 | -1,781 | 168 | -141 |
| 1990 | Critical | 909 | -7 | -80 | 0 | 0 | 0 | -3 | -3 | 638 | -862 | -476 | -270 | -10 |
| 1991 | Critical | -82 | 580 | -11 | 3,462 | -1,766 | 0 | 0 | -5 | -4 | -359 | -2,093 | -469 | -36 |
| 1992 | Critical | 130 | 1,868 | -213 | 0 | 0 | 0 | 0 | -551 | -37 | -2,341 | 225 | -442 | -86 |
| 1993 | Above Normal | -372 | 2,043 | 0 | 0 | 0 | 0 | 0 | 291 | 0 | 198 | 2,559 | -1,853 | 176 |
| 1994 | Critical | -662 | -3,804 | 0 | 0 | 0 | 0 | 39 | 24 | 167 | 261 | -664 | 9 | -278 |
| 1995 | Wet | 189 | 13 | 0 | 5,442 | 0 | 0 | 0 | 0 | 0 | 34 | 692 | 497 | 421 |
| 1996 | Wet | -719 | -4,613 | 2,052 | 1,658 | 286 | 0 | 0 | 0 | -3 | 101 | -4 | 324 | -49 |
| 1997 | Wet | -1,054 | -3,735 | 4,756 | 0 | 0 | 0 | -101 | 85 | -63 | 0 | -110 | -1,470 | -93 |
| 1998 | Wet | -1,310 | -1,007 | 0 | 2,847 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| 1999 | Wet | 0 | 441 | -426 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 365 | -1,684 | -77 |
| 2000 | Above Normal | -717 | -3,938 | -1,339 | 0 | 5,430 | 0 | -22 | 87 | 1,307 | -141 | -451 | -1,685 | -103 |
| 2001 | Dry | -945 | -5,116 | -1,109 | 0 | 0 | 0 | 124 | 957 | 504 | -935 | 1,865 | -392 | -301 |
| 2002 | Dry | -566 | 0 | 3,934 | 0 | 100 | 0 | 574 | 763 | 1,977 | 558 | -46 | -95 | 437 |
| 2003 | Above Normal | -317 | -226 | -1,512 | 0 | 0 | 0 | 0 | 0 | -2 | 1,184 | -586 | -844 | -139 |
| Average: | | -64 | -1,205 | 96 | 393 | 198 | 218 | 42 | 111 | 546 | -63 | -10 | -387 | -7 |
| Minimum: | | -2,402 | -5,116 | -2,438 | -803 | -3,863 | -495 | -811 | -670 | -792 | -2,341 | -2,996 | -2,882 | -349 |
| Maximum: | | 1,937 | 3,922 | 4,756 | 6,450 | 5,430 | 5,695 | 1,430 | 1,634 | 3,054 | 1,871 | 2,622 | 1,467 | 437 |
| Wet: | | -34 | -1,052 | 677 | 486 | 217 | 27 | 2 | -33 | 198 | 85 | 95 | -151 | 32 |
| Above Normal: | | -130 | -1,479 | -401 | 641 | 666 | 781 | 6 | 35 | 725 | 11 | -44 | -966 | -9 |
| Below Normal: | | -50 | -1,708 | -355 | 535 | 444 | 288 | -70 | -3 | 777 | 283 | -463 | -495 | -50 |
| Dry: | | -206 | -1,320 | 87 | 2 | 113 | 28 | 184 | 459 | 714 | -316 | 37 | -322 | -32 |
| Critical: | | 137 | -504 | -127 | 365 | -469 | 276 | 81 | 109 | 598 | -485 | 258 | -293 | -1 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
Comparison of No Action Alternative (Q5 Central Tendency Climate Change) and Proposed Action (Q5 Central Tendency Climate Change)

Long-Term and Water Year-Type Average of Feather River Below Thermalito Afterbay Under BA - No Action Alternative (Q5) and BA - Proposed Action (Q5)

| Analysis Period | Average Flow (cfs) | | | | | | | | | | | | Total (TAF) |
|---------------------------------|--------------------|----------|----------|---------|----------|--------|-------|-------|-------|-------|--------|-----------|-------------|
| | October | November | December | January | February | March | April | May | June | July | August | September | |
| Long-Term | | | | | | | | | | | | | |
| Full Simulation Period | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,557 | 2,011 | 2,777 | 4,336 | 5,166 | 6,047 | 3,073 | 3,465 | 3,348 | 7,306 | 4,805 | 5,344 | 3,033 |
| BA - Proposed Action (Q5) | 2,696 | 1,976 | 2,767 | 4,270 | 5,513 | 6,310 | 3,164 | 3,428 | 4,218 | 7,272 | 4,695 | 3,790 | 3,024 |
| Difference | 138 | -35 | -11 | -66 | 347 | 263 | 91 | -36 | 870 | -33 | -110 | -1,553 | -9 |
| Percent Difference | 5% | -2% | 0% | -2% | 7% | 4% | 3% | -1% | 26% | 0% | -2% | -29% | 0% |
| Water Year-Types | | | | | | | | | | | | | |
| Wet | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,806 | 2,629 | 4,111 | 10,241 | 11,892 | 13,211 | 6,655 | 6,406 | 3,712 | 7,856 | 5,871 | 9,183 | 5,090 |
| BA - Proposed Action (Q5) | 2,928 | 2,502 | 4,193 | 9,986 | 12,817 | 13,664 | 6,652 | 6,379 | 4,693 | 8,205 | 5,654 | 6,964 | 5,091 |
| Difference | 122 | -127 | 82 | -256 | 924 | 453 | -2 | -27 | 981 | 348 | -217 | -2,219 | 1 |
| Percent Difference | 4% | -5% | 2% | -2% | 8% | 3% | 0% | 0% | 26% | 4% | -4% | -24% | 0% |
| Above Normal | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,547 | 1,976 | 2,684 | 2,464 | 3,948 | 7,031 | 1,884 | 3,396 | 3,189 | 9,486 | 7,608 | 7,989 | 3,283 |
| BA - Proposed Action (Q5) | 2,583 | 1,894 | 2,843 | 2,515 | 4,477 | 8,085 | 2,238 | 3,360 | 5,119 | 9,585 | 7,200 | 5,828 | 3,374 |
| Difference | 36 | -83 | 159 | 51 | 529 | 1,054 | 354 | -37 | 1,931 | 98 | -409 | -2,161 | 90 |
| Percent Difference | 1% | -4% | 6% | 2% | 13% | 15% | 19% | -1% | 61% | 1% | -5% | -27% | 3% |
| Below Normal | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,704 | 1,841 | 2,179 | 1,468 | 1,463 | 1,704 | 1,132 | 1,366 | 3,615 | 8,967 | 6,705 | 4,312 | 2,274 |
| BA - Proposed Action (Q5) | 2,866 | 1,826 | 1,921 | 1,468 | 1,457 | 1,407 | 1,184 | 1,396 | 5,215 | 9,022 | 5,548 | 1,518 | 2,114 |
| Difference | 162 | -14 | -258 | 0 | -6 | -297 | 52 | 30 | 1,600 | 55 | -1,156 | -2,794 | -159 |
| Percent Difference | 6% | -1% | -12% | 0% | 0% | -17% | 5% | 2% | 44% | 1% | -17% | -65% | -7% |
| Dry | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 2,584 | 1,645 | 2,034 | 1,394 | 1,556 | 1,455 | 1,379 | 2,034 | 3,446 | 6,618 | 2,109 | 1,538 | 1,684 |
| BA - Proposed Action (Q5) | 2,728 | 1,757 | 2,176 | 1,394 | 1,556 | 1,508 | 1,409 | 1,908 | 3,458 | 6,043 | 2,951 | 1,108 | 1,697 |
| Difference | 144 | 112 | 143 | 0 | 0 | 53 | 30 | -126 | 13 | -574 | 841 | -430 | 13 |
| Percent Difference | 6% | 7% | 7% | 0% | 0% | 4% | 2% | -6% | 0% | -9% | 40% | -28% | 1% |
| Critical | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,816 | 1,455 | 1,794 | 1,175 | 1,543 | 1,494 | 1,308 | 1,755 | 2,259 | 3,027 | 1,522 | 1,290 | 1,236 |
| BA - Proposed Action (Q5) | 2,058 | 1,420 | 1,472 | 1,226 | 1,391 | 1,524 | 1,477 | 1,756 | 2,267 | 2,742 | 1,736 | 1,552 | 1,247 |
| Difference | 242 | -35 | -323 | 51 | -152 | 29 | 169 | 1 | 7 | -285 | 214 | 262 | 11 |
| Percent Difference | 13% | -2% | -18% | 4% | -10% | 2% | 13% | 0% | 0% | -9% | 14% | 20% | 1% |

Feather River Below Thermalito Afterbay

BA - No Action Alternative (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|--------|--------|--------|-------|-------|-------|--------|-------|--------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 4,000 | 2,500 | 5,355 | 13,983 | 15,346 | 15,231 | 8,728 | 8,482 | 5,479 | 10,000 | 8,163 | 10,000 |
| 20% | 4,000 | 2,500 | 3,777 | 2,404 | 10,124 | 9,084 | 3,694 | 5,749 | 4,295 | 9,925 | 7,724 | 9,681 |
| 30% | 4,000 | 2,500 | 1,925 | 1,700 | 3,877 | 6,889 | 2,720 | 2,809 | 3,920 | 9,318 | 7,427 | 8,223 |
| 40% | 4,000 | 2,033 | 1,700 | 1,700 | 1,700 | 4,630 | 1,822 | 2,446 | 3,664 | 8,955 | 6,424 | 7,673 |
| 50% | 1,897 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,111 | 1,931 | 3,265 | 8,517 | 5,015 | 5,650 |
| 60% | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,463 | 2,796 | 8,160 | 3,920 | 2,542 |
| 70% | 1,676 | 1,200 | 1,700 | 1,200 | 1,700 | 1,700 | 1,000 | 1,000 | 2,527 | 6,247 | 2,186 | 1,322 |
| 80% | 1,200 | 1,200 | 1,200 | 900 | 1,200 | 1,000 | 1,000 | 1,000 | 1,931 | 4,307 | 1,586 | 1,145 |
| 90% | 905 | 900 | 900 | 900 | 900 | 800 | 753 | 1,000 | 1,302 | 1,998 | 1,213 | 1,000 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 2,557 | 2,011 | 2,777 | 4,336 | 5,166 | 6,047 | 3,073 | 3,465 | 3,348 | 7,306 | 4,805 | 5,344 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 2,806 | 2,629 | 4,111 | 10,241 | 11,892 | 13,211 | 6,655 | 6,406 | 3,712 | 7,856 | 5,871 | 9,183 |
| Above Normal | 2,547 | 1,976 | 2,684 | 2,464 | 3,948 | 7,031 | 1,884 | 3,396 | 3,189 | 9,486 | 7,608 | 7,989 |
| Below Normal | 2,704 | 1,841 | 2,179 | 1,468 | 1,463 | 1,704 | 1,132 | 1,366 | 3,615 | 8,967 | 6,705 | 4,312 |
| Dry | 2,584 | 1,645 | 2,034 | 1,394 | 1,556 | 1,455 | 1,379 | 2,034 | 3,446 | 6,618 | 2,109 | 1,538 |
| Critical | 1,816 | 1,455 | 1,794 | 1,175 | 1,543 | 1,494 | 1,308 | 1,755 | 2,259 | 3,027 | 1,522 | 1,290 |

BA - Proposed Action (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|-------|--------|--------|--------|-------|-------|-------|--------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 4,000 | 2,500 | 4,942 | 12,055 | 17,796 | 15,229 | 8,726 | 8,472 | 7,440 | 10,000 | 9,074 | 9,955 |
| 20% | 4,000 | 2,500 | 3,397 | 2,800 | 11,450 | 10,921 | 3,794 | 5,732 | 6,824 | 10,000 | 7,874 | 6,220 |
| 30% | 4,000 | 2,500 | 1,803 | 1,700 | 4,622 | 7,675 | 2,878 | 2,689 | 5,886 | 10,000 | 6,362 | 5,474 |
| 40% | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 4,878 | 1,966 | 2,416 | 4,964 | 9,622 | 4,778 | 4,145 |
| 50% | 2,779 | 1,700 | 1,700 | 1,700 | 1,700 | 1,894 | 1,332 | 2,024 | 3,929 | 8,447 | 4,236 | 2,028 |
| 60% | 1,850 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,446 | 2,787 | 7,388 | 3,666 | 1,601 |
| 70% | 1,700 | 1,200 | 1,697 | 1,200 | 1,700 | 1,700 | 1,000 | 1,000 | 2,507 | 6,801 | 2,626 | 1,224 |
| 80% | 1,200 | 1,164 | 1,200 | 1,080 | 1,200 | 1,000 | 1,000 | 1,000 | 1,923 | 2,825 | 1,665 | 1,098 |
| 90% | 975 | 900 | 900 | 900 | 900 | 800 | 776 | 1,000 | 1,306 | 2,011 | 1,143 | 1,000 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 2,696 | 1,976 | 2,767 | 4,270 | 5,513 | 6,310 | 3,164 | 3,428 | 4,218 | 7,272 | 4,695 | 3,790 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 2,928 | 2,502 | 4,193 | 9,986 | 12,817 | 13,664 | 6,652 | 6,379 | 4,693 | 8,205 | 5,654 | 6,964 |
| Above Normal | 2,583 | 1,894 | 2,843 | 2,515 | 4,477 | 8,085 | 2,238 | 3,360 | 5,119 | 9,585 | 7,200 | 5,828 |
| Below Normal | 2,866 | 1,826 | 1,921 | 1,468 | 1,457 | 1,407 | 1,184 | 1,396 | 5,215 | 9,022 | 5,548 | 1,518 |
| Dry | 2,728 | 1,757 | 2,176 | 1,394 | 1,556 | 1,508 | 1,409 | 1,908 | 3,458 | 6,043 | 2,951 | 1,108 |
| Critical | 2,058 | 1,420 | 1,472 | 1,226 | 1,391 | 1,524 | 1,477 | 1,756 | 2,267 | 2,742 | 1,736 | 1,552 |

BA - Proposed Action (Q5) Minus BA - No Action Alternative (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|------|------|--------|-------|-------|-----|------|-------|--------|--------|--------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 0 | 0 | -413 | -1,928 | 2,451 | -1 | -1 | -11 | 1,961 | 0 | 911 | -45 |
| 20% | 0 | 0 | -380 | 396 | 1,326 | 1,837 | 100 | -17 | 2,529 | 75 | 150 | -3,462 |
| 30% | 0 | 0 | -122 | 0 | 745 | 786 | 158 | -120 | 1,966 | 682 | -1,065 | -2,749 |
| 40% | 0 | 467 | 0 | 0 | 0 | 248 | 145 | -30 | 1,300 | 668 | -1,646 | -3,528 |
| 50% | 882 | 0 | 0 | 0 | 0 | 194 | 220 | 93 | 664 | -70 | -778 | -3,622 |
| 60% | 150 | 0 | 0 | 0 | 0 | 0 | 0 | -17 | -9 | -772 | -254 | -941 |
| 70% | 24 | 0 | -3 | 0 | 0 | 0 | 0 | 0 | -20 | 554 | 441 | -98 |
| 80% | 0 | -36 | 0 | 180 | 0 | 0 | 0 | 0 | -8 | -1,482 | 78 | -48 |
| 90% | 70 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 4 | 13 | -70 | 0 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 138 | -35 | -11 | -66 | 347 | 263 | 91 | -36 | 870 | -33 | -110 | -1,553 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 122 | -127 | 82 | -256 | 924 | 453 | -2 | -27 | 981 | 348 | -217 | -2,219 |
| Above Normal | 36 | -83 | 159 | 51 | 529 | 1,054 | 354 | -37 | 1,931 | 98 | -409 | -2,161 |
| Below Normal | 162 | -14 | -258 | 0 | -6 | -297 | 52 | 30 | 1,600 | 55 | -1,156 | -2,794 |
| Dry | 144 | 112 | 143 | 0 | 0 | 53 | 30 | -126 | 13 | -574 | 841 | -430 |
| Critical | 242 | -35 | -323 | 51 | -152 | 29 | 169 | 1 | 7 | -285 | 214 | 262 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Feather River Below Thermalito Afterbay (cfs)
 BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|------------|--------------|---------|----------|----------|---------|----------|--------|--------|--------|-------|--------|--------|-----------|-------------|
| 1922 | Above Normal | 4,000 | 2,500 | 2,903 | 1,700 | 1,700 | 5,788 | 2,719 | 17,444 | 5,099 | 9,060 | 7,591 | 10,000 | 4,285 |
| 1923 | Below Normal | 4,000 | 2,500 | 1,700 | 1,700 | 1,777 | 1,700 | 1,000 | 1,000 | 2,765 | 8,637 | 7,609 | 5,714 | 2,431 |
| 1924 | Critical | 1,770 | 1,700 | 1,784 | 1,700 | 1,700 | 2,506 | 1,746 | 2,010 | 2,137 | 1,093 | 982 | 1,228 | 1,231 |
| 1925 | Dry | 900 | 900 | 914 | 900 | 900 | 800 | 750 | 1,134 | 3,302 | 6,142 | 2,203 | 2,310 | 1,281 |
| 1926 | Dry | 900 | 900 | 1,683 | 900 | 900 | 1,129 | 750 | 4,360 | 4,581 | 6,433 | 4,187 | 1,252 | 1,700 |
| 1927 | Wet | 900 | 900 | 4,058 | 900 | 1,517 | 7,876 | 4,295 | 2,906 | 1,000 | 10,000 | 8,160 | 7,692 | 3,050 |
| 1928 | Above Normal | 4,000 | 2,080 | 2,796 | 1,700 | 4,499 | 4,368 | 1,000 | 2,044 | 4,042 | 10,000 | 8,172 | 7,759 | 3,178 |
| 1929 | Critical | 1,700 | 2,026 | 1,700 | 1,700 | 1,700 | 1,700 | 1,838 | 1,808 | 2,225 | 1,613 | 1,364 | 773 | 1,215 |
| 1930 | Dry | 900 | 900 | 3,472 | 900 | 3,808 | 800 | 750 | 957 | 4,466 | 8,573 | 4,588 | 3,993 | 2,054 |
| 1931 | Critical | 916 | 900 | 900 | 900 | 900 | 800 | 2,726 | 2,168 | 2,527 | 2,683 | 2,273 | 986 | 1,129 |
| 1932 | Dry | 1,343 | 973 | 3,779 | 900 | 900 | 2,632 | 1,032 | 750 | 1,580 | 7,794 | 1,326 | 783 | 1,451 |
| 1933 | Critical | 900 | 1,275 | 900 | 900 | 900 | 4,681 | 840 | 2,452 | 1,912 | 1,915 | 907 | 773 | 1,114 |
| 1934 | Critical | 1,299 | 1,023 | 1,749 | 900 | 3,554 | 800 | 2,418 | 2,744 | 3,347 | 2,704 | 1,625 | 1,174 | 1,398 |
| 1935 | Below Normal | 1,458 | 900 | 900 | 900 | 900 | 800 | 1,000 | 1,000 | 5,666 | 8,112 | 6,573 | 5,627 | 2,049 |
| 1936 | Below Normal | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,000 | 1,404 | 8,965 | 7,696 | 5,673 | 2,184 |
| 1937 | Below Normal | 4,000 | 1,772 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,000 | 6,888 | 5,833 | 4,495 | 1,054 | 1,988 |
| 1938 | Wet | 1,700 | 1,700 | 1,700 | 1,700 | 8,952 | 23,316 | 15,012 | 15,650 | 6,041 | 7,374 | 6,354 | 10,000 | 6,000 |
| 1939 | Dry | 4,000 | 2,500 | 4,101 | 1,700 | 1,700 | 1,700 | 2,238 | 3,054 | 2,778 | 4,615 | 2,317 | 1,000 | 1,922 |
| 1940 | Above Normal | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 21,049 | 3,709 | 1,000 | 3,797 | 10,000 | 8,466 | 8,154 | 3,785 |
| 1941 | Wet | 4,000 | 2,379 | 1,700 | 1,700 | 14,353 | 12,259 | 3,218 | 7,313 | 1,259 | 8,542 | 7,161 | 10,000 | 4,424 |
| 1942 | Wet | 4,000 | 2,500 | 1,700 | 14,011 | 22,340 | 3,665 | 10,110 | 5,409 | 4,310 | 8,440 | 7,913 | 10,000 | 5,618 |
| 1943 | Wet | 4,000 | 2,500 | 1,700 | 4,859 | 8,359 | 16,739 | 3,104 | 1,000 | 2,338 | 10,000 | 8,232 | 10,000 | 4,393 |
| 1944 | Dry | 4,000 | 2,500 | 1,777 | 1,700 | 1,700 | 1,700 | 1,867 | 1,753 | 4,656 | 8,474 | 1,743 | 1,265 | 2,010 |
| 1945 | Below Normal | 1,745 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,511 | 3,656 | 8,970 | 7,575 | 2,055 | 2,126 |
| 1946 | Below Normal | 1,922 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,000 | 3,869 | 10,000 | 8,641 | 7,897 | 2,595 |
| 1947 | Dry | 2,820 | 2,039 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 3,006 | 3,176 | 4,552 | 1,520 | 1,183 | 1,580 |
| 1948 | Below Normal | 1,200 | 1,200 | 1,200 | 1,345 | 1,200 | 1,000 | 1,000 | 1,000 | 1,000 | 9,031 | 8,164 | 5,122 | 1,975 |
| 1949 | Dry | 1,770 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,405 | 1,451 | 3,743 | 4,926 | 1,528 | 1,049 | 1,473 |
| 1950 | Below Normal | 900 | 900 | 900 | 900 | 900 | 800 | 1,000 | 1,000 | 3,095 | 8,872 | 5,980 | 6,080 | 1,899 |
| 1951 | Above Normal | 1,873 | 1,700 | 1,700 | 11,852 | 11,509 | 4,683 | 1,000 | 1,000 | 3,389 | 10,000 | 8,261 | 8,016 | 3,899 |
| 1952 | Wet | 4,000 | 2,500 | 1,700 | 1,700 | 12,573 | 9,047 | 19,401 | 18,811 | 6,784 | 5,125 | 4,597 | 9,380 | 5,754 |
| 1953 | Wet | 4,000 | 2,500 | 1,700 | 14,766 | 1,700 | 6,848 | 3,940 | 2,423 | 3,866 | 9,646 | 8,439 | 10,000 | 4,243 |
| 1954 | Above Normal | 4,000 | 2,500 | 5,115 | 2,818 | 1,700 | 1,700 | 1,430 | 2,546 | 4,284 | 10,000 | 8,154 | 8,000 | 3,170 |
| 1955 | Dry | 4,000 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,759 | 1,325 | 2,632 | 4,411 | 1,889 | 1,000 | 1,545 |
| 1956 | Wet | 1,700 | 1,700 | 1,700 | 22,907 | 13,557 | 7,814 | 2,624 | 8,954 | 2,524 | 8,902 | 7,551 | 10,000 | 5,443 |
| 1957 | Above Normal | 4,000 | 2,500 | 5,956 | 1,700 | 3,585 | 1,700 | 1,000 | 1,000 | 3,235 | 9,883 | 7,542 | 8,040 | 3,032 |
| 1958 | Wet | 1,700 | 2,035 | 1,700 | 1,700 | 6,310 | 13,444 | 8,465 | 8,123 | 4,034 | 8,493 | 3,828 | 9,833 | 4,198 |
| 1959 | Below Normal | 4,000 | 2,500 | 5,653 | 1,700 | 1,700 | 1,700 | 1,993 | 2,287 | 2,611 | 10,000 | 7,848 | 2,093 | 2,682 |
| 1960 | Dry | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,000 | 3,012 | 1,515 | 3,811 | 9,128 | 2,930 | 1,189 | 1,735 |
| 1961 | Dry | 1,200 | 1,200 | 1,302 | 1,200 | 1,200 | 1,038 | 1,335 | 1,588 | 2,673 | 6,482 | 1,886 | 1,016 | 1,341 |
| 1962 | Below Normal | 928 | 900 | 900 | 900 | 900 | 800 | 750 | 1,258 | 3,911 | 9,646 | 7,835 | 5,377 | 2,070 |
| 1963 | Wet | 1,200 | 1,200 | 1,200 | 1,258 | 9,755 | 8,263 | 13,849 | 2,563 | 4,413 | 9,735 | 7,664 | 9,913 | 4,250 |
| 1964 | Dry | 4,000 | 1,804 | 1,700 | 1,700 | 1,700 | 1,700 | 2,579 | 2,601 | 2,068 | 8,656 | 1,216 | 1,000 | 1,868 |
| 1965 | Wet | 1,700 | 1,700 | 1,700 | 21,981 | 5,753 | 5,280 | 6,778 | 2,216 | 2,879 | 10,000 | 6,492 | 10,000 | 4,626 |
| 1966 | Below Normal | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 2,798 | 3,782 | 10,000 | 6,950 | 1,325 | 2,380 |
| 1967 | Wet | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 10,858 | 2,867 | 7,780 | 5,633 | 3,634 | 5,267 | 9,614 | 3,280 |
| 1968 | Below Normal | 4,000 | 2,500 | 3,776 | 1,700 | 1,700 | 5,860 | 2,107 | 1,411 | 3,995 | 10,000 | 7,414 | 6,268 | 3,083 |
| 1969 | Wet | 2,195 | 1,700 | 1,700 | 8,605 | 15,554 | 8,129 | 7,775 | 10,661 | 2,106 | 7,675 | 4,262 | 9,729 | 4,790 |
| 1970 | Wet | 4,000 | 2,500 | 1,700 | 43,030 | 10,678 | 3,632 | 1,561 | 1,000 | 3,024 | 9,987 | 7,693 | 10,000 | 5,978 |
| 1971 | Wet | 1,700 | 2,628 | 2,128 | 2,128 | 2,128 | 4,426 | 3,304 | 7,373 | 3,617 | 9,105 | 8,319 | 10,000 | 3,445 |
| 1972 | Below Normal | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,852 | 3,294 | 9,221 | 4,762 | 1,000 | 2,095 |
| 1973 | Above Normal | 1,700 | 1,700 | 1,700 | 1,700 | 3,125 | 7,255 | 1,000 | 1,069 | 4,113 | 9,247 | 6,037 | 7,022 | 2,762 |
| 1974 | Wet | 3,825 | 1,700 | 4,695 | 22,519 | 6,313 | 28,157 | 8,840 | 4,508 | 2,399 | 9,546 | 6,552 | 9,572 | 6,597 |
| 1975 | Wet | 4,000 | 2,613 | 1,902 | 1,700 | 1,700 | 5,154 | 1,097 | 8,146 | 3,998 | 8,911 | 5,353 | 9,887 | 3,304 |
| 1976 | Critical | 4,000 | 2,759 | 4,977 | 1,700 | 1,700 | 1,700 | 1,000 | 2,309 | 1,944 | 6,259 | 1,000 | 1,000 | 1,846 |
| 1977 | Critical | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,000 | 759 | 776 | 1,495 | 1,481 | 1,476 | 1,485 | 873 |
| 1978 | Above Normal | 954 | 900 | 900 | 900 | 900 | 8,936 | 4,064 | 1,000 | 1,000 | 8,150 | 7,198 | 7,596 | 2,581 |
| 1979 | Below Normal | 4,000 | 2,500 | 5,277 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 4,668 | 8,253 | 2,320 | 5,087 | 2,273 |
| 1980 | Above Normal | 1,700 | 1,700 | 1,700 | 1,700 | 14,860 | 5,697 | 1,000 | 1,000 | 1,000 | 8,201 | 6,441 | 7,593 | 3,152 |
| 1981 | Dry | 4,000 | 2,500 | 3,262 | 1,700 | 1,700 | 1,700 | 1,000 | 1,401 | 4,167 | 8,395 | 1,000 | 1,000 | 1,930 |
| 1982 | Wet | 1,200 | 1,200 | 12,715 | 9,632 | 20,526 | 13,590 | 21,317 | 6,397 | 1,710 | 7,774 | 4,455 | 8,714 | 6,529 |
| 1983 | Wet | 1,700 | 1,700 | 5,705 | 14,362 | 28,333 | 39,935 | 9,469 | 9,576 | 7,411 | 1,000 | 1,000 | 3,806 | 7,411 |
| 1984 | Wet | 4,000 | 14,155 | 31,043 | 6,720 | 9,663 | 9,138 | 1,000 | 1,000 | 3,901 | 10,000 | 6,315 | 10,000 | 6,479 |
| 1985 | Dry | 4,000 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 2,531 | 3,667 | 9,689 | 1,853 | 1,000 | 1,958 |
| 1986 | Wet | 1,700 | 1,700 | 1,700 | 1,700 | 21,072 | 23,337 | 1,000 | 1,000 | 1,000 | 10,000 | 6,858 | 10,000 | 4,832 |
| 1987 | Dry | 4,000 | 2,500 | 1,828 | 1,700 | 1,700 | 1,700 | 1,601 | 3,031 | 3,343 | 2,192 | 1,289 | 1,102 | 1,571 |
| 1988 | Critical | 1,272 | 1,200 | 1,200 | 1,200 | 2,232 | 1,346 | 750 | 1,813 | 2,802 | 3,473 | 1,755 | 1,548 | 1,245 |
| 1989 | Dry | 900 | 900 | 900 | 900 | 900 | 800 | 750 | 2,424 | 5,121 | 8,760 | 3,853 | 5,247 | 1,905 |
| 1990 | Critical | 2,814 | 900 | 1,079 | 900 | 900 | 800 | 1,125 | 750 | 1,143 | 4,152 | 1,211 | 1,297 | 1,035 |
| 1991 | Critical | 1,022 | 900 | 1,351 | 900 | 1,636 | 800 | 750 | 750 | 2,951 | 3,114 | 2,033 | 1,398 | 1,061 |
| 1992 | Critical | 900 | 1,072 | 900 | 900 | 900 | 800 | 750 | 2,483 | 2,865 | 2,823 | 2,357 | 1,887 | 1,129 |
| 1993 | Above Normal | 1,378 | 2,023 | 900 | 900 | 900 | 12,615 | 3,685 | 6,221 | 2,556 | 9,293 | 7,765 | 7,973 | 3,419 |
| 1994 | Critical | 4,000 | 2,500 | 3,792 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 1,762 | 5,012 | 1,278 | 1,932 | 1,557 |
| 1995 | Wet | 2,042 | 1,200 | 1,200 | 1,200 | 13,496 | 38,180 | 12,996 | 14,273 | 7,921 | 1,634 | 3,312 | 9,375 | 6,426 |
| 1996 | Wet | 4,000 | 2,500 | 1,700 | 4,099 | 23,769 | 10,838 | 5,939 | 8,554 | 1,697 | 9,553 | 6,010 | 9,185 | 5,269 |
| 1997 | Wet | 4,000 | 2,500 | 10,873 | 45,770 | 11,504 | 4,930 | 1,000 | 1,613 | 2,728 | 8,448 | 5,443 | 9,649 | 6,569 |
| 1998 | Wet | 4,000 | 2,500 | 2,189 | 1,700 | 17,221 | 15,934 | 3,061 | 8,314 | 8,783 | 1,018 | 1,000 | 3,470 | 4,117 |
| 1999 | Wet | 4,000 | 6,441 | 5,389 | 13,917 | 20,379 | 12,689 | 1,000 | 1,000 | 1,149 | 9,727 | 4,408 | 8,945 | 5,319 |
| 2000 | Above Normal | 4,000 | 3,213 | 5,643 | 1,700 | 1,700 | 7,310 | 1,000 | 1,000 | 4,190 | 10,000 | 7,809 | 7,553 | 3,351 |
| 2001 | Dry | 4,000 | 2,500 | 2,688 | 1,700 | 1,700 | 1,700 | 1,000 | 2,729 | 3,463 | 1,531 | 1,000 | 1,000 | 1,512 |
| 2002 | Dry | 2,578 | 1,200 | 1,200 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 2,795 | 8,363 | 1,644 | 1,293 | 1,485</ |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Feather River Below Thermalito Afterbay (cfs)
 BA - Proposed Action (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|------------|--------------|---------|----------|----------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|-------------|
| 1922 | Above Normal | 4,000 | 2,500 | 2,903 | 1,700 | 1,700 | 5,790 | 2,719 | 17,443 | 5,098 | 10,000 | 8,257 | 6,410 | 4,170 |
| 1923 | Below Normal | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,000 | 1,000 | 10,000 | 8,840 | 1,000 | 2,201 |
| 1924 | Critical | 2,518 | 1,722 | 1,785 | 1,700 | 1,700 | 2,877 | 2,047 | 2,003 | 2,782 | 2,385 | 1,093 | 1,228 | 1,444 |
| 1925 | Dry | 900 | 900 | 901 | 900 | 900 | 800 | 750 | 1,105 | 1,799 | 3,785 | 3,652 | 773 | 1,042 |
| 1926 | Dry | 1,564 | 900 | 1,674 | 900 | 900 | 2,088 | 750 | 2,916 | 4,941 | 7,593 | 4,322 | 1,854 | 1,847 |
| 1927 | Wet | 900 | 900 | 4,054 | 900 | 2,210 | 7,871 | 4,292 | 2,900 | 1,398 | 9,678 | 7,852 | 4,055 | 2,856 |
| 1928 | Above Normal | 4,000 | 2,500 | 2,796 | 1,700 | 4,497 | 7,658 | 1,000 | 2,072 | 7,460 | 10,000 | 4,649 | 4,813 | 3,219 |
| 1929 | Critical | 3,399 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,836 | 1,815 | 2,384 | 1,621 | 1,544 | 773 | 1,321 |
| 1930 | Dry | 900 | 900 | 3,469 | 900 | 3,805 | 800 | 750 | 1,446 | 5,778 | 7,027 | 5,435 | 773 | 1,928 |
| 1931 | Critical | 2,666 | 900 | 900 | 900 | 900 | 800 | 3,122 | 2,167 | 5,251 | 2,681 | 2,135 | 2,117 | 1,318 |
| 1932 | Dry | 1,368 | 1,029 | 3,946 | 900 | 900 | 2,624 | 1,025 | 750 | 1,883 | 1,614 | 3,722 | 1,599 | 1,299 |
| 1933 | Critical | 1,169 | 1,287 | 900 | 900 | 900 | 4,679 | 837 | 2,450 | 1,905 | 1,938 | 1,213 | 1,948 | 1,220 |
| 1934 | Critical | 1,299 | 1,109 | 1,965 | 900 | 3,497 | 800 | 2,835 | 2,743 | 3,345 | 2,712 | 1,568 | 1,161 | 1,434 |
| 1935 | Below Normal | 1,459 | 900 | 900 | 900 | 900 | 800 | 1,000 | 1,000 | 7,245 | 7,131 | 3,924 | 1,541 | 1,677 |
| 1936 | Below Normal | 4,000 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,000 | 4,970 | 9,132 | 4,000 | 1,177 | 2,053 |
| 1937 | Below Normal | 4,000 | 2,500 | 4,697 | 1,700 | 1,700 | 1,700 | 1,000 | 1,000 | 5,836 | 7,161 | 4,039 | 1,692 | 2,245 |
| 1938 | Wet | 1,989 | 1,700 | 1,700 | 1,700 | 11,416 | 23,316 | 15,012 | 15,650 | 6,041 | 8,193 | 7,907 | 10,000 | 6,300 |
| 1939 | Dry | 4,000 | 2,500 | 3,799 | 1,700 | 1,700 | 1,700 | 2,767 | 3,179 | 2,729 | 3,812 | 1,688 | 1,000 | 1,852 |
| 1940 | Above Normal | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 21,111 | 3,703 | 1,000 | 4,743 | 10,000 | 7,011 | 4,415 | 3,533 |
| 1941 | Wet | 4,000 | 2,500 | 1,700 | 1,700 | 18,671 | 12,251 | 3,217 | 7,307 | 1,255 | 10,000 | 9,812 | 10,000 | 4,923 |
| 1942 | Wet | 4,000 | 2,500 | 1,700 | 9,777 | 22,333 | 3,654 | 10,103 | 5,397 | 4,293 | 10,000 | 5,639 | 6,183 | 5,083 |
| 1943 | Wet | 3,489 | 2,500 | 1,700 | 9,703 | 8,358 | 16,734 | 3,104 | 1,000 | 1,267 | 10,000 | 10,000 | 7,410 | 4,550 |
| 1944 | Dry | 4,000 | 2,500 | 3,184 | 1,700 | 1,700 | 1,700 | 1,866 | 2,045 | 2,874 | 6,982 | 2,981 | 1,272 | 1,993 |
| 1945 | Below Normal | 1,745 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,510 | 5,706 | 10,000 | 4,810 | 1,162 | 2,088 |
| 1946 | Below Normal | 1,916 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,000 | 7,910 | 8,588 | 4,325 | 4,143 | 2,259 |
| 1947 | Dry | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 2,356 | 2,083 | 10,000 | 1,630 | 1,179 | 1,916 |
| 1948 | Below Normal | 1,200 | 1,200 | 1,200 | 1,347 | 1,200 | 1,000 | 1,000 | 1,000 | 10,000 | 10,000 | 9,093 | 1,000 | 1,846 |
| 1949 | Dry | 2,892 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,401 | 1,446 | 2,344 | 2,607 | 3,936 | 1,068 | 1,465 |
| 1950 | Below Normal | 900 | 900 | 900 | 900 | 900 | 800 | 1,000 | 1,000 | 7,425 | 8,847 | 4,414 | 1,107 | 1,763 |
| 1951 | Above Normal | 1,841 | 1,700 | 3,703 | 12,460 | 11,509 | 4,683 | 1,000 | 1,000 | 7,337 | 8,834 | 5,267 | 3,702 | 3,780 |
| 1952 | Wet | 4,000 | 2,500 | 1,700 | 3,263 | 15,756 | 9,039 | 19,399 | 18,809 | 6,782 | 8,189 | 7,288 | 10,000 | 6,423 |
| 1953 | Wet | 4,000 | 2,500 | 1,700 | 8,355 | 1,700 | 6,831 | 3,931 | 2,409 | 3,847 | 8,225 | 4,377 | 6,275 | 3,287 |
| 1954 | Above Normal | 4,000 | 2,500 | 5,047 | 2,819 | 1,700 | 6,596 | 5,697 | 2,109 | 7,447 | 9,337 | 8,367 | 4,420 | 3,642 |
| 1955 | Dry | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,757 | 1,324 | 2,551 | 2,655 | 2,845 | 1,000 | 1,538 |
| 1956 | Wet | 1,700 | 1,700 | 1,700 | 23,277 | 13,557 | 7,828 | 2,624 | 8,954 | 2,524 | 10,000 | 8,671 | 5,992 | 5,364 |
| 1957 | Above Normal | 4,000 | 2,500 | 5,716 | 1,700 | 3,586 | 1,700 | 1,000 | 1,000 | 4,624 | 10,000 | 7,726 | 4,012 | 2,879 |
| 1958 | Wet | 1,700 | 1,978 | 1,700 | 1,700 | 11,030 | 13,444 | 8,465 | 8,116 | 4,029 | 10,000 | 5,849 | 5,473 | 4,413 |
| 1959 | Below Normal | 4,000 | 2,500 | 4,494 | 1,700 | 1,700 | 1,700 | 1,992 | 2,693 | 2,532 | 10,000 | 10,000 | 1,620 | 2,735 |
| 1960 | Dry | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,000 | 2,367 | 1,509 | 2,602 | 8,855 | 4,151 | 1,269 | 1,687 |
| 1961 | Dry | 1,200 | 1,200 | 1,300 | 1,200 | 1,200 | 1,033 | 1,332 | 1,420 | 2,777 | 6,279 | 1,831 | 1,089 | 1,324 |
| 1962 | Below Normal | 900 | 900 | 900 | 900 | 900 | 800 | 750 | 1,266 | 5,621 | 10,000 | 5,568 | 1,125 | 1,800 |
| 1963 | Wet | 1,200 | 1,200 | 1,200 | 1,258 | 15,176 | 8,257 | 13,852 | 2,559 | 7,691 | 10,000 | 4,471 | 5,837 | 4,323 |
| 1964 | Dry | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 3,333 | 2,447 | 2,136 | 9,399 | 1,525 | 1,000 | 2,013 |
| 1965 | Wet | 1,700 | 1,700 | 1,700 | 22,147 | 5,744 | 5,272 | 6,773 | 2,209 | 6,111 | 8,873 | 2,650 | 5,922 | 4,278 |
| 1966 | Below Normal | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 2,689 | 6,335 | 10,000 | 6,316 | 1,629 | 2,505 |
| 1967 | Wet | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 13,527 | 2,861 | 7,771 | 5,619 | 6,423 | 7,973 | 10,000 | 3,803 |
| 1968 | Below Normal | 4,000 | 2,500 | 2,399 | 1,700 | 1,700 | 1,700 | 2,830 | 1,605 | 6,821 | 8,306 | 3,728 | 1,968 | 2,379 |
| 1969 | Wet | 4,000 | 1,700 | 1,700 | 12,029 | 15,554 | 8,129 | 7,775 | 10,661 | 2,106 | 7,809 | 6,774 | 9,849 | 5,281 |
| 1970 | Wet | 4,000 | 2,500 | 1,700 | 40,272 | 10,673 | 3,626 | 1,558 | 1,000 | 7,266 | 7,835 | 3,647 | 6,310 | 5,459 |
| 1971 | Wet | 4,000 | 2,644 | 2,144 | 2,144 | 2,144 | 7,653 | 3,302 | 7,370 | 3,687 | 9,769 | 4,590 | 6,163 | 3,375 |
| 1972 | Below Normal | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,777 | 3,206 | 10,000 | 5,248 | 1,000 | 2,163 |
| 1973 | Above Normal | 1,700 | 1,700 | 1,700 | 1,700 | 9,277 | 7,255 | 1,000 | 1,069 | 7,859 | 6,843 | 2,416 | 3,438 | 2,743 |
| 1974 | Wet | 3,697 | 1,700 | 10,693 | 22,518 | 6,310 | 28,153 | 8,838 | 4,504 | 6,967 | 7,326 | 2,683 | 5,486 | 6,611 |
| 1975 | Wet | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 11,058 | 1,103 | 8,154 | 4,010 | 10,000 | 8,038 | 5,432 | 3,616 |
| 1976 | Critical | 3,444 | 2,674 | 3,349 | 1,700 | 1,700 | 1,700 | 1,000 | 2,673 | 1,935 | 4,443 | 3,461 | 1,610 | 1,804 |
| 1977 | Critical | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,000 | 1,331 | 948 | 1,495 | 1,482 | 1,477 | 1,486 | 918 |
| 1978 | Above Normal | 954 | 900 | 900 | 900 | 900 | 9,200 | 4,059 | 1,000 | 1,000 | 10,000 | 9,705 | 10,000 | 3,008 |
| 1979 | Below Normal | 4,000 | 1,571 | 1,200 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 7,398 | 7,149 | 3,369 | 1,088 | 1,888 |
| 1980 | Above Normal | 2,422 | 1,700 | 1,700 | 1,700 | 13,411 | 5,697 | 1,000 | 1,000 | 1,000 | 10,000 | 9,029 | 4,582 | 3,204 |
| 1981 | Dry | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 1,462 | 5,352 | 7,082 | 1,120 | 1,000 | 1,834 |
| 1982 | Wet | 1,200 | 1,200 | 12,717 | 9,630 | 20,521 | 13,589 | 21,317 | 6,397 | 1,710 | 10,000 | 7,148 | 10,000 | 6,907 |
| 1983 | Wet | 1,700 | 1,700 | 1,700 | 12,067 | 28,333 | 39,935 | 9,469 | 9,576 | 7,411 | 1,000 | 1,000 | 3,806 | 7,024 |
| 1984 | Wet | 3,405 | 14,839 | 31,043 | 6,720 | 9,663 | 9,138 | 1,000 | 1,000 | 5,991 | 10,000 | 5,962 | 6,181 | 6,359 |
| 1985 | Dry | 3,715 | 1,700 | 1,700 | 1,700 | 1,700 | 1,700 | 1,000 | 2,475 | 4,384 | 10,000 | 3,370 | 1,000 | 2,092 |
| 1986 | Wet | 1,700 | 1,700 | 1,700 | 1,700 | 21,073 | 23,411 | 1,000 | 1,000 | 1,000 | 10,000 | 9,145 | 7,078 | 4,803 |
| 1987 | Dry | 4,000 | 2,500 | 1,700 | 1,700 | 1,700 | 1,700 | 1,520 | 2,522 | 2,805 | 2,183 | 1,749 | 1,104 | 1,523 |
| 1988 | Critical | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,330 | 750 | 1,353 | 2,820 | 2,823 | 1,923 | 1,551 | 1,123 |
| 1989 | Dry | 900 | 900 | 958 | 900 | 900 | 800 | 750 | 2,541 | 6,465 | 10,000 | 7,157 | 773 | 2,009 |
| 1990 | Critical | 1,883 | 900 | 1,067 | 900 | 900 | 800 | 1,467 | 750 | 1,027 | 3,203 | 1,084 | 1,297 | 925 |
| 1991 | Critical | 1,022 | 900 | 1,351 | 1,509 | 900 | 800 | 750 | 750 | 2,252 | 4,139 | 1,883 | 1,399 | 1,070 |
| 1992 | Critical | 900 | 944 | 900 | 900 | 900 | 800 | 750 | 2,418 | 2,972 | 2,826 | 2,256 | 2,053 | 1,128 |
| 1993 | Above Normal | 1,123 | 900 | 900 | 900 | 900 | 13,343 | 3,679 | 6,211 | 2,543 | 10,000 | 10,000 | 10,000 | 3,681 |
| 1994 | Critical | 4,000 | 2,500 | 1,343 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 1,762 | 2,651 | 1,196 | 2,003 | 1,261 |
| 1995 | Wet | 2,041 | 1,200 | 1,200 | 1,200 | 13,233 | 38,169 | 12,993 | 14,268 | 7,914 | 1,631 | 4,413 | 9,536 | 6,487 |
| 1996 | Wet | 4,000 | 2,500 | 1,700 | 2,788 | 23,763 | 10,830 | 5,936 | 8,549 | 1,682 | 10,000 | 7,761 | 5,301 | 5,090 |
| 1997 | Wet | 4,000 | 2,500 | 12,305 | 45,769 | 11,502 | 4,927 | 1,000 | 1,000 | 6,827 | 9,766 | 1,357 | 5,779 | 6,462 |
| 1998 | Wet | 4,000 | 2,500 | 2,190 | 1,700 | 20,755 | 15,932 | 3,034 | 8,292 | 8,716 | 1,000 | 1,000 | 8,590 | 4,609 |
| 1999 | Wet | 4,000 | 2,500 | 4,270 | 13,908 | 20,368 | 12,683 | 1,000 | 1,000 | 5,874 | 7,613 | 1,000 | 4,402 | 4,686 |
| 2000 | Above Normal | 4,000 | 2,924 | 5,855 | 1,700 | 3,346 | 11,092 | 1,000 | 1,000 | 7,462 | 10,000 | 3,969 | 4,146 | 3,430 |
| 2001 | Dry | 4,000 | 2,500 | 5,645 | 1,700 | 1,700 | 1,700 | 1,000 | 2,404 | 2,352 | 1,569 | 1,000 | 1,000 | 1,610 |
| 2002 | Dry | 2,458 | 1,200 | 1,200 | 1,200 | 1,200 | 1,000 | 1,000 | 1,000 | 6,397 | 7,337 | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

Feather River Below Thermalito Afterbay (cfs)
 Difference Between BA - Proposed Action (Q5) and BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|---------------|--------------|---------|----------|----------|---------|----------|--------|-------|--------|--------|--------|--------|-----------|-------------|
| 1922 | Above Normal | 0 | 0 | 0 | 0 | 0 | 2 | -1 | -1 | -1 | 940 | 666 | -3,590 | -115 |
| 1923 | Below Normal | 0 | 0 | 0 | 0 | -77 | 0 | 0 | 0 | -1,765 | 1,363 | 1,231 | -4,714 | -230 |
| 1924 | Critical | 749 | 22 | 1 | 0 | 0 | 372 | 301 | -7 | 645 | 1,292 | 111 | 0 | 212 |
| 1925 | Dry | 0 | 0 | -14 | 0 | 0 | 0 | 0 | -29 | -1,503 | -2,357 | 1,450 | -1,537 | -239 |
| 1926 | Dry | 664 | 0 | -9 | 0 | 0 | 959 | 0 | -1,444 | 360 | 1,160 | 135 | 602 | 147 |
| 1927 | Wet | 0 | 0 | -4 | 0 | 694 | -5 | -3 | -5 | 398 | -322 | -308 | -3,637 | -194 |
| 1928 | Above Normal | 0 | 420 | 0 | 0 | -1 | 3,290 | 0 | 29 | 3,417 | 0 | -3,524 | -2,946 | 40 |
| 1929 | Critical | 1,699 | -326 | 0 | 0 | 0 | 0 | -2 | 6 | 158 | 8 | 180 | 0 | 106 |
| 1930 | Dry | 0 | 0 | -3 | 0 | -4 | 0 | 0 | 489 | 1,312 | -1,545 | 848 | -3,219 | -127 |
| 1931 | Critical | 1,750 | 0 | 0 | 0 | 0 | 0 | 396 | -1 | -7 | -2 | -139 | 1,130 | 189 |
| 1932 | Dry | 25 | 56 | 167 | 0 | 0 | -9 | -6 | 0 | 303 | -6,181 | 2,397 | 815 | -152 |
| 1933 | Critical | 269 | 12 | 0 | 0 | 0 | -2 | -2 | -2 | -7 | 22 | 306 | 1,175 | 107 |
| 1934 | Critical | 0 | 86 | 216 | 0 | -57 | 0 | 417 | -1 | -2 | 8 | -57 | -14 | 36 |
| 1935 | Below Normal | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,580 | -981 | -2,649 | -4,085 | -372 |
| 1936 | Below Normal | 2,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,566 | 167 | -3,696 | -4,497 | -131 |
| 1937 | Below Normal | 0 | 728 | 2,997 | 0 | 0 | 0 | 0 | 0 | -1,051 | 1,328 | -456 | 638 | 257 |
| 1938 | Wet | 289 | 0 | 0 | 0 | 2,463 | 0 | 0 | 0 | 0 | 818 | 1,552 | 0 | 300 |
| 1939 | Dry | 0 | 0 | -302 | 0 | 0 | 0 | 529 | 125 | -50 | -803 | -629 | 0 | -70 |
| 1940 | Above Normal | 0 | 0 | 0 | 0 | 0 | 62 | -7 | 0 | 947 | 0 | -1,455 | -3,739 | -252 |
| 1941 | Wet | 0 | 121 | 0 | 0 | 4,318 | -8 | -1 | -6 | -3 | 1,458 | 2,651 | 0 | 499 |
| 1942 | Wet | 0 | 0 | 0 | -4,235 | -6 | -11 | -8 | -12 | -18 | 1,560 | -2,274 | -3,817 | -535 |
| 1943 | Wet | -511 | 0 | 0 | 4,844 | -1 | -5 | 1 | 0 | -1,071 | 0 | 1,768 | -2,590 | 157 |
| 1944 | Dry | 0 | 0 | 1,407 | 0 | 0 | 0 | -1 | 292 | -1,783 | -1,493 | 1,238 | 6 | -17 |
| 1945 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -1 | 2,050 | 1,030 | -2,765 | -893 | -38 |
| 1946 | Below Normal | -6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,042 | -1,412 | -4,316 | -3,754 | -336 |
| 1947 | Dry | 1,180 | 461 | 0 | 0 | 0 | 0 | -650 | -1,094 | 5,448 | 110 | -4 | 336 | |
| 1948 | Below Normal | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 969 | 929 | -4,122 | -129 | |
| 1949 | Dry | 1,122 | 0 | 0 | 0 | 0 | 0 | -5 | -5 | -1,399 | -2,319 | 2,408 | 18 | -8 |
| 1950 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,330 | -25 | -1,566 | -4,973 | -136 |
| 1951 | Above Normal | -31 | 0 | 2,003 | 608 | 0 | 0 | 0 | 0 | 3,948 | -1,166 | -2,994 | -4,315 | -119 |
| 1952 | Wet | 0 | 0 | 0 | 1,563 | 3,183 | -8 | -2 | -2 | -2 | 3,064 | 2,691 | 620 | 669 |
| 1953 | Wet | 0 | 0 | 0 | -6,411 | 0 | -17 | -9 | -13 | -19 | -1,421 | -4,062 | -3,725 | -957 |
| 1954 | Above Normal | 0 | 0 | -68 | 2 | 0 | 4,896 | 4,267 | -438 | 3,162 | -663 | 213 | -3,580 | 471 |
| 1955 | Dry | 0 | 800 | 0 | 0 | 0 | 0 | -2 | -1 | -81 | -1,756 | 956 | 0 | -7 |
| 1956 | Wet | 0 | 0 | 0 | 370 | 0 | 14 | 0 | 0 | 1,098 | 1,119 | -4,008 | -79 | |
| 1957 | Above Normal | 0 | 0 | -240 | 0 | 0 | 0 | 0 | 0 | 1,389 | 117 | 183 | -4,028 | -153 |
| 1958 | Wet | 0 | -57 | 0 | 0 | 4,719 | 0 | 0 | -7 | -5 | 1,507 | 2,020 | -4,361 | 215 |
| 1959 | Below Normal | 0 | 0 | -1,159 | 0 | 0 | 0 | -1 | 406 | -80 | 0 | 2,152 | -473 | 53 |
| 1960 | Dry | 0 | 0 | 0 | 0 | 0 | 0 | -645 | -6 | -1,209 | -274 | 1,220 | 79 | -48 |
| 1961 | Dry | 0 | 0 | -3 | 0 | 0 | -4 | -4 | -168 | 104 | -203 | -56 | 72 | -16 |
| 1962 | Below Normal | -28 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1,709 | 354 | -2,266 | -4,253 | -270 |
| 1963 | Wet | 0 | 0 | 0 | 0 | 5,421 | -6 | 3 | -4 | 3,278 | 265 | -3,193 | -4,076 | 73 |
| 1964 | Dry | 0 | 696 | 0 | 0 | 0 | 0 | 754 | -153 | 68 | 744 | 309 | 0 | 146 |
| 1965 | Wet | 0 | 0 | 0 | 166 | -8 | -8 | -5 | -8 | 3,232 | -1,127 | -3,842 | -4,078 | -347 |
| 1966 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | -109 | 2,553 | 0 | -634 | 304 | 124 | |
| 1967 | Wet | 0 | 0 | 0 | 0 | 0 | 2,669 | -6 | -10 | -14 | 2,789 | 2,705 | 386 | 523 |
| 1968 | Below Normal | 0 | 0 | -1,377 | 0 | 0 | -4,160 | 723 | 194 | 2,826 | -1,694 | -3,686 | -4,301 | -704 |
| 1969 | Wet | 1,805 | 0 | 0 | 3,424 | 0 | 0 | 0 | 0 | 0 | 134 | 2,512 | 119 | 491 |
| 1970 | Wet | 0 | 0 | 0 | -2,759 | -5 | -6 | -3 | 0 | 4,242 | -2,152 | -4,046 | -3,690 | -519 |
| 1971 | Wet | 2,300 | 15 | 15 | 15 | 15 | 3,227 | -3 | -4 | 70 | 664 | -3,729 | -3,837 | -70 |
| 1972 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -75 | -88 | 779 | 486 | 0 | 68 |
| 1973 | Above Normal | 0 | 0 | 0 | 0 | 6,153 | 0 | 0 | 0 | 3,745 | -2,404 | -3,621 | -3,584 | -19 |
| 1974 | Wet | -128 | 0 | 5,998 | -2 | -3 | -4 | -2 | -4 | 4,569 | -2,220 | -3,870 | -4,086 | 14 |
| 1975 | Wet | 0 | -113 | -202 | 0 | 0 | 5,903 | 6 | 9 | 12 | 1,089 | 2,686 | -4,454 | 312 |
| 1976 | Critical | -556 | -85 | -1,628 | 0 | 0 | 0 | 0 | 364 | -9 | -1,816 | 2,461 | 610 | -42 |
| 1977 | Critical | 0 | 0 | 0 | 0 | 0 | 0 | 572 | 172 | 1 | 1 | 1 | 1 | 45 |
| 1978 | Above Normal | 0 | 0 | 0 | 0 | 0 | 264 | -5 | 0 | 0 | 1,850 | 2,507 | 2,404 | 427 |
| 1979 | Below Normal | 0 | -929 | -4,077 | 0 | 0 | 0 | 0 | 0 | 2,730 | -1,104 | 1,049 | -3,999 | -385 |
| 1980 | Above Normal | 722 | 0 | 0 | 0 | -1,449 | 0 | 0 | 0 | 0 | 1,799 | 2,588 | -3,010 | 52 |
| 1981 | Dry | 0 | 0 | -1,562 | 0 | 0 | 0 | 0 | 62 | 1,185 | -1,313 | 120 | 0 | -95 |
| 1982 | Wet | 0 | 0 | 3 | -2 | -6 | -1 | 0 | 0 | 0 | 2,226 | 2,693 | 1,286 | 379 |
| 1983 | Wet | 0 | 0 | -4,005 | -2,295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -387 |
| 1984 | Wet | -595 | 684 | 0 | 0 | 0 | 0 | 0 | 0 | 2,090 | 0 | -353 | -3,819 | -120 |
| 1985 | Dry | -285 | 0 | 0 | 0 | 0 | 0 | 0 | -56 | 717 | 312 | 1,518 | 0 | 134 |
| 1986 | Wet | 0 | 0 | 0 | 0 | 2 | 75 | 0 | 0 | 0 | 0 | 2,288 | -2,922 | -28 |
| 1987 | Dry | 0 | 0 | -128 | 0 | 0 | 0 | -82 | -509 | -538 | -10 | 460 | 2 | -48 |
| 1988 | Critical | -72 | 0 | 0 | 0 | -1,032 | -16 | 0 | -460 | 18 | -650 | 168 | 3 | -121 |
| 1989 | Dry | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 118 | 1,344 | 1,240 | 3,304 | -4,474 | 104 |
| 1990 | Critical | -931 | 0 | -12 | 0 | 0 | 0 | 341 | 0 | -116 | -948 | -128 | -1 | -111 |
| 1991 | Critical | 0 | 0 | 0 | 609 | -736 | 0 | 0 | 0 | -698 | 1,026 | -150 | 1 | 9 |
| 1992 | Critical | 0 | -128 | 0 | 0 | 0 | 0 | 0 | -65 | 106 | 3 | -101 | 166 | -1 |
| 1993 | Above Normal | -255 | -1,123 | 0 | 0 | 0 | 728 | -6 | -9 | -13 | 707 | 2,235 | 2,027 | 262 |
| 1994 | Critical | 0 | 0 | -2,450 | 0 | 0 | 0 | 0 | 0 | 0 | -2,361 | -82 | 71 | -297 |
| 1995 | Wet | -1 | 0 | 0 | 0 | -263 | -11 | -3 | -5 | -7 | -4 | 1,102 | 161 | 61 |
| 1996 | Wet | 0 | 0 | 0 | -1,312 | -6 | -8 | -3 | -6 | -15 | 447 | 1,751 | -3,884 | -179 |
| 1997 | Wet | 0 | 0 | 1,432 | -2 | -3 | -3 | 0 | -613 | 4,099 | 1,318 | -4,086 | -3,870 | -107 |
| 1998 | Wet | 0 | 0 | 1 | 0 | 3,533 | -2 | -27 | -23 | -66 | -18 | 0 | 5,120 | 493 |
| 1999 | Wet | 0 | -3,941 | -1,118 | -9 | -12 | -6 | 0 | 0 | 4,725 | -2,114 | -3,408 | -4,543 | -634 |
| 2000 | Above Normal | 0 | -289 | 212 | 0 | 1,646 | 3,782 | 0 | 0 | 3,272 | 0 | -3,839 | -3,407 | 79 |
| 2001 | Dry | 0 | 0 | 2,957 | 0 | 0 | 0 | 0 | -325 | -1,111 | 38 | 0 | 0 | 98 |
| 2002 | Dry | -120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,602 | -1,026 | -644 | -106 | 98 |
| 2003 | Above Normal | -1 | 0 | 0 | 0 | 0 | -374 | 0 | -22 | 3,300 | 0 | 2,135 | 1,832 | 412 |
| Average: | | 138 | -35 | -11 | -66 | 347 | 263 | 91 | -36 | 870 | -33 | -110 | -1,553 | -9 |
| Minimum: | | -931 | -3,941 | -4,077 | -6,411 | -1,449 | -4,160 | -645 | -1,444 | -1,783 | -6,181 | -4,316 | -4,973 | -957 |
| Maximum: | | 2,300 | 800 | 5,998 | 4,844 | 6,153 | 5,903 | 4,267 | 489 | 4,725 | 5,448 | 3,304 | 5,120 | 669 |
| Wet: | | 122 | -127 | 82 | -256 | 924 | 453 | -2 | -27 | 981 | 348 | -217 | -2,219 | 1 |
| Above Normal: | | 36 | -83 | 159 | 51 | 529 | 1,054 | 354 | -37 | 1,931 | 98 | -409 | -2,161 | 90 |
| Below Normal: | | 162 | -14 | -258 | 0 | -6 | -297 | 52 | 30 | 1,600 | 55 | -1,156 | -2,794 | -159 |
| Dry: | | 144 | 112 | 143 | 0 | 0 | 53 | 30 | -126 | 13 | -574 | 841 | -430 | 13 |
| Critical: | | 242 | -35 | -323 | 51 | -152 | 29 | 169 | 1 | 7 | -285 | 214 | 262 | 11 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (Q5 Central Tendency Climate Change) and Proposed Action (Q5 Central Tendency Climate Change)

Long-Term and Water Year-Type Average of American River below Nimbus Under BA - No Action Alternative (Q5) and BA - Proposed Action (Q5)

| Analysis Period | Average Flow (cfs) | | | | | | | | | | | | Total (TAF) |
|---------------------------------|--------------------|----------|----------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|-------------|
| | October | November | December | January | February | March | April | May | June | July | August | September | |
| Long-Term | | | | | | | | | | | | | |
| Full Simulation Period | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,617 | 2,501 | 3,645 | 5,038 | 5,868 | 4,266 | 3,395 | 3,102 | 2,836 | 3,370 | 1,789 | 2,027 | 2,373 |
| BA - Proposed Action (Q5) | 1,565 | 2,257 | 3,713 | 5,010 | 5,930 | 4,281 | 3,382 | 3,113 | 3,210 | 3,263 | 1,822 | 1,904 | 2,372 |
| Difference | -53 | -245 | 68 | -29 | 62 | 15 | -13 | 11 | 374 | -107 | 33 | -123 | -1 |
| Percent Difference | -3% | -10% | 2% | -1% | 1% | 0% | 0% | 0% | 13% | -3% | 2% | -6% | 0% |
| Water Year-Types | | | | | | | | | | | | | |
| Wet | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,688 | 3,389 | 6,818 | 10,579 | 10,906 | 7,245 | 5,589 | 5,366 | 4,013 | 3,600 | 2,329 | 3,283 | 3,891 |
| BA - Proposed Action (Q5) | 1,664 | 3,041 | 7,001 | 10,609 | 10,948 | 7,246 | 5,589 | 5,355 | 4,239 | 3,645 | 2,348 | 3,105 | 3,890 |
| Difference | -24 | -349 | 182 | 30 | 42 | 1 | 0 | -11 | 226 | 45 | 19 | -178 | -1 |
| Percent Difference | -1% | -10% | 3% | 0% | 0% | 0% | 0% | 0% | 6% | 1% | 1% | -5% | 0% |
| Above Normal | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,727 | 2,998 | 2,998 | 5,220 | 7,239 | 6,186 | 3,433 | 2,958 | 2,677 | 4,640 | 1,835 | 2,405 | 2,666 |
| BA - Proposed Action (Q5) | 1,639 | 2,744 | 3,088 | 5,214 | 7,397 | 6,318 | 3,429 | 2,953 | 3,087 | 4,237 | 1,895 | 2,214 | 2,659 |
| Difference | -88 | -254 | 90 | -6 | 158 | 132 | -4 | -5 | 410 | -403 | 60 | -191 | -7 |
| Percent Difference | -5% | -8% | 3% | 0% | 2% | 2% | 0% | 0% | 15% | -9% | 3% | -8% | 0% |
| Below Normal | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,654 | 2,059 | 2,843 | 2,403 | 4,700 | 2,825 | 3,211 | 2,565 | 2,387 | 4,340 | 1,839 | 1,487 | 1,945 |
| BA - Proposed Action (Q5) | 1,603 | 1,728 | 2,838 | 2,156 | 4,828 | 2,831 | 3,241 | 2,559 | 3,426 | 3,899 | 1,908 | 1,407 | 1,950 |
| Difference | -51 | -331 | -5 | -246 | 128 | 6 | 30 | -6 | 1,039 | -442 | 70 | -80 | 5 |
| Percent Difference | -3% | -16% | 0% | -10% | 3% | 0% | 1% | 0% | 44% | -10% | 4% | -5% | 0% |
| Dry | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,467 | 1,714 | 1,586 | 1,557 | 1,860 | 2,047 | 1,894 | 1,657 | 2,440 | 2,707 | 1,347 | 1,212 | 1,296 |
| BA - Proposed Action (Q5) | 1,327 | 1,648 | 1,574 | 1,531 | 1,872 | 2,085 | 1,874 | 1,708 | 2,874 | 2,820 | 1,297 | 1,135 | 1,312 |
| Difference | -140 | -67 | -12 | -26 | 12 | 38 | -20 | 51 | 435 | 114 | -50 | -77 | 15 |
| Percent Difference | -10% | -4% | -1% | -2% | 1% | 2% | -1% | 3% | 18% | 4% | -4% | -6% | 1% |
| Critical | | | | | | | | | | | | | |
| BA - No Action Alternative (Q5) | 1,537 | 1,776 | 1,442 | 1,149 | 958 | 899 | 1,068 | 1,133 | 1,564 | 1,467 | 1,179 | 779 | 904 |
| BA - Proposed Action (Q5) | 1,587 | 1,600 | 1,447 | 1,221 | 962 | 803 | 978 | 1,169 | 1,352 | 1,386 | 1,298 | 723 | 879 |
| Difference | 50 | -176 | 5 | 72 | 4 | -96 | -90 | 35 | -212 | -82 | 119 | -55 | -25 |
| Percent Difference | 3% | -10% | 0% | 6% | 0% | -11% | -8% | 3% | -14% | -6% | 10% | -7% | -3% |

American River below Nimbus

BA - No Action Alternative (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2,739 | 3,837 | 10,678 | 12,881 | 14,846 | 10,280 | 6,847 | 7,558 | 4,893 | 5,000 | 3,139 | 3,977 |
| 20% | 2,001 | 3,381 | 4,116 | 7,832 | 11,145 | 7,021 | 5,155 | 4,551 | 3,876 | 5,000 | 2,393 | 3,296 |
| 30% | 1,604 | 2,561 | 2,125 | 5,352 | 7,380 | 5,062 | 4,491 | 3,563 | 3,612 | 4,866 | 1,979 | 2,435 |
| 40% | 1,500 | 2,022 | 2,000 | 3,674 | 5,762 | 4,177 | 3,496 | 2,898 | 2,746 | 3,919 | 1,750 | 1,930 |
| 50% | 1,500 | 1,925 | 2,000 | 1,750 | 3,152 | 3,057 | 2,552 | 2,164 | 2,295 | 3,561 | 1,750 | 1,580 |
| 60% | 1,500 | 1,683 | 1,828 | 1,700 | 1,778 | 1,953 | 2,090 | 1,750 | 1,974 | 2,823 | 1,750 | 1,533 |
| 70% | 1,471 | 1,525 | 1,562 | 1,700 | 1,445 | 1,732 | 1,741 | 1,612 | 1,750 | 2,476 | 1,602 | 1,450 |
| 80% | 1,120 | 1,197 | 1,244 | 1,321 | 1,264 | 925 | 1,035 | 1,092 | 1,413 | 2,216 | 884 | 800 |
| 90% | 730 | 800 | 800 | 852 | 851 | 800 | 800 | 800 | 886 | 1,064 | 800 | 784 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,617 | 2,501 | 3,645 | 5,038 | 5,868 | 4,266 | 3,395 | 3,102 | 2,836 | 3,370 | 1,789 | 2,027 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 1,688 | 3,389 | 6,818 | 10,579 | 10,906 | 7,245 | 5,589 | 5,366 | 4,013 | 3,600 | 2,329 | 3,283 |
| Above Normal | 1,727 | 2,998 | 2,998 | 5,220 | 7,239 | 6,186 | 3,433 | 2,958 | 2,677 | 4,640 | 1,835 | 2,405 |
| Below Normal | 1,654 | 2,059 | 2,843 | 2,403 | 4,700 | 2,825 | 3,211 | 2,565 | 2,387 | 4,340 | 1,839 | 1,487 |
| Dry | 1,467 | 1,714 | 1,586 | 1,557 | 1,860 | 2,047 | 1,894 | 1,657 | 2,440 | 2,707 | 1,347 | 1,212 |
| Critical | 1,537 | 1,776 | 1,442 | 1,149 | 958 | 899 | 1,068 | 1,133 | 1,564 | 1,467 | 1,179 | 779 |

BA - Proposed Action (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2,408 | 3,194 | 10,678 | 12,881 | 14,846 | 10,280 | 6,847 | 7,558 | 5,000 | 5,000 | 3,132 | 4,047 |
| 20% | 1,868 | 2,491 | 4,237 | 7,958 | 11,147 | 7,016 | 5,155 | 4,551 | 4,575 | 4,779 | 2,661 | 2,903 |
| 30% | 1,568 | 1,925 | 2,529 | 5,318 | 7,251 | 5,063 | 4,501 | 3,563 | 3,842 | 4,102 | 1,864 | 2,202 |
| 40% | 1,500 | 1,925 | 2,000 | 3,138 | 5,763 | 4,176 | 3,496 | 2,893 | 3,613 | 3,738 | 1,750 | 1,683 |
| 50% | 1,500 | 1,855 | 2,000 | 1,750 | 3,267 | 3,056 | 2,511 | 2,179 | 3,131 | 3,400 | 1,750 | 1,533 |
| 60% | 1,500 | 1,683 | 1,921 | 1,700 | 2,311 | 1,962 | 1,980 | 1,750 | 2,402 | 2,865 | 1,750 | 1,533 |
| 70% | 1,476 | 1,476 | 1,667 | 1,656 | 1,445 | 1,732 | 1,744 | 1,612 | 2,097 | 2,597 | 1,568 | 1,513 |
| 80% | 1,172 | 1,207 | 1,172 | 1,332 | 1,280 | 989 | 1,038 | 1,115 | 1,712 | 2,256 | 943 | 800 |
| 90% | 800 | 800 | 800 | 851 | 841 | 800 | 800 | 800 | 947 | 1,010 | 647 | 530 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,565 | 2,257 | 3,713 | 5,010 | 5,930 | 4,281 | 3,382 | 3,113 | 3,210 | 3,263 | 1,822 | 1,904 |
| Water Year Types | | | | | | | | | | | | |
| Wet | 1,664 | 3,041 | 7,001 | 10,609 | 10,948 | 7,246 | 5,589 | 5,355 | 4,239 | 3,645 | 2,348 | 3,105 |
| Above Normal | 1,639 | 2,744 | 3,088 | 5,214 | 7,397 | 6,318 | 3,429 | 2,953 | 3,087 | 4,237 | 1,895 | 2,214 |
| Below Normal | 1,603 | 1,728 | 2,838 | 2,156 | 4,828 | 2,831 | 3,241 | 2,559 | 3,426 | 3,899 | 1,908 | 1,407 |
| Dry | 1,327 | 1,648 | 1,574 | 1,531 | 1,872 | 2,085 | 1,874 | 1,708 | 2,874 | 2,820 | 1,297 | 1,135 |
| Critical | 1,587 | 1,600 | 1,447 | 1,221 | 962 | 803 | 978 | 1,169 | 1,352 | 1,386 | 1,298 | 723 |

BA - Proposed Action (Q5) Minus BA - No Action Alternative (Q5)

| Statistic | Average Monthly Flow (cfs) | | | | | | | | | | | |
|----------------------------------|----------------------------|------|-----|------|------|-----|------|-----|-------|------|------|------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -332 | -643 | 0 | 0 | 0 | 0 | 0 | 0 | 107 | 0 | -6 | 70 |
| 20% | -133 | -890 | 121 | 127 | 2 | -5 | 0 | 0 | 700 | -221 | 269 | -394 |
| 30% | -36 | -636 | 404 | -34 | -129 | 1 | 10 | 0 | 229 | -764 | -115 | -232 |
| 40% | 0 | -97 | 0 | -536 | 0 | -1 | 0 | -5 | 867 | -181 | 0 | -247 |
| 50% | 0 | -70 | 0 | 0 | 115 | -1 | -41 | 16 | 836 | -161 | 0 | -47 |
| 60% | 0 | 0 | 93 | 0 | 532 | 8 | -110 | 0 | 427 | 42 | 0 | 0 |
| 70% | 5 | -49 | 105 | -44 | 0 | 0 | 3 | 0 | 347 | 121 | -34 | 63 |
| 80% | 53 | 10 | -72 | 11 | 16 | 64 | 3 | 22 | 300 | 41 | 60 | 0 |
| 90% | 69 | 0 | 0 | -1 | -10 | 0 | 0 | 0 | 61 | -54 | -153 | -254 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -53 | -245 | 68 | -29 | 62 | 15 | -13 | 11 | 374 | -107 | 33 | -123 |
| Water Year Types | | | | | | | | | | | | |
| Wet | -24 | -349 | 182 | 30 | 42 | 1 | 0 | -11 | 226 | 45 | 19 | -178 |
| Above Normal | -88 | -254 | 90 | -6 | 158 | 132 | -4 | -5 | 410 | -403 | 60 | -191 |
| Below Normal | -51 | -331 | -5 | -246 | 128 | 6 | 30 | -6 | 1,039 | -442 | 70 | -80 |
| Dry | -140 | -67 | -12 | -26 | 12 | 38 | -20 | 51 | 435 | 114 | -50 | -77 |
| Critical | 50 | -176 | 5 | 72 | 4 | -96 | -90 | 35 | -212 | -82 | 119 | -55 |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

American River below Nimbus (cfs)
 BA - No Action Alternative (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|------------|--------------|---------|----------|----------|---------|----------|--------|--------|--------|-------|-------|--------|-----------|-------------|
| 1922 | Above Normal | 2,747 | 1,925 | 2,000 | 1,700 | 6,772 | 4,426 | 5,089 | 9,434 | 7,380 | 3,597 | 1,750 | 5,000 | 3,108 |
| 1923 | Below Normal | 2,054 | 3,048 | 7,382 | 5,316 | 3,163 | 1,750 | 4,483 | 3,652 | 1,750 | 5,000 | 1,750 | 1,533 | 2,473 |
| 1924 | Critical | 2,039 | 1,925 | 2,000 | 1,700 | 379 | 672 | 354 | 428 | 1,124 | 920 | 806 | 836 | 801 |
| 1925 | Dry | 500 | 500 | 504 | 323 | 7,398 | 2,789 | 4,526 | 2,934 | 4,671 | 4,356 | 1,750 | 1,533 | 1,888 |
| 1926 | Dry | 1,500 | 1,925 | 2,000 | 1,700 | 1,445 | 800 | 1,700 | 2,019 | 3,007 | 2,409 | 800 | 800 | 1,213 |
| 1927 | Wet | 1,398 | 1,398 | 1,933 | 3,879 | 16,947 | 5,285 | 6,768 | 4,548 | 3,622 | 5,000 | 2,011 | 2,749 | 3,285 |
| 1928 | Above Normal | 1,500 | 2,236 | 2,000 | 1,750 | 1,750 | 11,479 | 3,531 | 1,478 | 1,824 | 5,000 | 1,478 | 1,478 | 2,158 |
| 1929 | Critical | 1,500 | 1,527 | 1,537 | 1,307 | 1,111 | 1,111 | 1,111 | 1,111 | 1,168 | 1,130 | 1,130 | 1,130 | 898 |
| 1930 | Dry | 978 | 978 | 978 | 1,077 | 2,829 | 2,969 | 1,553 | 1,065 | 3,242 | 3,615 | 1,065 | 1,065 | 1,286 |
| 1931 | Critical | 1,904 | 1,683 | 1,750 | 1,488 | 1,264 | 409 | 375 | 351 | 527 | 800 | 1,981 | 1,720 | 860 |
| 1932 | Dry | 701 | 619 | 800 | 800 | 886 | 2,683 | 3,477 | 3,501 | 3,612 | 2,010 | 2,684 | 2,962 | 1,496 |
| 1933 | Critical | 1,622 | 2,256 | 2,000 | 1,700 | 1,445 | 1,445 | 2,836 | 1,613 | 3,742 | 512 | 3,470 | 778 | 1,412 |
| 1934 | Critical | 800 | 1,216 | 800 | 800 | 800 | 1,009 | 1,960 | 2,753 | 594 | 2,587 | 674 | 467 | 876 |
| 1935 | Below Normal | 627 | 500 | 611 | 800 | 800 | 1,750 | 6,289 | 4,555 | 3,070 | 2,506 | 2,693 | 1,623 | 1,560 |
| 1936 | Below Normal | 2,722 | 1,936 | 2,000 | 6,415 | 19,150 | 5,662 | 6,022 | 3,562 | 3,901 | 5,000 | 1,750 | 1,533 | 3,565 |
| 1937 | Below Normal | 2,307 | 1,925 | 2,000 | 1,700 | 4,112 | 5,007 | 3,781 | 3,843 | 1,750 | 4,606 | 1,750 | 1,645 | 2,074 |
| 1938 | Wet | 1,500 | 1,925 | 6,787 | 3,311 | 14,703 | 12,202 | 7,757 | 9,718 | 6,855 | 2,420 | 3,093 | 1,683 | 4,301 |
| 1939 | Dry | 3,273 | 3,429 | 2,000 | 1,700 | 1,445 | 800 | 1,019 | 991 | 1,162 | 3,756 | 522 | 453 | 1,243 |
| 1940 | Above Normal | 512 | 800 | 800 | 2,622 | 13,734 | 12,649 | 5,581 | 1,969 | 2,701 | 5,000 | 2,764 | 2,434 | 3,093 |
| 1941 | Wet | 1,500 | 1,681 | 5,153 | 6,040 | 8,381 | 5,060 | 3,501 | 4,051 | 2,108 | 2,429 | 2,000 | 4,604 | 2,786 |
| 1942 | Wet | 1,542 | 3,607 | 6,660 | 11,051 | 11,516 | 3,458 | 5,689 | 5,724 | 4,664 | 3,029 | 1,870 | 5,000 | 3,817 |
| 1943 | Wet | 1,847 | 4,731 | 2,668 | 12,283 | 7,589 | 11,336 | 5,046 | 1,750 | 1,750 | 5,000 | 1,750 | 3,255 | 3,554 |
| 1944 | Dry | 1,500 | 1,683 | 1,750 | 1,488 | 1,264 | 1,264 | 1,264 | 1,264 | 2,757 | 2,379 | 1,750 | 1,533 | 1,204 |
| 1945 | Below Normal | 1,169 | 1,169 | 1,169 | 1,169 | 10,872 | 2,343 | 2,666 | 2,377 | 3,241 | 4,584 | 1,750 | 1,953 | 2,036 |
| 1946 | Below Normal | 1,500 | 2,011 | 12,315 | 5,908 | 2,582 | 3,025 | 3,668 | 2,339 | 2,633 | 5,000 | 2,429 | 2,376 | 2,779 |
| 1947 | Dry | 1,500 | 1,683 | 1,750 | 1,488 | 1,264 | 800 | 800 | 2,340 | 2,604 | 2,384 | 800 | 800 | 1,101 |
| 1948 | Below Normal | 1,390 | 1,390 | 1,390 | 1,182 | 1,005 | 1,750 | 1,918 | 3,782 | 3,663 | 2,740 | 3,162 | 1,533 | 1,511 |
| 1949 | Dry | 1,722 | 2,094 | 2,000 | 1,700 | 1,445 | 1,750 | 2,949 | 2,322 | 2,797 | 3,625 | 1,978 | 1,533 | 1,566 |
| 1950 | Below Normal | 1,500 | 1,897 | 1,971 | 1,797 | 5,818 | 3,486 | 5,068 | 3,177 | 2,561 | 4,088 | 2,013 | 1,597 | 2,094 |
| 1951 | Above Normal | 1,930 | 15,568 | 17,790 | 10,696 | 7,564 | 4,359 | 1,846 | 1,750 | 1,750 | 5,000 | 2,020 | 2,184 | 4,368 |
| 1952 | Wet | 2,248 | 1,683 | 4,429 | 9,622 | 10,897 | 7,560 | 9,750 | 10,905 | 7,804 | 2,884 | 3,448 | 3,809 | 4,525 |
| 1953 | Wet | 1,877 | 3,205 | 2,000 | 7,360 | 2,476 | 1,750 | 2,434 | 2,236 | 3,613 | 3,570 | 2,692 | 2,830 | 2,177 |
| 1954 | Above Normal | 2,434 | 2,560 | 2,000 | 1,700 | 1,700 | 3,565 | 3,693 | 1,483 | 1,483 | 5,000 | 1,483 | 1,483 | 1,729 |
| 1955 | Dry | 1,500 | 1,548 | 1,565 | 1,330 | 1,229 | 1,131 | 1,131 | 1,131 | 1,949 | 2,807 | 1,750 | 1,533 | 1,124 |
| 1956 | Wet | 1,500 | 1,649 | 16,790 | 18,476 | 7,170 | 3,394 | 2,731 | 4,975 | 3,809 | 3,084 | 1,777 | 1,807 | 4,081 |
| 1957 | Above Normal | 4,079 | 3,576 | 2,122 | 1,700 | 1,445 | 4,263 | 1,750 | 1,750 | 1,750 | 5,000 | 2,022 | 1,836 | 1,898 |
| 1958 | Wet | 1,500 | 1,925 | 2,000 | 2,791 | 12,094 | 7,916 | 11,244 | 7,509 | 4,529 | 1,836 | 2,993 | 2,205 | 3,488 |
| 1959 | Below Normal | 3,168 | 3,123 | 2,000 | 1,700 | 1,725 | 800 | 1,047 | 800 | 800 | 5,000 | 800 | 800 | 1,316 |
| 1960 | Dry | 1,157 | 1,157 | 1,157 | 984 | 836 | 3,290 | 2,611 | 888 | 888 | 2,588 | 1,861 | 1,198 | 1,130 |
| 1961 | Dry | 1,500 | 1,683 | 1,750 | 1,488 | 1,264 | 800 | 800 | 732 | 3,279 | 443 | 461 | 908 | 908 |
| 1962 | Below Normal | 532 | 500 | 800 | 800 | 4,129 | 2,337 | 4,497 | 1,750 | 1,750 | 5,000 | 2,369 | 1,533 | 1,558 |
| 1963 | Wet | 1,500 | 4,576 | 3,906 | 4,613 | 12,477 | 2,454 | 7,236 | 6,309 | 2,001 | 5,000 | 1,876 | 1,653 | 3,191 |
| 1964 | Dry | 2,797 | 3,444 | 2,000 | 2,316 | 1,761 | 1,612 | 1,612 | 1,612 | 2,161 | 2,446 | 1,684 | 1,515 | 1,510 |
| 1965 | Wet | 1,500 | 1,532 | 21,494 | 14,772 | 5,749 | 1,885 | 4,691 | 3,027 | 2,270 | 5,000 | 1,750 | 4,276 | 4,118 |
| 1966 | Below Normal | 1,602 | 1,934 | 2,000 | 1,750 | 1,750 | 1,033 | 996 | 872 | 885 | 5,000 | 888 | 800 | 1,180 |
| 1967 | Wet | 1,500 | 1,614 | 3,769 | 8,014 | 5,729 | 7,023 | 5,254 | 7,579 | 6,158 | 2,445 | 3,158 | 4,399 | 3,414 |
| 1968 | Below Normal | 1,500 | 3,470 | 2,167 | 1,700 | 5,902 | 2,227 | 840 | 840 | 1,101 | 5,000 | 840 | 840 | 1,589 |
| 1969 | Wet | 1,500 | 1,503 | 1,504 | 23,260 | 11,923 | 5,491 | 7,491 | 8,429 | 4,975 | 1,750 | 3,237 | 4,461 | 4,536 |
| 1970 | Wet | 1,500 | 3,287 | 5,301 | 25,092 | 6,892 | 3,831 | 1,750 | 1,750 | 1,750 | 5,000 | 1,750 | 2,448 | 3,652 |
| 1971 | Wet | 825 | 825 | 5,405 | 5,675 | 3,835 | 4,327 | 2,330 | 3,466 | 2,536 | 3,960 | 1,750 | 3,726 | 2,336 |
| 1972 | Below Normal | 1,580 | 3,359 | 2,000 | 1,700 | 2,001 | 4,204 | 1,608 | 1,608 | 1,608 | 4,437 | 1,608 | 1,514 | 1,650 |
| 1973 | Above Normal | 1,500 | 1,560 | 1,581 | 9,489 | 8,468 | 4,178 | 2,553 | 3,155 | 3,233 | 5,000 | 1,750 | 1,533 | 2,637 |
| 1974 | Wet | 1,500 | 4,418 | 8,500 | 13,137 | 5,473 | 10,502 | 6,234 | 2,980 | 2,107 | 3,977 | 1,750 | 4,113 | 3,912 |
| 1975 | Wet | 1,500 | 2,927 | 2,000 | 1,700 | 3,141 | 5,082 | 2,550 | 5,099 | 3,663 | 2,751 | 1,750 | 2,317 | 2,079 |
| 1976 | Critical | 3,867 | 3,413 | 2,000 | 1,700 | 1,445 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 1,091 |
| 1977 | Critical | 800 | 800 | 800 | 408 | 411 | 401 | 360 | 305 | 357 | 362 | 346 | 375 | 346 |
| 1978 | Above Normal | 481 | 500 | 517 | 3,765 | 5,766 | 7,019 | 4,811 | 2,410 | 2,375 | 4,851 | 1,750 | 2,438 | 2,201 |
| 1979 | Below Normal | 1,500 | 2,567 | 2,000 | 1,700 | 2,790 | 4,180 | 2,070 | 2,753 | 4,702 | 2,799 | 1,940 | 1,533 | 1,839 |
| 1980 | Above Normal | 1,500 | 1,734 | 1,802 | 18,370 | 15,243 | 5,307 | 2,818 | 1,941 | 2,287 | 3,660 | 1,750 | 3,276 | 3,589 |
| 1981 | Dry | 1,500 | 2,734 | 2,000 | 1,750 | 1,750 | 800 | 800 | 800 | 1,385 | 1,864 | 878 | 800 | 1,027 |
| 1982 | Wet | 1,473 | 5,659 | 18,221 | 10,820 | 17,980 | 9,764 | 17,852 | 8,748 | 4,490 | 2,023 | 2,785 | 3,663 | 6,193 |
| 1983 | Wet | 3,146 | 8,507 | 11,611 | 10,332 | 15,805 | 19,927 | 6,881 | 10,168 | 9,094 | 3,552 | 3,580 | 2,416 | 6,310 |
| 1984 | Wet | 1,975 | 16,600 | 22,909 | 7,710 | 6,456 | 4,171 | 1,750 | 1,794 | 2,637 | 5,000 | 1,750 | 3,327 | 4,604 |
| 1985 | Dry | 1,500 | 1,683 | 2,310 | 1,750 | 1,848 | 1,123 | 2,173 | 1,166 | 4,115 | 3,258 | 940 | 940 | 1,374 |
| 1986 | Wet | 1,334 | 1,334 | 1,334 | 4,545 | 37,305 | 12,221 | 2,457 | 1,750 | 1,750 | 5,000 | 1,750 | 3,894 | 4,351 |
| 1987 | Dry | 1,500 | 1,898 | 1,750 | 1,488 | 1,264 | 800 | 800 | 990 | 1,248 | 1,035 | 800 | 800 | 867 |
| 1988 | Critical | 1,063 | 1,063 | 1,063 | 1,063 | 1,082 | 800 | 800 | 800 | 745 | 701 | 701 | 701 | 640 |
| 1989 | Dry | 975 | 975 | 975 | 975 | 829 | 9,554 | 3,573 | 3,134 | 3,859 | 2,884 | 1,740 | 1,532 | 1,882 |
| 1990 | Critical | 1,294 | 1,294 | 1,294 | 1,100 | 935 | 800 | 876 | 800 | 1,968 | 1,997 | 1,365 | 800 | 878 |
| 1991 | Critical | 1,422 | 1,422 | 1,422 | 429 | 375 | 1,745 | 1,745 | 1,745 | 2,274 | 5,000 | 517 | 560 | 1,133 |
| 1992 | Critical | 636 | 2,252 | 636 | 396 | 800 | 800 | 800 | 2,091 | 4,073 | 454 | 1,555 | 375 | 896 |
| 1993 | Above Normal | 500 | 571 | 800 | 4,399 | 8,371 | 9,683 | 4,612 | 4,263 | 3,789 | 3,570 | 1,750 | 3,384 | 2,735 |
| 1994 | Critical | 1,500 | 2,460 | 2,000 | 1,700 | 1,445 | 800 | 800 | 800 | 1,393 | 2,345 | 800 | 800 | 1,016 |
| 1995 | Wet | 800 | 800 | 800 | 14,562 | 6,573 | 19,730 | 7,712 | 9,169 | 7,887 | 2,924 | 3,275 | 3,977 | 4,729 |
| 1996 | Wet | 1,899 | 3,618 | 2,155 | 6,331 | 14,908 | 7,337 | 4,490 | 5,595 | 2,283 | 3,636 | 1,750 | 3,976 | 3,477 |
| 1997 | Wet | 2,893 | 3,843 | 14,886 | 38,218 | 7,378 | 1,878 | 1,750 | 1,750 | 1,750 | 4,844 | 1,750 | 3,350 | 5,118 |
| 1998 | Wet | 1,449 | 1,449 | 1,449 | 5,292 | 15,927 | 8,778 | 6,451 | 6,921 | 7,198 | 2,480 | 3,512 | 2,207 | 3,752 |
| 1999 | Wet | 2,675 | 3,824 | 3,616 | 6,158 | 14,232 | 6,023 | 3,517 | 3,574 | 3,032 | 5,000 | 1,750 | 3,202 | 3,369 |
| 2000 | Above Normal | 2,044 | 2,485 | 2,000 | 1,750 | 13,378 | 5,551 | 2,355 | 1,750 | 1,804 | 5,000 | 1,750 | 1,533 | 2,476 |
| 2001 | Dry | 1,500 | 2,024 | 1,750 | 1,488 | 1,264 | 800 | 800 | 1,182 | 1,426 | 1,269 | 800 | 800 | 911 |
| 2002 | Dry | 800 | 800 | 1,506 | 4,177 | 3,453 | 3,089 | 2,500 | 1,680 | 2,303 | 2,755 | 2,000 | 1,563 | 1,602 |
| 2003 | Above Normal | 1,500 | 2,460 | 2,559 | 4,702 | 2,671 | 1,750 | 2,552 | 4,113 | 1,750 | 5,000 | 1,750 | 2,278 | 2,001 |
| Average: | | 1,617 | 2,501 | | | | | | | | | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

American River below Nimbus (cfs)
 BA - Proposed Action (Q5)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|------------|--------------|---------|----------|----------|---------|----------|--------|--------|--------|-------|-------|--------|-----------|-------------|
| 1922 | Above Normal | 2,889 | 1,925 | 2,000 | 1,700 | 6,616 | 4,426 | 5,089 | 9,434 | 7,380 | 4,967 | 1,750 | 4,293 | 3,150 |
| 1923 | Below Normal | 1,500 | 2,283 | 8,005 | 5,316 | 3,101 | 1,750 | 4,541 | 3,652 | 1,750 | 5,000 | 3,843 | 1,533 | 2,561 |
| 1924 | Critical | 2,400 | 1,925 | 2,000 | 1,700 | 379 | 396 | 348 | 347 | 368 | 367 | 351 | 756 | 689 |
| 1925 | Dry | 500 | 500 | 504 | 323 | 7,237 | 2,789 | 4,526 | 2,928 | 5,000 | 3,977 | 1,750 | 1,533 | 1,875 |
| 1926 | Dry | 1,987 | 1,925 | 2,000 | 1,700 | 1,445 | 1,363 | 800 | 2,352 | 2,827 | 1,959 | 800 | 800 | 1,206 |
| 1927 | Wet | 1,434 | 1,434 | 1,942 | 3,875 | 16,943 | 5,285 | 6,768 | 4,548 | 3,622 | 4,298 | 3,063 | 1,870 | 3,259 |
| 1928 | Above Normal | 1,610 | 1,925 | 2,000 | 1,750 | 1,750 | 12,162 | 3,537 | 1,478 | 2,169 | 3,184 | 1,478 | 2,621 | 2,166 |
| 1929 | Critical | 1,500 | 1,630 | 1,678 | 1,426 | 1,212 | 1,144 | 1,144 | 1,144 | 1,086 | 1,074 | 1,074 | 1,074 | 917 |
| 1930 | Dry | 986 | 986 | 986 | 1,063 | 2,827 | 2,969 | 1,547 | 1,065 | 4,517 | 2,860 | 1,065 | 1,065 | 1,316 |
| 1931 | Critical | 1,500 | 1,621 | 1,576 | 1,340 | 1,139 | 408 | 375 | 351 | 811 | 696 | 3,766 | 447 | 849 |
| 1932 | Dry | 516 | 797 | 800 | 800 | 800 | 2,582 | 3,476 | 3,501 | 3,716 | 5,000 | 2,870 | 1,648 | 1,608 |
| 1933 | Critical | 2,211 | 2,268 | 2,000 | 1,700 | 1,445 | 392 | 1,734 | 1,542 | 2,118 | 1,019 | 4,170 | 778 | 1,292 |
| 1934 | Critical | 800 | 1,472 | 567 | 800 | 800 | 1,155 | 1,958 | 2,751 | 490 | 2,574 | 633 | 466 | 876 |
| 1935 | Below Normal | 627 | 500 | 611 | 800 | 800 | 1,750 | 6,289 | 4,554 | 5,000 | 5,000 | 1,750 | 1,633 | 1,771 |
| 1936 | Below Normal | 2,953 | 1,925 | 2,000 | 2,843 | 19,150 | 5,662 | 6,022 | 3,562 | 3,901 | 5,000 | 3,235 | 1,533 | 3,451 |
| 1937 | Below Normal | 2,893 | 1,925 | 2,000 | 1,700 | 1,847 | 5,005 | 3,781 | 3,843 | 4,246 | 3,916 | 1,750 | 1,533 | 2,084 |
| 1938 | Wet | 2,308 | 1,915 | 4,421 | 3,311 | 14,703 | 12,202 | 7,757 | 9,718 | 6,855 | 3,392 | 3,052 | 2,183 | 4,291 |
| 1939 | Dry | 1,870 | 3,085 | 2,000 | 1,700 | 1,445 | 800 | 890 | 1,072 | 1,236 | 4,877 | 457 | 452 | 1,203 |
| 1940 | Above Normal | 512 | 532 | 800 | 2,155 | 13,734 | 12,639 | 5,558 | 1,943 | 3,895 | 4,060 | 2,579 | 2,197 | 3,033 |
| 1941 | Wet | 1,500 | 1,683 | 5,208 | 6,028 | 8,368 | 5,060 | 3,501 | 4,051 | 2,108 | 2,600 | 1,836 | 4,734 | 2,796 |
| 1942 | Wet | 1,561 | 2,525 | 7,555 | 11,051 | 11,516 | 3,458 | 5,689 | 5,724 | 4,664 | 3,507 | 3,063 | 3,736 | 3,837 |
| 1943 | Wet | 1,500 | 3,689 | 3,585 | 12,283 | 7,589 | 11,346 | 5,061 | 1,750 | 1,750 | 4,803 | 1,804 | 3,300 | 3,522 |
| 1944 | Dry | 1,500 | 1,731 | 1,800 | 1,530 | 1,300 | 1,300 | 1,300 | 1,300 | 3,047 | 1,981 | 1,750 | 1,533 | 1,214 |
| 1945 | Below Normal | 1,193 | 1,193 | 1,193 | 1,193 | 10,823 | 2,343 | 2,666 | 2,377 | 4,814 | 3,691 | 1,750 | 1,533 | 2,053 |
| 1946 | Below Normal | 1,621 | 1,925 | 12,072 | 5,908 | 2,582 | 3,023 | 3,664 | 2,334 | 4,753 | 5,000 | 1,750 | 1,533 | 2,800 |
| 1947 | Dry | 1,500 | 1,540 | 1,554 | 1,321 | 1,123 | 800 | 1,954 | 2,123 | 2,002 | 2,727 | 800 | 800 | 1,103 |
| 1948 | Below Normal | 1,141 | 1,141 | 1,141 | 970 | 972 | 1,750 | 2,257 | 3,774 | 3,663 | 3,120 | 2,994 | 1,757 | 1,496 |
| 1949 | Dry | 1,500 | 1,925 | 2,000 | 1,700 | 1,445 | 1,750 | 2,843 | 2,096 | 3,836 | 3,282 | 1,750 | 1,533 | 1,549 |
| 1950 | Below Normal | 1,556 | 1,840 | 1,912 | 1,657 | 5,818 | 3,487 | 5,069 | 3,177 | 3,260 | 5,000 | 1,884 | 1,625 | 2,173 |
| 1951 | Above Normal | 1,500 | 14,511 | 17,790 | 10,696 | 7,564 | 4,362 | 1,852 | 1,750 | 3,248 | 3,861 | 2,315 | 1,703 | 4,288 |
| 1952 | Wet | 1,867 | 1,683 | 4,724 | 9,625 | 10,900 | 7,560 | 9,750 | 10,905 | 7,804 | 2,884 | 3,448 | 4,191 | 4,543 |
| 1953 | Wet | 1,500 | 2,213 | 2,415 | 7,913 | 2,476 | 1,750 | 2,442 | 2,236 | 3,613 | 4,127 | 2,295 | 2,896 | 2,169 |
| 1954 | Above Normal | 1,734 | 1,925 | 2,000 | 1,700 | 2,284 | 4,126 | 3,693 | 1,483 | 1,483 | 2,815 | 1,483 | 1,729 | 1,596 |
| 1955 | Dry | 1,500 | 1,866 | 1,939 | 1,648 | 1,401 | 1,401 | 1,401 | 1,401 | 1,750 | 2,796 | 1,750 | 1,533 | 1,232 |
| 1956 | Wet | 1,568 | 1,683 | 16,807 | 18,475 | 7,168 | 3,394 | 2,731 | 4,975 | 3,809 | 3,515 | 1,930 | 1,691 | 4,118 |
| 1957 | Above Normal | 2,826 | 3,233 | 2,000 | 1,700 | 2,418 | 4,619 | 1,750 | 1,750 | 2,790 | 3,137 | 2,472 | 1,611 | 1,830 |
| 1958 | Wet | 1,500 | 1,925 | 2,631 | 2,887 | 12,100 | 7,909 | 11,244 | 7,509 | 4,529 | 2,021 | 3,072 | 2,333 | 3,557 |
| 1959 | Below Normal | 2,326 | 2,343 | 2,000 | 1,700 | 3,061 | 805 | 1,049 | 800 | 1,655 | 4,099 | 800 | 800 | 1,288 |
| 1960 | Dry | 1,216 | 1,216 | 1,216 | 1,034 | 879 | 3,204 | 1,955 | 888 | 888 | 2,531 | 1,282 | 1,504 | 1,081 |
| 1961 | Dry | 1,500 | 1,747 | 1,816 | 1,544 | 1,312 | 800 | 800 | 800 | 800 | 3,750 | 447 | 461 | 955 |
| 1962 | Below Normal | 532 | 500 | 800 | 800 | 4,184 | 2,337 | 4,498 | 1,750 | 3,091 | 4,001 | 1,750 | 1,533 | 1,541 |
| 1963 | Wet | 1,747 | 4,665 | 3,907 | 4,613 | 12,478 | 2,454 | 7,236 | 6,309 | 3,171 | 3,977 | 1,864 | 1,560 | 3,212 |
| 1964 | Dry | 1,569 | 3,624 | 2,577 | 2,788 | 1,761 | 1,612 | 1,612 | 1,612 | 1,820 | 2,775 | 1,833 | 1,515 | 1,519 |
| 1965 | Wet | 1,488 | 1,488 | 21,414 | 14,772 | 5,750 | 1,885 | 4,691 | 3,027 | 2,679 | 4,763 | 1,750 | 3,677 | 4,084 |
| 1966 | Below Normal | 1,553 | 1,925 | 2,000 | 2,011 | 1,923 | 1,111 | 1,111 | 800 | 2,212 | 3,427 | 1,012 | 800 | 1,194 |
| 1967 | Wet | 1,500 | 1,683 | 4,114 | 8,026 | 5,743 | 7,023 | 5,254 | 7,579 | 6,158 | 2,445 | 3,158 | 4,635 | 3,455 |
| 1968 | Below Normal | 1,500 | 2,295 | 2,000 | 1,889 | 6,849 | 2,227 | 840 | 840 | 3,175 | 1,873 | 840 | 840 | 1,506 |
| 1969 | Wet | 1,563 | 1,683 | 1,750 | 23,929 | 11,925 | 5,491 | 7,491 | 8,429 | 4,975 | 3,408 | 2,006 | 4,030 | 4,608 |
| 1970 | Wet | 1,500 | 2,512 | 6,050 | 25,092 | 6,892 | 3,831 | 1,750 | 1,750 | 2,286 | 3,967 | 1,750 | 1,533 | 3,565 |
| 1971 | Wet | 1,347 | 1,347 | 5,763 | 5,675 | 3,835 | 4,320 | 2,309 | 3,182 | 2,783 | 4,153 | 1,750 | 3,357 | 2,406 |
| 1972 | Below Normal | 1,500 | 2,477 | 2,000 | 1,700 | 3,049 | 4,206 | 1,608 | 1,608 | 1,608 | 2,986 | 1,608 | 1,514 | 1,564 |
| 1973 | Above Normal | 1,500 | 1,744 | 2,703 | 9,634 | 8,470 | 4,177 | 2,553 | 3,155 | 3,710 | 4,348 | 1,750 | 1,533 | 2,715 |
| 1974 | Wet | 1,500 | 4,613 | 8,500 | 13,137 | 5,473 | 10,502 | 6,234 | 2,980 | 2,509 | 3,574 | 1,750 | 4,130 | 3,923 |
| 1975 | Wet | 1,500 | 1,925 | 2,000 | 1,700 | 4,212 | 5,093 | 2,550 | 5,099 | 3,663 | 2,823 | 1,750 | 2,506 | 2,095 |
| 1976 | Critical | 3,614 | 2,832 | 2,025 | 1,700 | 1,445 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 1,042 |
| 1977 | Critical | 800 | 800 | 800 | 800 | 419 | 401 | 360 | 305 | 357 | 362 | 323 | 375 | 369 |
| 1978 | Above Normal | 481 | 500 | 517 | 3,765 | 5,766 | 7,011 | 4,811 | 2,410 | 2,375 | 5,000 | 1,750 | 2,282 | 2,201 |
| 1979 | Below Normal | 1,543 | 1,925 | 2,000 | 1,700 | 3,433 | 4,181 | 2,070 | 2,753 | 4,839 | 2,466 | 1,750 | 1,533 | 1,815 |
| 1980 | Above Normal | 1,500 | 1,844 | 1,917 | 18,533 | 15,243 | 5,304 | 2,813 | 1,936 | 2,280 | 4,564 | 1,865 | 2,913 | 3,653 |
| 1981 | Dry | 1,500 | 1,925 | 2,000 | 1,750 | 1,750 | 800 | 800 | 800 | 4,711 | 2,720 | 439 | 458 | 1,182 |
| 1982 | Wet | 800 | 3,103 | 18,216 | 10,815 | 17,975 | 9,764 | 17,852 | 8,748 | 4,490 | 2,023 | 2,785 | 4,279 | 6,035 |
| 1983 | Wet | 2,552 | 8,507 | 11,611 | 10,332 | 15,805 | 19,927 | 6,881 | 10,168 | 9,094 | 3,552 | 3,580 | 2,416 | 6,273 |
| 1984 | Wet | 1,975 | 16,600 | 22,909 | 7,710 | 6,456 | 4,171 | 1,750 | 1,794 | 3,569 | 5,000 | 1,750 | 3,145 | 4,649 |
| 1985 | Dry | 1,475 | 1,475 | 1,834 | 1,475 | 2,153 | 1,123 | 2,173 | 1,698 | 3,606 | 2,543 | 1,332 | 940 | 1,313 |
| 1986 | Wet | 1,445 | 1,445 | 1,445 | 4,492 | 37,305 | 12,221 | 2,457 | 1,750 | 1,750 | 5,000 | 1,750 | 3,631 | 4,352 |
| 1987 | Dry | 1,500 | 1,865 | 1,787 | 1,519 | 1,291 | 800 | 800 | 1,207 | 1,136 | 1,006 | 800 | 800 | 875 |
| 1988 | Critical | 1,088 | 1,088 | 1,088 | 1,088 | 1,088 | 800 | 800 | 800 | 734 | 679 | 679 | 679 | 642 |
| 1989 | Dry | 970 | 970 | 970 | 824 | 824 | 9,554 | 3,573 | 3,144 | 4,024 | 2,412 | 1,740 | 1,532 | 1,862 |
| 1990 | Critical | 1,375 | 1,375 | 1,375 | 1,169 | 994 | 800 | 872 | 800 | 1,887 | 1,830 | 1,333 | 800 | 883 |
| 1991 | Critical | 1,456 | 1,456 | 1,456 | 430 | 375 | 1,745 | 1,745 | 1,745 | 1,578 | 2,481 | 1,578 | 1,578 | 1,069 |
| 1992 | Critical | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 2,639 | 4,645 | 459 | 411 | 465 | 858 |
| 1993 | Above Normal | 1,605 | 571 | 800 | 4,476 | 8,371 | 9,683 | 4,587 | 4,237 | 3,759 | 4,905 | 1,750 | 1,953 | 2,800 |
| 1994 | Critical | 1,500 | 1,925 | 2,000 | 1,700 | 1,445 | 800 | 800 | 800 | 1,348 | 4,286 | 452 | 463 | 1,060 |
| 1995 | Wet | 521 | 800 | 800 | 14,022 | 6,570 | 19,721 | 7,712 | 9,169 | 7,887 | 3,127 | 3,072 | 4,338 | 4,700 |
| 1996 | Wet | 1,675 | 2,577 | 3,021 | 6,348 | 14,908 | 7,337 | 4,490 | 5,595 | 2,283 | 3,673 | 1,750 | 4,055 | 3,463 |
| 1997 | Wet | 2,411 | 2,805 | 16,258 | 38,218 | 7,378 | 1,895 | 1,750 | 1,750 | 3,913 | 4,649 | 1,750 | 1,533 | 5,120 |
| 1998 | Wet | 1,476 | 1,476 | 1,476 | 5,335 | 15,941 | 8,778 | 6,451 | 6,921 | 7,198 | 2,480 | 3,512 | 2,215 | 3,760 |
| 1999 | Wet | 3,514 | 3,078 | 3,493 | 6,158 | 14,232 | 6,023 | 3,517 | 3,574 | 3,052 | 5,000 | 1,750 | 2,759 | 3,343 |
| 2000 | Above Normal | 2,015 | 2,421 | 2,000 | 1,771 | 13,886 | 5,551 | 2,355 | 1,750 | 2,202 | 5,000 | 1,750 | 1,533 | 2,525 |
| 2001 | Dry | 1,500 | 1,683 | 1,750 | 1,488 | 1,264 | 800 | 800 | 1,071 | 3,611 | 800 | 800 | 800 | 985 |
| 2002 | Dry | 800 | 800 | 800 | 3,200 | 3,443 | 3,089 | 2,476 | 1,680 | 3,214 | 2,769 | 1,680 | 1,524 | 1,530 |
| 2003 | Above Normal | 1,500 | 1,792 | 2,524 | 4,691 | 2,659 | 1,750 | 2,546 | 4,113 | 1,750 | 5,000 | 1,792 | 2,201 | 1,955 |
| Average: | | 1,565 | | | | | | | | | | | | |

Reclamation/DWR California Water Fix Biological Assessment Modeling
 Comparison of No Action Alternative (QS Central Tendency Climate Change) and Proposed Action (QS Central Tendency Climate Change)

American River below Nimbus (cfs)
 Difference Between BA - Proposed Action (QS) and BA - No Action Alternative (QS)

| Water Year | Year Type | October | November | December | January | February | March | April | May | June | July | August | September | Total (TAF) |
|---------------|--------------|---------|----------|----------|---------|----------|--------|--------|------|--------|--------|--------|-----------|-------------|
| 1922 | Above Normal | 142 | 0 | 0 | 0 | -156 | 0 | 0 | 0 | 0 | 1,371 | 0 | -707 | 42 |
| 1923 | Below Normal | -554 | -765 | 623 | 0 | -62 | 0 | 58 | 0 | 0 | 0 | 2,093 | 0 | 87 |
| 1924 | Critical | 361 | 0 | 0 | 0 | 0 | -276 | -6 | -81 | -756 | -553 | -456 | -81 | -112 |
| 1925 | Dry | 0 | 0 | 0 | 0 | -160 | 0 | 0 | -6 | 329 | -379 | 0 | 0 | -13 |
| 1926 | Dry | 487 | 0 | 0 | 0 | 0 | 563 | -900 | 333 | -180 | -449 | 0 | 0 | -7 |
| 1927 | Wet | 36 | 36 | 9 | -3 | -3 | 0 | 0 | 0 | 0 | -702 | 1,052 | -879 | -26 |
| 1928 | Above Normal | 110 | -311 | 0 | 0 | 0 | 683 | 6 | 0 | 345 | -1,816 | 0 | 1,143 | 8 |
| 1929 | Critical | 0 | 103 | 141 | 119 | 102 | 33 | 33 | 33 | -82 | -56 | -56 | -56 | 19 |
| 1930 | Dry | 8 | 8 | 8 | -13 | -2 | 0 | -6 | 0 | 1,275 | -756 | 0 | 0 | 30 |
| 1931 | Critical | -404 | -62 | -174 | -148 | -126 | -1 | 0 | 0 | 284 | -104 | 1,785 | -1,274 | -11 |
| 1932 | Dry | -184 | 178 | 0 | 0 | -86 | -101 | -1 | 0 | 104 | 2,990 | 186 | -1,314 | 111 |
| 1933 | Critical | 589 | 11 | 0 | 0 | 0 | -1,053 | -1,102 | -72 | -1,624 | 507 | 700 | 0 | -120 |
| 1934 | Critical | 0 | 256 | -233 | 0 | 0 | 147 | -2 | -2 | -104 | -12 | -40 | -1 | 0 |
| 1935 | Below Normal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,930 | 2,494 | -943 | 9 | 211 |
| 1936 | Below Normal | 231 | -11 | 0 | -3,572 | 0 | 0 | 0 | 0 | 0 | 0 | 1,485 | 0 | -115 |
| 1937 | Below Normal | 586 | 0 | 0 | 0 | -2,265 | -2 | 0 | 0 | 2,496 | -690 | 0 | -112 | 10 |
| 1938 | Wet | 808 | -10 | -2,366 | 0 | 0 | 0 | 0 | 0 | 0 | 973 | -41 | 500 | -9 |
| 1939 | Dry | -1,403 | -344 | 0 | 0 | 0 | 0 | -129 | 81 | 74 | 1,121 | -65 | -2 | -40 |
| 1940 | Above Normal | 0 | -268 | 0 | -467 | 0 | -9 | -23 | -25 | 1,194 | -940 | -185 | -238 | -60 |
| 1941 | Wet | 0 | 2 | 54 | -12 | -13 | 0 | 0 | 0 | 0 | 171 | -164 | 130 | 10 |
| 1942 | Wet | 19 | -1,082 | 895 | 0 | 0 | 0 | 0 | 0 | 0 | 478 | 1,193 | -1,264 | 19 |
| 1943 | Wet | -347 | -1,041 | 917 | 0 | 0 | 10 | 15 | 0 | 0 | -197 | 54 | 45 | -32 |
| 1944 | Dry | 0 | 48 | 50 | 42 | 36 | 36 | 36 | 36 | 291 | -398 | 0 | 0 | 10 |
| 1945 | Below Normal | 24 | 24 | 24 | 24 | -49 | 0 | 0 | 0 | 1,574 | -893 | 0 | -420 | 17 |
| 1946 | Below Normal | 121 | -86 | -243 | 0 | 0 | -2 | -4 | -4 | 2,119 | 0 | -679 | -842 | 21 |
| 1947 | Dry | 0 | -144 | -196 | -166 | -141 | 0 | 1,154 | -217 | -602 | 343 | 0 | 0 | 2 |
| 1948 | Below Normal | -249 | -249 | -249 | -212 | -33 | 0 | 340 | -8 | 0 | 380 | -168 | 224 | -14 |
| 1949 | Dry | -222 | -169 | 0 | 0 | 0 | 0 | -106 | -226 | 1,039 | -343 | -228 | 0 | -17 |
| 1950 | Below Normal | 56 | -57 | -59 | -141 | 0 | 1 | 0 | 0 | 698 | 912 | -129 | 28 | 79 |
| 1951 | Above Normal | -430 | -1,057 | 0 | 0 | 0 | 3 | 6 | 0 | 1,498 | -1,139 | 294 | -481 | -80 |
| 1952 | Wet | -381 | 0 | 294 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 381 | 18 |
| 1953 | Wet | -377 | -992 | 415 | 553 | 0 | 0 | 9 | 0 | 0 | 557 | -397 | 66 | -8 |
| 1954 | Above Normal | -700 | -635 | 0 | 0 | 584 | 561 | 0 | 0 | 0 | -2,185 | 0 | 246 | -134 |
| 1955 | Dry | 0 | 318 | 374 | 318 | 172 | 270 | 270 | 270 | -199 | -12 | 0 | 0 | 108 |
| 1956 | Wet | 68 | 34 | 16 | -1 | -1 | 0 | 0 | 0 | 0 | 431 | 153 | -116 | 36 |
| 1957 | Above Normal | -1,252 | -343 | -122 | 0 | 973 | 356 | 0 | 0 | 1,040 | -1,863 | 450 | -226 | -67 |
| 1958 | Wet | 0 | 0 | 631 | 96 | 7 | -7 | 0 | 0 | 0 | 184 | 79 | 128 | 68 |
| 1959 | Below Normal | -841 | -780 | 0 | 0 | 1,336 | 5 | 2 | 0 | 855 | -901 | 0 | 0 | -28 |
| 1960 | Dry | 59 | 59 | 59 | 50 | 43 | -86 | -656 | 0 | 0 | -56 | -579 | 306 | -49 |
| 1961 | Dry | 0 | 64 | 66 | 56 | 48 | 0 | 0 | 0 | 68 | 471 | 4 | 0 | 47 |
| 1962 | Below Normal | 0 | 0 | 0 | 0 | 55 | 0 | 1 | 0 | 1,341 | -999 | -619 | 0 | -17 |
| 1963 | Wet | 247 | 89 | 1 | 1 | 1 | 0 | 0 | 0 | 1,170 | -1,023 | -12 | -93 | 21 |
| 1964 | Dry | -1,228 | 180 | 577 | 473 | 0 | 0 | 0 | 0 | -341 | 329 | 149 | 0 | 9 |
| 1965 | Wet | -12 | -44 | -80 | 1 | 1 | 0 | 0 | 0 | 409 | -237 | 0 | -599 | -34 |
| 1966 | Below Normal | -49 | -9 | 0 | 261 | 173 | 78 | 26 | -72 | 1,327 | -1,573 | 125 | 0 | 14 |
| 1967 | Wet | 0 | 69 | 345 | 12 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 236 | 41 |
| 1968 | Below Normal | 0 | -1,175 | -167 | 189 | 947 | 0 | 0 | 0 | 2,075 | -3,127 | 0 | 0 | -83 |
| 1969 | Wet | 63 | 181 | 246 | 669 | 3 | 0 | 0 | 0 | 0 | 1,658 | -1,230 | -431 | 72 |
| 1970 | Wet | 0 | -776 | 750 | 0 | 0 | 0 | 0 | 0 | 536 | -1,033 | 0 | -915 | -86 |
| 1971 | Wet | 522 | 522 | 358 | 0 | 0 | -7 | -21 | -284 | 248 | 193 | 0 | -369 | 71 |
| 1972 | Below Normal | -80 | -882 | 0 | 0 | 1,048 | 2 | 0 | 0 | 0 | -1,451 | 0 | 0 | -86 |
| 1973 | Above Normal | 0 | 185 | 1,122 | 145 | 1 | -1 | 0 | 0 | 478 | -652 | 0 | 0 | 77 |
| 1974 | Wet | 0 | 195 | 0 | 0 | 0 | 0 | 0 | 0 | 402 | -403 | 0 | 17 | 12 |
| 1975 | Wet | 0 | -1,002 | 0 | 0 | 1,071 | 12 | 0 | 0 | 0 | 71 | 0 | 189 | 16 |
| 1976 | Critical | -253 | -581 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -49 |
| 1977 | Critical | 0 | 0 | 0 | 392 | 9 | 0 | 0 | 0 | 0 | 0 | -23 | 0 | 23 |
| 1978 | Above Normal | 0 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | 0 | 149 | 0 | -156 | -1 |
| 1979 | Below Normal | 43 | -642 | 0 | 0 | 642 | 0 | 0 | 0 | 137 | -334 | -190 | 0 | -24 |
| 1980 | Above Normal | 0 | 110 | 114 | 163 | 0 | -3 | -5 | -5 | -6 | 904 | 115 | -362 | 64 |
| 1981 | Dry | 0 | -809 | 0 | 0 | 0 | 0 | 0 | 0 | 3,326 | 855 | -439 | -342 | 155 |
| 1982 | Wet | -673 | -2,556 | -5 | -5 | -5 | 0 | 0 | 0 | 0 | 0 | 0 | 616 | -158 |
| 1983 | Wet | -594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -37 |
| 1984 | Wet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 932 | 0 | 0 | -183 | 45 |
| 1985 | Dry | -25 | -208 | -476 | -275 | 304 | 0 | 0 | 532 | -509 | -714 | 391 | 0 | -61 |
| 1986 | Wet | 111 | 111 | 111 | -53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -263 | 1 |
| 1987 | Dry | 0 | -33 | 37 | 31 | 27 | 0 | 0 | 217 | -113 | -29 | 0 | 0 | 9 |
| 1988 | Critical | 25 | 25 | 25 | 25 | 6 | 0 | 0 | 0 | -10 | -22 | -22 | -22 | 2 |
| 1989 | Dry | -5 | -5 | -5 | -5 | -4 | 0 | -5 | 9 | 165 | -472 | 0 | 0 | -20 |
| 1990 | Critical | 81 | 81 | 81 | 69 | 59 | 0 | -3 | 0 | -81 | -167 | -32 | 0 | 5 |
| 1991 | Critical | 34 | 34 | 34 | 0 | 0 | 0 | 0 | 0 | -696 | -2,519 | 1,061 | 1,017 | -64 |
| 1992 | Critical | 164 | -1,452 | 164 | 404 | 0 | 0 | 0 | 548 | 572 | 5 | -1,144 | 90 | -38 |
| 1993 | Above Normal | 1,105 | -1 | 0 | 77 | 0 | 0 | -25 | -26 | -30 | 1,335 | 0 | -1,431 | 65 |
| 1994 | Critical | 0 | -535 | 0 | 0 | 0 | 0 | 0 | 0 | -45 | 1,942 | -348 | -337 | 43 |
| 1995 | Wet | -279 | 0 | 0 | -540 | -3 | -9 | 0 | 0 | 0 | 204 | -203 | 361 | -29 |
| 1996 | Wet | -224 | -1,041 | 866 | 17 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 78 | -15 |
| 1997 | Wet | -482 | -1,038 | 1,373 | 0 | 0 | 18 | 0 | 0 | 2,163 | -195 | 0 | -1,817 | 3 |
| 1998 | Wet | 27 | 27 | 27 | 42 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 9 |
| 1999 | Wet | 839 | -746 | -123 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | -443 | -26 |
| 2000 | Above Normal | -29 | -64 | 0 | 21 | 508 | 0 | 0 | 0 | 399 | 0 | 0 | 0 | 49 |
| 2001 | Dry | 0 | -341 | 0 | 0 | 0 | 0 | 0 | -111 | 2,185 | -469 | 0 | 0 | 74 |
| 2002 | Dry | 0 | 0 | -706 | -976 | -10 | -1 | -24 | 0 | 911 | 14 | -320 | -39 | -72 |
| 2003 | Above Normal | 0 | -668 | -35 | -11 | -12 | 0 | -6 | 0 | 0 | 0 | 42 | -76 | -46 |
| Average: | | -53 | -245 | 68 | -29 | 62 | 15 | -13 | 11 | 374 | -107 | 33 | -123 | -1 |
| Minimum: | | -1,403 | -2,556 | -2,366 | -3,572 | -2,265 | -1,053 | -1,102 | -284 | -1,624 | -3,127 | -1,230 | -1,817 | -158 |
| Maximum: | | 1,105 | 522 | 1,373 | 669 | 1,336 | 683 | 1,154 | 548 | 3,326 | 2,990 | 2,093 | 1,143 | 211 |
| Wet: | | -24 | -349 | 182 | 30 | 42 | 1 | 0 | -11 | 226 | 45 | 19 | -178 | -1 |
| Above Normal: | | -88 | -254 | 90 | -6 | 158 | 132 | -4 | -5 | 410 | -403 | 60 | -191 | -7 |
| Below Normal: | | -51 | -331 | -5 | -246 | 128 | 6 | 30 | -6 | 1,039 | -442 | 70 | -80 | 5 |
| Dry: | | -140 | -67 | -12 | -26 | 12 | 38 | -20 | 51 | 435 | 114 | -50 | -77 | 15 |
| Critical: | | 50 | -176 | 5 | 72 | 4 | -96 | -90 | 35 | -212 | -82 | 119 | -55 | -25 |

STATEMENT OF SERVICE


**CALIFORNIA WATERFIX PETITION HEARING
Department of Water Resources and U.S. Bureau of Reclamation (Petitioners)**

I hereby certify that I have this day submitted to the State Water Resources Control Board and caused a true and correct copy of the following document(s):

California WaterFix Hearing – Letter to DOI and DWR regarding Hydrologic Modeling
Supporting Petitioners' Rebuttal Testimony

to be served **by Electronic Mail** (email) upon the parties listed in Table 1 of the Current Service List for the California WaterFix Petition hearing, dated March 30, 2017, posted by the State Water Resources Control Board at
http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/service_list.shtml:

I certify that the foregoing is true and correct and that this document was executed on April 11, 2017.

Signature: 

Name: Terry M. Olson

Title: Legal Assistant

Party/Affiliation: Cities of Folsom, Roseville, Sacramento Suburban Water District, San Juan Water District

Address: 1011 22nd Street
Sacramento, CA 95816