# Appendix 8H
# Electrical Conductivity

## 8H.1 Appendix Overview

This appendix begins with a brief overview of the electrical conductivity methodology and uncertainties and limitations inherent in the methodology, then provides tables of the results of the modeling approach. This appendix also includes technical memoranda prepared for use in the EIR/EIS. The formats, figure numbers, and table numbers in the individual memoranda were not changed because the memos were incorporated in their entirety. The following memos are included as separate Attachments to Appendix 8H:

- Attachment 1: BDCP EIR/EIS Water Quality Sensitivity Analysis
- Attachment 2: San Joaquin River Salinity Objective at and between Jersey Point and Prisoners Point

## 8H.2 Electrical Conductivity Methodology

Electrical conductivity (EC) was modeled quantitatively for the Delta using DSM2-QUAL model output. Section 8.3.1.1, 8.3.1.3, and the EC discussion under section 8.3.1.7 provide more detailed information regarding the assessment methodology for EC and the details of the quantitative approach. ~~Tables to support the assessment are provided below.~~

The assessment of Bay-Delta WQCP EC objectives showed exceedances of these objectives at several locations under Existing Conditions, No Action, and BDCP Alternatives. Understanding the uncertainties and limitations in the modeling and assessment approach is important for interpreting the results and effects analysis, including assessment of compliance with water quality objectives. Please refer to Section 8.3.1.1, *Models Used and Their Linkages*, and Section 8.3.1.3, *Plan Area*, for a description of these limitations. In light of these limitations, the assessment of compliance is conducted in terms of assessing the overall direction and degree to which Delta EC would be affected relative to a baseline, and discussion of compliance does not imply that the alternative would literally cause Delta EC to be out of compliance a certain period of time. In other words, the model results are used in a comparative mode, not a predictive mode.

Furthermore, there are several factors related to the modeling approach that may result in modeling artifacts that show objective exceedance, when in reality no such exceedance would occur. Sensitivity analyses and further other analyses were performed to evaluate whether exceedances were indeed modeling artifacts or were potential project related impacts that may actually occur. The sensitivity analysis modeling runs were limited to the Existing Conditions, No Action Alternative, and Alternative 4 Scenario H3, but the findings from these analyses can generally be extended to other scenarios of Alternative 4 and the other project alternatives. A complete discussion of the sensitivity analysis modeling runs performed and the results for EC is included in Attachment 1 of this Appendix.~~Water quality modeling using CALSIM II and DSM2 for BDCP alternatives adjusts SWP and CVP operations to fully comply with D-1641 standards. CALSIM II is a model with a monthly time-step, whereas a number of D-1641 standards are described in shorter~~

~~time-steps. The DSM2 model is used to refine CALSIM II simulation results for a shorter 15-minute time-step, and to account for other localized model assumptions (e.g., tide) and more Delta-specific assumptions. This variation in time-step can create an unintended consequence of CALSIM II correctly adjusting modeled reservoir releases and exports in order to maintain compliance over a monthly average, while DSM2 potentially reporting an exceedance over part of the month based upon those same reservoir releases and exports. Therefore, DSM2 results may show an exceedance of D-1641 standards when, in these cases, this is a modeling anomaly and not reflective of an actual violation.~~

~~It should be noted that many of the modeling results showing exceedance of D-1641 standards reported in Appendix 8H are the result of this mismatch in modeling time-step, known shortcomings in the ANN model to mirror DSM2 modeled flow-salinity interaction, and/or CALSIM II model's limited ability to simulate real-time operational adjustments to avoid exceedance of the standards in shorter time-steps. DWR and USBR have every intention of operating SWP and CVP facilities by fine tuning reservoir storage and exports in real time to meet D-1641 standards, and any changes to D-1641 as adopted by the SWRCB. Actual operations are continuously adjusted to respond to reservoir storages, river flows, exports, in-Delta demands, tides, and other factors to insure compliance to regulatory requirements to the extent possible.~~

DWR and USBR have every intention of operating SWP and CVP facilities by fine tuning reservoir storage and exports in real time to meet D-1641 standards, and any changes to D-1641 as adopted by the SWRCB. Actual operations are continuously adjusted to respond to reservoir storages, river flows, exports, in-Delta demands, tides, and other factors to insure compliance to regulatory requirements to the extent possible.

For further information, additional description of the model limitations related to the water quality modeling results are found in Appendix 5A. The limitations of the input assumptions described in Appendix 5A, such as Delta agricultural drainage and return flows, should be considered when DSM2 EC results are used to compare performance of a baseline or an alternative against the standards.

## 8H.3 Electrical Conductivity Modeling Results and Compliance Assessment Tables

**Table EC-1. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 1 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 1 LLT | Ex. Cond. | No Act. LLT | Alt 1 LLT | Ex. Cond. | No Act. LLT | Alt 1 LLT | Ex. Cond. | No Act. LLT | Alt 1 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 5~~444~~ | 6 | 14~~12~~ | ~~2~~2 | 233 | 540~~485~~ | 160~~148~~ | 11 | 25~~22~~ | ~~7~~7 |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 668~~591~~ | 6 | 14~~12~~ | 31~~27~~ | 233 | 540~~485~~ | 977~~849~~ | 11 | 25~~22~~ | 45~~39~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 319~~257~~ | 19 | 14~~11~~ | 15~~12~~ | 623 | 566~~464~~ | 514~~426~~ | 29 | 26~~21~~ | 24~~20~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | 73~~49~~ | 1 | 1~~1~~ | 3~~2~~ | 27 | 26~~26~~ | 138~~101~~ | 1 | 1~~1~~ | 6~~5~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 154~~154~~ | 3 | 3~~3~~ | 3~~3~~ | 424 | 415~~415~~ | 415~~415~~ | 7 | 7~~7~~ | 7~~7~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 193~~193~~ | 3 | 3~~3~~ | 3~~3~~ | 449 | 444~~444~~ | 483~~483~~ | 8 | 8~~8~~ | 8~~8~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 178~~178~~ | 3 | 3~~3~~ | 3~~3~~ | 444 | 438~~438~~ | 439~~439~~ | 8 | 7~~7~~ | 8~~8~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 211~~211~~ | 4 | 4~~4~~ | 4~~4~~ | 569 | 467~~467~~ | 472~~472~~ | 10 | 8~~8~~ | 8~~8~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 2~~1~~0 | 2~~1~~0 | 0 | 3~~0~~ | 3~~0~~ | 0 | 2~~1~~0 | 2~~1~~0 | 0 | 3~~0~~ | 3~~0~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 17~~17~~ | 6 | 1~~1~~ | 2~~3~~ | 64 | 10~~10~~ | 17~~17~~ | 10 | 1~~1~~ | 2~~3~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-2. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 2 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 2 LLT | Ex. Cond. | No Act. LLT | Alt 2 LLT | Ex. Cond. | No Act. LLT | Alt 2 LLT | Ex. Cond. | No Act. LLT | Alt 2 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 38~~38~~ | 6 | 14~~12~~ | 2~~2~~ | 233 | 540~~485~~ | 142~~142~~ | 11 | 25~~22~~ | 7~~7~~ |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 567~~491~~ | 6 | 14~~12~~ | 26~~23~~ | 233 | 540~~485~~ | 868~~761~~ | 11 | 25~~22~~ | 40~~35~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 377~~322~~ | 19 | 14~~11~~ | 17~~15~~ | 623 | 566~~464~~ | 598~~524~~ | 29 | 26~~21~~ | 27~~24~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | 105~~78~~ | 1 | 1~~1~~ | 5~~4~~ | 27 | 26~~26~~ | 174~~134~~ | 1 | 1~~1~~ | 8~~6~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 154~~154~~ | 3 | 3~~3~~ | 3~~3~~ | 424 | 415~~415~~ | 415~~415~~ | 7 | 7~~7~~ | 7~~7~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 177~~177~~ | 3 | 3~~3~~ | 3~~3~~ | 449 | 444~~444~~ | 438~~438~~ | 8 | 8~~8~~ | 7~~7~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 184~~184~~ | 3 | 3~~3~~ | 3~~3~~ | 444 | 438~~438~~ | 445~~445~~ | 8 | 7~~7~~ | 8~~8~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 330~~330~~ | 4 | 4~~4~~ | 6~~6~~ | 569 | 467~~467~~ | 678~~678~~ | 10 | 8~~8~~ | 12~~12~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 21~~0~~ | 10~~0~~ | 0 | 3~~0~~ | 1~~0~~ | 0 | 21~~0~~ | 15~~0~~ | 0 | 3~~0~~ | 2~~0~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 185~~167~~ | 6 | 1~~1~~ | 25~~25~~ | 64 | 10~~10~~ | 210~~179~~ | 10 | 1~~1~~ | 29~~27~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-3. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 3 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 3 LLT | Ex. Cond. | No Act. LLT | Alt 3 LLT | Ex. Cond. | No Act. LLT | Alt 3 LLT | Ex. Cond. | No Act. LLT | Alt 3 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 53~~42~~ | 6 | 14~~12~~ | 2~~2~~ | 233 | 540~~485~~ | 159~~146~~ | 11 | 25~~22~~ | 7~~7~~ |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 663~~583~~ | 6 | 14~~12~~ | 30~~27~~ | 233 | 540~~485~~ | 951~~840~~ | 11 | 25~~22~~ | 44~~39~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 328~~261~~ | 19 | 14~~11~~ | 15~~12~~ | 623 | 566~~464~~ | 536~~456~~ | 29 | 26~~21~~ | 25~~21~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | 77~~53~~ | 1 | 1~~1~~ | 4~~2~~ | 27 | 26~~26~~ | 129~~92~~ | 1 | 1~~1~~ | 6~~4~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 154~~154~~ | 3 | 3~~3~~ | 3~~3~~ | 424 | 415~~415~~ | 415~~415~~ | 7 | 7~~7~~ | 7~~7~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 181~~181~~ | 3 | 3~~3~~ | 3~~3~~ | 449 | 444~~444~~ | 442~~442~~ | 8 | 8~~8~~ | 8~~8~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 178~~178~~ | 3 | 3~~3~~ | 3~~3~~ | 444 | 438~~438~~ | 439~~439~~ | 8 | 7~~7~~ | 8~~8~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 210~~210~~ | 4 | 4~~4~~ | 4~~4~~ | 569 | 467~~467~~ | 471~~471~~ | 10 | 8~~8~~ | 8~~8~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 2~~1~~0 | 2~~1~~0 | 0 | 3~~0~~ | 3~~0~~ | 0 | 2~~1~~0 | 2~~1~~0 | 0 | 3~~0~~ | 3~~0~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 16~~16~~ | 6 | 1~~1~~ | 2~~2~~ | 64 | 10~~10~~ | 16~~16~~ | 10 | 1~~1~~ | 2~~2~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-4. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 4 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | | | | % of Days Objective Exceeded [b] | | | | | | # of Days Out of Compliance [c] | | | | | | % of Days Out of Compliance [c] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 4 LLT H1 | Alt 4 LLT H2 | Alt 4 LLT H3 | Alt 4 LLT H4 | Ex. Cond. | No Act. LLT | Alt 4 LLT H1 | Alt 4 LLT H2 | Alt 4 LLT H3 | Alt 4 LLT H4 | Ex. Cond. | No Act. LLT | Alt 4 LLT H1 | Alt 4 LLT H2 | Alt 4 LLT H3 | Alt 4 LLT H4 | Ex. Cond. | No Act. LLT | Alt 4 LLT H1 | Alt 4 LLT H2 | Alt 4 LLT H3 | Alt 4 LLT H4 |
| ~~Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR)~~ [d] | ~~2,176~~ | ~~120~~ | ~~297258~~ | ~~3737~~ | ~~5756~~ | ~~3233~~ | ~~5753~~ | ~~6~~ | ~~1412~~ | ~~22~~ | ~~33~~ | ~~12~~ | ~~32~~ | ~~233~~ | ~~540485~~ | ~~154154~~ | ~~187173~~ | ~~136137~~ | ~~187157~~ | ~~11~~ | ~~2522~~ | ~~77~~ | ~~98~~ | ~~66~~ | ~~97~~ |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | ~~297258~~ | ~~587508~~ | ~~626546~~ | ~~601507~~ | ~~627553~~ | 6 | ~~1412~~ | ~~2723~~ | ~~2925~~ | ~~2823~~ | ~~2925~~ | 233 | ~~540485~~ | ~~876766~~ | ~~935813~~ | ~~923791~~ | ~~930822~~ | 11 | ~~2522~~ | ~~4035~~ | ~~4337~~ | ~~4236~~ | ~~4338~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | ~~299230~~ | ~~411354~~ | ~~336289~~ | ~~380327~~ | ~~306247~~ | 19 | ~~1411~~ | ~~1916~~ | ~~1513~~ | ~~1715~~ | ~~1411~~ | 623 | ~~566464~~ | ~~638562~~ | ~~531471~~ | ~~594522~~ | ~~520429~~ | 29 | ~~2621~~ | ~~2926~~ | ~~2422~~ | ~~2724~~ | ~~2420~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ | 0 | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ | 0 | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ | 0 | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ | ~~00~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | ~~1313~~ | ~~11692~~ | ~~7070~~ | ~~12195~~ | ~~5555~~ | 1 | ~~11~~ | ~~54~~ | ~~33~~ | ~~64~~ | ~~33~~ | 27 | ~~2626~~ | ~~194157~~ | ~~135135~~ | ~~199160~~ | ~~107107~~ | 1 | ~~11~~ | ~~97~~ | ~~66~~ | ~~97~~ | ~~55~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | ~~154154~~ | ~~154154~~ | ~~153153~~ | ~~154154~~ | ~~153153~~ | 3 | ~~33~~ | ~~33~~ | ~~33~~ | ~~33~~ | ~~33~~ | 424 | ~~415415~~ | ~~415415~~ | ~~414414~~ | ~~415415~~ | ~~414414~~ | 7 | ~~77~~ | ~~77~~ | ~~77~~ | ~~77~~ | ~~77~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | ~~183183~~ | ~~177177~~ | ~~176176~~ | ~~177177~~ | ~~176176~~ | 3 | ~~33~~ | ~~33~~ | ~~33~~ | ~~33~~ | ~~33~~ | 449 | ~~444444~~ | ~~438438~~ | ~~437437~~ | ~~438438~~ | ~~437437~~ | 8 | ~~88~~ | ~~77~~ | ~~77~~ | ~~77~~ | ~~77~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | ~~177177~~ | ~~184184~~ | ~~184184~~ | ~~184184~~ | ~~184184~~ | 3 | ~~33~~ | ~~33~~ | ~~33~~ | ~~33~~ | ~~33~~ | 444 | ~~438438~~ | ~~445445~~ | ~~445445~~ | ~~445445~~ | ~~445445~~ | 8 | ~~77~~ | ~~88~~ | ~~88~~ | ~~88~~ | ~~88~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | ~~206206~~ | ~~327327~~ | ~~317317~~ | ~~335335~~ | ~~320320~~ | 4 | ~~44~~ | ~~66~~ | ~~55~~ | ~~66~~ | ~~55~~ | 569 | ~~467467~~ | ~~675675~~ | ~~636636~~ | ~~683683~~ | ~~639639~~ | 10 | ~~88~~ | ~~1212~~ | ~~1111~~ | ~~1212~~ | ~~1111~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | ~~210~~ | ~~110~~ | ~~00~~ | ~~100~~ | ~~100~~ | 0 | ~~30~~ | ~~20~~ | ~~00~~ | ~~10~~ | ~~10~~ | 0 | ~~210~~ | ~~160~~ | ~~00~~ | ~~150~~ | ~~150~~ | 0 | ~~30~~ | ~~20~~ | ~~00~~ | ~~20~~ | ~~20~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | ~~1010~~ | ~~155136~~ | ~~225206~~ | ~~161143~~ | ~~225207~~ | 6 | ~~11~~ | ~~2120~~ | ~~3131~~ | ~~2221~~ | ~~3131~~ | 64 | ~~1010~~ | ~~181149~~ | ~~238206~~ | ~~200169~~ | ~~238207~~ | 10 | ~~11~~ | ~~2522~~ | ~~3331~~ | ~~2725~~ | ~~3331~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

~~[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.~~

**Table EC-5. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 5 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 5 LLT | Ex. Cond. | No Act. LLT | Alt 5 LLT | Ex. Cond. | No Act. LLT | Alt 5 LLT | Ex. Cond. | No Act. LLT | Alt 5 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 53~~47~~ | 6 | 14~~12~~ | ~~22~~ | 233 | 540~~485~~ | 169~~134~~ | 11 | 25~~22~~ | ~~86~~ |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 545~~491~~ | 6 | 14~~12~~ | 25~~23~~ | 233 | 540~~485~~ | 825~~765~~ | 11 | 25~~22~~ | 38~~35~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 429~~345~~ | 19 | 14~~11~~ | 20~~16~~ | 623 | 566~~464~~ | 647~~524~~ | 29 | 26~~21~~ | 30~~24~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | 100~~96~~ | 1 | 1~~1~~ | 5~~4~~ | 27 | 26~~26~~ | 186~~161~~ | 1 | 1~~1~~ | 9~~7~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 154~~154~~ | 3 | 3~~3~~ | 3~~3~~ | 424 | 415~~415~~ | 415~~415~~ | 7 | 7~~7~~ | 7~~7~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 182~~182~~ | 3 | 3~~3~~ | 3~~3~~ | 449 | 444~~444~~ | 443~~443~~ | 8 | 8~~8~~ | 8~~8~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 178~~178~~ | 3 | 3~~3~~ | 3~~3~~ | 444 | 438~~438~~ | 439~~439~~ | 8 | 7~~7~~ | 8~~8~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 263~~263~~ | 4 | 4~~4~~ | 5~~5~~ | 569 | 467~~467~~ | 611~~611~~ | 10 | 8~~8~~ | 10~~10~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 21~~0~~ | 20~~0~~ | 0 | 3~~0~~ | 3~~0~~ | 0 | 21~~0~~ | 20~~0~~ | 0 | 3~~0~~ | 3~~0~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 59~~59~~ | 6 | 1~~1~~ | 8~~9~~ | 64 | 10~~10~~ | 85~~85~~ | 10 | 1~~1~~ | 12~~13~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-6. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 6 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 6 LLT | Ex. Cond. | No Act. LLT | Alt 6 LLT | Ex. Cond. | No Act. LLT | Alt 6 LLT | Ex. Cond. | No Act. LLT | Alt 6 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 63~~51~~ | 6 | 14~~12~~ | 3~~2~~ | 233 | 540~~485~~ | 154~~103~~ | 11 | 25~~22~~ | 7~~5~~ |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 691~~608~~ | 6 | 14~~12~~ | 32~~28~~ | 233 | 540~~485~~ | 955~~864~~ | 11 | 25~~22~~ | 44~~40~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 63~~22~~ | 19 | 14~~11~~ | 3~~1~~ | 623 | 566~~464~~ | 154~~61~~ | 29 | 26~~21~~ | 7~~3~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | 0~~0~~ | 1 | 1~~1~~ | 0~~0~~ | 27 | 26~~26~~ | 0~~0~~ | 1 | 1~~1~~ | 0~~0~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 153~~153~~ | 3 | 3~~3~~ | 3~~3~~ | 424 | 415~~415~~ | 414~~414~~ | 7 | 7~~7~~ | 7~~7~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 179~~179~~ | 3 | 3~~3~~ | 3~~3~~ | 449 | 444~~444~~ | 440~~440~~ | 8 | 8~~8~~ | 8~~8~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 177~~177~~ | 3 | 3~~3~~ | 3~~3~~ | 444 | 438~~438~~ | 438~~438~~ | 8 | 7~~7~~ | 7~~7~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 218~~218~~ | 4 | 4~~4~~ | 4~~4~~ | 569 | 467~~467~~ | 479~~479~~ | 10 | 8~~8~~ | 8~~8~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 21~~0~~ | 23~~23~~ | 0 | 3~~0~~ | 3~~3~~ | 0 | 21~~0~~ | 36~~36~~ | 0 | 3~~0~~ | 5~~5~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 292~~231~~ | 6 | 1~~1~~ | 40~~34~~ | 64 | 10~~10~~ | 292~~231~~ | 10 | 1~~1~~ | 40~~34~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-7. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 7 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 7 LLT | Ex. Cond. | No Act. LLT | Alt 7 LLT | Ex. Cond. | No Act. LLT | Alt 7 LLT | Ex. Cond. | No Act. LLT | Alt 7 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 48~~45~~ | 6 | 14~~12~~ | 2~~2~~ | 233 | 540~~485~~ | 152~~136~~ | 11 | 25~~22~~ | 7~~6~~ |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 412~~355~~ | 6 | 14~~12~~ | 19~~16~~ | 233 | 540~~485~~ | 631~~562~~ | 11 | 25~~22~~ | 29~~26~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 372~~313~~ | 19 | 14~~11~~ | 17~~14~~ | 623 | 566~~464~~ | 593~~508~~ | 29 | 26~~21~~ | 27~~23~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | 80~~75~~ | 1 | 1~~1~~ | 4~~3~~ | 27 | 26~~26~~ | 145~~127~~ | 1 | 1~~1~~ | 7~~6~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 155~~155~~ | 3 | 3~~3~~ | 3~~3~~ | 424 | 415~~415~~ | 445~~445~~ | 7 | 7~~7~~ | 8~~8~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 207~~207~~ | 3 | 3~~3~~ | 4~~4~~ | 449 | 444~~444~~ | 497~~497~~ | 8 | 8~~8~~ | 9~~9~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 178~~178~~ | 3 | 3~~3~~ | 3~~3~~ | 444 | 438~~438~~ | 439~~439~~ | 8 | 7~~7~~ | 8~~8~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 219~~219~~ | 4 | 4~~4~~ | 4~~4~~ | 569 | 467~~467~~ | 480~~480~~ | 10 | 8~~8~~ | 8~~8~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 21~~0~~ | 0~~0~~ | 0 | 3~~0~~ | 0~~0~~ | 0 | 21~~0~~ | 0~~0~~ | 0 | 3~~0~~ | 0~~0~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 294~~233~~ | 6 | 1~~1~~ | 4~~35~~ | 64 | 10~~10~~ | 294~~233~~ | 10 | 1~~1~~ | 4~~35~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-8. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 8 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 8 LLT | Ex. Cond. | No Act. LLT | Alt 8 LLT | Ex. Cond. | No Act. LLT | Alt 8 LLT | Ex. Cond. | No Act. LLT | Alt 8 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 59~~59~~ | 6 | 14~~12~~ | ~~3~~3 | 233 | 540~~485~~ | 159~~159~~ | 11 | 25~~22~~ | ~~7~~7 |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 472~~395~~ | 6 | 14~~12~~ | 22~~18~~ | 233 | 540~~485~~ | 732~~603~~ | 11 | 25~~22~~ | 34~~28~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 175~~157~~ | 19 | 14~~11~~ | ~~8~~7 | 623 | 566~~464~~ | 383~~339~~ | 29 | 26~~21~~ | 18~~16~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | ~~8~~1 | 1 | 1~~1~~ | 0~~0~~ | 27 | 26~~26~~ | 34~~14~~ | 1 | 1~~1~~ | ~~2~~1 |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 173~~173~~ | 3 | ~~3~~3 | ~~3~~3 | 424 | 415~~415~~ | 463~~463~~ | 7 | ~~7~~7 | ~~8~~8 |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 208~~208~~ | 3 | ~~3~~3 | ~~4~~4 | 449 | 444~~444~~ | 527~~527~~ | 8 | ~~8~~8 | ~~9~~9 |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 195~~195~~ | 3 | ~~3~~3 | ~~3~~3 | 444 | 438~~438~~ | 485~~485~~ | 8 | ~~7~~7 | ~~8~~8 |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 229~~229~~ | 4 | ~~4~~4 | ~~4~~4 | 569 | 467~~467~~ | 519~~519~~ | 10 | ~~8~~8 | ~~9~~9 |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 21~~0~~ | 0~~0~~ | 0 | ~~3~~0 | 0~~0~~ | 0 | 21~~0~~ | 0~~0~~ | 0 | ~~3~~0 | 0~~0~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 279~~218~~ | 6 | 1~~1~~ | ~~3~~2 | 64 | 10~~10~~ | 279~~218~~ | 10 | 1~~1~~ | ~~3~~2 |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-9. Number of days Delta locations exceed Bay-Delta Water Quality Control Plan objectives, and number of days out of compliance, for Alternative 9 LLT.**

| Location [a] | # of Days Objective Applicable | # of Days Objective Exceeded [b] | | | % of Days Objective Exceeded [b] | | | # of Days Out of Compliance [c] | | | % of Days Out of Compliance [c] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ex. Cond. | No Act. LLT | Alt 9 LLT | Ex. Cond. | No Act. LLT | Alt 9 LLT | Ex. Cond. | No Act. LLT | Alt 9 LLT | Ex. Cond. | No Act. LLT | Alt 9 LLT |
| Sacramento River at Emmaton / Three Mile Slough nr. Sacramento River (AGR) [d] | 2,176 | 120 | 297~~258~~ | 116~~114~~ | 6 | 14~~12~~ | 5~~5~~ | 233 | 540~~485~~ | 233~~244~~ | 11 | 25~~22~~ | 11~~11~~ |
| Sacramento River at Emmaton (AGR) | 2,176 | 120 | 297~~258~~ | 381~~362~~ | 6 | 14~~12~~ | 18~~17~~ | 233 | 540~~485~~ | 675~~617~~ | 11 | 25~~22~~ | 31~~28~~ |
| San Joaquin River at Jersey Point (AGR) | 2,176 | 415 | 299~~230~~ | 9~~578~~ | 19 | 14~~11~~ | 4~~4~~ | 623 | 566~~464~~ | 160~~143~~ | 29 | 26~~21~~ | 7~~7~~ |
| S. Fork Mokelumne River at Terminous (AGR) | 2,176 | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ | 0 | 0~~0~~ | 0~~0~~ |
| San Joaquin River at San Andreas Landing (AGR) | 2,176 | 14 | 13~~13~~ | 18~~24~~ | 1 | 1~~1~~ | 1~~1~~ | 27 | 26~~26~~ | 31~~50~~ | 1 | 1~~1~~ | 1~~2~~ |
| San Joaquin River at Vernalis (AGR) | 5,842 | 163 | 154~~154~~ | 153~~153~~ | 3 | 3~~3~~ | 3~~3~~ | 424 | 415~~415~~ | 414~~414~~ | 7 | 7~~7~~ | 7~~7~~ |
| San Joaquin River at Brandt Bridge (AGR) | 5,842 | 188 | 183~~183~~ | 16~~16~~ | 3 | 3~~3~~ | 0~~0~~ | 449 | 444~~444~~ | 4~~45~~ | 8 | 8~~8~~ | 1~~1~~ |
| Old River near Middle River (AGR) | 5,842 | 183 | 177~~177~~ | 130~~130~~ | 3 | 3~~3~~ | 2~~2~~ | 444 | 438~~438~~ | 391~~391~~ | 8 | 7~~7~~ | 7~~7~~ |
| Old River at Tracy Bridge (AGR) | 5,842 | 250 | 206~~206~~ | 148~~148~~ | 4 | 4~~4~~ | 3~~3~~ | 569 | 467~~467~~ | 409~~409~~ | 10 | 8~~8~~ | 7~~7~~ |
| San Joaquin River at Jersey Point (F&W) | 671 | 0 | 21~~0~~ | 18~~0~~ | 0 | 3~~0~~ | 2~~0~~ | 0 | 21~~0~~ | 18~~0~~ | 0 | 3~~0~~ | 2~~0~~ |
| San Joaquin River at Prisoners Point (F&W) | 671 | 38 | 10~~10~~ | 0~~0~~ | 6 | 1~~1~~ | 0~~0~~ | 64 | 10~~10~~ | 0~~0~~ | 10 | 1~~1~~ | 0~~0~~ |

Notes:

[a] (AGR) = for the protection of agricultural beneficial uses; (F&W) = for the protection of fish and wildlife beneficial uses.

[b] Number of days the Bay-Delta Water Quality Control Plan EC objective was exceeded at the location.

[c] Number of days the EC at the location was out of compliance with the Bay-Delta Water Quality Control Plan EC objective. Days out of compliance was determined according to Table 2, footnote 2, which states: "Determination of compliance with an objective expressed as a running average begins on the last day of the averaging period. The averaging period commences with the first day of the time period for the applicable objective. If the objective is not met on the last day of the averaging period, all days in the averaging period are considered out of compliance."

[d] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for the BDCP alternative is for Three Mile Slough, per the description of the alternative.

**Table EC-10: Period average EC levels at Bay-Delta Water Quality Control Plan compliance locations and frequency of exceedance of Bay-Delta Water Quality Control Plan objectives for Banks and Jones pumping plants.**

| Location | | Period [a] | Period Average Electrical Conductivity (µmhos/cm) | | | | | | | | | | | | | | Bay-Delta Water Quality Control Plan objective (1000 µmhos/cm) [b] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | Frequency of Criterion/Objective Exceedance (%) | | | | | | | | | | |
| | | | Ex. Cond. | No Act. LLT | Alt 1 LLT | Alt 2 LLT | Alt 3 LLT | Alt 4 LLT H1 | Alt 4 LLT H2 | Alt 4 LLT H3 | Alt 4 LLT H4 | Alt 5 LLT | Alt 6 LLT | Alt 7 LLT | Alt 8 LLT | Alt 9 LLT | Ex. Cond. | No Act. LLT | Alt 1 LLT | Alt 2 LLT | Alt 3 LLT | Alt 4 LLT H1-H4 | Alt 5 LLT | Alt 6 LLT | Alt 7 LLT | Alt 8 LLT | Alt 9 LLT |
| Western Delta | Sac. R. at Emmaton / Three Mile Sl. nr. Sac. River [c] | ALL | 1069 | 1078 | 778 | 677 | 767 | ~~759~~ | ~~768~~ | ~~679~~ | ~~679~~ | 695 | 540 | 574 | 603 | 940 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 1449 | 1600 | 1036 | 983 | 1008 | ~~1019~~ | ~~1011~~ | ~~967~~ | ~~966~~ | 989 | 776 | 792 | 829 | 1405 | - | - | - | - | - | - | - | - | - | - | - |
| | Sac. R. at Emmaton | ALL | 1069 | 1078 | 1238 | 1063 | 1219 | 1205 | 1221 | 1070 | 1072 | 1096 | 845 | 887 | 935 | 1302 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 1449 | 1600 | 1675 | 1578 | 1621 | 1644 | 1629 | 1559 | 1559 | 1591 | 1265 | 1266 | 1317 | 1976 | - | - | - | - | - | - | - | - | - | - | - |
| | SJR at Jersey Point | ALL | 1135 | 976 | 1003 | 838 | 997 | 957 | 944 | 831 | 832 | 907 | 498 | 706 | 681 | 761 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 1410 | 1323 | 1238 | 1166 | 1235 | 1216 | 1206 | 1139 | 1146 | 1188 | 671 | 913 | 886 | 1125 | - | - | - | - | - | - | - | - | - | - | - |
| Interior Delta | S.F. Moke. R. Term. | ALL | 203 | 202 | 212 | 213 | 210 | 212 | 213 | 212 | 213 | 210 | 218 | 214 | 214 | 201 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 209 | 207 | 215 | 217 | 215 | 216 | 217 | 216 | 217 | 215 | 222 | 219 | 218 | 204 | - | - | - | - | - | - | - | - | - | - | - |
| | SJR at San. And. Landing | ALL | 395 | 376 | 444 | 399 | 444 | 432 | 430 | 397 | 398 | 415 | 316 | 372 | 362 | 457 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 470 | 468 | 527 | 516 | 531 | 529 | 530 | 502 | 504 | 515 | 367 | 450 | 436 | 625 | - | - | - | - | - | - | - | - | - | - | - |
| Southern Delta | SJR at Vernalis | ALL | 581 | 570 | 569 | 570 | 569 | 570 | 569 | 570 | 568 | 569 | 570 | 570 | 571 | 569 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 718 | 698 | 698 | 698 | 698 | 698 | 698 | 698 | 697 | 698 | 699 | 700 | 702 | 697 | - | - | - | - | - | - | - | - | - | - | - |
| | SJR at Brandt Bridge | ALL | 586 | 574 | 574 | 576 | 575 | 576 | 575 | 575 | 574 | 575 | 575 | 576 | 577 | 396 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 726 | 700 | 708 | 705 | 708 | 705 | 705 | 705 | 704 | 706 | 706 | 710 | 710 | 486 | - | - | - | - | - | - | - | - | - | - | - |
| | Old River at Middle River | ALL | 586 | 576 | 575 | 579 | 575 | 579 | 578 | 578 | 577 | 576 | 576 | 576 | 577 | 543 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 726 | 705 | 706 | 709 | 706 | 708 | 709 | 708 | 708 | 706 | 707 | 708 | 709 | 660 | - | - | - | - | - | - | - | - | - | - | - |
| | Old River at Tracy Bridge | ALL | 597 | 582 | 584 | 594 | 584 | 593 | 593 | 592 | 591 | 584 | 587 | 586 | 586 | 549 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 737 | 707 | 715 | 722 | 714 | 721 | 721 | 722 | 722 | 710 | 718 | 717 | 718 | 665 | - | - | - | - | - | - | - | - | - | - | - |
| SJR | SJR at Prisoners Pt. | ALL | 440 | 399 | 436 | 423 | 434 | 436 | 437 | 418 | 424 | 417 | 408 | 438 | 426 | 448 | - | - | - | - | - | - | - | - | - | - | - |
| | | DROUGHT | 508 | 474 | 492 | 508 | 496 | 509 | 518 | 496 | 504 | 484 | 448 | 513 | 491 | 590 | - | - | - | - | - | - | - | - | - | - | - |
| Export Area | Banks PP | ALL | 530 | 493 | 414 | 383 | 433 | 406 | 407 | 390 | 384 | 429 | 176 | 281 | 270 | 231 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | DROUGHT | 646 | 607 | 526 | 504 | 532 | 511 | 490 | 491 | 472 | 532 | 176 | 315 | 305 | 243 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Jones PP | ALL | 555 | 529 | 451 | 401 | 460 | 440 | 420 | 420 | 411 | 470 | 176 | 264 | 259 | 435 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | DROUGHT | 683 | 652 | 566 | 525 | 549 | 564 | 525 | 537 | 523 | 575 | 176 | 278 | 262 | 559 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Notes:

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

[b] A 1,000 µmhos/cm objective, as a monthly average of mean daily EC, applies to the Banks and Jones pumping plants year-round. Compliance with EC objectives for other locations in the table is assessed on a different time-step and, thus, is summarized in a separate table in this Appendix.

[c] Data for Existing Conditions and No Action LLT are for Sacramento River at Emmaton, per the definition of these baselines. Data for ~~the~~ BDCP alternatives 1-3 and 5-9 are ~~is~~ for Three Mile Slough, per the description of ~~the~~ these ~~a~~lternatives. Alternative 4 maintains the compliance location at Emmaton, so Threemile Slough data is not shown.

**Table EC-15A. Period average change in EC levels for Alternative 4-H1 LLT relative to existing conditions and the No Action Alternative LLT.**

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 Scn H1 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton | ALL | -424 | 51 | -206 | 119 | 57 | -25 | -65 | -131 | 12 | -64 | 60 | 3 | 91 | 34 | 197 | 103 | 314 | 173 | 432 | 383 | 622 | 455 | 541 | 422 | 136 | 127 |
| | | | (-19%) | (3%) | (-10%) | (7%) | (5%) | (-2%) | (-11%) | (-19%) | (3%) | (-13%) | (22%) | (1%) | (33%) | (10%) | (41%) | (18%) | (38%) | (18%) | (45%) | (38%) | (46%) | (30%) | (25%) | (19%) | (13%) | (12%) |
| | | DROUGHT | -784 | -257 | -321 | -44 | -64 | -254 | 94 | -125 | 195 | -26 | 87 | 21 | 124 | 56 | 471 | 233 | 676 | 282 | 1083 | 876 | 774 | 441 | 10 | -667 | 195 | 45 |
| | | | (-27%) | (-11%) | (-11%) | (-2%) | (-3%) | (-12%) | (11%) | (-12%) | (35%) | (-3%) | (27%) | (5%) | (42%) | (15%) | (80%) | (28%) | (65%) | (20%) | (81%) | (57%) | (45%) | (21%) | (0%) | (-18%) | (13%) | (3%) |
| | SJR at Jersey Point | ALL | -684 | 4 | -892 | -249 | -388 | -155 | -220 | -205 | -58 | -94 | 24 | -10 | 39 | 11 | 53 | 6 | 140 | 52 | -248 | -3 | 17 | 185 | 83 | 234 | -178 | -19 |
| | | | (-35%) | (0%) | (-40%) | (-16%) | (-23%) | (-11%) | (-26%) | (-24%) | (-13%) | (-19%) | (8%) | (-3%) | (14%) | (4%) | (15%) | (1%) | (26%) | (8%) | (-17%) | (-0%) | (1%) | (14%) | (4%) | (12%) | (-16%) | (-2%) |
| | | DROUGHT | -780 | -168 | -851 | -321 | -542 | -204 | -243 | -261 | 26 | -104 | 47 | 6 | 50 | 18 | 151 | 19 | 329 | 68 | -414 | -118 | 28 | 257 | -129 | -482 | -194 | -108 |
| | | | (-34%) | (-10%) | (-33%) | (-16%) | (-25%) | (-11%) | (-22%) | (-23%) | (5%) | (-15%) | (15%) | (2%) | (18%) | (6%) | (38%) | (4%) | (49%) | (7%) | (-19%) | (-6%) | (1%) | (15%) | (-5%) | (-17%) | (-14%) | (-8%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 8 | 8 | 9 | 9 | 4 | 5 | 4 | 9 | 6 | 10 | 13 | 15 | 12 | 13 | 9 | 10 | 14 | 15 | 10 | 10 | 11 | 10 | 9 | 8 | 9 | 10 |
| | | | (4%) | (5%) | (5%) | (5%) | (2%) | (3%) | (2%) | (4%) | (2%) | (4%) | (6%) | (7%) | (6%) | (7%) | (5%) | (5%) | (7%) | (8%) | (5%) | (5%) | (6%) | (5%) | (5%) | (5%) | (5%) | (5%) |
| | | DROUGHT | 7 | 8 | 8 | 8 | 4 | 5 | 1 | 5 | -2 | 4 | 7 | 13 | 5 | 8 | 8 | 10 | 19 | 20 | 16 | 16 | 10 | 10 | 8 | 8 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (2%) | (2%) | (0%) | (2%) | (-1%) | (1%) | (3%) | (5%) | (2%) | (4%) | (4%) | (5%) | (10%) | (10%) | (8%) | (8%) | (6%) | (5%) | (4%) | (4%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | 51 | 119 | -95 | 23 | -32 | 20 | -33 | -17 | 5 | -3 | 19 | 12 | 24 | 20 | 31 | 21 | 71 | 51 | 55 | 82 | 123 | 151 | 230 | 201 | 37 | 57 |
| | | | (10%) | (27%) | (-15%) | (5%) | (-5%) | (4%) | (-8%) | (-4%) | (2%) | (-1%) | (8%) | (5%) | (10%) | (9%) | (12%) | (8%) | (29%) | (19%) | (14%) | (23%) | (29%) | (38%) | (44%) | (36%) | (9%) | (15%) |
| | | DROUGHT | 63 | 90 | -42 | 35 | -5 | 41 | -40 | 2 | 47 | 9 | 30 | 21 | 24 | 21 | 51 | 27 | 136 | 74 | 75 | 120 | 163 | 206 | 206 | 76 | 59 | 60 |
| | | | (10%) | (15%) | (-6%) | (5%) | (-1%) | (6%) | (-7%) | (0%) | (14%) | (2%) | (12%) | (8%) | (10%) | (9%) | (21%) | (10%) | (54%) | (23%) | (14%) | (25%) | (29%) | (40%) | (32%) | (10%) | (13%) | (13%) |
| Southern Delta | SJR at Vernalis | ALL | 4 | 0 | -35 | 0 | -43 | 5 | -82 | 1 | -10 | 0 | -28 | 0 | -10 | 0 | -5 | 0 | 57 | 0 | 38 | 0 | 8 | 1 | -16 | -1 | -10 | 1 |
| | | | (1%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-11%) | (0%) | (-2%) | (0%) | (-4%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (11%) | (0%) | (7%) | (0%) | (1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -19 | 0 | -4 | 0 | -9 | 0 | -9 | 0 | -5 | 0 | -7 | 0 | -19 | -3 | -21 | 0 |
| | | | (-1%) | (0%) | (-6%) | (-0%) | (-6%) | (-0%) | (-7%) | (-0%) | (-1%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (-2%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-1%) | (-3%) | (-0%) |
| | SJR at Brandt Bridge | ALL | 2 | 0 | -33 | 0 | -43 | 7 | -83 | -4 | -14 | 0 | -28 | -1 | -12 | -5 | -5 | -1 | 55 | 1 | 35 | 13 | 11 | 9 | -14 | -1 | -11 | 2 |
| | | | (0%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-11%) | (-1%) | (-2%) | (0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -53 | 4 | -67 | -3 | -13 | 2 | -19 | -2 | -7 | -11 | -9 | -2 | -8 | 0 | -16 | 44 | -7 | 33 | -17 | -3 | -22 | 5 |
| | | | (-1%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (7%) | (-1%) | (5%) | (-3%) | (-0%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 7 | 6 | -32 | 1 | -43 | 5 | -73 | 7 | -11 | 2 | -25 | 2 | -3 | 6 | -3 | 2 | 54 | 0 | 39 | 3 | 11 | 1 | -14 | -1 | -8 | 3 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (1%) | (-10%) | (1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-1%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 10 | 10 | -5 | 3 | -8 | 0 | -4 | 8 | -6 | 2 | -18 | -3 | -17 | 3 |
| | | | (-0%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-2%) | (0%) | (2%) | (2%) | (-1%) | (1%) | (-1%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | Old River at Tracy Bridge | ALL | 16 | 23 | -20 | 7 | -46 | 3 | -55 | 25 | -6 | 12 | -17 | 10 | 21 | 31 | 3 | 9 | 41 | -7 | 33 | 2 | 5 | 11 | -13 | 8 | -3 | 11 |
| | | | (3%) | (4%) | (-4%) | (1%) | (-6%) | (0%) | (-7%) | (4%) | (-1%) | (2%) | (-3%) | (2%) | (4%) | (7%) | (1%) | (2%) | (8%) | (-1%) | (6%) | (0%) | (1%) | (2%) | (-2%) | (1%) | (-1%) | (2%) |
| | | DROUGHT | 10 | 18 | -25 | 13 | -56 | -1 | -49 | 15 | -15 | 3 | -1 | 16 | 56 | 56 | 4 | 12 | -33 | -3 | -36 | -2 | -36 | 17 | -17 | 18 | -17 | 13 |
| | | | (2%) | (3%) | (-4%) | (2%) | (-7%) | (-0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (9%) | (9%) | (1%) | (2%) | (-5%) | (-1%) | (-5%) | (-0%) | (-5%) | (3%) | (-3%) | (3%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -22 | 39 | -154 | -28 | -113 | -28 | -51 | -12 | 24 | 38 | 50 | 61 | 47 | 67 | 37 | 46 | 57 | 58 | -12 | 33 | 13 | 75 | 74 | 90 | -4 | 37 |
| | | | (-4%) | (9%) | (-26%) | (-6%) | (-18%) | (-5%) | (-10%) | (-3%) | (6%) | (10%) | (15%) | (19%) | (14%) | (21%) | (12%) | (15%) | (20%) | (20%) | (-3%) | (9%) | (3%) | (19%) | (14%) | (18%) | (-1%) | (9%) |
| | | DROUGHT | -23 | 4 | -128 | -34 | -111 | -21 | -96 | -20 | 36 | 39 | 86 | 104 | 73 | 94 | 69 | 66 | 96 | 55 | -55 | 8 | -10 | 94 | 73 | 35 | 1 | 35 |
| | | | (-4%) | (1%) | (-20%) | (-6%) | (-15%) | (-3%) | (-16%) | (-4%) | (9%) | (9%) | (22%) | (28%) | (20%) | (28%) | (22%) | (21%) | (36%) | (18%) | (-10%) | (2%) | (-2%) | (19%) | (12%) | (5%) | (0%) | (7%) |
| Export Area | Banks PP | ALL | -53 | -13 | -173 | -53 | -198 | -104 | -230 | -179 | -158 | -148 | -190 | -183 | -153 | -144 | -40 | -37 | -50 | -69 | -78 | -58 | -113 | -41 | -46 | -8 | -124 | -87 |
| | | | (-9%) | (-2%) | (-27%) | (-10%) | (-29%) | (-18%) | (-35%) | (-29%) | (-29%) | (-28%) | (-40%) | (-39%) | (-33%) | (-32%) | (-9%) | (-9%) | (-13%) | (-17%) | (-18%) | (-14%) | (-21%) | (-9%) | (-8%) | (-2%) | (-23%) | (-18%) |
| | | DROUGHT | -6 | 8 | -126 | -40 | -200 | -108 | -285 | -220 | -201 | -180 | -287 | -275 | -220 | -212 | -78 | -78 | 48 | 8 | -109 | -71 | -159 | -24 | 16 | 51 | -134 | -95 |
| | | | (-1%) | (1%) | (-18%) | (-6%) | (-25%) | (-15%) | (-37%) | (-31%) | (-31%) | (-28%) | (-45%) | (-44%) | (-35%) | (-34%) | (-14%) | (-14%) | (11%) | (2%) | (-21%) | (-14%) | (-22%) | (-4%) | (3%) | (8%) | (-21%) | (-16%) |
| | Jones PP | ALL | -89 | -63 | -169 | -65 | -128 | -47 | -190 | -131 | -153 | -147 | -173 | -165 | -100 | -96 | -97 | -93 | -85 | -132 | -53 | -58 | -37 | 13 | -103 | -75 | -115 | -88 |
| | | | (-16%) | (-12%) | (-27%) | (-12%) | (-18%) | (-8%) | (-27%) | (-20%) | (-25%) | (-24%) | (-29%) | (-28%) | (-21%) | (-20%) | (-22%) | (-21%) | (-22%) | (-30%) | (-11%) | (-12%) | (-7%) | (3%) | (-19%) | (-14%) | (-21%) | (-17%) |
| | | DROUGHT | -80 | -90 | -129 | -48 | -124 | -50 | -206 | -125 | -188 | -174 | -214 | -206 | -107 | -111 | -165 | -159 | -49 | -88 | -128 | -97 | -73 | 37 | 27 | 45 | -120 | -89 |
| | | | (-13%) | (-14%) | (-18%) | (-8%) | (-15%) | (-7%) | (-24%) | (-16%) | (-22%) | (-21%) | (-25%) | (-24%) | (-16%) | (-17%) | (-29%) | (-28%) | (-12%) | (-20%) | (-23%) | (-19%) | (-11%) | (6%) | (4%) | (7%) | (-17%) | (-14%) |

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 Scn H1 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton/ Threemile Sl. Nr. Sac. R. | ALL | -1109 | -634 | -927 | -602 | -416 | -498 | -210 | -277 | -92 | -169 | -10 | -67 | 0 | -57 | -36 | -130 | -121 | -262 | -115 | -164 | -175 | -342 | -506 | -625 | -310 | -319 |
| | | | (-51%) | (-37%) | (-44%) | (-34%) | (-33%) | (-37%) | (-34%) | (-41%) | (-23%) | (-35%) | (-4%) | (-20%) | (-0%) | (-17%) | (-8%) | (-23%) | (-15%) | (-27%) | (-12%) | (-16%) | (-13%) | (-23%) | (-24%) | (-28%) | (-29%) | (-30%) |
| | | DROUGHT | -1609 | -1082 | -1303 | -1026 | -735 | -925 | -225 | -444 | -63 | -284 | -19 | -84 | -1 | -69 | 56 | -182 | -17 | -411 | 119 | -88 | -227 | -561 | -1140 | -1817 | -430 | -581 |
| | | | (-55%) | (-45%) | (-45%) | (-39%) | (-38%) | (-44%) | (-26%) | (-41%) | (-11%) | (-37%) | (-6%) | (-22%) | (-0%) | (-19%) | (10%) | (-22%) | (-2%) | (-29%) | (9%) | (-6%) | (-13%) | (-27%) | (-39%) | (-50%) | (-30%) | (-36%) |
| | Sac. R. at Emmaton | ALL | -424 | 51 | -206 | 119 | 57 | -25 | -65 | -131 | 12 | -64 | 60 | 3 | 91 | 34 | 197 | 103 | 314 | 173 | 432 | 383 | 622 | 455 | 541 | 422 | 136 | 127 |
| | | | (-19%) | (3%) | (-10%) | (7%) | (5%) | (-2%) | (-11%) | (-19%) | (3%) | (-13%) | (22%) | (1%) | (33%) | (10%) | (41%) | (18%) | (38%) | (18%) | (45%) | (38%) | (46%) | (30%) | (25%) | (19%) | (13%) | (12%) |
| | | DROUGHT | -784 | -257 | -321 | -44 | -64 | -254 | 94 | -125 | 195 | -26 | 87 | 21 | 124 | 56 | 471 | 233 | 676 | 282 | 1083 | 876 | 774 | 441 | 10 | -667 | 195 | 45 |
| | | | (-27%) | (-11%) | (-11%) | (-2%) | (-3%) | (-12%) | (11%) | (-12%) | (35%) | (-3%) | (27%) | (5%) | (42%) | (15%) | (80%) | (28%) | (65%) | (20%) | (81%) | (57%) | (45%) | (21%) | (0%) | (-18%) | (13%) | (3%) |
| | SJR at Jersey Point | ALL | -684 | 4 | -892 | -249 | -388 | -155 | -220 | -205 | -58 | -94 | 24 | -10 | 39 | 11 | 53 | 6 | 140 | 52 | -248 | -3 | 17 | 185 | 83 | 234 | -178 | -19 |
| | | | (-35%) | (0%) | (-40%) | (-16%) | (-23%) | (-11%) | (-26%) | (-24%) | (-13%) | (-19%) | (8%) | (-3%) | (14%) | (4%) | (15%) | (1%) | (26%) | (8%) | (-17%) | (-0%) | (1%) | (14%) | (4%) | (12%) | (-16%) | (-2%) |
| | | DROUGHT | -780 | -168 | -851 | -321 | -542 | -204 | -243 | -261 | 26 | -104 | 47 | 6 | 50 | 18 | 151 | 19 | 329 | 68 | -414 | -118 | 28 | 257 | -129 | -482 | -194 | -108 |
| | | | (-34%) | (-10%) | (-33%) | (-16%) | (-25%) | (-11%) | (-22%) | (-23%) | (5%) | (-15%) | (15%) | (2%) | (18%) | (6%) | (38%) | (4%) | (49%) | (7%) | (-19%) | (-6%) | (1%) | (15%) | (-5%) | (-17%) | (-14%) | (-8%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 8 | 8 | 9 | 9 | 4 | 5 | 4 | 9 | 6 | 10 | 13 | 15 | 12 | 13 | 9 | 10 | 14 | 15 | 10 | 10 | 11 | 10 | 9 | 8 | 9 | 10 |
| | | | (4%) | (5%) | (5%) | (5%) | (2%) | (3%) | (2%) | (4%) | (2%) | (4%) | (6%) | (7%) | (6%) | (7%) | (5%) | (5%) | (7%) | (8%) | (5%) | (5%) | (6%) | (5%) | (5%) | (5%) | (5%) | (5%) |
| | | DROUGHT | 7 | 8 | 8 | 8 | 4 | 5 | 1 | 5 | -2 | 4 | 7 | 13 | 5 | 8 | 8 | 10 | 19 | 20 | 16 | 16 | 10 | 10 | 8 | 8 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (2%) | (2%) | (0%) | (2%) | (-1%) | (1%) | (3%) | (5%) | (2%) | (4%) | (4%) | (5%) | (10%) | (10%) | (8%) | (8%) | (6%) | (5%) | (4%) | (4%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | 51 | 119 | -95 | 23 | -32 | 20 | -33 | -17 | 5 | -3 | 19 | 12 | 24 | 20 | 31 | 21 | 71 | 51 | 55 | 82 | 123 | 151 | 230 | 201 | 37 | 57 |
| | | | (10%) | (27%) | (-15%) | (5%) | (-5%) | (4%) | (-8%) | (-4%) | (2%) | (-1%) | (8%) | (5%) | (10%) | (9%) | (12%) | (8%) | (29%) | (19%) | (14%) | (23%) | (29%) | (38%) | (44%) | (36%) | (9%) | (15%) |
| | | DROUGHT | 63 | 90 | -42 | 35 | -5 | 41 | -40 | 2 | 47 | 9 | 30 | 21 | 24 | 21 | 51 | 27 | 136 | 74 | 75 | 120 | 163 | 206 | 206 | 76 | 59 | 60 |
| | | | (10%) | (15%) | (-6%) | (5%) | (-1%) | (6%) | (-7%) | (0%) | (14%) | (2%) | (12%) | (8%) | (10%) | (9%) | (21%) | (10%) | (54%) | (23%) | (14%) | (25%) | (29%) | (40%) | (32%) | (10%) | (13%) | (13%) |
| Southern Delta | SJR at Vernalis | ALL | 4 | 0 | -35 | 0 | -43 | 5 | -82 | 1 | -10 | 0 | -28 | 0 | -10 | 0 | -5 | 0 | 57 | 0 | 38 | 0 | 8 | 1 | -16 | -1 | -10 | 1 |
| | | | (1%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-11%) | (0%) | (-2%) | (0%) | (-4%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (11%) | (0%) | (7%) | (0%) | (1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -19 | 0 | -4 | 0 | -9 | 0 | -9 | 0 | -5 | 0 | -7 | 0 | -19 | -3 | -21 | 0 |
| | | | (-1%) | (0%) | (-6%) | (-0%) | (-6%) | (-0%) | (-7%) | (-0%) | (-1%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (-2%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-1%) | (-3%) | (-0%) |
| | SJR at Brandt Bridge | ALL | 2 | 0 | -33 | 0 | -43 | 7 | -83 | -4 | -14 | 0 | -28 | -1 | -12 | -5 | -5 | -1 | 55 | 1 | 35 | 13 | 11 | 9 | -14 | -1 | -11 | 2 |
| | | | (0%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-11%) | (-1%) | (-2%) | (0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -53 | 4 | -67 | -3 | -13 | 2 | -19 | -2 | -7 | -11 | -9 | -2 | -8 | 0 | -16 | 44 | -7 | 33 | -17 | -3 | -22 | 5 |
| | | | (-1%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (7%) | (-1%) | (5%) | (-3%) | (-0%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 7 | 6 | -32 | 1 | -43 | 5 | -73 | 7 | -11 | 2 | -25 | 2 | -3 | 6 | -3 | 2 | 54 | 0 | 39 | 3 | 11 | 1 | -14 | -1 | -8 | 3 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (1%) | (-10%) | (1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-1%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 10 | 10 | -5 | 3 | -8 | 0 | -4 | 8 | -6 | 2 | -18 | -3 | -17 | 3 |
| | | | (-0%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-2%) | (0%) | (2%) | (2%) | (-1%) | (1%) | (-1%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | Old River at Tracy Bridge | ALL | 16 | 23 | -20 | 7 | -46 | 3 | -55 | 25 | -6 | 12 | -17 | 10 | 21 | 31 | 3 | 9 | 41 | -7 | 33 | 2 | 5 | 11 | -13 | 8 | -3 | 11 |
| | | | (3%) | (4%) | (-4%) | (1%) | (-6%) | (0%) | (-7%) | (4%) | (-1%) | (2%) | (-3%) | (2%) | (4%) | (7%) | (1%) | (2%) | (8%) | (-1%) | (6%) | (0%) | (1%) | (2%) | (-2%) | (1%) | (-1%) | (2%) |
| | | DROUGHT | 10 | 18 | -25 | 13 | -56 | -1 | -49 | 15 | -15 | 3 | -1 | 16 | 56 | 56 | 4 | 12 | -33 | -3 | -36 | -2 | -36 | 17 | -17 | 18 | -17 | 13 |
| | | | (2%) | (3%) | (-4%) | (2%) | (-7%) | (-0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (9%) | (9%) | (1%) | (2%) | (-5%) | (-1%) | (-5%) | (-0%) | (-5%) | (3%) | (-3%) | (3%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -22 | 39 | -154 | -28 | -113 | -28 | -51 | -12 | 24 | 38 | 50 | 61 | 47 | 67 | 37 | 46 | 57 | 58 | -12 | 33 | 13 | 75 | 74 | 90 | -4 | 37 |
| | | | (-4%) | (9%) | (-26%) | (-6%) | (-18%) | (-5%) | (-10%) | (-3%) | (6%) | (10%) | (15%) | (19%) | (14%) | (21%) | (12%) | (15%) | (20%) | (20%) | (-3%) | (9%) | (3%) | (19%) | (14%) | (18%) | (-1%) | (9%) |
| | | DROUGHT | -23 | 4 | -128 | -34 | -111 | -21 | -96 | -20 | 36 | 39 | 86 | 104 | 73 | 94 | 69 | 66 | 96 | 55 | -55 | 8 | -10 | 94 | 73 | 35 | 1 | 35 |
| | | | (-4%) | (1%) | (-20%) | (-6%) | (-15%) | (-3%) | (-16%) | (-4%) | (9%) | (9%) | (22%) | (28%) | (20%) | (28%) | (22%) | (21%) | (36%) | (18%) | (-10%) | (2%) | (-2%) | (19%) | (12%) | (5%) | (0%) | (7%) |
| Export Area | Banks PP | ALL | -53 | -13 | -173 | -53 | -198 | -104 | -230 | -179 | -158 | -148 | -190 | -183 | -153 | -144 | -40 | -37 | -50 | -69 | -78 | -58 | -113 | -41 | -46 | -8 | -124 | -87 |
| | | | (-9%) | (-2%) | (-27%) | (-10%) | (-29%) | (-18%) | (-35%) | (-29%) | (-29%) | (-28%) | (-40%) | (-39%) | (-33%) | (-32%) | (-9%) | (-9%) | (-13%) | (-17%) | (-18%) | (-14%) | (-21%) | (-9%) | (-8%) | (-2%) | (-23%) | (-18%) |
| | | DROUGHT | -6 | 8 | -126 | -40 | -200 | -108 | -285 | -220 | -201 | -180 | -287 | -275 | -220 | -212 | -78 | -78 | 48 | 8 | -109 | -71 | -159 | -24 | 16 | 51 | -134 | -95 |
| | | | (-1%) | (1%) | (-18%) | (-6%) | (-25%) | (-15%) | (-37%) | (-31%) | (-31%) | (-28%) | (-45%) | (-44%) | (-35%) | (-34%) | (-14%) | (-14%) | (11%) | (2%) | (-21%) | (-14%) | (-22%) | (-4%) | (3%) | (8%) | (-21%) | (-16%) |
| | Jones PP | ALL | -89 | -63 | -169 | -65 | -128 | -47 | -190 | -131 | -153 | -147 | -173 | -165 | -100 | -96 | -97 | -93 | -85 | -132 | -53 | -58 | -37 | 13 | -103 | -75 | -115 | -88 |
| | | | (-16%) | (-12%) | (-27%) | (-12%) | (-18%) | (-8%) | (-27%) | (-20%) | (-25%) | (-24%) | (-29%) | (-28%) | (-21%) | (-20%) | (-22%) | (-21%) | (-22%) | (-30%) | (-11%) | (-12%) | (-7%) | (3%) | (-19%) | (-14%) | (-21%) | (-17%) |
| | | DROUGHT | -80 | -90 | -129 | -48 | -124 | -50 | -206 | -125 | -188 | -174 | -214 | -206 | -107 | -111 | -165 | -159 | -49 | -88 | -128 | -97 | -73 | 37 | 27 | 45 | -120 | -89 |
| | | | (-13%) | (-14%) | (-18%) | (-8%) | (-15%) | (-7%) | (-24%) | (-16%) | (-22%) | (-21%) | (-25%) | (-24%) | (-16%) | (-17%) | (-29%) | (-28%) | (-12%) | (-20%) | (-23%) | (-19%) | (-11%) | (6%) | (4%) | (7%) | (-17%) | (-14%) |

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

**Table EC-15B. Period average change in EC levels for Alternative 4-H2 LLT relative to existing conditions and the No Action Alternative LLT.**

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 LLT Scn H2 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton | ALL | -450 | 25 | -199 | 125 | 185 | 103 | -87 | -153 | -1 | -78 | 52 | -4 | 82 | 25 | 175 | 82 | 319 | 178 | 518 | 470 | 654 | 487 | 584 | 465 | 153 | 144 |
| | | | (-21%) | (1%) | (-9%) | (7%) | (15%) | (8%) | (-14%) | (-23%) | (-0%) | (-16%) | (19%) | (-1%) | (30%) | (7%) | (37%) | (14%) | (39%) | (19%) | (54%) | (47%) | (49%) | (32%) | (27%) | (21%) | (14%) | (13%) |
| | | DROUGHT | -1092 | -565 | -493 | -217 | 373 | 183 | -7 | -227 | 141 | -80 | 91 | 26 | 123 | 55 | 458 | 220 | 691 | 297 | 1108 | 901 | 820 | 487 | -46 | -724 | 181 | 30 |
| | | | (-37%) | (-24%) | (-17%) | (-8%) | (20%) | (9%) | (-1%) | (-21%) | (26%) | (-10%) | (29%) | (7%) | (42%) | (15%) | (78%) | (27%) | (67%) | (21%) | (83%) | (59%) | (47%) | (24%) | (-2%) | (-20%) | (12%) | (2%) |
| | SJR at Jersey Point | ALL | -689 | -1 | -876 | -233 | -410 | -177 | -238 | -223 | -67 | -103 | 22 | -12 | 37 | 9 | 50 | 3 | 124 | 37 | -295 | -51 | -4 | 164 | 49 | 200 | -192 | -32 |
| | | | (-35%) | (-0%) | (-40%) | (-15%) | (-25%) | (-12%) | (-28%) | (-26%) | (-15%) | (-21%) | (7%) | (-4%) | (14%) | (3%) | (14%) | (1%) | (23%) | (6%) | (-21%) | (-4%) | (-0%) | (12%) | (2%) | (10%) | (-17%) | (-3%) |
| | | DROUGHT | -922 | -310 | -933 | -403 | -450 | -112 | -230 | -248 | -10 | -140 | 48 | 7 | 51 | 19 | 145 | 13 | 305 | 43 | -348 | -52 | 41 | 270 | -145 | -498 | -204 | -117 |
| | | | (-40%) | (-18%) | (-36%) | (-20%) | (-20%) | (-6%) | (-21%) | (-22%) | (-2%) | (-21%) | (15%) | (2%) | (18%) | (6%) | (36%) | (2%) | (46%) | (5%) | (-16%) | (-3%) | (2%) | (16%) | (-6%) | (-18%) | (-14%) | (-9%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 8 | 9 | 9 | 9 | 6 | 7 | 5 | 10 | 6 | 11 | 13 | 15 | 12 | 13 | 9 | 10 | 15 | 16 | 12 | 13 | 11 | 10 | 9 | 9 | 10 | 11 |
| | | | (4%) | (5%) | (5%) | (4%) | (3%) | (3%) | (2%) | (4%) | (3%) | (4%) | (6%) | (7%) | (6%) | (6%) | (5%) | (5%) | (8%) | (9%) | (6%) | (7%) | (6%) | (5%) | (5%) | (5%) | (5%) | (5%) |
| | | DROUGHT | 7 | 7 | 9 | 9 | 6 | 7 | 1 | 5 | -2 | 3 | 9 | 14 | 7 | 10 | 9 | 11 | 20 | 21 | 15 | 15 | 11 | 10 | 7 | 8 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (3%) | (4%) | (0%) | (2%) | (-1%) | (1%) | (4%) | (6%) | (3%) | (5%) | (5%) | (6%) | (10%) | (11%) | (8%) | (8%) | (6%) | (5%) | (4%) | (4%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | 56 | 124 | -91 | 27 | -29 | 24 | -38 | -22 | 5 | -3 | 21 | 14 | 28 | 24 | 34 | 24 | 74 | 53 | 41 | 68 | 107 | 135 | 218 | 188 | 35 | 55 |
| | | | (11%) | (28%) | (-15%) | (5%) | (-5%) | (4%) | (-9%) | (-5%) | (2%) | (-1%) | (9%) | (6%) | (12%) | (10%) | (14%) | (9%) | (30%) | (20%) | (11%) | (19%) | (25%) | (34%) | (42%) | (34%) | (9%) | (15%) |
| | | DROUGHT | 22 | 49 | -76 | 1 | 26 | 72 | -24 | 18 | 40 | 1 | 34 | 26 | 41 | 38 | 65 | 41 | 136 | 73 | 86 | 130 | 185 | 229 | 190 | 60 | 60 | 62 |
| | | | (4%) | (8%) | (-11%) | (0%) | (4%) | (11%) | (-4%) | (4%) | (12%) | (0%) | (14%) | (10%) | (17%) | (16%) | (26%) | (15%) | (54%) | (23%) | (16%) | (27%) | (33%) | (45%) | (30%) | (8%) | (13%) | (13%) |
| Southern Delta | SJR at Vernalis | ALL | 3 | 0 | -35 | 0 | -48 | 0 | -85 | -2 | -11 | 0 | -28 | 0 | -10 | 0 | -5 | 0 | 57 | 1 | 38 | 1 | 9 | 1 | -16 | -1 | -11 | 0 |
| | | | (1%) | (0%) | (-6%) | (-0%) | (-6%) | (0%) | (-11%) | (-0%) | (-2%) | (-0%) | (-4%) | (-0%) | (-2%) | (-0%) | (-1%) | (0%) | (11%) | (0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-2%) | (-0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -19 | 0 | -4 | 0 | -9 | 0 | -7 | 1 | -3 | 2 | -5 | 2 | -19 | -4 | -20 | 0 |
| | | | (-1%) | (0%) | (-6%) | (0%) | (-6%) | (0%) | (-7%) | (0%) | (-1%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-1%) | (-3%) | (0%) |
| | SJR at Brandt Bridge | ALL | 1 | 0 | -33 | 0 | -47 | 4 | -86 | -7 | -14 | 0 | -28 | -1 | -12 | -5 | -6 | -1 | 55 | 1 | 36 | 14 | 12 | 10 | -14 | -1 | -11 | 1 |
| | | | (0%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-11%) | (-1%) | (-2%) | (0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -51 | 5 | -67 | -3 | -13 | 2 | -19 | -2 | -7 | -12 | -9 | -2 | -7 | 1 | -12 | 47 | -5 | 34 | -17 | -3 | -21 | 6 |
| | | | (-1%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (0%) | (-2%) | (8%) | (-1%) | (6%) | (-3%) | (-0%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 6 | 5 | -32 | 0 | -48 | 0 | -77 | 4 | -12 | 2 | -25 | 2 | -3 | 6 | -3 | 2 | 54 | 0 | 39 | 3 | 11 | 2 | -15 | -1 | -9 | 2 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-10%) | (1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-1%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 11 | 11 | -5 | 3 | -7 | 1 | -2 | 9 | -4 | 4 | -18 | -3 | -17 | 4 |
| | | | (-0%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-1%) | (0%) | (2%) | (2%) | (-1%) | (1%) | (-1%) | (0%) | (-0%) | (1%) | (-1%) | (1%) | (-3%) | (-0%) | (-2%) | (1%) |
| | Old River at Tracy Bridge | ALL | 15 | 22 | -20 | 7 | -50 | -1 | -59 | 21 | -7 | 11 | -17 | 11 | 25 | 35 | 3 | 9 | 44 | -3 | 34 | 4 | 2 | 8 | -17 | 4 | -4 | 10 |
| | | | (3%) | (4%) | (-4%) | (1%) | (-7%) | (-0%) | (-8%) | (3%) | (-1%) | (2%) | (-2%) | (2%) | (5%) | (8%) | (1%) | (2%) | (9%) | (-1%) | (6%) | (1%) | (0%) | (1%) | (-3%) | (1%) | (-1%) | (2%) |
| | | DROUGHT | 7 | 15 | -28 | 10 | -56 | -1 | -49 | 16 | -15 | 2 | 0 | 17 | 69 | 69 | 5 | 13 | -20 | 10 | -30 | 3 | -44 | 9 | -30 | 5 | -16 | 14 |
| | | | (1%) | (2%) | (-4%) | (2%) | (-7%) | (-0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (11%) | (11%) | (1%) | (2%) | (-3%) | (2%) | (-5%) | (0%) | (-6%) | (1%) | (-4%) | (1%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -16 | 45 | -151 | -25 | -124 | -38 | -61 | -22 | 31 | 45 | 61 | 72 | 64 | 84 | 47 | 55 | 67 | 68 | -9 | 36 | -4 | 58 | 60 | 76 | -3 | 38 |
| | | | (-3%) | (10%) | (-25%) | (-5%) | (-20%) | (-7%) | (-12%) | (-5%) | (8%) | (12%) | (18%) | (22%) | (19%) | (27%) | (15%) | (18%) | (23%) | (23%) | (-2%) | (10%) | (-1%) | (15%) | (12%) | (15%) | (-1%) | (9%) |
| | | DROUGHT | -36 | -9 | -139 | -45 | -129 | -40 | -84 | -8 | 43 | 47 | 105 | 123 | 123 | 144 | 97 | 95 | 105 | 63 | -49 | 14 | 11 | 115 | 70 | 33 | 10 | 44 |
| | | | (-6%) | (-2%) | (-21%) | (-8%) | (-18%) | (-6%) | (-14%) | (-2%) | (10%) | (11%) | (27%) | (33%) | (34%) | (43%) | (32%) | (30%) | (39%) | (20%) | (-9%) | (3%) | (2%) | (23%) | (12%) | (5%) | (2%) | (9%) |
| Export Area | Banks PP | ALL | -40 | 0 | -170 | -50 | -206 | -112 | -232 | -181 | -158 | -149 | -142 | -135 | -176 | -167 | -80 | -77 | -78 | -98 | -58 | -39 | -99 | -26 | -44 | -6 | -122 | -85 |
| | | | (-7%) | (0%) | (-27%) | (-10%) | (-30%) | (-19%) | (-35%) | (-30%) | (-29%) | (-28%) | (-30%) | (-29%) | (-38%) | (-37%) | (-18%) | (-18%) | (-20%) | (-24%) | (-13%) | (-9%) | (-19%) | (-6%) | (-8%) | (-1%) | (-23%) | (-17%) |
| | | DROUGHT | -38 | -23 | -146 | -59 | -277 | -185 | -222 | -158 | -179 | -159 | -224 | -212 | -303 | -294 | -208 | -208 | -36 | -76 | -105 | -67 | -105 | 30 | -28 | 7 | -156 | -117 |
| | | | (-6%) | (-4%) | (-21%) | (-10%) | (-34%) | (-26%) | (-29%) | (-22%) | (-27%) | (-25%) | (-35%) | (-34%) | (-48%) | (-47%) | (-38%) | (-38%) | (-9%) | (-16%) | (-20%) | (-14%) | (-15%) | (5%) | (-4%) | (1%) | (-24%) | (-19%) |
| | Jones PP | ALL | -108 | -83 | -188 | -84 | -190 | -109 | -213 | -154 | -209 | -203 | -228 | -220 | -131 | -127 | -72 | -68 | -38 | -85 | -70 | -75 | -68 | -17 | -101 | -73 | -135 | -108 |
| | | | (-19%) | (-16%) | (-30%) | (-16%) | (-27%) | (-18%) | (-30%) | (-24%) | (-34%) | (-33%) | (-38%) | (-38%) | (-27%) | (-27%) | (-16%) | (-16%) | (-10%) | (-19%) | (-15%) | (-16%) | (-13%) | (-4%) | (-18%) | (-14%) | (-24%) | (-20%) |
| | | DROUGHT | -132 | -141 | -166 | -85 | -159 | -86 | -259 | -179 | -284 | -270 | -340 | -332 | -205 | -209 | -102 | -97 | 12 | -28 | -126 | -94 | -92 | 18 | -40 | -22 | -158 | -127 |
| | | | (-20%) | (-22%) | (-24%) | (-14%) | (-20%) | (-12%) | (-31%) | (-23%) | (-34%) | (-33%) | (-40%) | (-39%) | (-32%) | (-32%) | (-18%) | (-17%) | (3%) | (-6%) | (-23%) | (-18%) | (-13%) | (3%) | (-6%) | (-4%) | (-23%) | (-19%) |

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 LLT Scn H2 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton/ Threemile Sl. Nr. Sac. R. | ALL | -1124 | -649 | -920 | -596 | -341 | -422 | -227 | -294 | -101 | -177 | -13 | -69 | -4 | -61 | -46 | -140 | -116 | -257 | -71 | -119 | -161 | -328 | -485 | -605 | -301 | -310 |
| | | | (-52%) | (-38%) | (-44%) | (-34%) | (-27%) | (-32%) | (-37%) | (-43%) | (-25%) | (-37%) | (-5%) | (-21%) | (-1%) | (-18%) | (-10%) | (-24%) | (-14%) | (-27%) | (-7%) | (-12%) | (-12%) | (-22%) | (-23%) | (-27%) | (-28%) | (-29%) |
| | | DROUGHT | -1798 | -1271 | -1411 | -1135 | -473 | -664 | -287 | -506 | -96 | -317 | -14 | -80 | 2 | -66 | 51 | -187 | -8 | -402 | 146 | -61 | -197 | -530 | -1171 | -1849 | -438 | -589 |
| | | | (-62%) | (-53%) | (-49%) | (-43%) | (-25%) | (-32%) | (-34%) | (-47%) | (-17%) | (-41%) | (-4%) | (-21%) | (1%) | (-18%) | (9%) | (-23%) | (-1%) | (-28%) | (11%) | (-4%) | (-11%) | (-26%) | (-40%) | (-51%) | (-30%) | (-37%) |
| | Sac. R. at Emmaton | ALL | -450 | 25 | -199 | 125 | 185 | 103 | -87 | -153 | -1 | -78 | 52 | -4 | 82 | 25 | 175 | 82 | 319 | 178 | 518 | 470 | 654 | 487 | 584 | 465 | 153 | 144 |
| | | | (-21%) | (1%) | (-9%) | (7%) | (15%) | (8%) | (-14%) | (-23%) | (-0%) | (-16%) | (19%) | (-1%) | (30%) | (7%) | (37%) | (14%) | (39%) | (19%) | (54%) | (47%) | (49%) | (32%) | (27%) | (21%) | (14%) | (13%) |
| | | DROUGHT | -1092 | -565 | -493 | -217 | 373 | 183 | -7 | -227 | 141 | -80 | 91 | 26 | 123 | 55 | 458 | 220 | 691 | 297 | 1108 | 901 | 820 | 487 | -46 | -724 | 181 | 30 |
| | | | (-37%) | (-24%) | (-17%) | (-8%) | (20%) | (9%) | (-1%) | (-21%) | (26%) | (-10%) | (29%) | (7%) | (42%) | (15%) | (78%) | (27%) | (67%) | (21%) | (83%) | (59%) | (47%) | (24%) | (-2%) | (-20%) | (12%) | (2%) |
| | SJR at Jersey Point | ALL | -689 | -1 | -876 | -233 | -410 | -177 | -238 | -223 | -67 | -103 | 22 | -12 | 37 | 9 | 50 | 3 | 124 | 37 | -295 | -51 | -4 | 164 | 49 | 200 | -192 | -32 |
| | | | (-35%) | (-0%) | (-40%) | (-15%) | (-25%) | (-12%) | (-28%) | (-26%) | (-15%) | (-21%) | (7%) | (-4%) | (14%) | (3%) | (14%) | (1%) | (23%) | (6%) | (-21%) | (-4%) | (-0%) | (12%) | (2%) | (10%) | (-17%) | (-3%) |
| | | DROUGHT | -922 | -310 | -933 | -403 | -450 | -112 | -230 | -248 | -10 | -140 | 48 | 7 | 51 | 19 | 145 | 13 | 305 | 43 | -348 | -52 | 41 | 270 | -145 | -498 | -204 | -117 |
| | | | (-40%) | (-18%) | (-36%) | (-20%) | (-20%) | (-6%) | (-21%) | (-22%) | (-2%) | (-21%) | (15%) | (2%) | (18%) | (6%) | (36%) | (2%) | (46%) | (5%) | (-16%) | (-3%) | (2%) | (16%) | (-6%) | (-18%) | (-14%) | (-9%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 8 | 9 | 9 | 9 | 6 | 7 | 5 | 10 | 6 | 11 | 13 | 15 | 12 | 13 | 9 | 10 | 15 | 16 | 12 | 13 | 11 | 10 | 9 | 9 | 10 | 11 |
| | | | (4%) | (5%) | (5%) | (4%) | (3%) | (3%) | (2%) | (4%) | (3%) | (4%) | (6%) | (7%) | (6%) | (6%) | (5%) | (5%) | (8%) | (9%) | (6%) | (7%) | (6%) | (5%) | (5%) | (5%) | (5%) | (5%) |
| | | DROUGHT | 7 | 7 | 9 | 9 | 6 | 7 | 1 | 5 | -2 | 3 | 9 | 14 | 7 | 10 | 9 | 11 | 20 | 21 | 15 | 15 | 11 | 10 | 7 | 8 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (3%) | (4%) | (0%) | (2%) | (-1%) | (1%) | (4%) | (6%) | (3%) | (5%) | (5%) | (6%) | (10%) | (11%) | (8%) | (8%) | (6%) | (5%) | (4%) | (4%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | 56 | 124 | -91 | 27 | -29 | 24 | -38 | -22 | 5 | -3 | 21 | 14 | 28 | 24 | 34 | 24 | 74 | 53 | 41 | 68 | 107 | 135 | 218 | 188 | 35 | 55 |
| | | | (11%) | (28%) | (-15%) | (5%) | (-5%) | (4%) | (-9%) | (-5%) | (2%) | (-1%) | (9%) | (6%) | (12%) | (10%) | (14%) | (9%) | (30%) | (20%) | (11%) | (19%) | (25%) | (34%) | (42%) | (34%) | (9%) | (15%) |
| | | DROUGHT | 22 | 49 | -76 | 1 | 26 | 72 | -24 | 18 | 40 | 1 | 34 | 26 | 41 | 38 | 65 | 41 | 136 | 73 | 86 | 130 | 185 | 229 | 190 | 60 | 60 | 62 |
| | | | (4%) | (8%) | (-11%) | (0%) | (4%) | (11%) | (-4%) | (4%) | (12%) | (0%) | (14%) | (10%) | (17%) | (16%) | (26%) | (15%) | (54%) | (23%) | (16%) | (27%) | (33%) | (45%) | (30%) | (8%) | (13%) | (13%) |
| Southern Delta | SJR at Vernalis | ALL | 3 | 0 | -35 | 0 | -48 | 0 | -85 | -2 | -11 | 0 | -28 | 0 | -10 | 0 | -5 | 0 | 57 | 1 | 38 | 1 | 9 | 1 | -16 | -1 | -11 | 0 |
| | | | (1%) | (0%) | (-6%) | (-0%) | (-6%) | (0%) | (-11%) | (-0%) | (-2%) | (-0%) | (-4%) | (-0%) | (-2%) | (-0%) | (-1%) | (0%) | (11%) | (0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-2%) | (-0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -19 | 0 | -4 | 0 | -9 | 0 | -7 | 1 | -3 | 2 | -5 | 2 | -19 | -4 | -20 | 0 |
| | | | (-1%) | (0%) | (-6%) | (0%) | (-6%) | (0%) | (-7%) | (0%) | (-1%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-1%) | (-3%) | (0%) |
| | SJR at Brandt Bridge | ALL | 1 | 0 | -33 | 0 | -47 | 4 | -86 | -7 | -14 | 0 | -28 | -1 | -12 | -5 | -6 | -1 | 55 | 1 | 36 | 14 | 12 | 10 | -14 | -1 | -11 | 1 |
| | | | (0%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-11%) | (-1%) | (-2%) | (0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -51 | 5 | -67 | -3 | -13 | 2 | -19 | -2 | -7 | -12 | -9 | -2 | -7 | 1 | -12 | 47 | -5 | 34 | -17 | -3 | -21 | 6 |
| | | | (-1%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (0%) | (-2%) | (8%) | (-1%) | (6%) | (-3%) | (-0%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 6 | 5 | -32 | 0 | -48 | 0 | -77 | 4 | -12 | 2 | -25 | 2 | -3 | 6 | -3 | 2 | 54 | 0 | 39 | 3 | 11 | 2 | -15 | -1 | -9 | 2 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-10%) | (1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-1%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 11 | 11 | -5 | 3 | -7 | 1 | -2 | 9 | -4 | 4 | -18 | -3 | -17 | 4 |
| | | | (-0%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-1%) | (0%) | (2%) | (2%) | (-1%) | (1%) | (-1%) | (0%) | (-0%) | (1%) | (-1%) | (1%) | (-3%) | (-0%) | (-2%) | (1%) |
| | Old River at Tracy Bridge | ALL | 15 | 22 | -20 | 7 | -50 | -1 | -59 | 21 | -7 | 11 | -17 | 11 | 25 | 35 | 3 | 9 | 44 | -3 | 34 | 4 | 2 | 8 | -17 | 4 | -4 | 10 |
| | | | (3%) | (4%) | (-4%) | (1%) | (-7%) | (-0%) | (-8%) | (3%) | (-1%) | (2%) | (-2%) | (2%) | (5%) | (8%) | (1%) | (2%) | (9%) | (-1%) | (6%) | (1%) | (0%) | (1%) | (-3%) | (1%) | (-1%) | (2%) |
| | | DROUGHT | 7 | 15 | -28 | 10 | -56 | -1 | -49 | 16 | -15 | 2 | 0 | 17 | 69 | 69 | 5 | 13 | -20 | 10 | -30 | 3 | -44 | 9 | -30 | 5 | -16 | 14 |
| | | | (1%) | (2%) | (-4%) | (2%) | (-7%) | (-0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (11%) | (11%) | (1%) | (2%) | (-3%) | (2%) | (-5%) | (0%) | (-6%) | (1%) | (-4%) | (1%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -16 | 45 | -151 | -25 | -124 | -38 | -61 | -22 | 31 | 45 | 61 | 72 | 64 | 84 | 47 | 55 | 67 | 68 | -9 | 36 | -4 | 58 | 60 | 76 | -3 | 38 |
| | | | (-3%) | (10%) | (-25%) | (-5%) | (-20%) | (-7%) | (-12%) | (-5%) | (8%) | (12%) | (18%) | (22%) | (19%) | (27%) | (15%) | (18%) | (23%) | (23%) | (-2%) | (10%) | (-1%) | (15%) | (12%) | (15%) | (-1%) | (9%) |
| | | DROUGHT | -36 | -9 | -139 | -45 | -129 | -40 | -84 | -8 | 43 | 47 | 105 | 123 | 123 | 144 | 97 | 95 | 105 | 63 | -49 | 14 | 11 | 115 | 70 | 33 | 10 | 44 |
| | | | (-6%) | (-2%) | (-21%) | (-8%) | (-18%) | (-6%) | (-14%) | (-2%) | (10%) | (11%) | (27%) | (33%) | (34%) | (43%) | (32%) | (30%) | (39%) | (20%) | (-9%) | (3%) | (2%) | (23%) | (12%) | (5%) | (2%) | (9%) |
| Export Area | Banks PP | ALL | -40 | 0 | -170 | -50 | -206 | -112 | -232 | -181 | -158 | -149 | -142 | -135 | -176 | -167 | -80 | -77 | -78 | -98 | -58 | -39 | -99 | -26 | -44 | -6 | -122 | -85 |
| | | | (-7%) | (0%) | (-27%) | (-10%) | (-30%) | (-19%) | (-35%) | (-30%) | (-29%) | (-28%) | (-30%) | (-29%) | (-38%) | (-37%) | (-18%) | (-18%) | (-20%) | (-24%) | (-13%) | (-9%) | (-19%) | (-6%) | (-8%) | (-1%) | (-23%) | (-17%) |
| | | DROUGHT | -38 | -23 | -146 | -59 | -277 | -185 | -222 | -158 | -179 | -159 | -224 | -212 | -303 | -294 | -208 | -208 | -36 | -76 | -105 | -67 | -105 | 30 | -28 | 7 | -156 | -117 |
| | | | (-6%) | (-4%) | (-21%) | (-10%) | (-34%) | (-26%) | (-29%) | (-22%) | (-27%) | (-25%) | (-35%) | (-34%) | (-48%) | (-47%) | (-38%) | (-38%) | (-9%) | (-16%) | (-20%) | (-14%) | (-15%) | (5%) | (-4%) | (1%) | (-24%) | (-19%) |
| | Jones PP | ALL | -108 | -83 | -188 | -84 | -190 | -109 | -213 | -154 | -209 | -203 | -228 | -220 | -131 | -127 | -72 | -68 | -38 | -85 | -70 | -75 | -68 | -17 | -101 | -73 | -135 | -108 |
| | | | (-19%) | (-16%) | (-30%) | (-16%) | (-27%) | (-18%) | (-30%) | (-24%) | (-34%) | (-33%) | (-38%) | (-38%) | (-27%) | (-27%) | (-16%) | (-16%) | (-10%) | (-19%) | (-15%) | (-16%) | (-13%) | (-4%) | (-18%) | (-14%) | (-24%) | (-20%) |
| | | DROUGHT | -132 | -141 | -166 | -85 | -159 | -86 | -259 | -179 | -284 | -270 | -340 | -332 | -205 | -209 | -102 | -97 | 12 | -28 | -126 | -94 | -92 | 18 | -40 | -22 | -158 | -127 |
| | | | (-20%) | (-22%) | (-24%) | (-14%) | (-20%) | (-12%) | (-31%) | (-23%) | (-34%) | (-33%) | (-40%) | (-39%) | (-32%) | (-32%) | (-18%) | (-17%) | (3%) | (-6%) | (-23%) | (-18%) | (-13%) | (3%) | (-6%) | (-4%) | (-23%) | (-19%) |

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

1 **Table EC-15C. Period average change in EC levels for Alternative 4-H3 LLT relative to existing conditions and the No Action Alternative LLT.**

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 Scn H3 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton | ALL | -813 | -338 | -532 | -207 | -163 | -244 | -122 | -189 | 8 | -68 | 68 | 12 | 94 | 38 | 194 | 101 | 319 | 178 | 456 | 407 | 667 | 500 | -157 | -276 | 2 | -7 |
| | | | (-37%) | (-20%) | (-25%) | (-12%) | (-13%) | (-18%) | (-20%) | (-28%) | (2%) | (-14%) | (25%) | (4%) | (34%) | (11%) | (41%) | (18%) | (39%) | (19%) | (47%) | (40%) | (50%) | (33%) | (-7%) | (-12%) | (0%) | (-1%) |
| | | DROUGHT | -1098 | -571 | -687 | -411 | -290 | -480 | -111 | -330 | 129 | -92 | 94 | 28 | 131 | 62 | 485 | 247 | 709 | 315 | 1070 | 863 | 841 | 508 | 49 | -628 | 110 | -41 |
| | | | (-38%) | (-24%) | (-24%) | (-16%) | (-15%) | (-23%) | (-13%) | (-31%) | (23%) | (-12%) | (30%) | (7%) | (44%) | (17%) | (83%) | (30%) | (69%) | (22%) | (80%) | (56%) | (48%) | (25%) | (2%) | (-17%) | (8%) | (-3%) |
| | SJR at Jersey Point | ALL | -994 | -306 | -1101 | -458 | -682 | -448 | -328 | -313 | -82 | -118 | 24 | -10 | 38 | 10 | 55 | 8 | 139 | 52 | -251 | -6 | 10 | 179 | -476 | -325 | -304 | -145 |
| | | | (-51%) | (-24%) | (-50%) | (-29%) | (-41%) | (-31%) | (-38%) | (-37%) | (-18%) | (-24%) | (8%) | (-3%) | (14%) | (3%) | (15%) | (2%) | (25%) | (8%) | (-18%) | (-1%) | (1%) | (13%) | (-23%) | (-17%) | (-27%) | (-15%) |
| | | DROUGHT | -1022 | -410 | -1073 | -543 | -805 | -467 | -399 | -417 | -52 | -182 | 42 | 1 | 47 | 15 | 160 | 28 | 343 | 82 | -420 | -125 | 8 | 237 | -76 | -429 | -271 | -184 |
| | | | (-44%) | (-24%) | (-42%) | (-27%) | (-37%) | (-25%) | (-36%) | (-37%) | (-10%) | (-27%) | (13%) | (0%) | (17%) | (5%) | (40%) | (5%) | (51%) | (9%) | (-19%) | (-7%) | (0%) | (14%) | (-3%) | (-15%) | (-19%) | (-14%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 9 | 9 | 10 | 9 | 5 | 6 | 5 | 10 | 6 | 10 | 13 | 15 | 13 | 14 | 9 | 10 | 14 | 15 | 10 | 11 | 11 | 10 | 8 | 7 | 9 | 11 |
| | | | (5%) | (5%) | (5%) | (5%) | (2%) | (3%) | (2%) | (4%) | (2%) | (4%) | (6%) | (7%) | (6%) | (7%) | (5%) | (5%) | (7%) | (8%) | (5%) | (6%) | (6%) | (5%) | (4%) | (4%) | (5%) | (5%) |
| | | DROUGHT | 8 | 8 | 8 | 8 | 3 | 4 | 1 | 5 | -2 | 3 | 9 | 14 | 6 | 9 | 8 | 10 | 19 | 20 | 16 | 16 | 11 | 10 | 8 | 9 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (2%) | (2%) | (0%) | (2%) | (-1%) | (1%) | (4%) | (6%) | (3%) | (4%) | (4%) | (5%) | (10%) | (10%) | (8%) | (8%) | (6%) | (6%) | (4%) | (5%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | -39 | 29 | -139 | -20 | -120 | -67 | -83 | -67 | -8 | -16 | 18 | 11 | 25 | 22 | 32 | 22 | 71 | 51 | 55 | 82 | 123 | 152 | 85 | 55 | 2 | 21 |
| | | | (-8%) | (6%) | (-22%) | (-4%) | (-20%) | (-12%) | (-20%) | (-16%) | (-3%) | (-5%) | (8%) | (4%) | (11%) | (9%) | (13%) | (9%) | (29%) | (19%) | (14%) | (23%) | (29%) | (38%) | (16%) | (10%) | (0%) | (6%) |
| | | DROUGHT | -26 | 0 | -105 | -28 | -103 | -57 | -99 | -57 | 14 | -24 | 26 | 18 | 27 | 25 | 56 | 32 | 141 | 78 | 73 | 118 | 163 | 207 | 219 | 89 | 32 | 33 |
| | | | (-4%) | (0%) | (-15%) | (-4%) | (-14%) | (-8%) | (-18%) | (-11%) | (4%) | (-7%) | (11%) | (7%) | (11%) | (10%) | (23%) | (12%) | (56%) | (25%) | (14%) | (24%) | (29%) | (40%) | (34%) | (12%) | (7%) | (7%) |
| Southern Delta | SJR at Vernalis | ALL | 3 | 0 | -35 | 0 | -48 | 0 | -82 | 1 | -10 | 0 | -28 | 0 | -10 | 0 | -5 | 0 | 56 | 0 | 38 | 0 | 7 | 0 | -16 | -1 | -11 | 0 |
| | | | (1%) | (0%) | (-6%) | (0%) | (-6%) | (0%) | (-11%) | (0%) | (-2%) | (0%) | (-4%) | (0%) | (-2%) | (0%) | (-1%) | (0%) | (11%) | (0%) | (7%) | (0%) | (1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -19 | 0 | -4 | 0 | -9 | 0 | -9 | 0 | -5 | 0 | -7 | 0 | -17 | -2 | -21 | 0 |
| | | | (-1%) | (0%) | (-6%) | (-0%) | (-6%) | (-0%) | (-7%) | (-0%) | (-1%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (-2%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-0%) | (-3%) | (-0%) |
| | SJR at Brandt Bridge | ALL | 1 | 0 | -33 | 0 | -47 | 3 | -83 | -4 | -14 | 0 | -28 | -1 | -12 | -5 | -6 | -1 | 55 | 0 | 36 | 13 | 11 | 9 | -14 | 0 | -11 | 1 |
| | | | (0%) | (0%) | (-6%) | (0%) | (-6%) | (0%) | (-11%) | (-1%) | (-2%) | (0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -53 | 3 | -67 | -3 | -13 | 2 | -19 | -2 | -7 | -12 | -9 | -2 | -8 | 0 | -14 | 45 | -7 | 33 | -16 | -1 | -22 | 5 |
| | | | (-1%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (7%) | (-1%) | (5%) | (-2%) | (-0%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 6 | 5 | -32 | 1 | -48 | 0 | -74 | 7 | -11 | 2 | -25 | 2 | -3 | 6 | -3 | 2 | 54 | 0 | 39 | 3 | 10 | 1 | -14 | 0 | -8 | 2 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-10%) | (1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (-0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-1%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 11 | 11 | -5 | 3 | -8 | 0 | -4 | 8 | -6 | 2 | -16 | -1 | -17 | 3 |
| | | | (-1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-2%) | (0%) | (2%) | (2%) | (-1%) | (1%) | (-1%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | Old River at Tracy Bridge | ALL | 4 | 11 | -23 | 5 | -50 | -1 | -55 | 24 | -6 | 12 | -17 | 10 | 24 | 35 | 3 | 9 | 41 | -6 | 33 | 2 | 7 | 13 | -11 | 9 | -4 | 10 |
| | | | (1%) | (2%) | (-4%) | (1%) | (-7%) | (-0%) | (-7%) | (3%) | (-1%) | (2%) | (-3%) | (2%) | (5%) | (7%) | (1%) | (2%) | (8%) | (-1%) | (6%) | (0%) | (1%) | (2%) | (-2%) | (2%) | (-1%) | (2%) |
| | | DROUGHT | 3 | 11 | -26 | 12 | -55 | 0 | -49 | 15 | -14 | 3 | -1 | 16 | 67 | 67 | 4 | 12 | -29 | 0 | -34 | -1 | -29 | 24 | -16 | 19 | -15 | 15 |
| | | | (1%) | (2%) | (-4%) | (2%) | (-7%) | (-0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (10%) | (10%) | (1%) | (2%) | (-5%) | (0%) | (-5%) | (-0%) | (-4%) | (4%) | (-2%) | (3%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -53 | 8 | -149 | -23 | -181 | -95 | -104 | -65 | 17 | 31 | 49 | 60 | 53 | 73 | 40 | 48 | 57 | 57 | -12 | 32 | 9 | 72 | 14 | 30 | -22 | 19 |
| | | | (-11%) | (2%) | (-25%) | (-5%) | (-29%) | (-18%) | (-20%) | (-14%) | (4%) | (8%) | (15%) | (18%) | (16%) | (23%) | (13%) | (16%) | (20%) | (20%) | (-3%) | (9%) | (2%) | (18%) | (3%) | (6%) | (-5%) | (5%) |
| | | DROUGHT | -49 | -22 | -143 | -49 | -193 | -104 | -148 | -73 | 19 | 22 | 89 | 107 | 90 | 111 | 78 | 76 | 100 | 59 | -52 | 11 | -18 | 87 | 81 | 43 | -12 | 22 |
| | | | (-8%) | (-4%) | (-22%) | (-9%) | (-26%) | (-16%) | (-24%) | (-14%) | (4%) | (5%) | (23%) | (29%) | (25%) | (33%) | (25%) | (24%) | (37%) | (19%) | (-9%) | (2%) | (-3%) | (17%) | (13%) | (7%) | (-2%) | (5%) |
| Export Area | Banks PP | ALL | -88 | -47 | -225 | -105 | -247 | -153 | -293 | -242 | -160 | -151 | -167 | -160 | -177 | -168 | -48 | -45 | -42 | -61 | -58 | -38 | -116 | -43 | -90 | -51 | -140 | -103 |
| | | | (-16%) | (-9%) | (-36%) | (-20%) | (-36%) | (-26%) | (-44%) | (-40%) | (-30%) | (-29%) | (-35%) | (-34%) | (-38%) | (-37%) | (-11%) | (-11%) | (-11%) | (-15%) | (-13%) | (-9%) | (-22%) | (-10%) | (-16%) | (-10%) | (-26%) | (-21%) |
| | | DROUGHT | -29 | -14 | -194 | -107 | -309 | -217 | -425 | -360 | -189 | -168 | -306 | -294 | -282 | -273 | -70 | -70 | 58 | 19 | -66 | -28 | -201 | -66 | 38 | 72 | -154 | -115 |
| | | | (-4%) | (-2%) | (-27%) | (-17%) | (-38%) | (-30%) | (-55%) | (-51%) | (-29%) | (-26%) | (-48%) | (-47%) | (-45%) | (-44%) | (-13%) | (-13%) | (14%) | (4%) | (-12%) | (-6%) | (-28%) | (-11%) | (6%) | (12%) | (-24%) | (-19%) |
| | Jones PP | ALL | -133 | -107 | -220 | -117 | -164 | -83 | -228 | -169 | -194 | -189 | -219 | -211 | -108 | -104 | -91 | -88 | -80 | -126 | -57 | -62 | -30 | 21 | -103 | -75 | -135 | -109 |
| | | | (-24%) | (-20%) | (-35%) | (-22%) | (-23%) | (-13%) | (-32%) | (-26%) | (-31%) | (-31%) | (-37%) | (-36%) | (-23%) | (-22%) | (-21%) | (-20%) | (-20%) | (-29%) | (-12%) | (-13%) | (-6%) | (4%) | (-19%) | (-14%) | (-24%) | (-21%) |
| | | DROUGHT | -93 | -103 | -174 | -93 | -147 | -73 | -387 | -306 | -293 | -279 | -268 | -259 | -137 | -141 | -154 | -149 | -39 | -79 | -137 | -106 | -74 | 37 | 31 | 49 | -146 | -115 |
| | | | (-15%) | (-16%) | (-25%) | (-15%) | (-18%) | (-10%) | (-46%) | (-40%) | (-35%) | (-34%) | (-31%) | (-31%) | (-21%) | (-22%) | (-27%) | (-26%) | (-10%) | (-18%) | (-25%) | (-20%) | (-11%) | (6%) | (5%) | (8%) | (-21%) | (-18%) |

2
3

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 Scn H3 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton/ Threemile Sl. Nr. Sac. R. | ALL | -1328 | -853 | -1106 | -782 | -550 | -632 | -256 | -322 | -99 | -176 | -7 | -63 | 1 | -56 | -38 | -132 | -119 | -259 | -102 | -151 | -149 | -316 | -918 | -1037 | -389 | -398 |
| | | | (-61%) | (-50%) | (-53%) | (-44%) | (-44%) | (-47%) | (-42%) | (-47%) | (-25%) | (-37%) | (-3%) | (-19%) | (0%) | (-17%) | (-8%) | (-23%) | (-15%) | (-27%) | (-11%) | (-15%) | (-11%) | (-21%) | (-43%) | (-46%) | (-36%) | (-37%) |
| | | DROUGHT | -1790 | -1263 | -1514 | -1238 | -876 | -1066 | -355 | -575 | -107 | -328 | -16 | -82 | 3 | -66 | 64 | -174 | 3 | -391 | 109 | -98 | -186 | -519 | -1110 | -1787 | -481 | -632 |
| | | | (-61%) | (-53%) | (-52%) | (-47%) | (-46%) | (-51%) | (-42%) | (-54%) | (-19%) | (-42%) | (-5%) | (-21%) | (1%) | (-18%) | (11%) | (-21%) | (0%) | (-27%) | (8%) | (-6%) | (-11%) | (-25%) | (-38%) | (-49%) | (-33%) | (-40%) |
| | Sac. R. at Emmaton | ALL | -813 | -338 | -532 | -207 | -163 | -244 | -122 | -189 | 8 | -68 | 68 | 12 | 94 | 38 | 194 | 101 | 319 | 178 | 456 | 407 | 667 | 500 | -157 | -276 | 2 | -7 |
| | | | (-37%) | (-20%) | (-25%) | (-12%) | (-13%) | (-18%) | (-20%) | (-28%) | (2%) | (-14%) | (25%) | (4%) | (34%) | (11%) | (41%) | (18%) | (39%) | (19%) | (47%) | (40%) | (50%) | (33%) | (-7%) | (-12%) | (0%) | (-1%) |
| | | DROUGHT | -1098 | -571 | -687 | -411 | -290 | -480 | -111 | -330 | 129 | -92 | 94 | 28 | 131 | 62 | 485 | 247 | 709 | 315 | 1070 | 863 | 841 | 508 | 49 | -628 | 110 | -41 |
| | | | (-38%) | (-24%) | (-24%) | (-16%) | (-15%) | (-23%) | (-13%) | (-31%) | (23%) | (-12%) | (30%) | (7%) | (44%) | (17%) | (83%) | (30%) | (69%) | (22%) | (80%) | (56%) | (48%) | (25%) | (2%) | (-17%) | (8%) | (-3%) |
| | SJR at Jersey Point | ALL | -994 | -306 | -1101 | -458 | -682 | -448 | -328 | -313 | -82 | -118 | 24 | -10 | 38 | 10 | 55 | 8 | 139 | 52 | -251 | -6 | 10 | 179 | -476 | -325 | -304 | -145 |
| | | | (-51%) | (-24%) | (-50%) | (-29%) | (-41%) | (-31%) | (-38%) | (-37%) | (-18%) | (-24%) | (8%) | (-3%) | (14%) | (3%) | (15%) | (2%) | (25%) | (8%) | (-18%) | (-1%) | (1%) | (13%) | (-23%) | (-17%) | (-27%) | (-15%) |
| | | DROUGHT | -1022 | -410 | -1073 | -543 | -805 | -467 | -399 | -417 | -52 | -182 | 42 | 1 | 47 | 15 | 160 | 28 | 343 | 82 | -420 | -125 | 8 | 237 | -76 | -429 | -271 | -184 |
| | | | (-44%) | (-24%) | (-42%) | (-27%) | (-37%) | (-25%) | (-36%) | (-37%) | (-10%) | (-27%) | (13%) | (0%) | (17%) | (5%) | (40%) | (5%) | (51%) | (9%) | (-19%) | (-7%) | (0%) | (14%) | (-3%) | (-15%) | (-19%) | (-14%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 9 | 9 | 10 | 9 | 5 | 6 | 5 | 10 | 6 | 10 | 13 | 15 | 13 | 14 | 9 | 10 | 14 | 15 | 10 | 11 | 11 | 10 | 8 | 7 | 9 | 11 |
| | | | (5%) | (5%) | (5%) | (5%) | (2%) | (3%) | (2%) | (4%) | (2%) | (4%) | (6%) | (7%) | (6%) | (7%) | (5%) | (5%) | (7%) | (8%) | (5%) | (6%) | (6%) | (5%) | (4%) | (4%) | (5%) | (5%) |
| | | DROUGHT | 8 | 8 | 8 | 8 | 3 | 4 | 1 | 5 | -2 | 3 | 9 | 14 | 6 | 9 | 8 | 10 | 19 | 20 | 16 | 16 | 11 | 10 | 8 | 9 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (2%) | (2%) | (0%) | (2%) | (-1%) | (1%) | (4%) | (6%) | (3%) | (4%) | (4%) | (5%) | (10%) | (10%) | (8%) | (8%) | (6%) | (6%) | (4%) | (5%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | -39 | 29 | -139 | -20 | -120 | -67 | -83 | -67 | -8 | -16 | 18 | 11 | 25 | 22 | 32 | 22 | 71 | 51 | 55 | 82 | 123 | 152 | 85 | 55 | 2 | 21 |
| | | | (-8%) | (6%) | (-22%) | (-4%) | (-20%) | (-12%) | (-20%) | (-16%) | (-3%) | (-5%) | (8%) | (4%) | (11%) | (9%) | (13%) | (9%) | (29%) | (19%) | (14%) | (23%) | (29%) | (38%) | (16%) | (10%) | (0%) | (6%) |
| | | DROUGHT | -26 | 0 | -105 | -28 | -103 | -57 | -99 | -57 | 14 | -24 | 26 | 18 | 27 | 25 | 56 | 32 | 141 | 78 | 73 | 118 | 163 | 207 | 219 | 89 | 32 | 33 |
| | | | (-4%) | (0%) | (-15%) | (-4%) | (-14%) | (-8%) | (-18%) | (-11%) | (4%) | (-7%) | (11%) | (7%) | (11%) | (10%) | (23%) | (12%) | (56%) | (25%) | (14%) | (24%) | (29%) | (40%) | (34%) | (12%) | (7%) | (7%) |
| Southern Delta | SJR at Vernalis | ALL | 3 | 0 | -35 | 0 | -48 | 0 | -82 | 1 | -10 | 0 | -28 | 0 | -10 | 0 | -5 | 0 | 56 | 0 | 38 | 0 | 7 | 0 | -16 | -1 | -11 | 0 |
| | | | (1%) | (0%) | (-6%) | (0%) | (-6%) | (0%) | (-11%) | (0%) | (-2%) | (0%) | (-4%) | (0%) | (-2%) | (0%) | (-1%) | (0%) | (11%) | (0%) | (7%) | (0%) | (1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -19 | 0 | -4 | 0 | -9 | 0 | -9 | 0 | -5 | 0 | -7 | 0 | -17 | -2 | -21 | 0 |
| | | | (-1%) | (0%) | (-6%) | (-0%) | (-6%) | (-0%) | (-7%) | (-0%) | (-1%) | (-0%) | (-2%) | (0%) | (-1%) | (0%) | (-2%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-0%) | (-3%) | (-0%) |
| | SJR at Brandt Bridge | ALL | 1 | 0 | -33 | 0 | -47 | 3 | -83 | -4 | -14 | 0 | -28 | -1 | -12 | -5 | -6 | -1 | 55 | 0 | 36 | 13 | 11 | 9 | -14 | 0 | -11 | 1 |
| | | | (0%) | (0%) | (-6%) | (0%) | (-6%) | (0%) | (-11%) | (-1%) | (-2%) | (0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -53 | 3 | -67 | -3 | -13 | 2 | -19 | -2 | -7 | -12 | -9 | -2 | -8 | 0 | -14 | 45 | -7 | 33 | -16 | -1 | -22 | 5 |
| | | | (-1%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (7%) | (-1%) | (5%) | (-2%) | (-0%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 6 | 5 | -32 | 1 | -48 | 0 | -74 | 7 | -11 | 2 | -25 | 2 | -3 | 6 | -3 | 2 | 54 | 0 | 39 | 3 | 10 | 1 | -14 | 0 | -8 | 2 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-10%) | (1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (-0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-1%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 11 | 11 | -5 | 3 | -8 | 0 | -4 | 8 | -6 | 2 | -16 | -1 | -17 | 3 |
| | | | (-1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-2%) | (0%) | (2%) | (2%) | (-1%) | (1%) | (-1%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | Old River at Tracy Bridge | ALL | 4 | 11 | -23 | 5 | -50 | -1 | -55 | 24 | -6 | 12 | -17 | 10 | 24 | 35 | 3 | 9 | 41 | -6 | 33 | 2 | 7 | 13 | -11 | 9 | -4 | 10 |
| | | | (1%) | (2%) | (-4%) | (1%) | (-7%) | (-0%) | (-7%) | (3%) | (-1%) | (2%) | (-3%) | (2%) | (5%) | (7%) | (1%) | (2%) | (8%) | (-1%) | (6%) | (0%) | (1%) | (2%) | (-2%) | (2%) | (-1%) | (2%) |
| | | DROUGHT | 3 | 11 | -26 | 12 | -55 | 0 | -49 | 15 | -14 | 3 | -1 | 16 | 67 | 67 | 4 | 12 | -29 | 0 | -34 | -1 | -29 | 24 | -16 | 19 | -15 | 15 |
| | | | (1%) | (2%) | (-4%) | (2%) | (-7%) | (-0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (10%) | (10%) | (1%) | (2%) | (-5%) | (0%) | (-5%) | (-0%) | (-4%) | (4%) | (-2%) | (3%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -53 | 8 | -149 | -23 | -181 | -95 | -104 | -65 | 17 | 31 | 49 | 60 | 53 | 73 | 40 | 48 | 57 | 57 | -12 | 32 | 9 | 72 | 14 | 30 | -22 | 19 |
| | | | (-11%) | (2%) | (-25%) | (-5%) | (-29%) | (-18%) | (-20%) | (-14%) | (4%) | (8%) | (15%) | (18%) | (16%) | (23%) | (13%) | (16%) | (20%) | (20%) | (-3%) | (9%) | (2%) | (18%) | (3%) | (6%) | (-5%) | (5%) |
| | | DROUGHT | -49 | -22 | -143 | -49 | -193 | -104 | -148 | -73 | 19 | 22 | 89 | 107 | 90 | 111 | 78 | 76 | 100 | 59 | -52 | 11 | -18 | 87 | 81 | 43 | -12 | 22 |
| | | | (-8%) | (-4%) | (-22%) | (-9%) | (-26%) | (-16%) | (-24%) | (-14%) | (4%) | (5%) | (23%) | (29%) | (25%) | (33%) | (25%) | (24%) | (37%) | (19%) | (-9%) | (2%) | (-3%) | (17%) | (13%) | (7%) | (-2%) | (5%) |
| Export Area | Banks PP | ALL | -88 | -47 | -225 | -105 | -247 | -153 | -293 | -242 | -160 | -151 | -167 | -160 | -177 | -168 | -48 | -45 | -42 | -61 | -58 | -38 | -116 | -43 | -90 | -51 | -140 | -103 |
| | | | (-16%) | (-9%) | (-36%) | (-20%) | (-36%) | (-26%) | (-44%) | (-40%) | (-30%) | (-29%) | (-35%) | (-34%) | (-38%) | (-37%) | (-11%) | (-11%) | (-11%) | (-15%) | (-13%) | (-9%) | (-22%) | (-10%) | (-16%) | (-10%) | (-26%) | (-21%) |
| | | DROUGHT | -29 | -14 | -194 | -107 | -309 | -217 | -425 | -360 | -189 | -168 | -306 | -294 | -282 | -273 | -70 | -70 | 58 | 19 | -66 | -28 | -201 | -66 | 38 | 72 | -154 | -115 |
| | | | (-4%) | (-2%) | (-27%) | (-17%) | (-38%) | (-30%) | (-55%) | (-51%) | (-29%) | (-26%) | (-48%) | (-47%) | (-45%) | (-44%) | (-13%) | (-13%) | (14%) | (4%) | (-12%) | (-6%) | (-28%) | (-11%) | (6%) | (12%) | (-24%) | (-19%) |
| | Jones PP | ALL | -133 | -107 | -220 | -117 | -164 | -83 | -228 | -169 | -194 | -189 | -219 | -211 | -108 | -104 | -91 | -88 | -80 | -126 | -57 | -62 | -30 | 21 | -103 | -75 | -135 | -109 |
| | | | (-24%) | (-20%) | (-35%) | (-22%) | (-23%) | (-13%) | (-32%) | (-26%) | (-31%) | (-31%) | (-37%) | (-36%) | (-23%) | (-22%) | (-21%) | (-20%) | (-20%) | (-29%) | (-12%) | (-13%) | (-6%) | (4%) | (-19%) | (-14%) | (-24%) | (-21%) |
| | | DROUGHT | -93 | -103 | -174 | -93 | -147 | -73 | -387 | -306 | -293 | -279 | -268 | -259 | -137 | -141 | -154 | -149 | -39 | -79 | -137 | -106 | -74 | 37 | 31 | 49 | -146 | -115 |
| | | | (-15%) | (-16%) | (-25%) | (-15%) | (-18%) | (-10%) | (-46%) | (-40%) | (-35%) | (-34%) | (-31%) | (-31%) | (-21%) | (-22%) | (-27%) | (-26%) | (-10%) | (-18%) | (-25%) | (-20%) | (-11%) | (6%) | (5%) | (8%) | (-21%) | (-18%) |

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).

**Table EC-15D. Period average change in EC levels for Alternative 4-H4 LLT relative to existing conditions and the No Action Alternative LLT.**

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 Scn H4 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton | ALL | -885 | -409 | -632 | -307 | -82 | -164 | -1 | -68 | 42 | -34 | 61 | 5 | 85 | 28 | 173 | 80 | 319 | 178 | 515 | 467 | 615 | 448 | -172 | -292 | 3 | -6 |
| | | | (-41%) | (-24%) | (-30%) | (-17%) | (-7%) | (-12%) | (-0%) | (-10%) | (10%) | (-7%) | (23%) | (2%) | (31%) | (8%) | (36%) | (14%) | (39%) | (19%) | (54%) | (46%) | (46%) | (30%) | (-8%) | (-13%) | (0%) | (-1%) |
| | | DROUGHT | -1099 | -572 | -891 | -614 | -50 | -241 | 99 | -120 | 195 | -26 | 96 | 31 | 118 | 49 | 453 | 215 | 690 | 296 | 1085 | 878 | 734 | 401 | -106 | -783 | 110 | -40 |
| | | | (-38%) | (-24%) | (-31%) | (-23%) | (-3%) | (-11%) | (12%) | (-11%) | (35%) | (-3%) | (30%) | (8%) | (40%) | (14%) | (77%) | (26%) | (67%) | (21%) | (81%) | (57%) | (42%) | (19%) | (-4%) | (-22%) | (8%) | (-3%) |
| | SJR at Jersey Point | ALL | -984 | -295 | -1195 | -552 | -650 | -416 | -247 | -231 | -50 | -87 | 28 | -5 | 41 | 13 | 51 | 4 | 126 | 39 | -315 | -71 | 7 | 176 | -449 | -298 | -303 | -144 |
| | | | (-50%) | (-23%) | (-54%) | (-35%) | (-39%) | (-29%) | (-29%) | (-27%) | (-11%) | (-18%) | (10%) | (-2%) | (15%) | (4%) | (14%) | (1%) | (23%) | (6%) | (-22%) | (-6%) | (0%) | (13%) | (-22%) | (-16%) | (-27%) | (-15%) |
| | | DROUGHT | -970 | -358 | -1244 | -714 | -779 | -441 | -248 | -266 | 5 | -125 | 52 | 12 | 49 | 17 | 142 | 10 | 311 | 50 | -408 | -112 | 49 | 278 | -128 | -481 | -264 | -178 |
| | | | (-42%) | (-21%) | (-48%) | (-35%) | (-35%) | (-24%) | (-23%) | (-24%) | (1%) | (-19%) | (16%) | (3%) | (18%) | (5%) | (35%) | (2%) | (47%) | (5%) | (-19%) | (-6%) | (3%) | (16%) | (-5%) | (-17%) | (-19%) | (-13%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 8 | 8 | 9 | 9 | 5 | 6 | 7 | 12 | 7 | 11 | 13 | 15 | 12 | 13 | 9 | 10 | 15 | 16 | 13 | 13 | 10 | 9 | 8 | 7 | 10 | 11 |
| | | | (4%) | (4%) | (5%) | (5%) | (2%) | (3%) | (3%) | (5%) | (3%) | (5%) | (6%) | (7%) | (6%) | (7%) | (5%) | (5%) | (8%) | (9%) | (7%) | (7%) | (6%) | (5%) | (4%) | (4%) | (5%) | (5%) |
| | | DROUGHT | 7 | 7 | 8 | 8 | 5 | 6 | 3 | 7 | -1 | 4 | 9 | 14 | 7 | 10 | 9 | 11 | 20 | 21 | 16 | 16 | 10 | 9 | 7 | 8 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (3%) | (3%) | (1%) | (3%) | (-0%) | (2%) | (4%) | (6%) | (3%) | (5%) | (5%) | (6%) | (10%) | (11%) | (8%) | (8%) | (5%) | (5%) | (4%) | (4%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | -42 | 26 | -163 | -44 | -121 | -69 | -45 | -28 | 10 | 2 | 25 | 18 | 31 | 27 | 35 | 25 | 75 | 55 | 37 | 63 | 99 | 128 | 89 | 59 | 3 | 22 |
| | | | (-8%) | (6%) | (-26%) | (-9%) | (-20%) | (-13%) | (-10%) | (-7%) | (4%) | (1%) | (11%) | (7%) | (13%) | (11%) | (14%) | (10%) | (30%) | (20%) | (9%) | (18%) | (23%) | (32%) | (17%) | (11%) | (1%) | (6%) |
| | | DROUGHT | -25 | 1 | -148 | -71 | -122 | -76 | -38 | 4 | 44 | 6 | 36 | 28 | 41 | 39 | 65 | 41 | 137 | 74 | 67 | 112 | 159 | 202 | 199 | 69 | 35 | 36 |
| | | | (-4%) | (0%) | (-21%) | (-11%) | (-17%) | (-11%) | (-7%) | (1%) | (13%) | (2%) | (15%) | (11%) | (17%) | (16%) | (26%) | (15%) | (54%) | (23%) | (13%) | (23%) | (29%) | (40%) | (31%) | (9%) | (7%) | (8%) |
| Southern Delta | SJR at Vernalis | ALL | 3 | 0 | -35 | 0 | -48 | 0 | -96 | -13 | -11 | -1 | -28 | 0 | -11 | 0 | -6 | 0 | 56 | 0 | 38 | 0 | 7 | 0 | -17 | -2 | -12 | -1 |
| | | | (1%) | (0%) | (-6%) | (0%) | (-6%) | (-0%) | (-13%) | (-2%) | (-2%) | (-0%) | (-4%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (11%) | (-0%) | (7%) | (0%) | (1%) | (0%) | (-3%) | (-0%) | (-2%) | (-0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -20 | 0 | -5 | -1 | -10 | -1 | -9 | 0 | -5 | 0 | -7 | 0 | -20 | -4 | -21 | 0 |
| | | | (-1%) | (0%) | (-6%) | (-0%) | (-6%) | (-0%) | (-7%) | (-0%) | (-1%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-1%) | (-3%) | (-0%) |
| | SJR at Brandt Bridge | ALL | 1 | 0 | -33 | 0 | -47 | 3 | -96 | -17 | -15 | -1 | -28 | -1 | -12 | -6 | -6 | -1 | 54 | 0 | 35 | 12 | 11 | 9 | -15 | -1 | -13 | 0 |
| | | | (0%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-13%) | (-3%) | (-2%) | (-0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (-0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (-0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -52 | 4 | -67 | -3 | -13 | 2 | -20 | -3 | -8 | -12 | -10 | -2 | -8 | 0 | -16 | 43 | -7 | 33 | -18 | -3 | -22 | 5 |
| | | | (-1%) | (-0%) | (-6%) | (0%) | (-6%) | (1%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (7%) | (-1%) | (5%) | (-3%) | (-1%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 6 | 5 | -32 | 1 | -48 | 0 | -87 | -6 | -13 | 1 | -25 | 2 | -3 | 6 | -4 | 2 | 53 | -1 | 39 | 3 | 10 | 1 | -15 | -1 | -10 | 1 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-12%) | (-1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (-0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 10 | 10 | -6 | 3 | -8 | 0 | -4 | 8 | -6 | 2 | -19 | -4 | -18 | 3 |
| | | | (-1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-2%) | (0%) | (2%) | (2%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (-3%) | (-1%) | (-2%) | (0%) |
| | Old River at Tracy Bridge | ALL | 6 | 13 | -22 | 6 | -49 | -1 | -64 | 15 | -9 | 9 | -17 | 11 | 25 | 35 | 3 | 8 | 45 | -3 | 35 | 5 | 1 | 7 | -16 | 5 | -5 | 9 |
| | | | (1%) | (3%) | (-4%) | (1%) | (-6%) | (-0%) | (-8%) | (2%) | (-1%) | (1%) | (-2%) | (2%) | (5%) | (7%) | (1%) | (2%) | (9%) | (-0%) | (6%) | (1%) | (0%) | (1%) | (-3%) | (1%) | (-1%) | (2%) |
| | | DROUGHT | 5 | 12 | -24 | 14 | -54 | 1 | -49 | 16 | -15 | 3 | -1 | 17 | 69 | 69 | 4 | 12 | -18 | 12 | -28 | 5 | -44 | 9 | -27 | 8 | -15 | 15 |
| | | | (1%) | (2%) | (-4%) | (2%) | (-6%) | (0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (11%) | (11%) | (1%) | (2%) | (-3%) | (2%) | (-4%) | (1%) | (-6%) | (1%) | (-4%) | (1%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -44 | 17 | -166 | -40 | -189 | -103 | -82 | -43 | 32 | 46 | 63 | 74 | 67 | 87 | 47 | 56 | 69 | 70 | -9 | 35 | -6 | 56 | 19 | 35 | -17 | 24 |
| | | | (-9%) | (4%) | (-28%) | (-8%) | (-31%) | (-19%) | (-16%) | (-9%) | (8%) | (12%) | (19%) | (23%) | (20%) | (27%) | (15%) | (18%) | (24%) | (24%) | (-2%) | (10%) | (-1%) | (14%) | (4%) | (7%) | (-4%) | (6%) |
| | | DROUGHT | -41 | -14 | -166 | -72 | -224 | -135 | -116 | -40 | 41 | 44 | 109 | 126 | 124 | 145 | 98 | 95 | 107 | 66 | -57 | 6 | -5 | 99 | 79 | 42 | -4 | 30 |
| | | | (-7%) | (-2%) | (-25%) | (-13%) | (-30%) | (-21%) | (-19%) | (-8%) | (10%) | (11%) | (28%) | (34%) | (35%) | (43%) | (32%) | (31%) | (40%) | (21%) | (-10%) | (1%) | (-1%) | (20%) | (13%) | (6%) | (-1%) | (6%) |
| Export Area | Banks PP | ALL | -55 | -14 | -250 | -131 | -255 | -161 | -284 | -233 | -154 | -145 | -140 | -133 | -141 | -132 | -72 | -69 | -82 | -102 | -70 | -50 | -93 | -21 | -152 | -114 | -146 | -109 |
| | | | (-10%) | (-3%) | (-40%) | (-25%) | (-38%) | (-28%) | (-43%) | (-38%) | (-29%) | (-27%) | (-29%) | (-28%) | (-30%) | (-29%) | (-17%) | (-16%) | (-21%) | (-25%) | (-16%) | (-12%) | (-18%) | (-5%) | (-28%) | (-22%) | (-27%) | (-22%) |
| | | DROUGHT | -18 | -3 | -195 | -109 | -328 | -236 | -374 | -310 | -150 | -130 | -252 | -240 | -264 | -255 | -217 | -216 | -32 | -71 | -106 | -68 | -124 | 11 | -18 | 17 | -173 | -134 |
| | | | (-3%) | (-1%) | (-28%) | (-18%) | (-40%) | (-33%) | (-48%) | (-43%) | (-23%) | (-20%) | (-39%) | (-38%) | (-42%) | (-41%) | (-39%) | (-39%) | (-7%) | (-15%) | (-20%) | (-14%) | (-17%) | (2%) | (-3%) | (3%) | (-27%) | (-22%) |
| | Jones PP | ALL | -141 | -116 | -214 | -110 | -177 | -95 | -279 | -220 | -224 | -218 | -224 | -216 | -139 | -134 | -70 | -67 | -47 | -93 | -63 | -68 | -62 | -12 | -99 | -71 | -144 | -117 |
| | | | (-25%) | (-22%) | (-34%) | (-21%) | (-25%) | (-15%) | (-39%) | (-34%) | (-36%) | (-35%) | (-38%) | (-37%) | (-29%) | (-28%) | (-16%) | (-15%) | (-12%) | (-21%) | (-14%) | (-15%) | (-12%) | (-2%) | (-18%) | (-14%) | (-26%) | (-22%) |
| | | DROUGHT | -120 | -130 | -189 | -108 | -197 | -124 | -434 | -353 | -367 | -353 | -309 | -300 | -202 | -206 | -99 | -93 | -7 | -47 | -68 | -36 | -90 | 21 | 30 | 48 | -160 | -129 |
| | | | (-19%) | (-20%) | (-27%) | (-17%) | (-24%) | (-17%) | (-51%) | (-46%) | (-44%) | (-43%) | (-36%) | (-35%) | (-31%) | (-32%) | (-17%) | (-16%) | (-2%) | (-11%) | (-12%) | (-7%) | (-13%) | (4%) | (5%) | (8%) | (-23%) | (-20%) |

| Electrical Conductivity | | | OCT | | NOV | | DEC | | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | Annual Avg. Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alt 4 Scn H4 | Location | Period [a] | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT | Ex. Cond. | No Act. LLT |
| Western Delta | Sac. R. at Emmaton/ Threemile Sl. Nr. Sac. R. | ALL | -1363 | -887 | -1169 | -845 | -506 | -588 | -188 | -254 | -79 | -156 | -9 | -65 | -2 | -59 | -47 | -141 | -116 | -257 | -76 | -124 | -188 | -355 | -929 | -1048 | -389 | -398 |
| | | | (-62%) | (-52%) | (-56%) | (-48%) | (-41%) | (-44%) | (-31%) | (-37%) | (-20%) | (-32%) | (-3%) | (-20%) | (-1%) | (-18%) | (-10%) | (-25%) | (-14%) | (-27%) | (-8%) | (-12%) | (-14%) | (-23%) | (-44%) | (-47%) | (-36%) | (-37%) |
| | | DROUGHT | -1776 | -1249 | -1642 | -1366 | -750 | -941 | -232 | -451 | -67 | -288 | -12 | -77 | -1 | -69 | 48 | -190 | -9 | -403 | 120 | -87 | -256 | -589 | -1211 | -1888 | -482 | -633 |
| | | | (-61%) | (-52%) | (-57%) | (-52%) | (-39%) | (-45%) | (-27%) | (-42%) | (-12%) | (-37%) | (-4%) | (-20%) | (-0%) | (-19%) | (8%) | (-23%) | (-1%) | (-28%) | (9%) | (-6%) | (-15%) | (-28%) | (-41%) | (-52%) | (-33%) | (-40%) |
| | Sac. R. at Emmaton | ALL | -885 | -409 | -632 | -307 | -82 | -164 | -1 | -68 | 42 | -34 | 61 | 5 | 85 | 28 | 173 | 80 | 319 | 178 | 515 | 467 | 615 | 448 | -172 | -292 | 3 | -6 |
| | | | (-41%) | (-24%) | (-30%) | (-17%) | (-7%) | (-12%) | (-0%) | (-10%) | (10%) | (-7%) | (23%) | (2%) | (31%) | (8%) | (36%) | (14%) | (39%) | (19%) | (54%) | (46%) | (46%) | (30%) | (-8%) | (-13%) | (0%) | (-1%) |
| | | DROUGHT | -1099 | -572 | -891 | -614 | -50 | -241 | 99 | -120 | 195 | -26 | 96 | 31 | 118 | 49 | 453 | 215 | 690 | 296 | 1085 | 878 | 734 | 401 | -106 | -783 | 110 | -40 |
| | | | (-38%) | (-24%) | (-31%) | (-23%) | (-3%) | (-11%) | (12%) | (-11%) | (35%) | (-3%) | (30%) | (8%) | (40%) | (14%) | (77%) | (26%) | (67%) | (21%) | (81%) | (57%) | (42%) | (19%) | (-4%) | (-22%) | (8%) | (-3%) |
| | SJR at Jersey Point | ALL | -984 | -295 | -1195 | -552 | -650 | -416 | -247 | -231 | -50 | -87 | 28 | -5 | 41 | 13 | 51 | 4 | 126 | 39 | -315 | -71 | 7 | 176 | -449 | -298 | -303 | -144 |
| | | | (-50%) | (-23%) | (-54%) | (-35%) | (-39%) | (-29%) | (-29%) | (-27%) | (-11%) | (-18%) | (10%) | (-2%) | (15%) | (4%) | (14%) | (1%) | (23%) | (6%) | (-22%) | (-6%) | (0%) | (13%) | (-22%) | (-16%) | (-27%) | (-15%) |
| | | DROUGHT | -970 | -358 | -1244 | -714 | -779 | -441 | -248 | -266 | 5 | -125 | 52 | 12 | 49 | 17 | 142 | 10 | 311 | 50 | -408 | -112 | 49 | 278 | -128 | -481 | -264 | -178 |
| | | | (-42%) | (-21%) | (-48%) | (-35%) | (-35%) | (-24%) | (-23%) | (-24%) | (1%) | (-19%) | (16%) | (3%) | (18%) | (5%) | (35%) | (2%) | (47%) | (5%) | (-19%) | (-6%) | (3%) | (16%) | (-5%) | (-17%) | (-19%) | (-13%) |
| Interior Delta | S. Fork Moke. R. Term. | ALL | 8 | 8 | 9 | 9 | 5 | 6 | 7 | 12 | 7 | 11 | 13 | 15 | 12 | 13 | 9 | 10 | 15 | 16 | 13 | 13 | 10 | 9 | 8 | 7 | 10 | 11 |
| | | | (4%) | (4%) | (5%) | (5%) | (2%) | (3%) | (3%) | (5%) | (3%) | (5%) | (6%) | (7%) | (6%) | (7%) | (5%) | (5%) | (8%) | (9%) | (7%) | (7%) | (6%) | (5%) | (4%) | (4%) | (5%) | (5%) |
| | | DROUGHT | 7 | 7 | 8 | 8 | 5 | 6 | 3 | 7 | -1 | 4 | 9 | 14 | 7 | 10 | 9 | 11 | 20 | 21 | 16 | 16 | 10 | 9 | 7 | 8 | 8 | 10 |
| | | | (4%) | (4%) | (4%) | (4%) | (3%) | (3%) | (1%) | (3%) | (-0%) | (2%) | (4%) | (6%) | (3%) | (5%) | (5%) | (6%) | (10%) | (11%) | (8%) | (8%) | (5%) | (5%) | (4%) | (4%) | (4%) | (5%) |
| | SJR at San And. Landing | ALL | -42 | 26 | -163 | -44 | -121 | -69 | -45 | -28 | 10 | 2 | 25 | 18 | 31 | 27 | 35 | 25 | 75 | 55 | 37 | 63 | 99 | 128 | 89 | 59 | 3 | 22 |
| | | | (-8%) | (6%) | (-26%) | (-9%) | (-20%) | (-13%) | (-10%) | (-7%) | (4%) | (1%) | (11%) | (7%) | (13%) | (11%) | (14%) | (10%) | (30%) | (20%) | (9%) | (18%) | (23%) | (32%) | (17%) | (11%) | (1%) | (6%) |
| | | DROUGHT | -25 | 1 | -148 | -71 | -122 | -76 | -38 | 4 | 44 | 6 | 36 | 28 | 41 | 39 | 65 | 41 | 137 | 74 | 67 | 112 | 159 | 202 | 199 | 69 | 35 | 36 |
| | | | (-4%) | (0%) | (-21%) | (-11%) | (-17%) | (-11%) | (-7%) | (1%) | (13%) | (2%) | (15%) | (11%) | (17%) | (16%) | (26%) | (15%) | (54%) | (23%) | (13%) | (23%) | (29%) | (40%) | (31%) | (9%) | (7%) | (8%) |
| Southern Delta | SJR at Vernalis | ALL | 3 | 0 | -35 | 0 | -48 | 0 | -96 | -13 | -11 | -1 | -28 | 0 | -11 | 0 | -6 | 0 | 56 | 0 | 38 | 0 | 7 | 0 | -17 | -2 | -12 | -1 |
| | | | (1%) | (0%) | (-6%) | (0%) | (-6%) | (-0%) | (-13%) | (-2%) | (-2%) | (-0%) | (-4%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (11%) | (-0%) | (7%) | (0%) | (1%) | (0%) | (-3%) | (-0%) | (-2%) | (-0%) |
| | | DROUGHT | -6 | 0 | -41 | 0 | -53 | 0 | -66 | 0 | -9 | 0 | -20 | 0 | -5 | -1 | -10 | -1 | -9 | 0 | -5 | 0 | -7 | 0 | -20 | -4 | -21 | 0 |
| | | | (-1%) | (0%) | (-6%) | (-0%) | (-6%) | (-0%) | (-7%) | (-0%) | (-1%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (-0%) | (-1%) | (-0%) | (-1%) | (0%) | (-1%) | (0%) | (-3%) | (-1%) | (-3%) | (-0%) |
| | SJR at Brandt Bridge | ALL | 1 | 0 | -33 | 0 | -47 | 3 | -96 | -17 | -15 | -1 | -28 | -1 | -12 | -6 | -6 | -1 | 54 | 0 | 35 | 12 | 11 | 9 | -15 | -1 | -13 | 0 |
| | | | (0%) | (-0%) | (-6%) | (0%) | (-6%) | (0%) | (-13%) | (-3%) | (-2%) | (-0%) | (-4%) | (-0%) | (-3%) | (-1%) | (-1%) | (-0%) | (10%) | (-0%) | (6%) | (2%) | (2%) | (2%) | (-3%) | (-0%) | (-2%) | (-0%) |
| | | DROUGHT | -7 | 0 | -39 | 0 | -52 | 4 | -67 | -3 | -13 | 2 | -20 | -3 | -8 | -12 | -10 | -2 | -8 | 0 | -16 | 43 | -7 | 33 | -18 | -3 | -22 | 5 |
| | | | (-1%) | (-0%) | (-6%) | (0%) | (-6%) | (1%) | (-7%) | (-0%) | (-1%) | (0%) | (-2%) | (-0%) | (-1%) | (-2%) | (-2%) | (-0%) | (-1%) | (-0%) | (-2%) | (7%) | (-1%) | (5%) | (-3%) | (-1%) | (-3%) | (1%) |
| | Old River at Middle River | ALL | 6 | 5 | -32 | 1 | -48 | 0 | -87 | -6 | -13 | 1 | -25 | 2 | -3 | 6 | -4 | 2 | 53 | -1 | 39 | 3 | 10 | 1 | -15 | -1 | -10 | 1 |
| | | | (1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-12%) | (-1%) | (-2%) | (0%) | (-4%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (10%) | (-0%) | (7%) | (0%) | (2%) | (0%) | (-3%) | (-0%) | (-2%) | (0%) |
| | | DROUGHT | -3 | 4 | -38 | 1 | -54 | 0 | -58 | 7 | -11 | 2 | -14 | 4 | 10 | 10 | -6 | 3 | -8 | 0 | -4 | 8 | -6 | 2 | -19 | -4 | -18 | 3 |
| | | | (-1%) | (1%) | (-6%) | (0%) | (-6%) | (0%) | (-6%) | (1%) | (-1%) | (0%) | (-2%) | (0%) | (2%) | (2%) | (-1%) | (0%) | (-1%) | (0%) | (-1%) | (1%) | (-1%) | (0%) | (-3%) | (-1%) | (-2%) | (0%) |
| | Old River at Tracy Bridge | ALL | 6 | 13 | -22 | 6 | -49 | -1 | -64 | 15 | -9 | 9 | -17 | 11 | 25 | 35 | 3 | 8 | 45 | -3 | 35 | 5 | 1 | 7 | -16 | 5 | -5 | 9 |
| | | | (1%) | (3%) | (-4%) | (1%) | (-6%) | (-0%) | (-8%) | (2%) | (-1%) | (1%) | (-2%) | (2%) | (5%) | (7%) | (1%) | (2%) | (9%) | (-0%) | (6%) | (1%) | (0%) | (1%) | (-3%) | (1%) | (-1%) | (2%) |
| | | DROUGHT | 5 | 12 | -24 | 14 | -54 | 1 | -49 | 16 | -15 | 3 | -1 | 17 | 69 | 69 | 4 | 12 | -18 | 12 | -28 | 5 | -44 | 9 | -27 | 8 | -15 | 15 |
| | | | (1%) | (2%) | (-4%) | (2%) | (-6%) | (0%) | (-5%) | (2%) | (-2%) | (0%) | (-0%) | (2%) | (11%) | (11%) | (1%) | (2%) | (-3%) | (2%) | (-4%) | (1%) | (-6%) | (1%) | (-4%) | (1%) | (-2%) | (2%) |
| SJR | SJR at Prisoners Point | ALL | -44 | 17 | -166 | -40 | -189 | -103 | -82 | -43 | 32 | 46 | 63 | 74 | 67 | 87 | 47 | 56 | 69 | 70 | -9 | 35 | -6 | 56 | 19 | 35 | -17 | 24 |
| | | | (-9%) | (4%) | (-28%) | (-8%) | (-31%) | (-19%) | (-16%) | (-9%) | (8%) | (12%) | (19%) | (23%) | (20%) | (27%) | (15%) | (18%) | (24%) | (24%) | (-2%) | (10%) | (-1%) | (14%) | (4%) | (7%) | (-4%) | (6%) |
| | | DROUGHT | -41 | -14 | -166 | -72 | -224 | -135 | -116 | -40 | 41 | 44 | 109 | 126 | 124 | 145 | 98 | 95 | 107 | 66 | -57 | 6 | -5 | 99 | 79 | 42 | -4 | 30 |
| | | | (-7%) | (-2%) | (-25%) | (-13%) | (-30%) | (-21%) | (-19%) | (-8%) | (10%) | (11%) | (28%) | (34%) | (35%) | (43%) | (32%) | (31%) | (40%) | (21%) | (-10%) | (1%) | (-1%) | (20%) | (13%) | (6%) | (-1%) | (6%) |
| Export Area | Banks PP | ALL | -55 | -14 | -250 | -131 | -255 | -161 | -284 | -233 | -154 | -145 | -140 | -133 | -141 | -132 | -72 | -69 | -82 | -102 | -70 | -50 | -93 | -21 | -152 | -114 | -146 | -109 |
| | | | (-10%) | (-3%) | (-40%) | (-25%) | (-38%) | (-28%) | (-43%) | (-38%) | (-29%) | (-27%) | (-29%) | (-28%) | (-30%) | (-29%) | (-17%) | (-16%) | (-21%) | (-25%) | (-16%) | (-12%) | (-18%) | (-5%) | (-28%) | (-22%) | (-27%) | (-22%) |
| | | DROUGHT | -18 | -3 | -195 | -109 | -328 | -236 | -374 | -310 | -150 | -130 | -252 | -240 | -264 | -255 | -217 | -216 | -32 | -71 | -106 | -68 | -124 | 11 | -18 | 17 | -173 | -134 |
| | | | (-3%) | (-1%) | (-28%) | (-18%) | (-40%) | (-33%) | (-48%) | (-43%) | (-23%) | (-20%) | (-39%) | (-38%) | (-42%) | (-41%) | (-39%) | (-39%) | (-7%) | (-15%) | (-20%) | (-14%) | (-17%) | (2%) | (-3%) | (3%) | (-27%) | (-22%) |
| | Jones PP | ALL | -141 | -116 | -214 | -110 | -177 | -95 | -279 | -220 | -224 | -218 | -224 | -216 | -139 | -134 | -70 | -67 | -47 | -93 | -63 | -68 | -62 | -12 | -99 | -71 | -144 | -117 |
| | | | (-25%) | (-22%) | (-34%) | (-21%) | (-25%) | (-15%) | (-39%) | (-34%) | (-36%) | (-35%) | (-38%) | (-37%) | (-29%) | (-28%) | (-16%) | (-15%) | (-12%) | (-21%) | (-14%) | (-15%) | (-12%) | (-2%) | (-18%) | (-14%) | (-26%) | (-22%) |
| | | DROUGHT | -120 | -130 | -189 | -108 | -197 | -124 | -434 | -353 | -367 | -353 | -309 | -300 | -202 | -206 | -99 | -93 | -7 | -47 | -68 | -36 | -90 | 21 | 30 | 48 | -160 | -129 |
| | | | (-19%) | (-20%) | (-27%) | (-17%) | (-24%) | (-17%) | (-51%) | (-46%) | (-44%) | (-43%) | (-36%) | (-35%) | (-31%) | (-32%) | (-17%) | (-16%) | (-2%) | (-11%) | (-12%) | (-7%) | (-13%) | (4%) | (5%) | (8%) | (-23%) | (-20%) |

[a] ALL: Water years 1976-1991 represent the 16-year period modeled using DSM2. DROUGHT: Represents a 5 consecutive year (water years 1987-1991) drought period consisting of dry and critical water year types (as defined by the Sacramento Valley 40-30-30 water year hydrologic classification index).