Appendix B

System Response Surfaces and CDFs for All PAs and Points of Hydrologic Interest

Contents

Figures

B.1. System Response Surfaces and CDFs

B.1.1 Metric 1 – Surface Water

Figures B-1 through B-6 present the response surfaces and cumulative distribution functions (CDFs) for end-of-year storage in key reservoirs for the Sacramento River, San Joaquin River, and Tulare Lake hydrologic regions.

Figure B-1 Sacramento River Hydrologic Region Response Surface for Surface Water (End-of-Year Reservoir Storage)

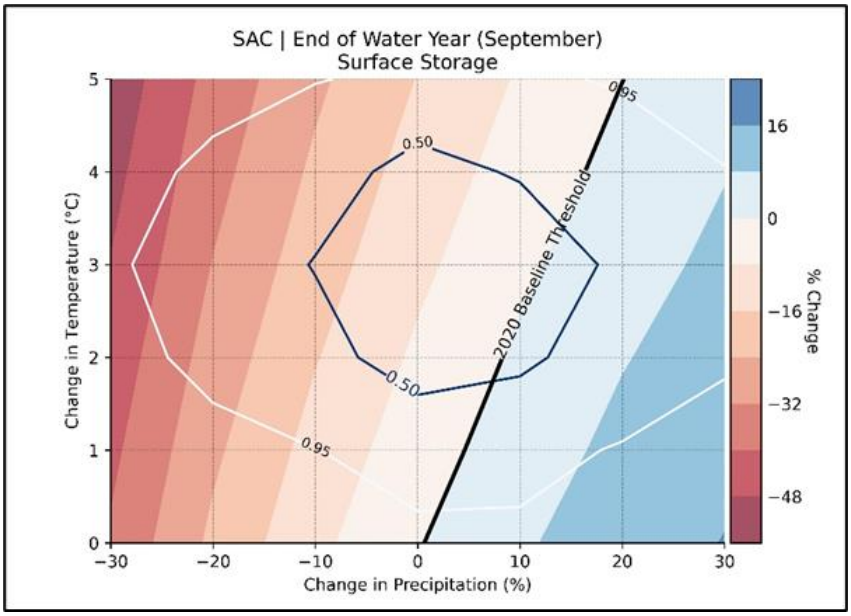


Figure B-2 Sacramento River Hydrologic Region CDF for Surface Water (End-of-Year Reservoir Storage)

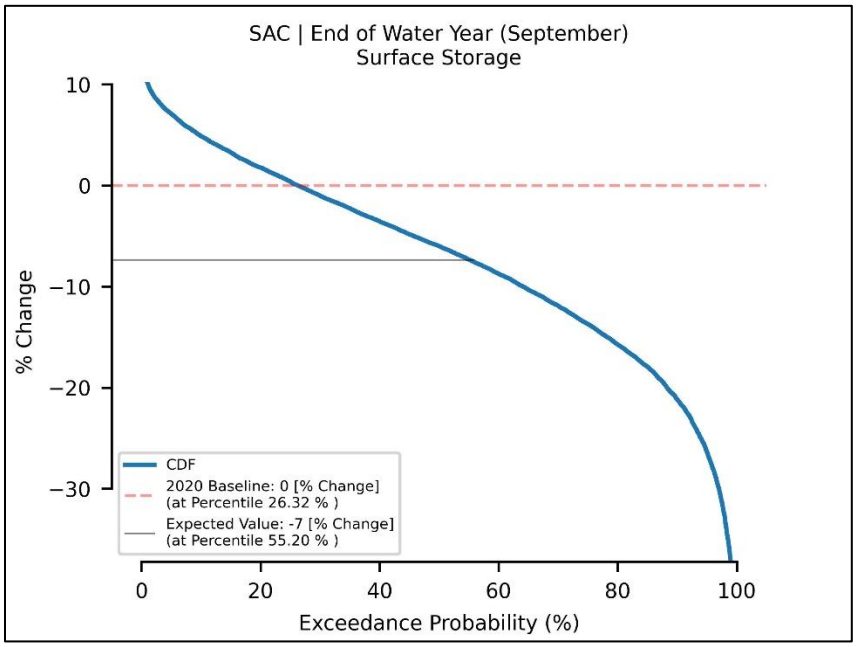


Figure B-3 San Joaquin River Hydrologic Region Response Surface for Surface Water (End-of-Year Reservoir Storage)

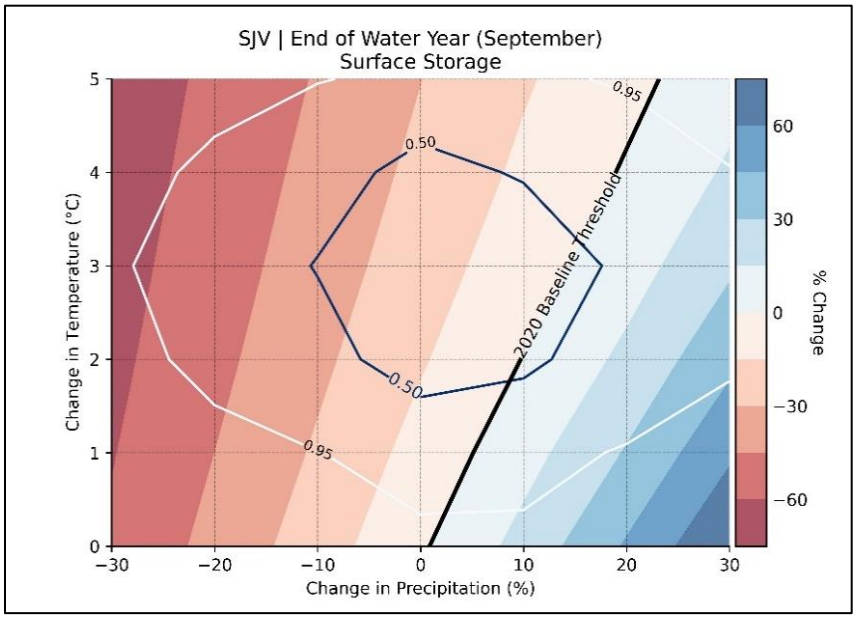


Figure B-4 San Joaquin River Hydrologic Region CDF for Surface Water (End-of-Year Reservoir Storage)

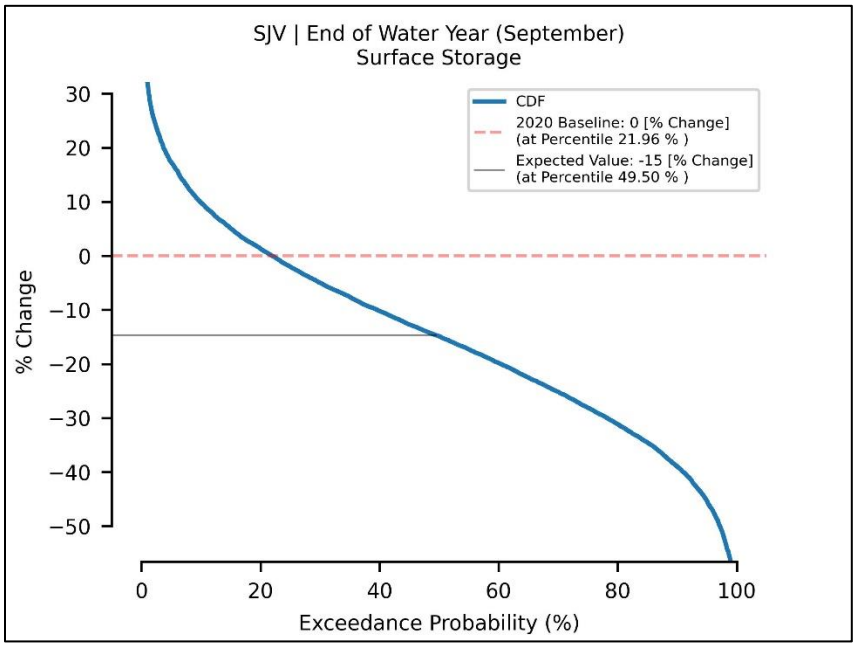


Figure B-5 Tulare Lake Hydrologic Region Response Surface for Surface Water (End-of-Year Reservoir Storage)

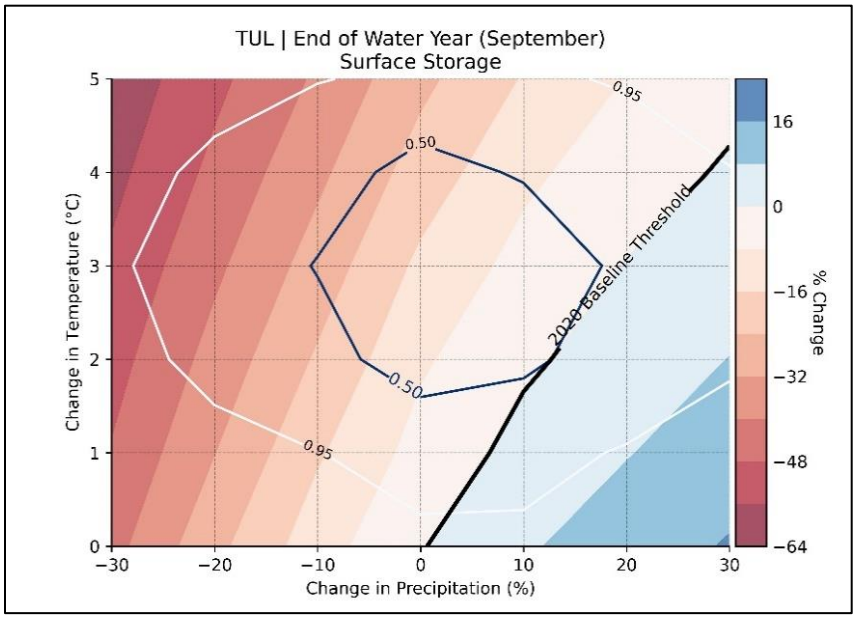
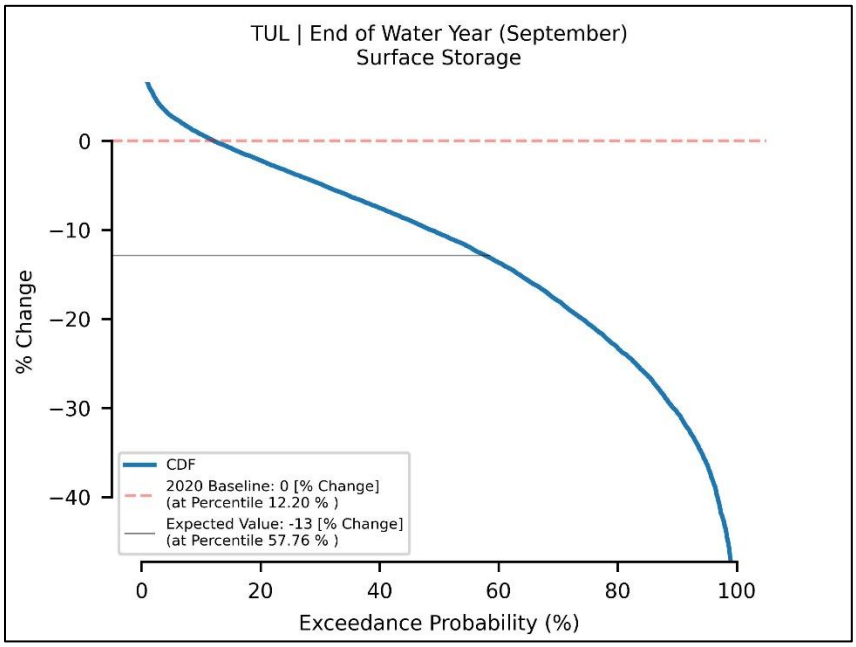


Figure B-6 Tulare Lake Hydrologic Region CDF for Surface Water (End-of-Year Reservoir Storage)



B.1.2 Metric 2 – Groundwater

Figures B-7 through B-12 present the response surfaces and CDFs of groundwater dependency for the Sacramento River, San Joaquin River, and Tulare Lake hydrologic regions.

Figure B-7 Sacramento River Hydrologic Region Response Surface for Groundwater

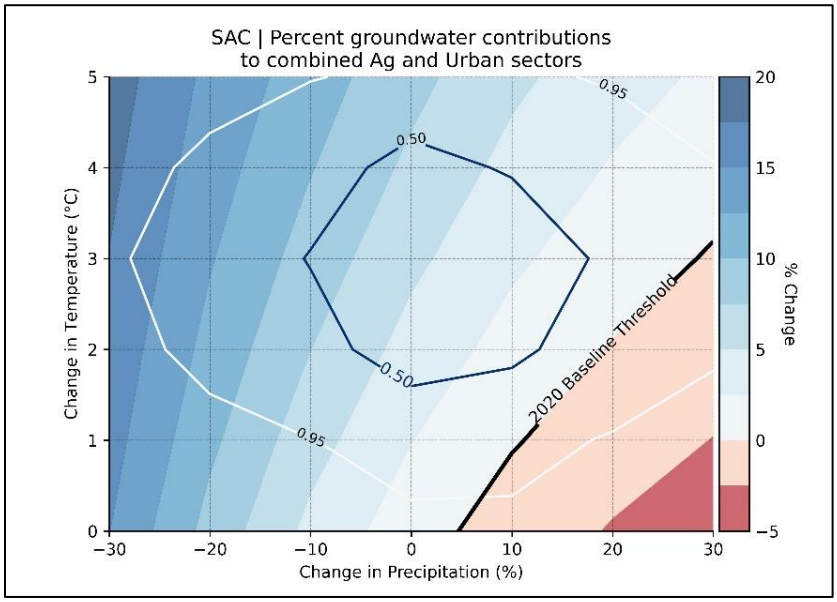


Figure B-8 Sacramento River Hydrologic Region CDF for Grou6ater

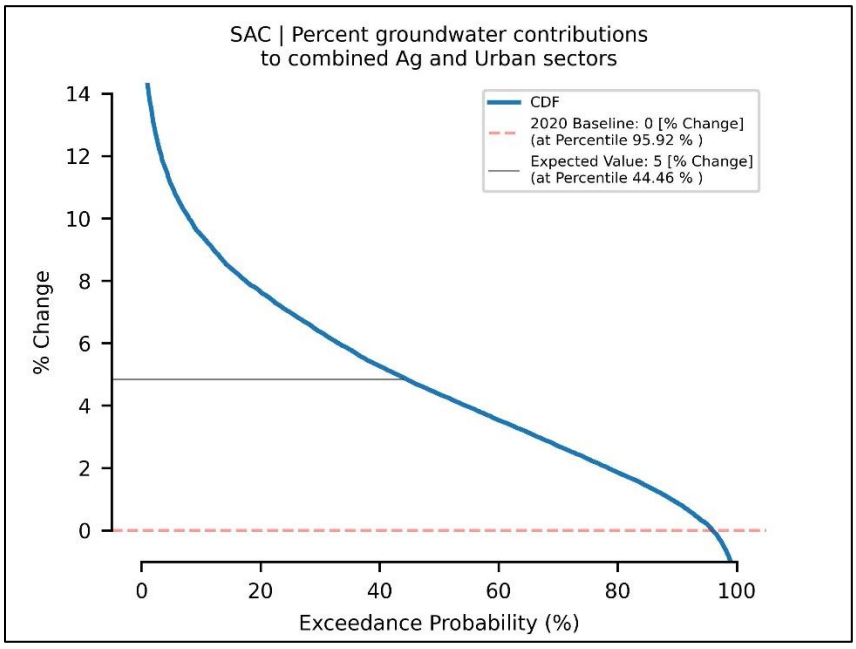


Figure B-9 San Joaquin River Hydrologic Region Response Surface for Groundwater

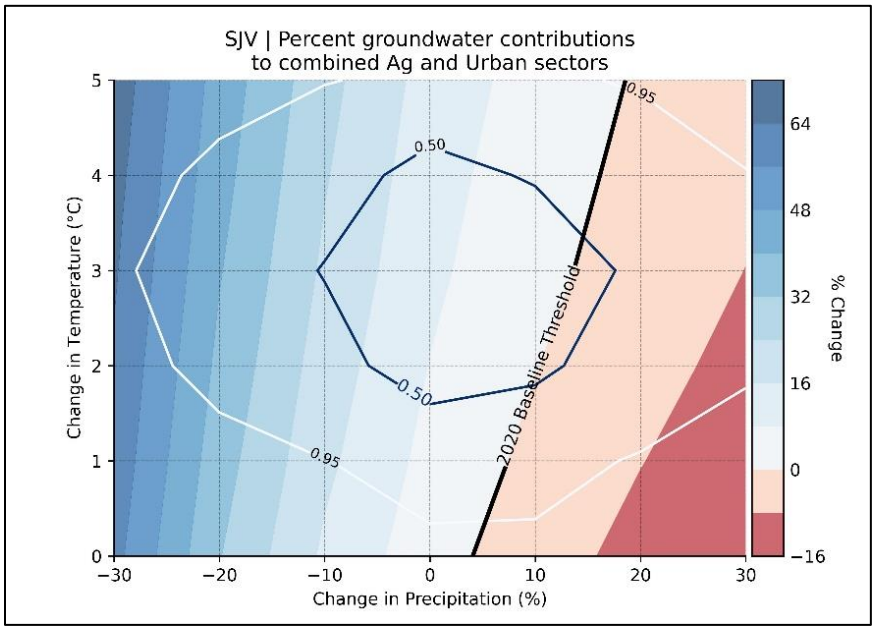


Figure B-10 San Joaquin River Hydrologic Region CDF for Groundwater

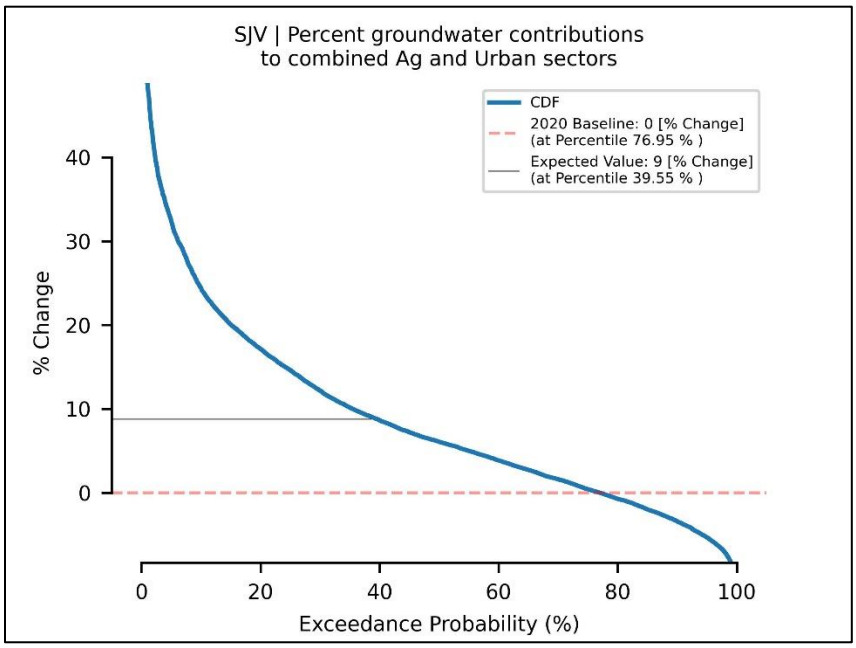


Figure B-11 Tulare Lake Hydrologic Region Response Surface for Groundwater

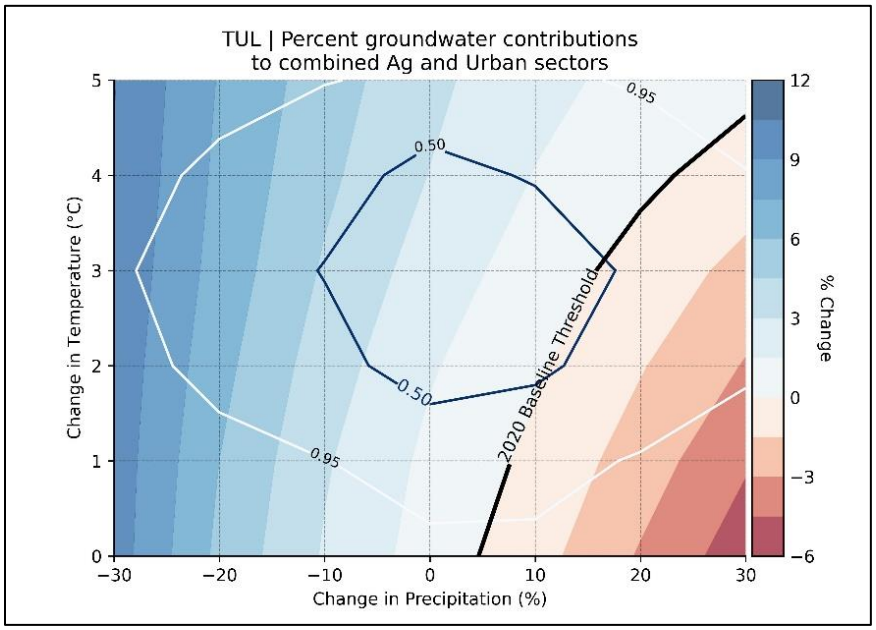
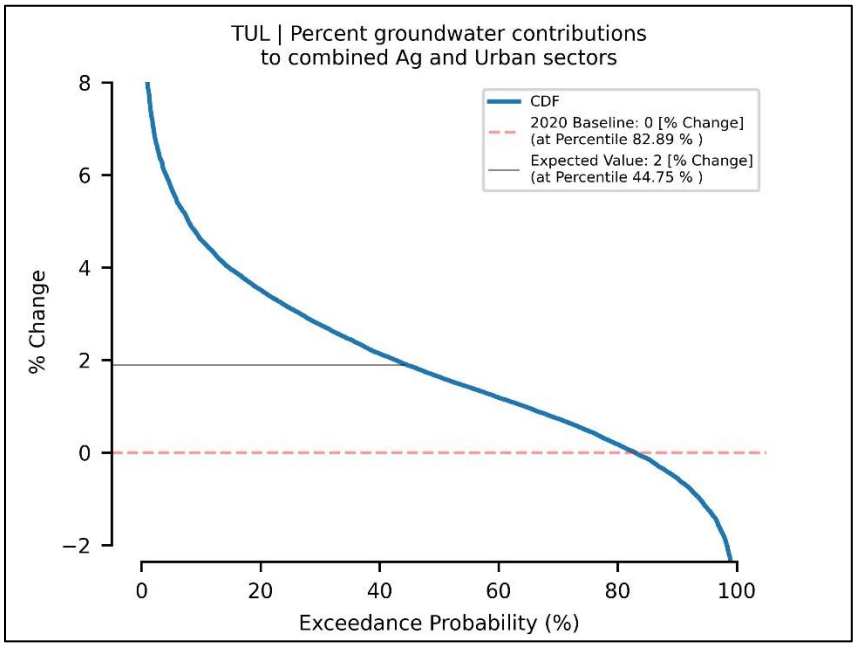


Figure B-12 Tulare Lake Hydrologic Region CDF for Groundwater



B.1.3 Metric 3 – Urban Water Supply

Figures B-13 through B-18 present the response surfaces and CDFs for the percent of urban demand met for the Sacramento River, San Joaquin River, and Tulare Lake hydrologic regions.

Figure B-13 Sacramento River Hydrologic Region Response Surface for Urban Water Supply (Percent of Urban Demand Met)

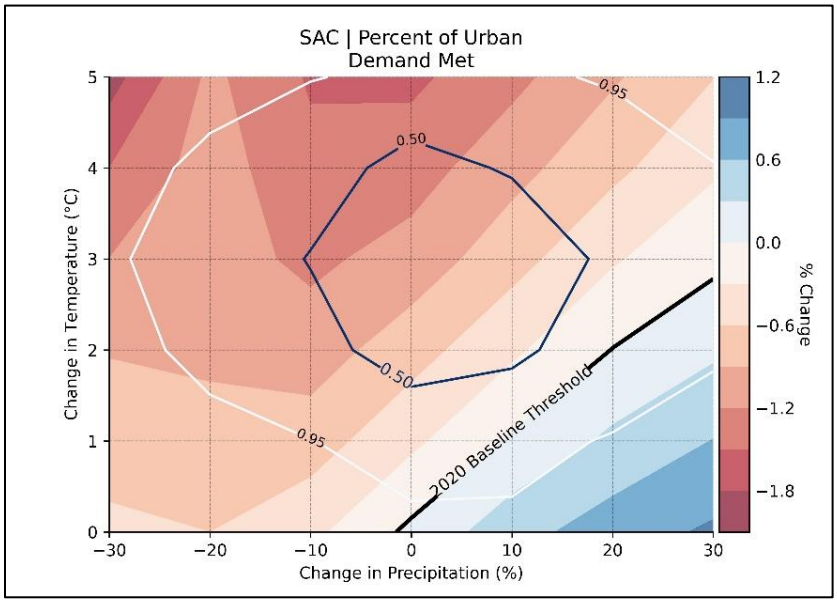


Figure B-14 Sacramento River Hydrologic Region CDF for Urban Water Supply (Percent of Urban Demand Met)

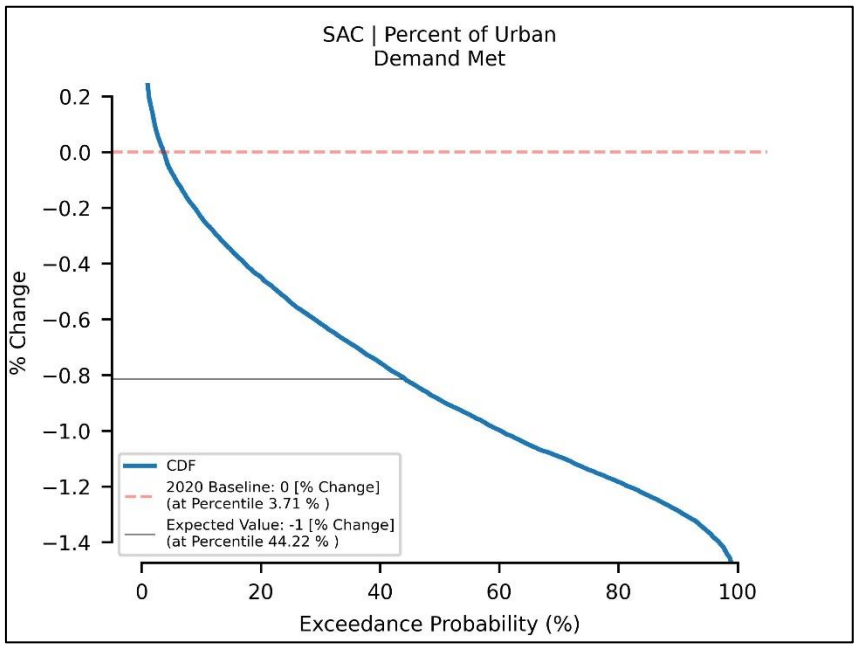


Figure B-15 San Joaquin River Hydrologic Region Response Surface for Urban Water Supply (Percent of Urban Demand Met)

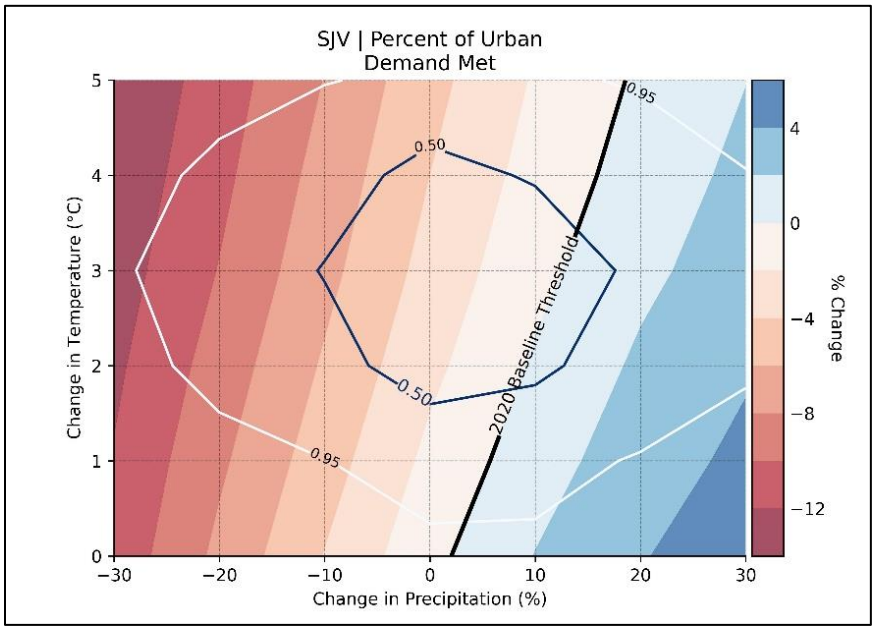


Figure B-16 San Joaquin River Hydrologic Region CDF for Urban Water Supply (Percent of Urban Demand Met)

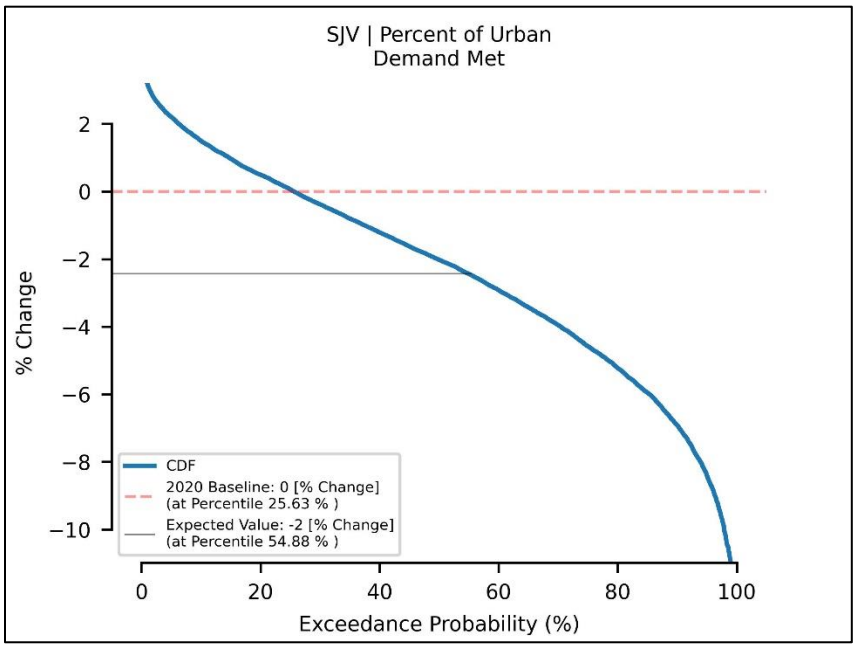


Figure B-17 Tulare Lake Hydrologic Region Response Surface for Urban Water Supply (Percent of Urban Demand Met)

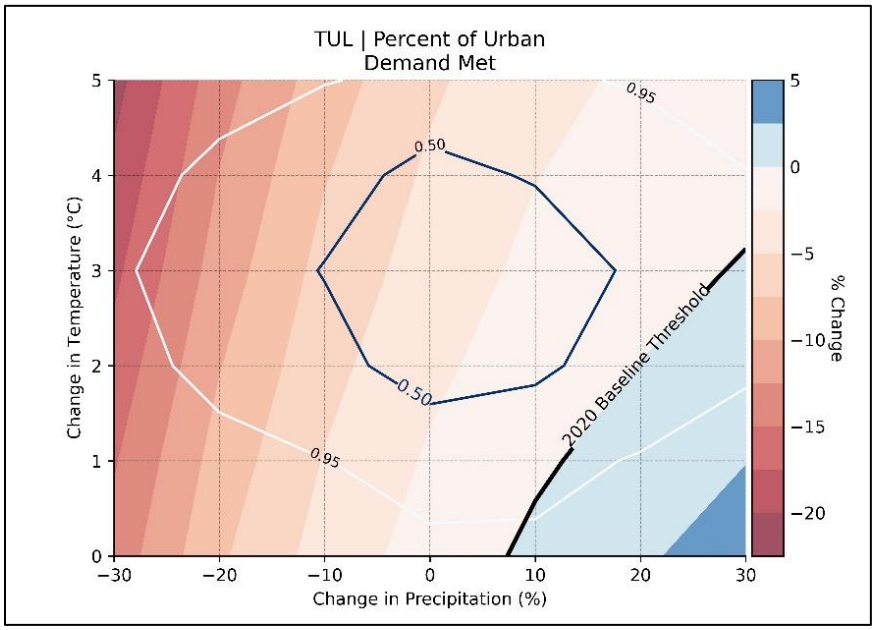
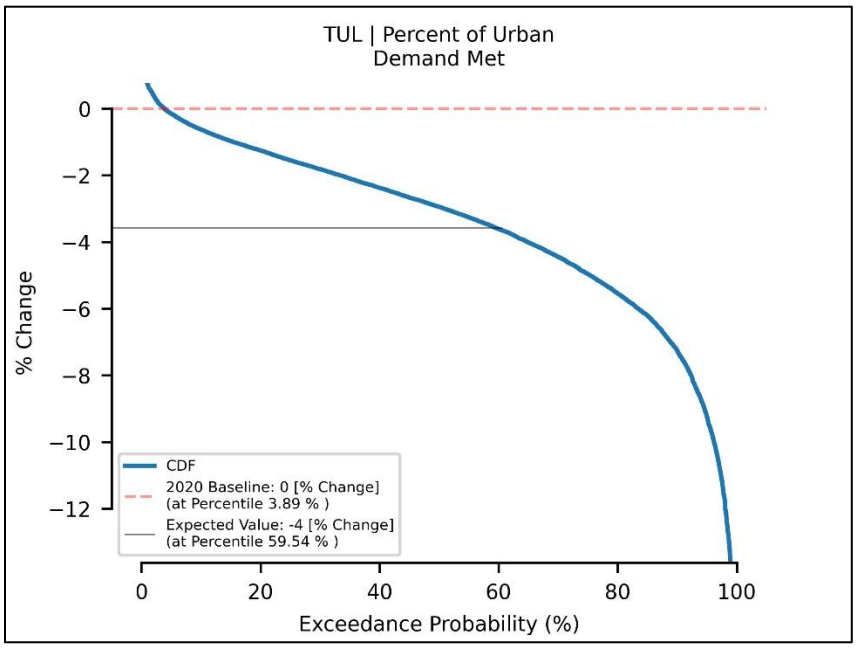


Figure B-18 Tulare Lake Hydrologic Region CDF for Urban Water Supply (Percent of Urban Demand Met)



B.1.4 Metric 4 – Agricultural Water Supply

Figures B-19 through B-24 present the response surfaces and CDFs for the percent of agricultural demand met for the Sacramento River, San Joaquin River, and Tulare Lake hydrologic regions.

Figure B-19 Sacramento River Hydrologic Region Response Surface for Agricultural Water Supply (Percent of Agricultural Demand Met)

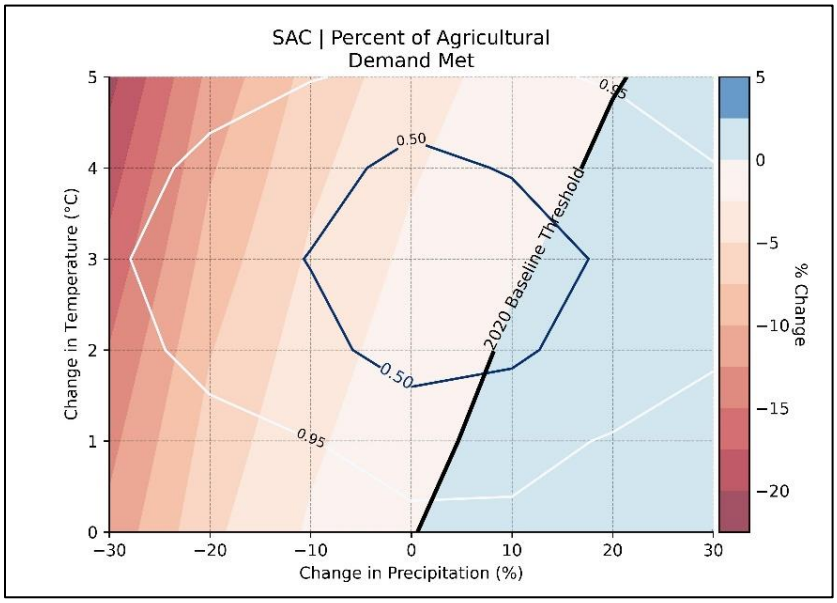


Figure B-20 Sacramento River Hydrologic Region CDF for Agricultural Water Supply (Percent of Agricultural Demand Met)

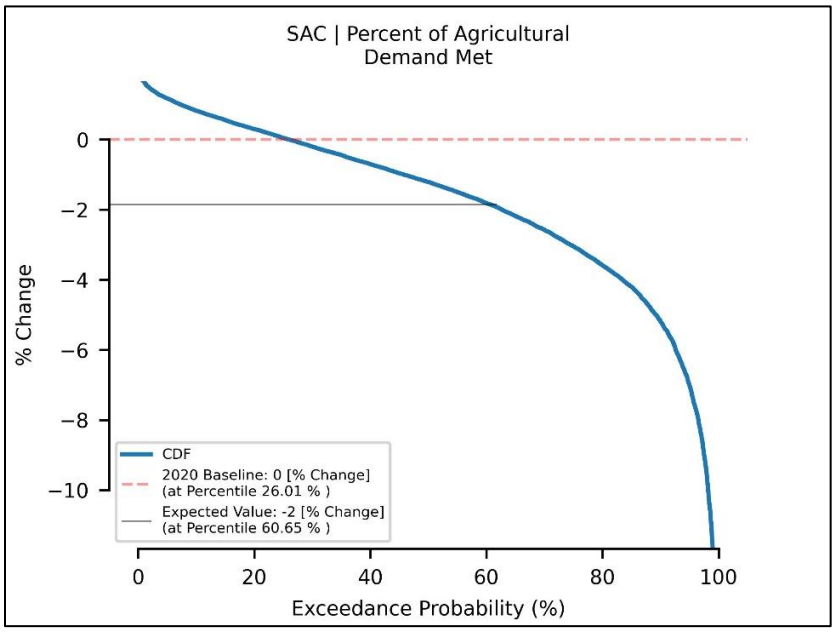


Figure B-21 San Joaquin River Hydrologic Region Response Surface for Agricultural Water Supply (Percent of Agricultural Demand Met)

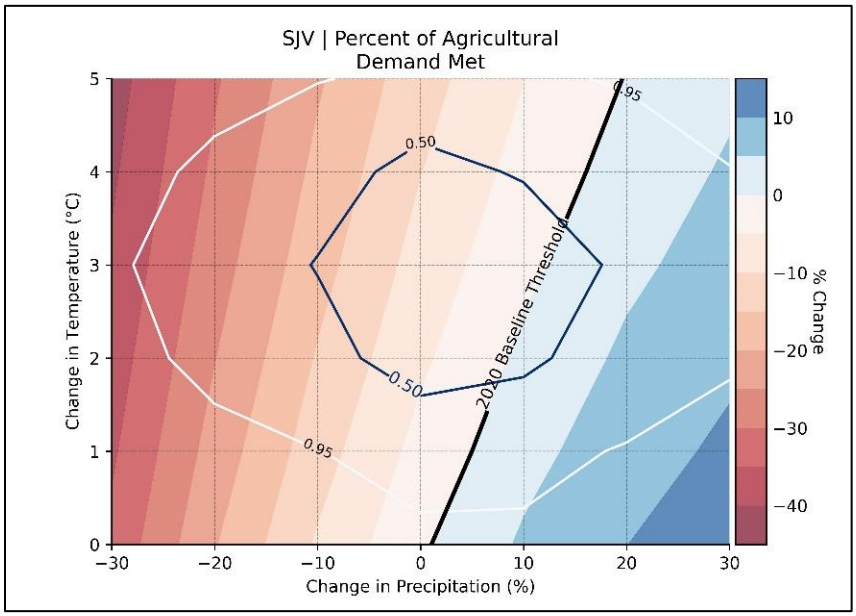


Figure B-22 San Joaquin River Hydrologic Region CDF for Agricultural Water Supply (Percent of Agricultural Demand Met)

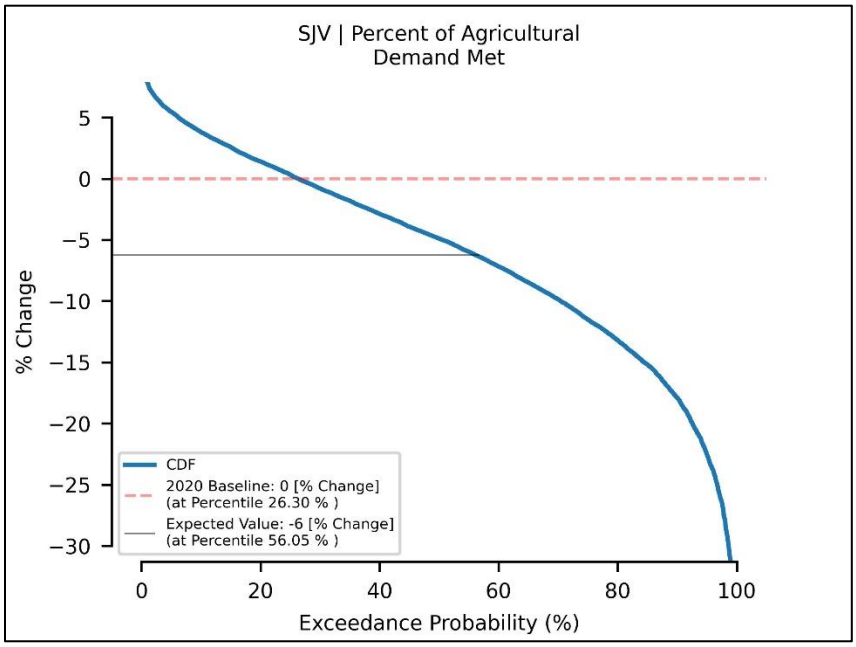


Figure B-23 Tulare Lake Hydrologic Region Response Surface for Agricultural Water Supply (Percent of Agricultural Demand Met)

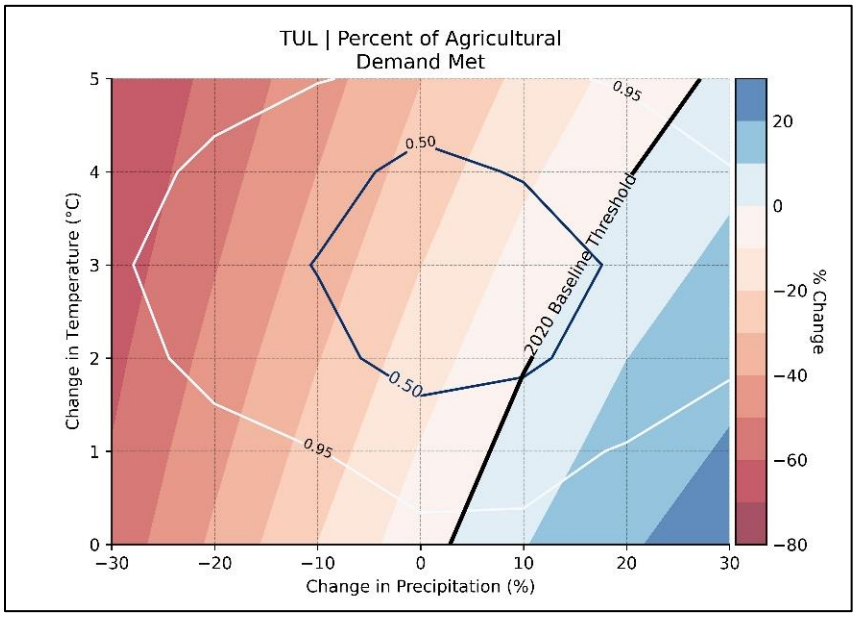
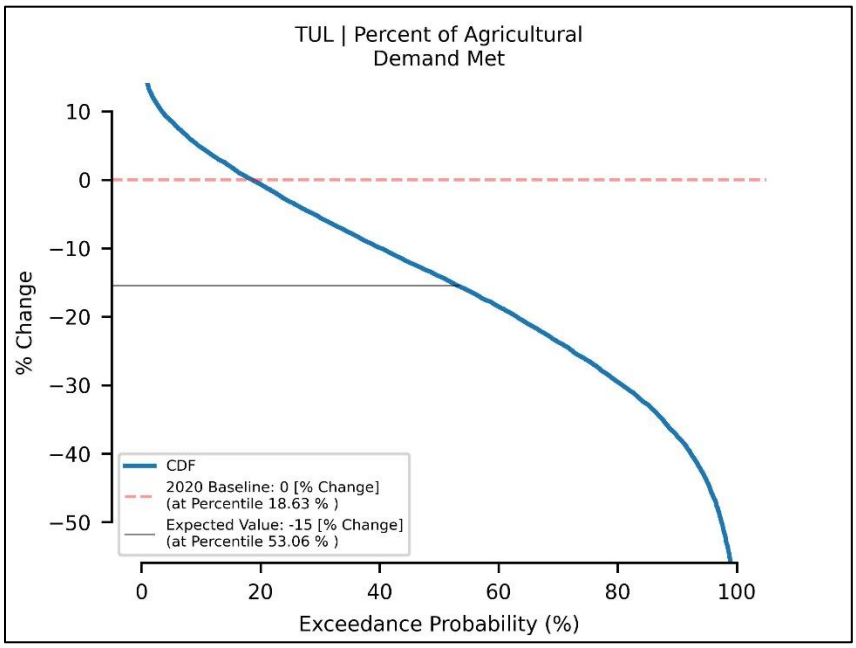


Figure B-24 Tulare Lake Hydrologic Region CDF for Agricultural Water Supply (Percent of Agricultural Demand Met)



B.1.5 Metric 5 – Environmental Water

Figures B-25 through B-28 present the response surfaces and CDFs for frequency of meeting IFRs for the Sacramento River, San Joaquin River, and Tulare Lake hydrologic regions.

Figure B-25 Sacramento River Hydrologic Region Response Surface for Environmental Water (Frequency of Meeting Instream Flow Requirements)

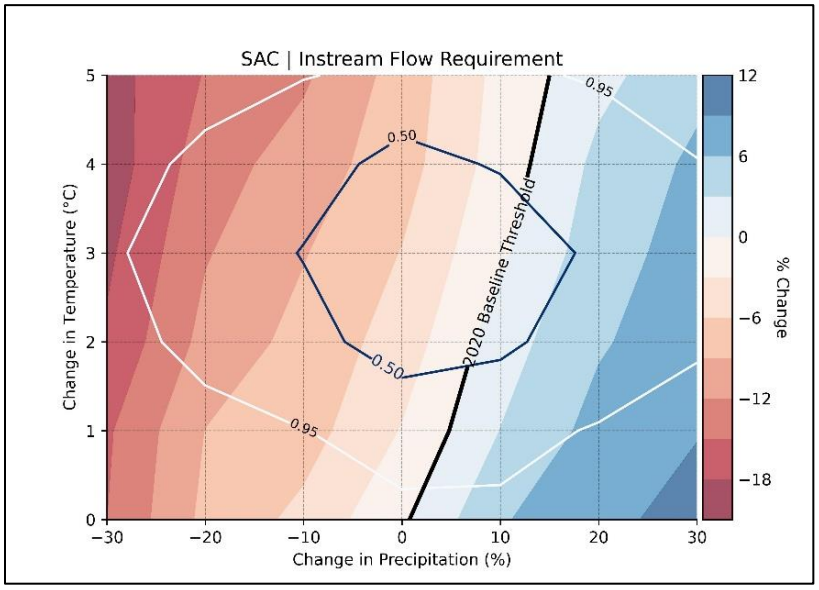


Figure B-26 Sacramento River Hydrologic Region CDF for Environmental Water (Frequency of Meeting Instream Flow Requirements)

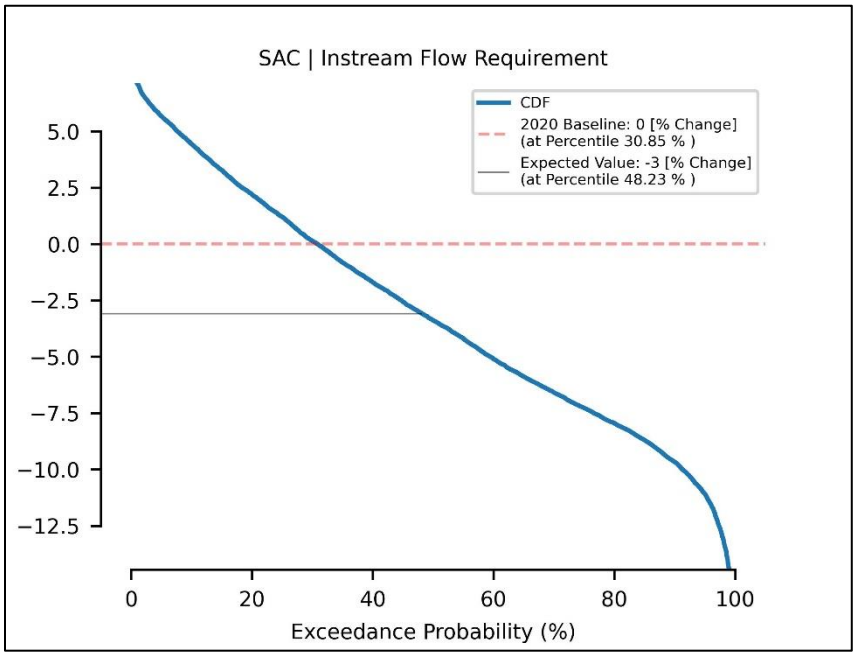


Figure B-27 San Joaquin River Hydrologic Region Response Surface for Environmental Water (Frequency of Meeting Instream Flow Requirements)

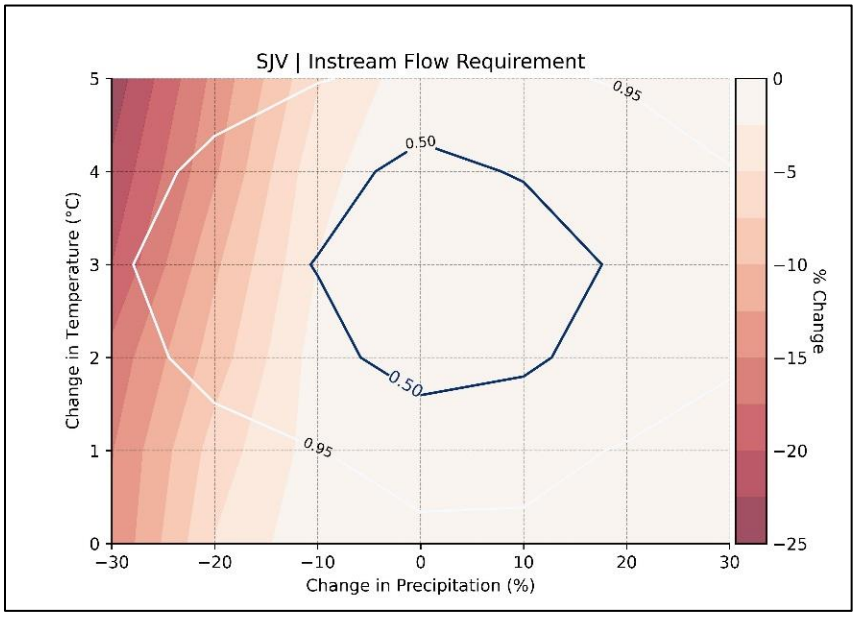
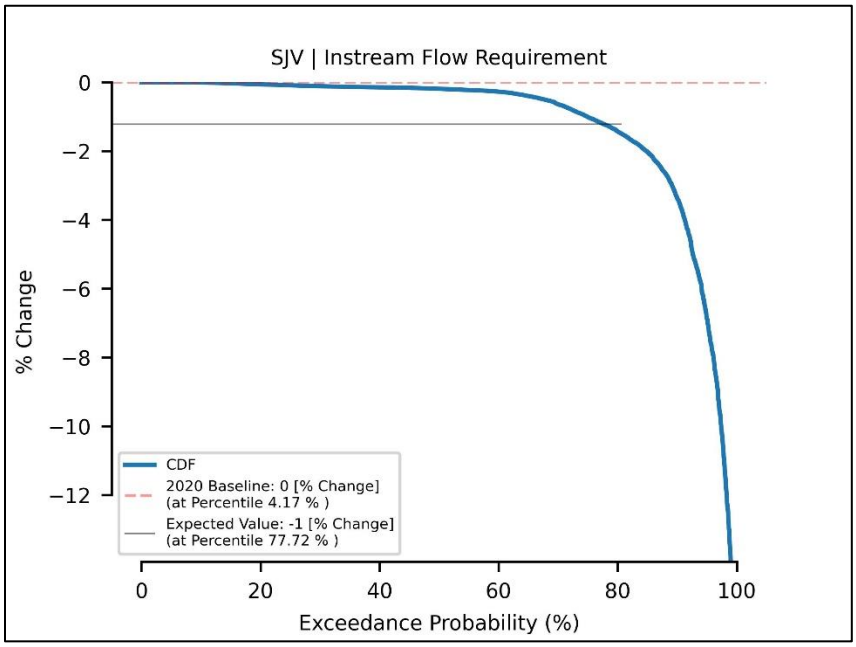


Figure B-28 San Joaquin River Hydrologic Region CDF for Environmental Water (Frequency of Meeting Instream Flow Requirements)



B.1.6 Metric 6 – Flood Risk

Figures B-30 through B-35 present the response surfaces and CDFs for potential flood risks (90th percentile flow) for the Sacramento River, San Joaquin River, and Tulare Lake hydrologic regions.

Figure B-30 Sacramento River Hydrologic Region Response Surface for Flood Risk (90th Percentile Flow)

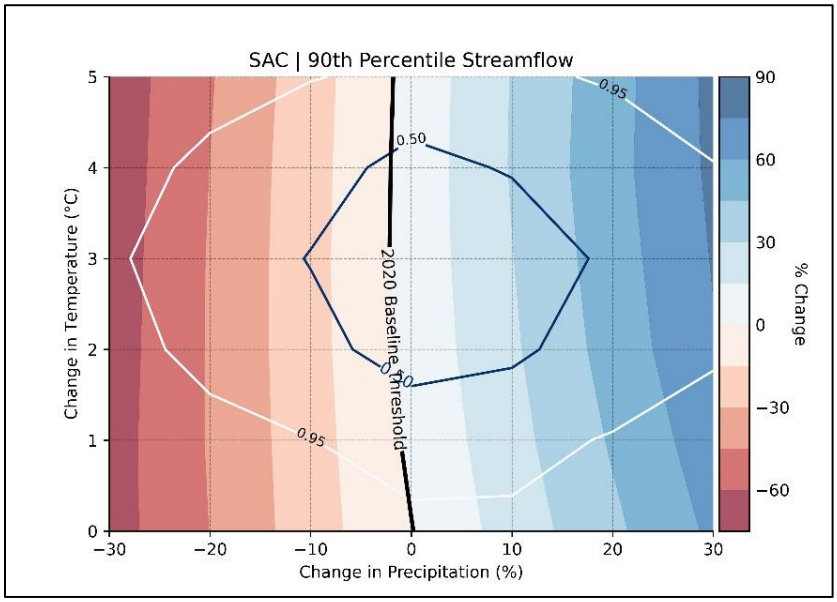


Figure B-31 Sacramento River Hydrologic Region CDF for Flood Risk (90th Percentile Flow)

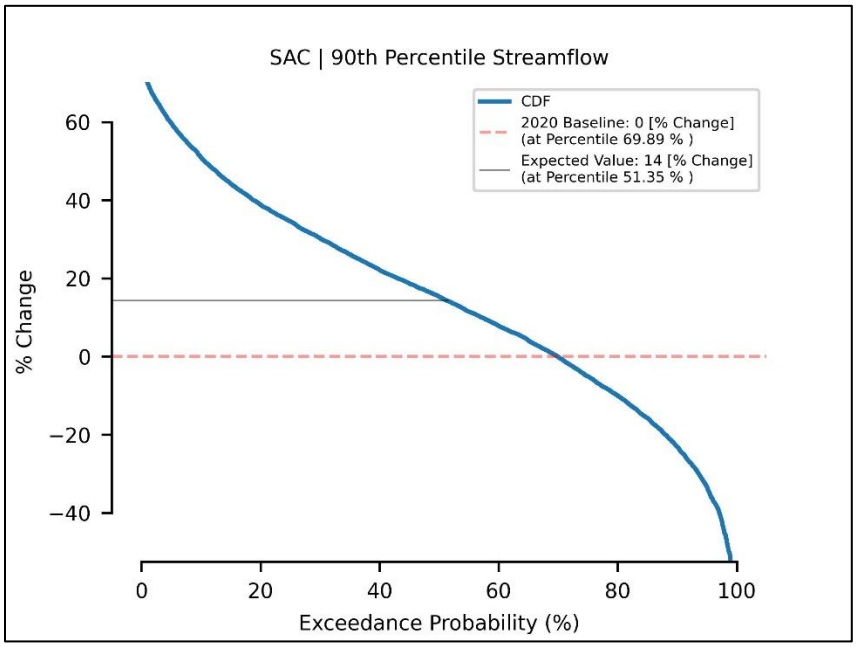


Figure B-32 San Joaquin River Hydrologic Region Response Surface for Flood Risk (90th Percentile Flow)

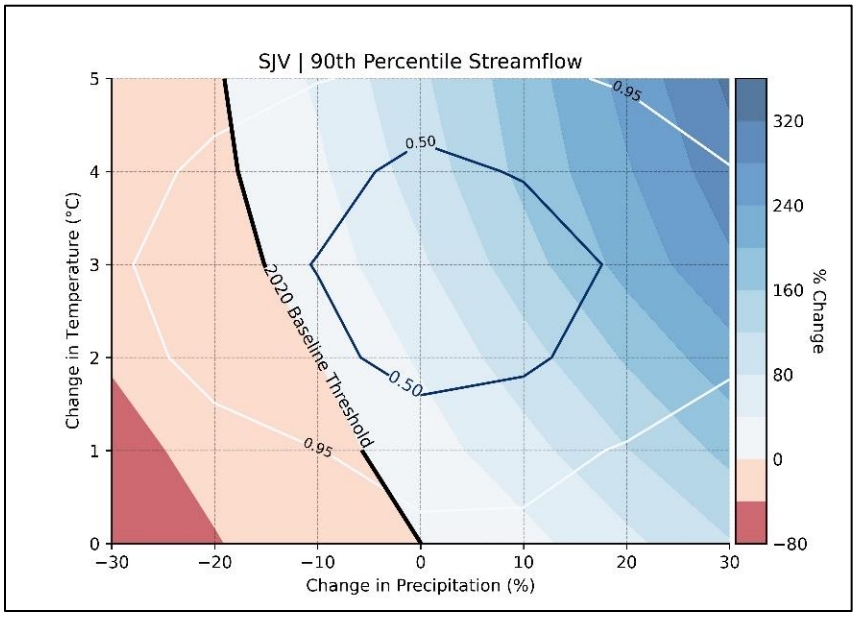


Figure B-33 San Joaquin River Hydrologic Region CDF for Flood Risk (90th Percentile Flow)

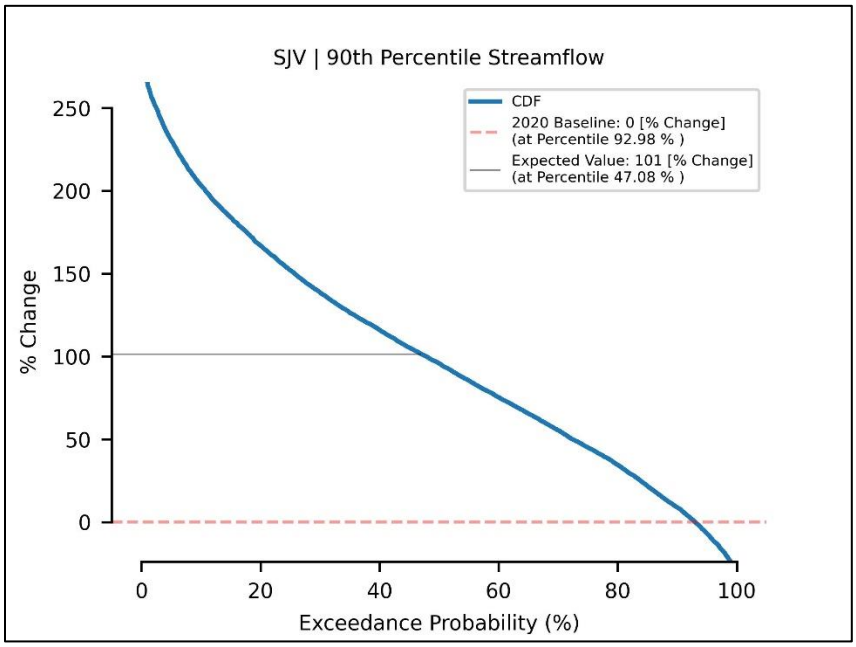


Figure B-34 Tulare Lake Hydrologic Region Response Surface for Flood Risk (90th Percentile Flow)

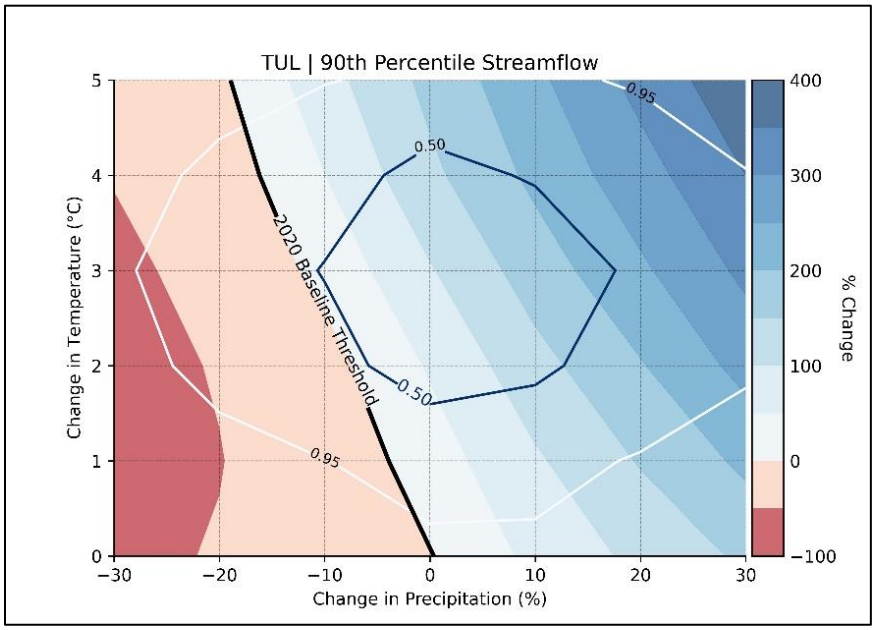
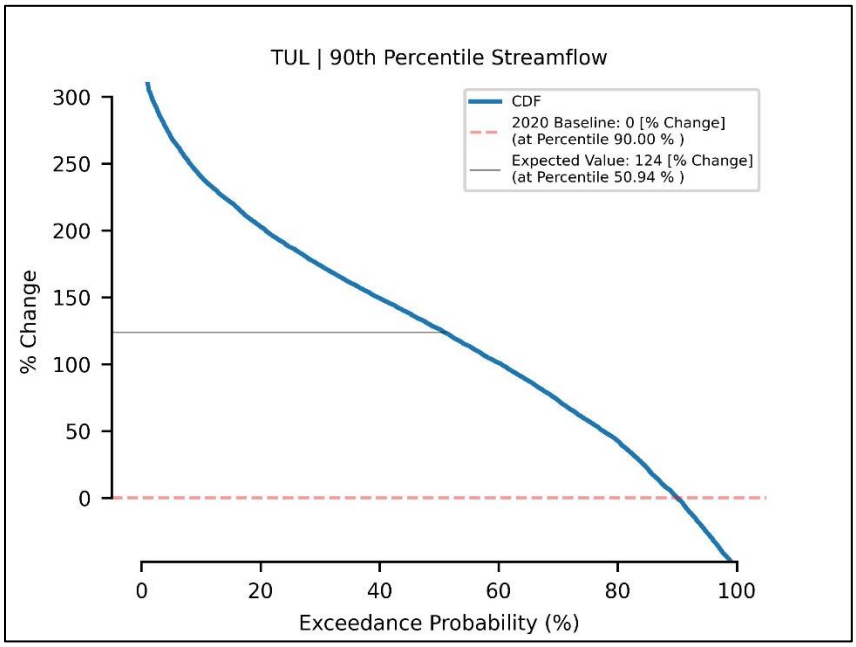


Figure B-35 Tulare Lake Hydrologic Region CDF for Flood Risk (90th Percentile Flow)

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