

Cumulative with Climate Change Model Results

Appendix 4H

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The appendix is presented in its entirety from the Draft Environmental Impact Report (DEIR), with revisions to text presented as a strikethrough or underline. Text shown with a strikethrough has been deleted from the DEIR. Text that has been added is presented as single underlined. Deleted figures are shown with a dashed border. Added figures do not have unique formatting.

4H.1 Introduction

The results of model simulations are provided for informational purposes. Please do not use any information contained in these products for any purpose other than this ~~EIR~~ environmental impact report process. If there are any questions regarding the results of these model simulations, please contact DWR.

Any use of results of model simulations should observe limitations of the models used as well as the limitations to the modeled alternatives. These results should only be used for comparative purposes. More information regarding limitations of the models used as well as the limitations to the modeled alternatives is included Appendix 4A, Attachment 8, “Model Limitations.”

~~For a description of why Alternative 1 is used in this appendix rather than the Proposed Project, please refer to Appendix 4J.~~

4H.2 Modeled Alternatives

The following alternatives were prepared:

- Baseline Conditions – 2022 Hydrology and 15 centimeters (cm) Sea Level Rise (Study 3)
- ~~Alternative 1~~ Proposed Project plus CVP Proposed Action, Sacramento and Feather River VAs – 2022 Hydrology and 15 cm Sea Level Rise (Study 11c)
- ~~Alternative 1~~ Proposed Project plus Cumulative Projects – 2022 Hydrology and 15 cm Sea Level Rise (Study 12b)

CalSim 3 model simulations were prepared for each alternative. Documentation of assumptions for each alternative listed above are provided for the non-climate equivalent scenarios (Baseline Conditions; ~~Alternative 1~~ Proposed Project plus CVP Proposed Action, Sacramento and Feather River VAs; and ~~Alternative 1~~ Proposed Project plus Cumulative Projects) described in Appendices 4A, 4F, and 4G, respectively. Climate change and sea level rise-specific assumptions are provided in Appendix 4D.

4H.3 Model Results

Location-specific results for the alternatives and models listed above are included in the following attachments. The attachments labeled (DEIR) are presented in their entirety from the DEIR with the addition of an “a” in the attachment number. The (FEIR) attachments present new results of modeling for the FEIR and are indicated by “b” in the attachment number. Both sets of attachments are presented without strikethrough and underline for clarity and readability.

- Attachment 1 a, “CalSim 3 Storage and Elevation Results (DEIR)”
- Attachment 1b, “CalSim 3 Storage and Elevation Results (FEIR)”
- Attachment 2 a, “CalSim 3 Flow Results (DEIR)”
- Attachment 2b, “CalSim 3 Flow Results (FEIR)”
- Attachment 3 a, “CalSim 3 Diversion Results (DEIR)”
- Attachment 3b, “CalSim 3 Diversion Results (FEIR)”
- Attachment 4 a, “CalSim 3 X2 Results (DEIR)”
- Attachment 4b, “CalSim 3 X2 Results (FEIR)”