

Long-Term Operation – Final Environmental Impact Statement

Appendix B – References

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Appendix B References

The following references were cited in the chapters of the Environmental Impact Statement.

B.1 Chapter 0: Executive Summary

Bureau of Reclamation. 2012. Economics and Tribal Summary Technical Report – For the Secretarial Determination on Whether to Remove Four Dams on the Klamath River in California and Oregon. July.

Courter, I., Justice, C. and Cramer, S. 2009. Flow and temperature effects on life history diversity of *Oncorhynchus mykiss* in the Yakima River basin. Cramer Fish Sciences, Gresham, Ore. Available: https://www.researchgate.net/publication/265148435_Flow_and_temperature_effects_on_life_history_diversity_of_Oncorhynchus_mykiss_in_the_Yakima_River_basin.

Kendall, N. W., McMillan, J. R., Sloat, M. R., Buehrens, T. W., Quinn, T. P., Pess, G. R., Kuzishchin, K. V., McClure, M. M., and Zabel, R. W. 2015. Anadromy and residency in steelhead and rainbow trout (*Oncorhynchus mykiss*): a review of the processes and patterns. *Canadian Journal of Fisheries and Aquatic Sciences*. 72(3):319–342. Available: <https://doi.org/10.1139/cjfas-2014-0192>.

Martin, B., A. Pike, S. John, N. Hamda, J. Roberts, and E. Danner. 2017. Phenomenological vs. Biophysical Models of Thermal Stress in Aquatic Eggs. *Ecology Letters* 20:50–59.

Golden Gate National Parks Conservancy. 2022. *Foothill Yellow-legged Frog*. Available at: <https://www.onetam.org/peak-health/foothill-yellow-legged-frog>. Accessed: June 18, 2024.

Skeenwild. “Eulachon.” 2012. Online image. Flickr. Available: [eulachon 1 | Dcim\104gopro | skeenawild2012 | Flickr](https://www.flickr.com/photos/skeenwild2012/104gopro/). Accessed October 28, 2024.

U.S. Fish and Wildlife Service. 2011. *Giant Garter Snake* (Public Domain). Available: https://www.flickr.com/photos/usfws_pacificsw/5638500269/in/album-72157626169676139/. Accessed: June 18, 2024.

U.S. Fish and Wildlife Service. 2019. *Bank Swallow* (Public Domain). Available: https://www.flickr.com/photos/usfws_pacificsw/49305306713/in/album-72157625068637776/. Accessed: June 18, 2024.

U.S. Fish and Wildlife Service. 2023. *Western pond turtle* (Public Domain). Available: https://www.flickr.com/photos/usfws_pacificsw/53232545366/in/photostream/. Accessed: June 18, 2024.

B.2 Chapter 1: Introduction

National Marine Fisheries Service. 2019. *Biological Opinion on Long Term Operation of the Central Valley Project and the State Water Project*.

U.S. Fish and Wildlife Service. 2019. *Biological Opinion for the Reinitiation of Consultation on the Coordinated Operations of the Central Valley Project and State Water Project*.

B.3 Chapter 2: Purpose and Need

No references cited.

B.4 Chapter 3: Alternatives

Bureau of Reclamation. 2022. *Public Scoping Report 2021 Reinitiation of Endangered Species Act Section 7 Consultation on the Long-Term Operation of the Central Valley Project and State Water Project*. June.

California Department of Fish and Wildlife. 2018. Definition of Loss Equation.

Gaeta, J.W., B. Mahardja, and T.X. Nguyen. 2023. in prep. Balancing species protection and water supply needs: predicting winter-run Chinook salmon salvage via a machine learning framework. To be submitted as an Interagency Ecological Program Technical Report.

Mount, Jeffrey, Brian Gray, Caitrin Chappelle, JKane Doolan, Theodor Grantham, and Nathaniel Seavy. 2016. "Managing Water for the Environment During Drought: Lessons from Victoria, Australia." Available: https://www.ppic.org/wp-content/uploads/content/pubs/report/R_616JMR.pdf.

O'Farrell M.R., W.H. Satterthwaite, A.N. Hendrix, and M.S. Mohr. 2018. Alternative Juvenile Production Estimate (JPE) Forecast Approaches for Sacramento River Winter-Run Chinook Salmon. San Francisco Estuary & Watershed Science. Volume 16, Issue 4 | Article 4.

U.S. Fish and Wildlife Service. 2020. Delta Smelt Supplementation Strategy. Prepared by: U.S. Fish and Wildlife Service, CA Department of Water Resources, U.S. Bureau of Reclamation, CA Department of Fish and Wildlife, and University of California Davis. October 21, 2020.

B.5 Chapter 4: Water Quality

State Water Resources Control Board. 2000. Revised Water Right Decision 1641. Available: https://www.waterboards.ca.gov/waterrights/board_decisions/adopted_orders/decisions/d1600_d1649/wrd1641_1999dec29.pdf. Accessed: March 8, 2024.

B.6 Chapter 5: Water Supply

Bureau of Reclamation. 1999. *Central Valley Project Improvement Act – Final Programmatic Environmental Impact Statement/Report*. October. U.S. Department of the Interior.

California Department of Water Resources. 1957. *Bulletin Number 3 California Water Plan*. Available: <https://cawaterlibrary.net/document/bulletin-no-3-the-california-water-plan/>. Accessed: June 2023.

California Department of Water Resources. 2018a. *California Water Plan Update 2018 – Public Review Draft*. Available: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/California-Water-Plan/Docs/Update2018/Final/California-Water-Plan-Update-2018.pdf>. Accessed: March 2023.

California Department of Water Resources. 2018b. *California Water Plan Update 2018 – Supporting Documentation for Water Portfolios*. Available: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/California-Water-Plan/Docs/Update2018/Final/SupportingDocs/Water-Portfolios-and-Balances.pdf>. Accessed: June 2023.

State Water Resources Control Board. 2019. PG&E McCloud-Pit Hydroelectric Project Final Initial Study/Negative Declaration. Available: https://www.waterboards.ca.gov/waterrights/water_issues/programs/water_quality_cert/docs/mccloud_ceqa.pdf. Accessed: May 2024.

University of California, San Diego. 2023. Water Storage Tracking for Sierra Nevada and Upper Colorado River Basins. Scripps Institution of Oceanography – California Nevada Applications Program (CNAP). Available: https://cnap.ucsd.edu/storage_in_sierra_ucrb/. Accessed: June 2023.

B.7 Chapter 6: Groundwater

California Department of Water Resources. 2003. *California's Groundwater, Bulletin 118 Update*. Available: https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Bulletin-118/Files/Statewide-Reports/Bulletin_118_Update_2003.pdf. Accessed May 15, 2024.

California Department of Water Resources. 2013a. *California Water Plan Update 2013*. Available: <https://web.archive.org/web/20140101001827/http://www.waterplan.water.ca.gov/cwpu2013/prd/index.cfm>. Accessed: May 15, 2024.

California Department of Water Resources. 2013b. *Hydrologic Regions of California: Sacramento River–Basins and Subbasins of the Sacramento River Hydrologic Region*. Available: https://web.archive.org/web/20140702175953/http://www.water.ca.gov/groundwater/bulletin118/sacramento_river.cfm. Accessed: May 15, 2024.

California Department of Water Resources. 2019. *DWR Finalizes Groundwater Basin Boundary Modifications under SGMA*. February 11. Available: <https://water.ca.gov/News/News-Releases/2019/February/Final-Basin-Boundary-Modifications-Released>. Accessed: May 15, 2024.

California Department of Water Resources. 2020. *Sustainable Groundwater Management Act 2019 Basin Prioritization*. May. Available: <https://water.ca.gov/Programs/Groundwater-Management/Basin-Prioritization#:~:text=Basin%20Prioritization%20is%20a%20technical%20process%20that%20utilizes,in%20the%20California%20Water%20Code%20Section%2010933%20%28b%29> (see Current SGMA Basin Prioritization Process and Results Document). Accessed: March 31, 2023.

California Department of Water Resources. 2021a. *California's Groundwater Update 2020*. Available: https://data.cnra.ca.gov/dataset/3f87088d-a2f9-4a46-a979-1120069db2c6/resource/d2b45d3c-52c0-45ba-b92a-fb3c90c1d4be/download/calgw2020_full_report.pdf. Accessed: March 28, 2023.

California Department of Water Resources. 2021b. *Groundwater Conditions Report Water Year 2021*. Available: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Data-and-Tools/Files/Statewide-Reports/Groundwater-Conditions-Report-Fall-2021.pdf>. Accessed: March 18, 2023.

Central Coast Water Authority. 2013. *Central Coast Water Authority fiscal year 2013/14 Budget*. April 25. Available: <https://www.ccwa.com/files/93aa935bb/FY2013-14Budget.pdf>. Accessed May 15, 2024.

North Coast Regional Water Quality Control Board and Bureau of Reclamation. 2009. *Channel Rehabilitation and Sediment Management for Remaining Phase 1 and Phase 2 Sites, Draft Master Environmental Impact Report and Environmental Assessment*. June. Available: <https://www.trrp.net/DataPort/doc.php?id=476>. Accessed: May 15, 2024.

U.S. Geological Survey. 2009. *Groundwater Availability of the Central Valley Aquifer, California*. U.S. Geological Survey Professional Paper 1766. Groundwater Resources Program. Available: https://pubs.usgs.gov/pp/1766/PP_1766.pdf. Accessed: May 15, 2024.

B.8 Chapter 7: Indian Trust Assets

No references cited.

B.9 Chapter 8: Cultural Resources

No references cited.

B.10 Chapter 9: Air Quality

No references cited.

B.11 Chapter 10: Greenhouse Gas Emissions

California Air Resources Board. 2023. 2000-2021 *California Greenhouse Gas Emission Inventory – 2023 Edition*. Available: <https://ww2.arb.ca.gov/ghg-inventory-data>. Accessed: March 13, 2024.

California Department of Water Resources. 2010. *Model CEQA Climate Change Discussion and Impact Analysis Section, California Department of Water Resources Internal Guidance Document*. CEQA Climate Change Committee. January.

International Panel of Climate Change. 2023. *Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Core Writing Team, H. Lee and J. Romero. Available: https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_FullVolume.pdf. Accessed: June 4, 2024.

B.12 Chapter 11: Visual Resources

Bureau of Reclamation. 1997. *Central Valley Project Improvement Act, Draft Programmatic Environmental Impact Statement*. September.

Bureau of Reclamation. 2005a. *Delta Mendota Canal Unit, Environmental Assessment, Long-Term Contract Renewal*. February.

Bureau of Reclamation. 2005b. *Central Valley Project Long-Term Water Service Contract Renewal San Luis Unit, Public Draft Environmental Impact Statement and Appendices*. September.

CALFED Bay-Delta Program. 2000. *Final Programmatic Environmental Impact Report/Environmental Impact Statement*. July. Sacramento.

B.13 Chapter 12: Fish and Aquatic Resources

Aasen, G. 2011. *Fish Salvage at the State Water Project's and Central Valley Project's Fish Facilities during the 2010 Water Year*. *IEP Newsletter* 24:1. Spring.

Aasen, G. 2012. *Fish Salvage at the State Water Project's and Central Valley Project's Fish Facilities during the 2011 Water Year*. *IEP Newsletter* 25:1. Fall/Winter.

- Adams, PB, CB Grimes, JE Hightower, ST Lindley, and ML Moser. 2002. Status Review for North American Green Sturgeon, *Acipenser medirostris*.
- Adams, P. B., C. B. Grimes, J. E. Hightower, S. T. Lindley, M. L. Moser, and M. J. Parsley. 2007. Population Status of North American Green sturgeon, *Acipenser medirostris*. *Environmental Biology of Fishes* 79:339–356.
- Anderson, J., C. Watry, and A. Gray. 2007. *Upstream Fish Passage at a Resistance Board Weir Using Infrared and Digital Technology in the Lower Stanislaus River, California*. 2006–2007 Annual Data Report. Prepared for the U.S. Fish and Wildlife Service.
- Ayres, K. L., R. K. Booth, J. A. Hempelmann, K. L. Koski, C. K. Emmons, R. W. Baird, K. Balcomb-Bartok, M. B. Hanson, M. J. Ford, and S. K. Wasser. 2012. Distinguishing the impacts of inadequate prey and vessel traffic on an endangered killer whale (*Orcinus orca*) population. *PLoS ONE* 7: e36842.
- Azat, J. 2023. *GrandTab 2023.06.26 California Central Valley Chinook Escapement Database Report*. California Department of Fish and Wildlife. Available: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=84381>. Accessed: August 23, 2023.
- Battaile B., E. Mora, B. Lehman, and P. Dudley. 2023. *Estimating spawning Green Sturgeon (Acipenser medirostris Ayres, 1854) abundance using side scan sonar and N-mixture models [Dataset]*. Dryad. Available: [Estimating spawning green sturgeon \(Acipenser medirostris Ayres, 1854\) abundance in the Sacramento River using side-scan sonar and N-mixture models \(noaa.gov\)](https://doi.org/10.31233/osf.io/zt9qj).
- Beamesderfer, R., M. Simpson, and G. Kopp. 2007. Use of Life History Information in a Population Model for Sacramento Green sturgeon. *Environmental Biology of Fishes* 79:315–337.
- Bennett, W. A. 2005. Critical Assessment of the Delta Smelt Population in the San Francisco Estuary, California. *San Francisco Estuary and Watershed Science* 3(2). Available: <http://repositories.cdlib.org/jmie/sfews/vol3/iss2/art1/>. Accessed: March 27, 2012.
- Benson, R. L., S. Turo, and B. W. McCovey, Jr. 2007. Migration and Movement Patterns of Green sturgeon (*Acipenser medirostris*) in the Klamath and Trinity Rivers, California, USA. *Environmental Biology of Fishes* 79:269–279.
- Bever, A. J., M. L. MacWilliams, B. Herbold, L. R. Brown, and F. V. Feyrer. 2016. Linking hydrodynamic complexity to Delta smelt (*Hypomesus transpacificus*) distribution in the San Francisco Estuary, USA. *San Francisco Estuary and Watershed Science*. 14(1). March.
- Brandes, P. L., and J. S. McLain. 2001. Juvenile Chinook salmon Abundance, Distribution, and Survival in the Sacramento-San Joaquin Estuary. Contributions to the Biology of the Central Valley salmonids. *Fish Bulletin* 2(179). California Department of Fish and Wildlife, Sacramento, CA. pp. 39–136.

- Brown, K. 2007. Evidence of Spawning by Green sturgeon, *Acipenser medirostris*, in the Upper Sacramento River, California. *Environmental Biology of Fishes* 79:297–303.
- Brown, L. R., R. Baxter, G. Castillo, L. Conrad, S. Culberson, G. Erickson, F. Feyrer, S. Fong, K. Gehrts, L. Grimaldo, B. Herbold, J. Kirsch, A. Mueller-Solger, S. Slater, K. Souza, and E. Van Nieuwenhuysse. 2014. *Synthesis of studies in the fall low-salinity zone of the San Francisco Estuary, September–December 2011*. U.S. Geological Survey Scientific Investigations Report 2014–5041. U.S. Geological Survey, Reston, VA.
- Budy, P., G. P. Thiede, N. Bouwes, C. E. Petrosky, and H. Schaller. 2002. Evidence Linking Delayed Mortality of Snake River Salmon to their Earlier Hydrosystem Experience. *North American Journal of Fisheries Management* 22:35–51.
- Bureau of Land Management and National Park Service. 2008. *Environmental Assessment, Lower Clear Creek Anadromous Fish Restoration and Management Project*. BLM EA RE-2008-16. April.
- Bureau of Reclamation. 2008. Biological Assessment on the Continued Long-Term Operations of the Central Valley Project and the State Water Project. August. U.S. Bureau of Reclamation Mid-Pacific Region, Sacramento, CA.
- Bureau of Reclamation. 2012. *Stanislaus River Focus Group Meeting October 10, 2012*. Handouts.
- Bureau of Reclamation. 2019. Reinitiation of Consultation on the Coordinated Long-Term Operation of the Central Valley Project and State Water Project. Final Biological Assessment. October. Mid-Pacific Region, U.S. Bureau of Reclamation.
- Bureau of Reclamation. 2022a. Annual Report on the Long-term Operation of the CVP and SWP, Appendix J - Stanislaus River Summary of Activities by Water Year 2022. Bay-Delta Office. Sacramento, CA.
- Bureau of Reclamation. 2022b. Yolo Bypass. California-Great Basin Region. Available: <https://www.usbr.gov/mp/mpr-news/docs/factsheets/yolo-bypass.pdf>. Accessed: June 4, 2024.
- Bureau of Reclamation. 2023. Reclamation awards \$34.3 million for Central Valley Project and facility improvements. Available: <https://www.usbr.gov/newsroom/news-release/4636>. Accessed: June 5, 2024.
- Bureau of Reclamation. 2024. Final 2023 Habitat Restoration Report. Long-Term Operations of the Central Valley Project and State Water Project, California. California-Great Basin Region. Bay Delta Office. Sacramento, CA.
- Busby, P. J., T. C. Wainwright, G. J. Bryant, L. J. Lierheimer, R. S. Waples, F. W. Waknitz, and I. V. Largomarsino. 1996. *Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California*. National Marine Fisheries Service, Northwest Fisheries Science Center and Southwest Region Protected Resources Division, NOAA Technical Memorandum, NMFS-NWFSC-27.

- California Department of Fish and Game. 1985. *Status of Winter-Run Chinook salmon, Oncorhynchus tshawytscha, in the Sacramento River*. January.
- California Department of Fish and Game. 1998. *A Status Review of the Spring-Run Chinook salmon in the Sacramento River Drainage*. Candidate Species Status Report 98-1. Report to the Fish and Game Commission.
- California Department of Fish and Game. 2002. California Department of Fish and Game Comments to NMFS Regarding Green Sturgeon Listing. Available: https://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/deltaflow/docs/exhibits/nmfs/spprt_docs/nmfs_exh4_dfg_2002.pdf.
- California Department of Fish and Game. 2009. *A Status Review of the Longfin Smelt (Spirinchus thaleichthys) in California*. Report to the Fish and Wildlife Commission. January.
- California Department of Fish and Game. 2012. *Central Valley Chinook Salmon In-River Escapement Monitoring Plan*. Fisheries Branch Administrative Report No. 2012-1. January.
- California Department of Fish and Wildlife. 2023. Sturgeon Fishing Report Card: 2022 Summary Data Report.
- California Hatchery Scientific Review Group. 2012. *California Hatchery Review Report*. Prepared for the U.S. Fish and Wildlife Service and Pacific States Marine Fisheries Commission. June.
- Campbell, E. A., and P. B. Moyle. 1991. Historical and Recent Population Sizes of Spring Run Salmon in California. In T. Hassler (ed.), *Northeast Pacific Chinook and Coho Salmon Workshop*. pp. 155–216. American Fisheries Society. Arcata, CA.
- Clear Creek Technical Team. 2018. *Clear Creek Technical Team Annual Report for the Coordinated Long-Term Operations Biological Opinion*.
- Clemento, A. J., E. D. Crandall, J. C. Garza, E. C. Anderson. 2014. Evaluation of a Single Nucleotide Polymorphism Baseline for Genetic Stock Identification of Chinook Salmon (*Oncorhynchus tshawytscha*) in the California Current Large Marine Ecosystem. *Fishery Bulletin* 112(2-3):112–130.
- Cohen, A. and J. T. Carlton. 1998. Accelerating invasion rate in a highly invaded estuary. *Science* 279 (5350):555-8. Available: ([PDF](#)) [Accelerating Invasion Rate in a Highly Invaded Estuary \(researchgate.net\)](#). Accessed: August 30, 2024.
- Colborne, S.F., L.W. Sheppard, D.R. O'Donnell, D.C. Reuman, J.A. Walter, G.P. Singer, J.T. Kelly, M.J. Thomas, and A.L. Rypel. 2022. Intraspecific variation in migration timing of green sturgeon in the Sacramento River system. *Ecosphere* 2022;13:e4139. <https://doi.org/10.1002/ecs2.4139>.

- Columbia Basin Research, University of Washington. 2024. SacPAS Cohort Juvenile Migration Timing and Conditions. Unclipped Steelhead at Knights Landing, Mossdale Trawl, Sacramento Beach Seines, and Sacramento Trawl from 2004-2023. Accessed February 12, 2024. Available from www.cbr.washington.edu/sacramento/data/query_hrt.html
- Cooke, S. J., S. G. Hinch, G. T. Crossin, D. A. Patterson, K. A. English, M. C. Healy, J. M. Shrimpton, G. Van Der Kraak, and A. P. Farrell. 2006. Mechanistic Basis of Individual Mortality in Pacific Salmon during Spawning Migrations. *Ecology* 87:1575–1586.
- del Rosario, R. B., Y. J. Redler, K. Newman, P. L. Brandes, T. Sommer, K. Reece, and R. Vincik. 2013. Migration Patterns of Juvenile Winter-Run-Sized Chinook salmon (*Oncorhynchus tshawytscha*) through the Sacramento–San Joaquin Delta. *San Francisco Estuary and Watershed Science* 11(1).
- Earley, L. A., S. L. Giovannetti, and M. R. Brown. 2013. Fall Chinook Salmon Redd Mapping for the Clear Creek Restoration Project, 2008-2012. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, CA.
- Fearnbach, H., J. W. Durban, D. K. Ellifrit, and K. C. Balcomb, III. 2011. Size and long-term growth trends of Endangered fish-eating killer whales. *Endangered Species Research* 13:173–180.
- Fearnbach, H., J. W. Durban, L. G. Barrett-Lennard, D. K. Ellifrit, K. C. Balcomb. 2020. Evaluating the power of photogrammetry for monitoring killer whale body condition. *Marine Mammal Science* 36:359-364.
- Federal Energy Regulatory Commission. 2007. *Final Environmental Impact Statement for Hydropower License, Klamath Hydroelectric Project*. FERC Project No. 2082-027. FERC/EIS-0201F. November.
- FISHBIO Environmental. 2007. *2007 Stanislaus River data report*. Final Data.
- FISHBIO Environmental. 2010. *Fall/Winter Migration Monitoring at the Tuolumne River Weir 2009/10 Annual Report*. Prepared for the Turlock and Modesto Irrigation Districts. March.
- FISHBIO Environmental. 2011. *Fall/Winter Migration Monitoring at the Tuolumne River Weir 2010 Annual Report*. Prepared for the Turlock and Modesto Irrigation Districts. March.
- FISHBIO Environmental. 2013. *Outmigrant Trapping of Juvenile Salmon in the Lower Tuolumne River, 2013*. Prepared for the Turlock and Modesto Irrigation Districts. March.
- Ford, J. K. B. and G. M. Ellis. 2006. Selective foraging by fish-eating killer whales *Orcinus orca* in British Columbia. *Marine Ecology Progress Services*. Vol. 316:185-199.
- Ford, J. K. B., G. M. Ellis, P. F. Olesiuk, and K. C. Balcomb. 2010. Linking killer whale survival and prey abundance: food limitation in the oceans' apex predator? *Biology Letters* 6:139–142. Available: <https://doi.org/10.1098/rsbl.2009.0468>.

- Garwood, R. S. 2017. Historic and contemporary distribution of Longfin Smelt (*Spirinchus thaleichthys*) along the California coast. *California Fish and Wildlife* 103(3):96–117.
- Gibbs, E. 1956. *A Report on the King salmon, Oncorhynchus tshawytscha, in the Upper Trinity River, 1955*. California Department of Fish and Wildlife, Inland Fisheries Admin. Report No. 56-10.
- Grimaldo, L., F. Feyrer, J. Burns, and D. Maniscalco. 2017. Sampling Uncharted Waters: Examining Rearing Habitat of Larval Longfin Smelt (*Spirinchus thaleichthys*) in the Upper San Francisco Estuary. *Estuaries and Coasts* 40(6):1771–1784.
- Hallock, R. J. and F. W. Fisher. 1985. *Status of Winter-Run Chinook salmon, Oncorhynchus tshawytscha, in the Sacramento River*. California Department of Fish and Wildlife, Anadromous Fisheries Branch.
- Hallock, R. J., W. F. Van Woert, and L. Shapovalov. 1961. An Evaluation of Stocking Hatchery-reared Steelhead Rainbow Trout (*Salmo gairdnerii gairdnerii*) in the Sacramento River System. *California Department of Fish and Game Fish Bulletin* 114:1–74.
- Hance, D. J., R. W. Perry, A. C. Pope, A. J. Ammann, J. L. Hassrick, and G. Hansen. 2022. From drought to deluge: spatiotemporal variation in migration routing, survival, travel time and floodplain use of an endangered migratory fish. *Canadian Journal of Fisheries and Aquatic Sciences* 79(3):410-428.
- Hannon, J., and B. Deason. 2008. *American River Steelhead Spawning 2001–2007*. Bureau of Reclamation.
- Hanson, M. B., C. K. Emmons, M. J. Ford, M. Everett, K. Parsons, L. K. Park, J. Hempelmann, D. M. V. Doornik, G. S. Schorr, J. Jacobsen, M. F. Sears, M. S. Sears, J. G. Sneva, R. W. Baird, and L. Barre. 2021. Endangered predators and endangered prey: Seasonal diet of Southern Resident killer whales. *PloS one* 16(3): e0247031.
- Healey, M. C. 1991. Life History of Chinook salmon (*Oncorhynchus tshawytscha*). In C. Groot and L. Margolis (eds.). *Pacific salmon Life-Histories*. pp. 313–393. UBC 21 Press, Vancouver.
- Heublein, J. C. 2006. *Migration of Green sturgeon Acipenser medirostris in the Sacramento River*. M.S. Thesis. California State University, San Francisco.
- Heublein, J. C., J. T. Kelly, C. E. Crocker, A. P. Klimley, and S. T. Lindley. 2009. Migration of Green sturgeon *Acipenser medirostris* in the Sacramento River. *Environmental Biology of Fishes* 84:245–258.
- Heublein, J., R. Bellmer, R. D. Chase, P. Doukakis, M. Gingras, D. Hampton, J. A. Israel, Z. J. Jackson, R. C. Johnson, O. P. Langness, S. Luis, E. Mora, M. L. Moser, L. Rohrbach, A. M. Seesholtz, T. Sommer, and J. S. Stuart. 2017. *Life History and Current Monitoring Inventory of San Francisco Estuary Sturgeon*. National Marine Fisheries Service, NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-589. pp. 1–47.

- Hoop Valley Tribe, Yurok Tribe, and California Department of Fish and Wildlife. 2022. *Southern Oregon/Northern California Coast coho harvest control rule*. Joint Report No. 1. Available: <https://www.pcouncil.org/documents/2022/01/b-1-a-supplemental-joint-tribal-cdfw-report-1.pdf/>.
- Hopelain, J. S. 1998. *Age, Growth, and Life History of Klamath River Basin Steelhead Trout (Oncorhynchus mykiss irideus) as Determined from Scale Analysis*. California Department of Fish and Wildlife. Inland Fisheries Division Administrative Report No. 98-3.
- Israel, J. A., J. F. Cordes, M. A. Blumberg, and B. May. 2004. Geographic Patterns of Genetic Differentiation Among Collections of Green Sturgeon. *North American Journal of Fisheries Management* 24:922–931.
- Israel, J. A., and A. P. Klimley. 2008. *Life History Conceptual Model for North American Green sturgeon (Acipenser medirostris)*. Prepared for the California Department of Fish and Wildlife, Delta Regional Ecosystem Restoration and Implementation Program. University of California, Davis.
- Jackson, Z. J., and J. P. Van Eenennaam. 2013. *2012 San Joaquin River Sturgeon Spawning Survey*. Stockton Fish and Wildlife Office, Anadromous Fish Restoration Program, U.S. Fish and Wildlife Service.
- Kardos, M., Y. Zhang, K.M. Parsons, Yunga A., X. Xu, X. Liu, C.O. Matkin, P. Zhang, E.J. Ward, M.B. Hanson, C. Emmons, M.J. Ford, G. Fan, S. Li. 2023. Inbreeding depression explains killer whale population dynamics. *Nature Ecology & Evolution* 7: 675–686.
- Kelly, J. T., A. P. Klimley, and C. E. Crocker. 2007. Movements of Green Sturgeon, *Acipenser medirostris*, in the San Francisco Bay Estuary, California. *Environmental Biology of Fishes* 79:281–295.
- Killam, D. 2022. *Salmonid Populations of the Upper Sacramento River Basin in 2021*. USBFP Technical Report No. 02-2022. California Department of Fish and Wildlife – Northern Region. Upper Sacramento River Basin Fisheries Program. Red Bluff Field Office.
- Kimmerer, W. J. 2002. Physical, biological, and management responses to variable freshwater flow into the San Francisco Estuary. *Estuaries* 25:1275–1290.
- Kok, R., and E. Keller. 2023. *2021 California Department of Fish and Wildlife Steelhead Redd Survey*. Stanislaus River Steelhead Life Cycle Monitoring Program. Central Region, La Grange, CA.
- LaFaunce, D. A. 1967. *A King salmon Spawning Survey of the South Fork Trinity River, 1964*. The Resources Agency of California, Department of Fish and Wildlife. Region 1, Inland Fisheries.
- Lacy, R.C., R. Williams, E. Ashe, K.C. Balcomb III, L.J.N. Brent, C.W. Clark, D.P. Croft, D.A. Giles, M. MacDuffee, and P.C. Paquet. 2017. Evaluating Anthropogenic Threats to Endangered Killer Whales to Inform Effective Recovery Plans. *Scientific Reports* 7: 14119.

- Larson, Z. S., and M. R. Belchik. 1998. A Preliminary Status Review of Eulachon and Pacific Lamprey in the Klamath River Basin. Yurok Tribal Fisheries Program.
- Lasko, G. 2012. Straying of late-fall run Chinook salmon from the Coleman National Fish Hatchery into the lower American River, California. M.S. Thesis. California State University, Department of Biological Sciences, Sacramento, California.
- Lewis, L., A. Barros, M. Willmes, C. Denney, C. Parker, M. Bisson, J. Hobbs, A. Finger, G. Benjamin, and A. Benjamin. 2019. Interdisciplinary studies on Longfin Smelt in the San Francisco Estuary.
- Lindberg, J.C., Y.-J.J. Tsai, B.D. Kammerer, B. Baskerville-Bridges, and T.-C. Hung. 2019. Spawning microhabitat selection in wild-caught delta smelt *Hypomesus transpacificus* under laboratory conditions. *Estuaries and Coasts* 43: 174–181.
- Lindley, S.T., Schick, R.S., Agrawal, A., Goslin, M., Pearson, T.E., Mora, E., Anderson, J.J., May, B., Greene, S., Hanson, C. and Low, A., 2006. Historical population structure of Central Valley steelhead and its alteration by dams. *San Francisco Estuary and Watershed Science*, 4(1).
- Lindley, S. T., R. Schick, E. Mora, P. B. Adams, J. J. Anderson, S. Greene, C. Hanson, B. P. May, D. R. McEwan, R. B. MacFarlane, C. Swanson, and J. G. Williams. 2007. Framework for Assessing Viability of Threatened and Endangered Chinook Salmon and Steelhead in the Sacramento–San Joaquin Basin. *San Francisco Estuary and Watershed Science* 5(1):26.
- Lindley, S.T., Moser, M.L., Erickson, D.L., Belchik, M., Welch, D.W., Rechisky, E.L., Kelly, J.T., Heublein, J. and Klimley, A.P., 2008. Marine migration of North American green sturgeon. *Transactions of the American Fisheries Society*, 137(1), pp.182-194.
- MacFarlane, R. B., and E. C. Norton. 2002. Physiological Ecology of juvenile Chinook salmon (*Oncorhynchus tshawytscha*) at the Southern End of Their Distribution, the San Francisco Estuary and Gulf of the Farallones, California. *Fisheries Bulletin* 100:244–257.
- McEwan, D. 2001. Central Valley Steelhead. Contributions to the Biology of Central Valley Salmonids. *California Department of Fish and Wildlife Fish Bulletin* 179(1):1–44.
- McEwan, D., and T. A. Jackson. 1996. *Steelhead Restoration and Management Plan for California*. California Department of Fish and Wildlife, Sacramento, CA.
- Mayfield, R., and J. Cech, Jr. 2004. Temperature Effects on Green Sturgeon Bioenergetics. *Transactions of The American Fisheries Society* 133:961–970. 10.1577/T02-144.1.
- Meek, M., M.R. Baerwald, M.R. Stephens, A. Goodbla, M.R. Miller, K.M.H. Tomalty, and B. May. 2016. Sequencing improves our ability to study threatened migratory species: Genetic population assignment in California’s Central Valley Chinook. *Ecol Evol* 6(21):7706–7716. <https://doi.org/10.1002/ece3.2493>

- Merz, J. E., S. Hamilton, P.S. Bergman, and B. Cavallo. 2011. Spatial Perspective for Delta Smelt: A Summary of Contemporary Survey Data. *California Fish and Wildlife* 97(4):164–189. Available: http://www.genidaqs.net/reports/2011/CA_Fish-Game_97_164-189.pdf.
- Miller, E.A., G.P. Singer, M.L. Peterson, E.D. Chapman, M.E. Johnston, M.J. Thomas, R.D. Battleson, M. Gingras, and A.P. Klimley. 2020. Spatio-temporal distribution of Green Sturgeon (*Acipenser medirostris*) and White Sturgeon (*A. transmontanus*) in the San Francisco Estuary and Sacramento River, California. *Environmental Biology of Fishes* 103:577-603. DOI 10.1007/s10641-020-00972-x
- Moffett, J. W., and S. H. Smith. 1950. *Biological Investigations of the Fishery Resources of the Trinity River, California*. U.S. Fish and Wildlife Service Special Science Report. Fisheries Bulletin No. 12.
- Mora, E. A., R. D. Battleson, S. T. Lindley, M. J. Thomas, R. Bellmer, L. J. Zarri, and A. P. Klimley. 2018. Estimating the Annual Spawning Run Size and Population Size of the Southern Distinct Population Segment of Green sturgeon. *Transactions of the American Fisheries Society* 147:195–203.
- Moyle, P. B. 2002. *Inland Fishes of California*. University of California Press, Berkeley, CA.
- Moyle, P. B., B. Herbold, D. E. Stevens, and L. W. Miller. 1992. Life History and Status of Delta Smelt in the Sacramento–San Joaquin Estuary, California. *Transactions of the American Fisheries Society* 121(1):67–77.
- Moyle, P. B., R. D. Baxter, T. Sommer, T. C. Foin, and S. A. Matern. 2004. Biology and Population Dynamics of Sacramento Splittail (*Pogonichthys macrolepidotus*) in the San Francisco Estuary: A Review. *San Francisco Estuary and Watershed Science* 2(3).
- Moyle, P. B., L. R. Brown, S. D. Chase, and R. M. Quinones. 2009. Status and Conservation of Lampreys in California. *American Fisheries Society Symposium* 72:279–292.
- Moyle, P. B., R. M. Quiñones, J. V. Katz, and J. Weaver. 2015. *Fish Species of Special Concern in California*. July. California Department of Fish and Wildlife; Sacramento, CA.
- Moyle, P., R. Lusardi, P. Samuel, and J. Katz. 2017. State of the Salmonids: Status of California’s Emblematic Fishes 2017. Center for Watershed Sciences, University of California, Davis and California Trout, San Francisco, CA. 579 pp.
- Murphy, D. D., and S. A. Hamilton. 2013. Eastern Migration or Marshward Dispersal: Exercising Survey Data to Elicit an Understanding of Seasonal Movement of Delta Smelt. *San Francisco Estuary and Watershed Science* 11(3). Available: <https://escholarship.org/uc/item/4jf862qz>.

- Myers, J. M., R. G. Kope, G. J. Bryant, D. Teel, L. J. Lierheimer, T. C. Wainwright, W. S. Grant, F. W. Waknitz, K. Neely, S. T. Lindley, and R. S. Waples. 1998. *Status Review of Chinook salmon from Washington, Idaho, Oregon, and California*. U.S. Department Commerce, NOAA Technical Memorandum NMFS-NWFSC-35.
- National Marine Fisheries Service. 1998. Factors Contributing to the Decline of Chinook Salmon: An Addendum to the 1996 West Coast Steelhead Factors for Decline Report. Protected Resources Division, National Marine Fisheries Service, Portland, OR. June.
- National Marine Fisheries Service. 2009. *Biological Opinion and Conference Opinion on the Long-Term Operations of the Central Valley Project and State Water Project*. June. National Marine Fisheries Service Southwest Region.
- National Marine Fisheries Service. 2014a. *Final Recovery Plan for the Southern Oregon/Northern California Coast Evolutionarily Significant Unit of Coho salmon (Oncorhynchus kisutch)*. National Marine Fisheries Service, Arcata, CA.
- National Marine Fisheries Service. 2014b. *Biological Opinion: Lower Clear Creek Anadromous Fish Habitat Restoration and Management Project (LCC Habitat Restoration Project)*. Bureau of Reclamation. File No. 151422WCR2014SA00117.
- National Marine Fisheries Service. 2016a. *5-Year Review: Summary & Evaluation of Eulachon*. National Marine Fisheries Service, West Coast Region, Portland, OR.
- National Marine Fisheries Service. 2016b. *Central Valley Recovery Domain 5-Year Review: Summary and Evaluation of Central Valley Spring-run Chinook salmon Evolutionarily Significant Unit*. National Marine Fisheries Service, West Coast Region, Portland, OR.
- National Marine Fisheries Service. 2017. Biological Opinion for NMFS' Implementation of the Final Mitchell Act EIS Preferred Alternative and Funding for Operation, Maintenance; and Monitoring, Evaluation and Reform of Columbia River Basin Hatchery Programs. NMFS, West Coast Region, January 2017.
- National Marine Fisheries Service. 2018. *Recovery Plan for the Southern Distinct Population Segment of North American Green sturgeon (Acipenser medirostris)*. National Marine Fisheries Service, Sacramento, CA.
- National Marine Fisheries Service. 2019. *Biological Opinion on Long Term Operation of the Central Valley Project and the State Water Project*. Consultation No. WCR-2016-00069.
- National Marine Fisheries Service. 2021. Revision of the Critical Habitat Designation for Southern Resident Killer Whales. Final Biological Report. National Marine Fisheries Service, West Coast Region. July 2021.
- National Research Council. 2004. *Endangered and Threatened Fishes in the Klamath River Basin: Causes of Decline and Strategies for Recovery*. The National Academies Press. Available: <https://doi.org/10.17226/10838>.

- Naughton, G. P., C. C. Caudill, M. L. Keefer, T. C. Bjornn, L. C. Stuehrenberg, and C. A. Perry. 2005. Late-season Mortality during Migration of Radio-Tagged Adult Sockeye Salmon (*Oncorhynchus nerka*) in the Columbia River. *Canadian Journal of Fisheries and Aquatic Sciences* 62:30–47.
- Nelson, B. W., E. J. Ward, D. W. Linden, E. Ashe, R. Williams. 2024. Identifying drivers of demographic rates in an at-risk population of marine mammals using integrated population models. *Ecosphere*. doi.org/10.1002/ccs2.4773.
- Nobriga, M. L., F. Feyrer, R. D. Baxter, and M. Chotkowski. 2005. Fish Community Ecology in an Altered River Delta: Spatial Patterns in Species Composition, Life History Strategies and Biomass. *Estuaries* 28(5):776–785.
- Nobriga, M. L., T.R. Sommer, F. Feyrer, and K. Fleming. 2008. Long-Term Trends in Summertime Habitat Suitability for Delta Smelt. *San Francisco Estuary and Watershed Science* 6(1). Available: <http://escholarship.org/uc/item/5xd3q8tx/>.
- Nobriga, M., and P. Cadrett. 2001. Differences among Hatchery and Wild Steelhead: Evidence from Delta Fish Monitoring Programs. *IEP Newsletter* 14(3). Summer.
- Pacific States Marine Fisheries Commission. 2014. *Juvenile salmonid Emigration Monitoring in the Lower American River, California January–June 2013*. Unpublished report prepared for the U.S. Fish and Wildlife Service and California Department of Fish and Wildlife, Sacramento, CA. 54 pp.
- Palmer-Zwahlen, M., V. Gusman, and B. Kormos. 2018. *Recovery of Coded-Wire Tags from Chinook salmon in California's Central Valley Escapement and Ocean Harvest in 2013*. Joint PSMFC-CDFW Report. October.
- Perry, R. W., A. C. Pope, J. G. Romine, P. L. Brandes, J. R. Burau, A. R. Blake, A. J. Ammann, and C. J. Michel. 2018. Flow-Mediated Effects on Travel Time, Routing, and Survival of Juvenile Chinook salmon in a Spatially Complex, Tidally Forced River Delta. *Canadian Journal of Fisheries and Aquatic Sciences* 75(11):1886–1901. Available: <https://doi.org/10.1139/cjfas-2017-0310>.
- Phillis, C. C., A. M. Sturrock, R. C. Johnson, and P. K. Weber. 2018. Endangered Winter-Run Chinook salmon Rely on Diverse Rearing Habitats in a Highly Altered Landscape. January. *ScienceDirect* 217:358–362. Available: <https://doi.org/10.1016/j.biocon.2017.10.023>.
- Pinnix, W., J. Polos, A. Scheiff, S. Quinn, and T. Hayden. 2007. Juvenile salmonid monitoring on the mainstem Trinity River at Willow Creek, California, 2001-2005. Available: [Pinnix, W; Polos, J; Scheiff, A; Quinn,... 2007. - at the TRRP DataPort.](#)
- Poytress, W. R., J. J. Gruber, C. E. Praetorius, and J. P. Van Eenennaam. 2013. *2012 Upper Sacramento River Green sturgeon Spawning Habitat and Young-of-the-Year Migration Surveys*. Annual Report of the U.S. Fish and Wildlife Service to the Bureau of Reclamation, Red Bluff, CA.

- Poytress, W. R., J. J. Gruber, J. P. Van Eenennaam, and M. Gard. 2015. Spatial and Temporal Distribution of Spawning Events and Habitat Characteristics of Sacramento River Green Sturgeon. *Transactions of the American Fisheries Society* 144:1129–42.
- Provins, S. S., and C. D. Chamberlain. 2019a. *Distribution and Abundance of Rainbow Trout/Steelhead and Late-fall Run Chinook salmon Redds in Clear Creek; Winter 2014 to Spring 2015*. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, CA.
- Provins, S. S., and C. D. Chamberlain. 2019b. *Distribution and Abundance of Rainbow Trout/Steelhead and Late-Fall Run Chinook salmon Redds in Clear Creek, Winter 2011 to Spring 2012*. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, CA.
- Pyper, B., J. B. Lando, and C. Justice. 2006. *Analysis of Weir Counts and Spawning Surveys of Adult Chinook Salmon in the Stanislaus River*. September. Cramer Fish Sciences, Gresham, OR.
- Roelofs, T. D. 1983. *Current status of California summer steelhead (Salmo gairdneri) stocks and habitat, and recommendations for their management*. Report to the U.S. Forest Service, Region 5. 77 pp.
- Rosenfield, J. A., and R. D. Baxter. 2007. Population Dynamics and Distribution Patterns of Longfin Smelt in the San Francisco Estuary. *Transactions American Fisheries Society* 136:1577–1592.
- Sacramento Water Forum. 2015. The Lower American River Modified Flow Management Standard: A Drought Buffer for the Environment and Local Water Supplies. The Sacramento Water Forum. October 2015. Available: https://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/exhibits/docs/petitioners_exhibit/dwr/dwr_915.pdf. Accessed October 5, 2023.
- Schraml, C. M. and C. D. Chamberlain. 2019a. Brood Year 2014 Juvenile Salmonid Monitoring in Clear Creek, California. USFWS Report. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, CA.
- Schraml, C. M. and C. D. Chamberlain. 2019b. Brood Year 2015 Juvenile Salmonid Monitoring in Clear Creek, California. USFWS Report. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, CA.
- Schraml, C. M. and C. D. Chamberlain. 2020. Brood Year 2016 Juvenile Salmonid Monitoring in Clear Creek, California. USFWS Report. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, California.
- Schraml, C. M., and C. D. Chamberlain. 2021. Brood Year 2018 Juvenile Salmonid Monitoring in Clear Creek, California. USFWS Report. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, California.

- Schraml, C. M., J. T. Earley, and C. D. Chamberlain. 2018. *Brood Year 2011 Juvenile Salmonid Monitoring in Clear Creek, California*. U.S. Fish and Wildlife Service Report. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, CA.
- Shilling, F., A. Negrette, L. Biondi, and S. Cardenas. 2014. California Tribes Fish-Use: Final Report. A Report for the State Water Resources Control Board and the US Environmental Protection Agency. Agreement # 11-146-250 between SWRCB and UC Davis. July.
- Scott, W. B., and E. J. Crossman. 1973. *Freshwater Fishes of Canada*. Fisheries Research Board of Canada, Ottawa. Bulletin No. 184. 966 pp.
- Snider, B., and R. G. Titus. 2000a. *Timing, Composition, and Abundance of Juvenile Anadromous salmonid Emigration in the Sacramento River near Knights Landing, October 1996–September 1997*. California Department of Fish and Wildlife, Habitat Conservation Division, Stream Evaluation Program Technical Report No. 00-04.
- Snider, B., and R. G. Titus. 2000b. *Timing, Composition, and Abundance of Juvenile Anadromous salmonid Emigration in the Sacramento River near Knights Landing, October 1997–September 1998*. California Department of Fish and Wildlife, Habitat Conservation Division, Stream Evaluation Program Technical Report No. 00-05.
- Snider, B., and R. G. Titus. 2000c. *Timing, Composition, and Abundance of Juvenile Anadromous salmonid Emigration in the Sacramento River near Knights Landing, October 1998–September 1999*. California Department of Fish and Wildlife, Habitat Conservation Division, Native Anadromous Fish and Watershed Branch, Stream Evaluation Program Technical Report No. 00-6.
- Snider, B., and R. Titus. 2002. *Lower American River Emigration Survey October 1998–September 1999*. California Department of Fish and Wildlife, Habitat Conservation Division, Stream Evaluation Program.
- Snyder, J. O. 1931. *Salmon of the Klamath River, California*. California Department of Fish and Wildlife. *Fish Bulletin* 34. 130 pp.
- Sommer, T. C., Mejia, F., Nobriga, M. L., Feyrer, F., and L. Grimaldo. 2011. The Spawning Migration of Delta Smelt in the Upper San Francisco Estuary. *San Francisco Estuary and Watershed Science* 9(2). John Muir Institute of the Environment, University of California, Davis. Available: <http://escholarship.org/uc/item/86m0g5sz>.
- Sommer, T., and F. Mejia. 2013. A Place to Call Home: A Synthesis of Delta Smelt Habitat in the Upper San Francisco Estuary. *San Francisco Estuary and Watershed Science* 11(2). Available: <https://escholarship.org/uc/item/32c8t244>.
- Speegle, J., J. Kirsch, and J. Ingram. 2013. *Annual report: Juvenile Fish Monitoring During the 2010 and 2011 Field Seasons within the San Francisco Estuary, California*. Stockton Fish and Wildlife Office.

- Stanislaus River Fish Group. 2004. *A Summary of Fisheries Research in the Lower Stanislaus River*. Working Draft. March.
- Stanley, C. E., R. J. Bottaro, and L. A. Earley. 2020. *Monitoring adult Chinook Salmon, Rainbow Trout, and Steelhead in Battle Creek, California, from March through November 2019*. U.S. Fish and Wildlife Service Report. U.S. Fish and Wildlife Service, Red Bluff Fish and Wildlife Office, Red Bluff, CA.
- State Water Resources Control Board. 2015. *Response from U.S. Bureau of Reclamation on New Melones Operations*. Email from Ronald Milligan (Bureau of Reclamation) to Tom Howard (State Water Resources Control Board) with *attachments*. April. Available: http://www.waterboards.ca.gov/waterrights/water_issues/programs/drought/tucp/index.shtml.
- Steel, A. E., M. J. Thomas, and A. P. Klimley. 2018. Reach specific use of spawning habitat by adult green sturgeon (*Acipenser medirostris*) under different operation schedules at Red Bluff Diversion Dam. *Journal of Applied Ichthyology* 35(1):1-8.
- Stewart, J.D., J.W. Durban, H. Fearnbach, L. G. Barrett-Lennard, P.K. Casler, E.J Ward, D.R. Dapp. 2021. Survival of the Fattest: Linking Body Condition to Prey Availability and Survivorship of Killer Whales. *Ecosphere*. 12: e03660.
- Surface Water Resources. 2001. *Aquatic Resources of the Lower American River: Baseline Report*. Draft Report. Prepared for the Lower American River Fisheries and Instream Habitat Working Group.
- Tehama-Colusa Canal Authority. 2008. Fishery Resources, Appendix B. *In Fish Passage Improvement Project at the Red Bluff Diversion Dam Environmental Impact Statement/Environmental Impact Report*. Prepared by CH2M HILL, State Clearinghouse No. 2002-042-075.
- U.S. Fish and Wildlife Service. 1997. *Klamath River (Iron Gate Dam to Seiad Creek), Life Stage Periodicities for Chinook, Coho, and Steelhead*. Coastal California Fish and Wildlife Office, Arcata, CA. July.
- U.S. Fish and Wildlife Service. 2003. *Flow-Habitat Relationships for Steelhead and Fall, Late-Fall and Winter-Run Chinook Salmon Spawning in the Sacramento River Between Keswick Dam and Battle Creek*. Prepared by the Energy Planning and Instream Flow Branch.
- U.S. Fish and Wildlife Service. 2008. *Steelhead and Late-fall Chinook Salmon Redd Surveys on Clear Creek, California 2008, Annual Report*. Red Bluff, CA. December.
- U.S. Fish and Wildlife Service. 2011a. *Biological Assessment of Artificial Propagation at Coleman National Fish Hatchery and Livingston Stone National Fish Hatchery: Program Description and Incidental Take of Chinook Salmon and Steelhead*. July.
- U.S. Fish and Wildlife Service. 2011b. *Flow-Habitat Relationships for Fall-run Chinook Salmon and Steelhead/Rainbow Trout Spawning in Clear Creek between Clear Creek Road and the Sacramento River*.

- U.S. Fish and Wildlife Service. 2015. *Clear Creek Synthesis Report*, Anadromous Fish Restoration Program. Sacramento, CA. January.
- U.S. Fish and Wildlife Service. 2016. Hatchery and Genetic Management Plan - Sacramento River Winter Chinook Salmon. U.S. Fish and Wildlife Service. Livingston Stone National Fish Hatchery - Integrated Recover Supplementation Program. Red Bluff, CA.
- Van Eenennaam, J. P., J. Linares-Casenave, X. Deng, and S. I. Doroshov. 2005. Effect of Incubation Temperature on Green Sturgeon Embryos, *Acipenser medirostris*. *Environmental Biology of Fishes* 72:145–154.
- Vogel, D. A. 2008. *Evaluation of Adult sturgeon Migration at the Glenn-Colusa Irrigation District Gradient Facility on the Sacramento River*.
- Vogel, D. A., and K. R. Marine. 1991. *Guide to Upper Sacramento Chinook salmon Life History*. Report to Bureau of Reclamation, Central Valley Project. CH2M Hill, Redding, CA. 55 pp.
- Ward, E. J., E. E. Holmes, and K. C. Balcomb. 2009. Quantifying the effects of prey abundance on killer whale reproduction. *J. Appl. Ecol.* 46:632–640.
- Ward, E. J., M. J. Ford, R. G. Kope, J. K. B. Ford, L. A. Velez-Espino, C. K. Parken, L. W. LaVoy, M. B. Hanson, and K. C. Balcomb. 2013. *Estimating the Impacts of Chinook Salmon Abundance and Prey Removal by Ocean Fishing on Southern Resident Killer Whale Population Dynamics*. U.S. Department of Commerce, NOAA Technical Memorandum, NMFS-NWFSC-123. 71 pp. Available: <https://repository.library.noaa.gov/view/noaa/4527>.
- Wasser, S. K., J. I. Lundin, K. Ayres, E. Seely, D. Giles, K. Balcomb, J. Hempelmann, K. Parsons, and R. Booth. 2017. Population growth is limited by nutritional impacts on pregnancy success in endangered Southern Resident killer whales (*Orcinus orca*). *PLoS One* 12: e0179824.
- Water Forum. 2022. Habitat Projects at Nimbus Basin and Lower Sailor Bar. 2022 Habitat Projects Fact Sheet. Water Forum. Sacramento, CA.
- Williams, J. G. 2001. Chinook salmon in the Lower American River, California's Largest Urban Stream. Contributions to the Biology of Central Valley salmonids. R. L. Brown (ed.). *California Department of Fish and Wildlife Fish Bulletin* 179(2): 1–38.
- Williams, J.G. 2006. Central Valley Salmon: A perspective on Chinook and steelhead in the Central Valley of California'. *San Francisco Estuary and Watershed Science* 4(3). DOI: <https://doi.org/10.15447/sfewes.2006v4iss3art2>.
- Winder, M. and A. D. Jassby. 2011. Shifts in Zooplankton Community Structure: Implications for Food Web Processes in the Upper San Francisco Estuary. *Estuaries and Coasts* 34:675–690. Available: <https://doi.org/10.1007/s12237-010-9342-x>.

Yoshiyama, R. M., E. R. Gerstung, F. W. Fisher, and P. B. Moyle. 1996. *Historical and Present Distribution of Chinook salmon in the Central Valley Drainage of California*. Sierra Nevada Ecosystem Project: Final Report to Congress, Vol. III, Assessments, Commissioned Reports, and Background Information. University of California, Davis, Centers for Water and Wildland Resources.

Yurok Tribal Fisheries Program. 1998. *Yurok Elder Interviews: Eulachon and Lamprey*. Internal Report.

Zimmerman, C. E., G. W. Edwards, and K. Perry. 2009. Maternal Origin and Migratory History of Steelhead and Rainbow Trout Captured in Rivers of the Central Valley, California. *Transactions of the American Fisheries Society* 138:280–291.

B.13.1 Personal Communications

Beccio, Marc. Environmental Scientist. California Department of Fish and Wildlife, Rancho Cordova, CA. August 19, 2021. Email with unpublished green sturgeon juvenile tagging and monitoring in the Bay Delta, provided to Sophie Unger, ICF, Sacramento, CA.

B.14 Chapter 13: Terrestrial Biological Resources

Agha, M., C.B. Yackulic, M.K. Riley, B. Peterson, and B.D. Todd. 2020. Brackish tidal marsh management and the ecology of a declining freshwater turtle. *Environ Manage.* 66(4):644–653. Available at: <https://doi.org/10.1007/s00267-020-01326-0>.

Bank Swallow Technical Advisory Committee. 2013. *Bank Swallow (Riparia riparia) Conservation Strategy for the Sacramento River Watershed, California*. June.

Bureau of Reclamation, California Department of Fish and Game, and U.S. Fish and Wildlife Service. 2011. *Suisun Marsh Habitat Management, Preservation, and Restoration Plan Final Environmental Impact Statement/Environmental Impact Report*. November.

California Bay-Delta Authority. 2004. *Environmental Water Program Pilot Flow Augmentation Project: Concept Proposal for Flow Acquisition on Lower Clear Creek*. August.

California North Coast Regional Water Quality Control Board and Bureau of Reclamation. 2009. *Channel Rehabilitation and Sediment Management for Remaining Phase 1 and Phase 2 Sites. Draft Master Environmental Impact Report and Environmental Assessment*. June.

California North Coast Regional Water Quality Control Board, Bureau of Reclamation, and Bureau of Land Management. 2013. *Trinity River Channel Rehabilitation Sites: Bucktail, (River Mile 105.3-106.35) and Lower Junction City (River Mile 78.8-79.8). Draft Environmental Assessment/Initial Study*. December.

- Goodwin Power. 2013. *Submittal to Federal Energy Regulatory Commission by American Renewables, LLC. Re: Goodwin Dam Hydroelectric Project. Transmittal of Notification of Intent and Pre-Application Document, Request for Comments*. FERC Project No. 13728. October.
- Hayes, M. P., C. A. Wheeler, A. J. Lind, G. A. Green, and D. C. Macfarlane (Technical Coordinators). 2016. Foothill yellow-legged frog conservation assessment in California. Gen. Tech. Rep. PSW-GTR-248. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 193 p.
- Hickson, D., and T. Keeler-Wolf. 2007. *Vegetation and Land Use Classification and Map of the Sacramento-San Joaquin River Delta*. February.
- Paquin, Melanie M, G.D. Wylie & E.J. Routman. 2006. *Population structure of the giant garter snake, *Thamnophis gigas**. *Conservation Genetics* 7:25-36. 12 pp.
- San Francisco Estuary Institute—Aquatic Science Center. 2012. *Sacramento-San Joaquin Delta Historical Ecology Investigation: Exploring Pattern and Process*. Prepared for the California Department of Fish and Game and Ecosystem Restoration Program. Historical Ecology Program Publication No. 672. August.
- Stillwater Sciences. 2007. *Linking Biological Responses to River Processes: Implications for Conservation and Management of the Sacramento River*. Final. Chapter 7: Bank Swallow. November. Berkeley, CA. Prepared for The Nature Conservancy, Chico, California.
- U.S. Department of Agriculture. 2024. National Agricultural Statistics Service Quick Stats. Accessed March 13, 2024.
- U.S. Fish and Wildlife Service. 2012. *Giant Garter Snake (*Thamnophis gigas*) Five-Year Review: Summary and Evaluation*. U.S. Fish and Wildlife Service, Sacramento Fish and Wildlife Office, Sacramento, California.
- U.S. Fish and Wildlife Service. 2020. *Giant Garter Snake (*Thamnophis gigas*) Five-Year Review: Summary and Evaluation*. U.S. Fish and Wildlife Service, Sacramento Fish and Wildlife Office, Sacramento, California.
- U.S. Fish and Wildlife Service. 2023a. *Species Status Assessment Report for Northwestern Pond Turtle (*Actinemys marmorata*) and Southwestern Pond Turtle (*Actinemys pallida*)*. Version 1.1. Ventura Fish and Wildlife Office, U.S. Fish and Wildlife Service, Ventura, CA.
- U.S. Fish and Wildlife Service. 2023b. *Species Status Assessment Report for the Foothill Yellow-legged Frog (*Rana boylii*)*. Version 2.11. Sacramento Fish and Wildlife Office, U.S. Fish and Wildlife Service, Sacramento, CA.

B.15 Chapter 14: Regional Economics

California Department of Food and Agriculture. 2022. California Agricultural Statistics Review 2021–2022. Sacramento, CA. Available: https://www.cdfa.ca.gov/Statistics/PDFs/2022_Ag_Stats_Review.pdf. Accessed: March 27, 2023.

National Oceanic and Atmospheric Administration Fisheries. 2023. Sustainable Seafood: Understanding Sustainable Seafood. Available: <https://www.fisheries.noaa.gov/topic/sustainable-seafood/understanding-sustainable-seafood>. Accessed: March 27, 2023.

Pacific Fishery Management Council. 2022. Review of 2021 Ocean Salmon Fisheries: Stock Assessment and Fishery Evaluation Document for the Pacific Coast Salmon Fishery Management Plan. February 15, 2022. Available: <https://www.pcouncil.org/documents/2022/02/review-of-2021-ocean-salmon-fisheries.pdf/>. Accessed: March 27, 2023.

B.16 Chapter 15: Land Use and Agricultural Resources

No references cited.

B.17 Chapter 16: Recreation

B.18 References

American Whitewater. 2023. *San Joaquin – Friant Dam to Mendota Pool Dam*. July 2. Available: <https://www.americanwhitewater.org/content/River/detail/id/4632/>. Accessed: March 18, 2023.

Bureau of Land Management. n.d. *Clear Creek Greenway, Swasey Recreation Area, and Mule Ridge Trails*. Available: http://www.horsetownclearcreekpreserve.org/index_htm_files/Clear_Creek_Greenwy_Map.pdf. Accessed: March 24, 2023.

Bureau of Reclamation. 2010. *New Melones Lake Area, Final Resource Management Plan and Environmental Impact Statement*. February. Available: https://www.usbr.gov/mp/nepa/nepa_project_details.php?Project_ID=2536. Accessed: March 23, 2023.

Bureau of Reclamation and California Department of Water Resources. 2011. *San Joaquin River Restoration Program Environmental Impact Statement/Environmental Impact Report*. April. Available: https://www.usbr.gov/mp/nepa/nepa_project_details.php?Project_ID=2940. Accessed: March 20, 2023.

Delta Protection Commission. 2012a. *Economic Sustainability Plan for the Sacramento-San Joaquin Delta*. January. Available: <https://delta.ca.gov/wp-content/uploads/2021/05/Delta-Economic-Sustainability-Plan-2012-508.pdf>. Accessed: February 16, 2019.

Pacific Fishery Management Council. 2023. *Review of 2022 Ocean Salmon Fisheries*. February. Available: <https://www.pcouncil.org/documents/2023/02/review-of-2022-ocean-salmon-fisheries.pdf>. Accessed: March 24, 2023.

Sacramento River Watershed Project. 2023a. *Clear Creek Watershed, Life in the Watershed*. Available: <https://sacriver.org/explore-watersheds/westside-subregion/clear-creek-watershed/>. Accessed: August 7, 2023.

Sacramento River Watershed Project. 2023b. *The Sacramento Valley Subregion, The Watershed At A Glance*. Available: <https://sacriver.org/explore-watersheds/sacramento-valley-subregion/>. Accessed: March 21, 2023.

B.19 Chapter 17: Environmental Justice

Cha, P. and J. Collins. 2022. *Health Care Access among California's Farmworkers*. Public Policy Institute of California. Available: <https://www.ppic.org/publication/health-care-access-among-californias-farmworkers/>. Accessed: March 1, 2023.

U.S. Census Bureau. 2023a. *2017-2021 American Community Survey DP05, ACS Demographic and Housing Estimates*. Available: <https://data.census.gov/>. Accessed: February 27, 2023.

U.S. Census Bureau. 2023b. *2017-2021 American Community Survey B17001, Poverty Status in the Past 12 Months by Sex by Age*. Available: <https://data.census.gov/>. Accessed: February 27, 2023.

B.20 Chapter 18: Power

Bureau of Reclamation. 2021. *Hydropower Program, Hydroelectric Powerplants Listed by Capacity*. Available: <https://www.usbr.gov/power/data/fac/cap.html>. Accessed March 7, 2023.

California Department of Water Resources. 2017. *Management of the California State Water Project. Bulletin 132-16*. June.

California Department of Water Resources. 2022. *Management of the California State Water Project Bulletin 132-2019*. December. Available: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Management/Bulletin-132/Bulletin-132/Files/Bulletin-132-19-020323.pdf>. Accessed: August 17, 2023.

California Energy Commission. 2023. *Data on Renewable Energy Markets and Resources, Hydroelectricity, List of Hydroelectric Power Plants in California*. Available: <https://www.energy.ca.gov/media/180>. Accessed: March 22, 2023.

Western Area Power Administration. 2020. *2025 Base Resource Allocations*. Updated September 12, 2020. Available: <https://www.wapa.gov/wp-content/uploads/2023/04/2025-BR-Allocations.pdf>. Accessed: February 15, 2024.

Western Area Power Administration. 2021. SN Energy Imbalance Market Activities. Available: <https://www.wapa.gov/about-wapa/regions/sn/sn-power-marketing/western-eim/>. Accessed: February 15, 2024.

Western Area Power Administration. 2023. *About Sierra Nevada*. Available: <https://www.wapa.gov/project/sierra-nevada-region/>. Accessed: February 15, 2024.

Western Area Power Administration. 2024. Sierra Nevada Region Fiscal year 2024 Rates. Available: <https://www.wapa.gov/wp-content/uploads/2023/09/current-rates.pdf>. Accessed: March 11, 2024.

Western Energy Imbalance Market. 2024. Western Energy Imbalance Market, How it Works. Available: <https://www.westerneim.com/Pages/About/HowItWorks.aspx>. Accessed: March 11, 2024.

B.21 Chapter 19: Hazards and Hazardous Materials

No references cited.

B.22 Chapter 20: Geology and Soils

No references cited.

B.23 Chapter 21: Public Health and Safety

Alpers C., C. Eagles-Smith, S. Foe, M. Klasing, D. Marvin-DiPasquale, L. Slotton, and L. Winham-Myers. 2008. *Mercury Conceptual Model. Sacramento (CA): Delta Regional Ecosystem Restoration Implementation Plan*. Available: http://www.science.calwater.ca.gov/pdf/drerip/drerip_mercury_conceptual_model_final_012_408.pdf. Accessed: March 22, 2019.

Berg, M. and M. Sutula. 2015. *Factors Affecting the Growth of Cyanobacteria with Special Emphasis on the Sacramento-San Joaquin Delta*. Prepared for the Central Valley Regional Water Quality Control Board and the State Water Resources Control Board. Agreement Number 12-135-250. Southern California Coastal Water Research Project Technical Report 869.

California Division of Occupational Safety and Health. 2017. *Protection from Valley Fever*. Available: <https://www.dir.ca.gov/dosh/valley-fever-home.html>. Accessed: April 25, 2019.

- Centers for Disease Control and Prevention. 2019. *Valley Fever (Coccidioidomycosis)*. Available: <https://www.cdc.gov/fungal/diseases/coccidioidomycosis/index.html>. Accessed: February 24, 2019.
- Central Valley Regional Water Quality Control Board. 2010. Amendments to the Water Quality Control Plan for the Sacramento River and San Joaquin River Basins for the Control of Methylmercury and Total Mercury in the Sacramento-San Joaquin Delta Estuary. Final Staff Report. April. Available: https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/archived_delta_hg_info/april_2010_hg_tmdl_hearing/apr2010_bpa_staffrpt_final.pdf. Accessed: March 22, 2019.
- Central Valley Regional Water Quality Control Board (Central Valley Board). 2019. *Nonpoint Source 319(H) Program Cyanobacteria and Harmful Algal Blooms Evaluation Project Harmful Algal Bloom Primer*. November. Available: https://www.waterboards.ca.gov/centralvalley/water_issues/nonpoint_source/harmful_algal_blooms/final_hab_primer.pdf. Accessed: January 8, 2024.
- Interstate Technology Regulatory Council (ITRC). 2021. *Cyanotoxins*. From: Strategies for Preventing and Managing Benthic Harmful Cyanobacterial Blooms (HCB-2). Available: <https://hcb-2.itrcweb.org/cyanotoxins/>. Accessed: March 6, 2024.
- Lehman, P.W., K. Marr, G.L. Boyer, S. Acuna, and S.J. Teh. 2013. Long-term trends and causal factors associated with Microcystis abundance and toxicity in San Francisco Estuary and implications for climate change impacts. *Hydrobiologia* 718:141-158.
- State Water Resources Control Board. 2017. Draft Staff Report for Scientific Peer Review for the Amendment to the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California, Mercury Reservoir Provisions—Mercury TMDL and Implementation Program for Reservoirs. Available: https://www.waterboards.ca.gov/water_issues/programs/mercury/reservoirs/. Does not include tables or appendices. Accessed: February 16, 2023.
- U.S. Environmental Protection Agency. 2019b. Recommended Human Health Recreational Ambient Water Quality Criteria or Swimming Advisories for Microcystins and Cylindrospermopsin. EPA 822-R-19-001. May. Available at: <chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.epa.gov/sites/default/files/2019-05/documents/hh-rec-criteria-habs-document-2019.pdf>. Accessed: January 7, 2024.
- U.S. Geological Survey. 2014. *Mercury in the Nation's Streams—Levels, Trends, and Implications*. Circular 1395. Prepared by D. A. Wentz, M. E. Brigham, L. C. Chasar, M. A. Lutz, and D. P. Krabbenhoft.

B.24 Chapter 22: Resources Not Analyzed

No references cited.

B.25 Chapter 23: Other NEPA Considerations

No references cited.