



Programmatic Environmental Impact Statement

High-Voltage Transmission Facilities in Washington

Chapter 6 - References

October 2025

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6.0 Chapter 6 – References

Note: Electronic sources were consulted on the access dates provided; web addresses and web-based information are subject to change.

6.1 Executive Summary

EFSEC (Washington Energy Facility Site Evaluation Council). 2022a. Transmission Corridors Work Group Cover Letter. October 31, 2022. Accessed November 8, 2024. https://www.efsec.wa.gov/sites/default/files/181034/20221031_TCWG%20Cover%20Letter%20from%20EFSEC%20Chair_GovInslee.pdf

EFSEC (Washington Energy Facility Site Evaluation Council). 2022b. Transmission Corridors Work Group Final Report. Accessed November 8, 2024. https://www.efsec.wa.gov/sites/default/files/181034/Final_TCWG_Report%20_2022_0801.pdf

6.2 Chapter 1 – Introduction

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed February 1, 2025. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

BLM (Bureau of Land Management). 2024. Section 368 Energy Corridor Revisions Scoping Summary Report. Accessed February 1, 2025. https://eplanning.blm.gov/public_projects/2022227/200537494/20107548/251007548/Corridors%20EIS%20Scoping%20Report_508compliant.pdf

BLM (Bureau of Land Management). Not dated. Section 368 Energy Corridors Environmental Impact Statement and Resource Management Plan Amendments Frequently Asked Questions. Accessed February 1, 2025. https://eplanning.blm.gov/public_projects/2022227/200537494/20100789/251000789/EVS_Section%20368%20Corridor%20EIS%20FAQ_R5.pdf

Programmatic Environmental Impact Statement

- BPA (Bonneville Power Administration). 2017. I-5 Corridor Reinforcement Project (DOE/EIS-0436). Accessed February 1, 2025. <https://www.bpa.gov/learn-and-participate/public-involvement-decisions/project-reviews/i-5-corridor-project>
- BPA (Bonneville Power Administration). 2023. South of Tri-Cities Reinforcement Project. Accessed February 1, 2025. <https://www.bpa.gov/learn-and-participate/public-involvement-decisions/project-reviews/south-of-tri-cities>
- City of Bellevue. 2018. Final Environmental Impact Statement, Energize Eastside Project. Accessed November 1, 2024. https://bellevuewa.gov/sites/default/files/media/pdf_document/DSD%20005391%20-%20005841%20%255BEnergizeEastside_FinalEIS_Vol%201%255D.pdf
- DOE (U.S. Department of Energy). 2003. Final Environmental Assessment and Finding of No Significant Impact: Raymond–Cosmopolis Transmission Line Rebuild Project (DOE/EA-1425). Accessed September 4, 2025. <https://www.energy.gov/sites/default/files/2020/03/f72/final-ea-1425-fonsi-map-raymond-cosmopolis-2003.pdf>
- DOE (U.S. Department of Energy). 2011. Final Environmental Assessment and Finding of No Significant Impact: Bandon–Rogue Transmission Line Rebuild Project (DOE/EA-1739). Accessed September 4, 2025. <https://www.energy.gov/sites/default/files/nepapub/documents/EA-1739-FEA-2011.pdf>
- DOE (U.S. Department of Energy). 2019. Final Environmental Assessment: Rebuild of 12.6 Miles of the Benton–Othello Switching Station 115 kV Electrical Transmission Line, Hanford Site, Washington (DOE/EA-2038). Accessed September 4, 2025. <https://www.energy.gov/sites/default/files/2019/08/f65/final-ea-2038-benton-othello-2019-07.pdf>
- DOE (U.S. Department of Energy). 2025. Final Environmental Assessment: Big Eddy–Ostrander Conductor Replacement Project (DOE/EA-2287). Accessed September 4, 2025. https://www.energy.gov/sites/default/files/2025-07/final-ea-2287-big-eddy-2025-07_0.pdf
- DOI (U.S. Department of the Interior). 2016. Final Environmental Impact Statement for the Vantage to Pomona Heights 230 kV Transmission Line Project. Accessed February 1, 2025. https://www.energy.gov/sites/default/files/2016/10/f33/EIS-0505_FEIS_Summary-2016.pdf

Programmatic Environmental Impact Statement

- Ecology (Washington State Department of Ecology). 2006a. Wetland Mitigation in Washington State Part 1: Agency Policies and Guidance. Accessed February 1, 2025. <https://apps.ecology.wa.gov/publications/documents/0606011a.pdf>
- Ecology (Washington State Department of Ecology). 2006b. Wetland Mitigation in Washington State Part 2: Best Management Practices. <https://wsdot.wa.gov/sites/default/files/2021-10/part2-bestmanagementpractices-regionalroadmaintenance.pdf>
- Ecology (Washington State Department of Ecology). 2018. State Environmental Policy Act Handbook. Accessed November 1, 2024. <https://ecology.wa.gov/getattachment/4c9fec2b-5e6f-44b5-bf13-b253e72a4ea1/2-2018-SEPA-Handbook-Update.pdf>
- Ecology (Washington State Department of Ecology). 2024. Stormwater Management Manuals. Accessed February 1, 2025. <https://ecology.wa.gov/regulations-permits/guidance-technical-assistance/stormwater-permittee-guidance-resources/stormwater-manuals>
- Ecology (Washington State Department of Ecology). Not dated. Lead Agency Determination and Responsibilities. Accessed November 1, 2024. <https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/guide-for-lead-agencies/lead-agency-determination-and-responsibilities>
- EFSEC (Washington Energy Facility Site Evaluation Council). 2019. Certification Process. Accessed November 8, 2024. <https://www.efsec.wa.gov/about-efsec/certification-process>
- EFSEC (Washington Energy Facility Site Evaluation Council). 2022a. Transmission Corridors Work Group Cover Letter. October 31, 2022. Accessed November 8, 2024. https://www.efsec.wa.gov/sites/default/files/181034/20221031_TCWG%20Cover%20Letter%20from%20EFSEC%20Chair_GovInslee.pdf
- EFSEC (Washington Energy Facility Site Evaluation Council). 2022b. Transmission Corridors Work Group Final Report. Accessed November 8, 2024. https://www.efsec.wa.gov/sites/default/files/181034/Final_TCWG_Report%20_2022_0801.pdf

Programmatic Environmental Impact Statement

- NWPCC (Northwest Power and Conservation Council). 2025. Transmission. Accessed February 1, 2025. <https://www.nwcouncil.org/reports/columbia-river-history/transmission/> PacifiCorp. 2023. 2023 Integrated Resource Plan Volume I. Accessed February 1, 2025. https://www.pacificorp.com/content/dam/pcorp/documents/en/pacificorp/energy/integrated-resource-plan/2023-irp/2023_IRP_Volume_I.pdf
- PSE (Puget Sound Energy). Not dated. Energize Eastside is Energized - Thank You! Accessed February 1, 2025. <https://www.pse.com/en/pages/pse-projects/energize-eastside-transmission-line-project>.
- Tri-Cities Area Journal of Business. 2024. BPA's Plans Aim to Support Growing Tri-Cities' Economy. Accessed February 1, 2025. <https://www.tricitiesbusinessnews.com/articles/hairston-2024>
- WDFW (Washington Department of Fish and Wildlife). 2020. Riparian Ecosystems, Volume 2: Management Recommendations. Accessed February 1, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01988/wdfw01988.pdf>
- WECC (Western Electricity Coordinating Council). 2024. Western Assessment of Resource Adequacy. Accessed February 1, 2025. <https://feature.wecc.org/wara/#group-section-Summary-eSoUDW1Hw8>
- WSDOT (Washington State Department of Transportation). 2018. Best Management Practices Field Guide for ESA Habitat Protection. Accessed February 1, 2025. <https://wsdot.wa.gov/sites/default/files/2021-10/bestmanagementpracticesfieldguideregionalroadmaintenance.pdf>
- WSDOT (Washington State Department of Transportation). Not dated. Regional Road Maintenance Best Management Practices (Part 2). Accessed February 1, 2025. <https://wsdot.wa.gov/sites/default/files/2021-10/part2-bestmanagementpractices-regionalroadmaintenance.pdf>

6.3 Chapter 2 – Overview of Transmission Facilities, Development Considerations, and Regulations

Adirondack Explorer. 2024. Lake Champlain Power Cables Set to Be Installed This Summer. May 15, 2024. Accessed November 1, 2024.

<https://www.adirondackexplorer.org/stories/lake-champlain-power-cable-line-work-begins>

AEP Transmission. Not dated. A Safe and Reliable Power Grid. Accessed December 1, 2024. https://aeptransmission.com/dist/docs/power-ready-grid/Safe-Reliable-PowerGrid_OnePager_V5.pdf

APLIC (Avian Power Line Interaction Committee). 2012. Reducing Avian Collisions with Power Lines: The State of the Art in 2012. October 2012. Accessed February 1, 2025. https://www.aplic.org/uploads/files/15518/Reducing_Avian_Collisions_2012watermarkLR.pdf

Babcock & Brown. 2007. Trans Bay Cable Project Presentation to Board of Governors. Accessed November 1, 2024. https://www.caiso.com/documents/070418_briefingontransbaycableproject_presentation_originalpresentation.pdf

BPA (Bonneville Power Administration). 2021. Vegetation Management Takes to the Skies with Helicopter Tree Trimming. November 9, 2021. Accessed December 1, 2024. <https://www.bpa.gov/about/newsroom/news-articles/2021/20211109-vegetation-management-takes-to-the-skies-with-helicopter-tree-trimming>

City of Portland. Not dated. Horizontal Directional Drilling (HDD). Accessed November 1, 2024. <https://www.portland.gov/bes/improvements/methods/horizontal-directional-drilling>

CPUC (California Public Utilities Commission). 2014a. Transmission System Components. Accessed November 1, 2024. https://ia.cpuc.ca.gov/environment/info/aspen/cltp/archive/files_8_26_14/_3TransmissionComponentsFactSheet.pdf

Programmatic Environmental Impact Statement

- CPUC (California Public Utilities Commission). 2014b. Transmission Line Construction. Accessed November 1, 2024. https://ia.cpuc.ca.gov/environment/info/aspen/cltp/archive/files_8_26_14/_5transmissionlineconstructionfactsheet.pdf
- DOE (U.S. Department of Energy). 2015. Quadrennial Technology Review 2015. Enabling Modernization of the Electric Power System: Transmission and Distribution Components, Chapter 3F. Accessed December 1, 2024. https://www.energy.gov/sites/prod/files/2015/09/f26/QTR2015-3F-Transmission-and-Distribution_1.pdf
- DOE (U.S. Department of Energy). 2020. Advanced Transmission Technologies. Accessed November 1, 2024. <https://www.energy.gov/sites/prod/files/2021/02/f82/Advanced%20Transmission%20Technologies%20Report%20-%20final%20as%20of%2012.3%20-%20FOR%20PUBLIC.pdf>
- DOE (U.S. Department of Energy). 2023a. How It Works: Electric Transmission & Distribution and Protective Measures. November 2023. Accessed February 1, 2025. https://www.energy.gov/sites/default/files/2023-11/FINAL_CESER%20Electricity%20Grid%20Backgrounder_508.pdf
- DOE (U.S. Department of Energy). 2023b. National Transmission Needs Study. October 2023. Accessed November 1, 2024. https://www.energy.gov/sites/default/files/2023-12/National%20Transmission%20Needs%20Study%20-%20Final_2023.12.1.pdf
- EFSEC (Washington Energy Facility Site Evaluation Council). 2024. State Environmental Policy Act Scoping Document. For Programmatic Environmental Impact Statement on Transmission Facilities in Washington State. June 2024. Accessed December 1, 2024. https://www.efsec.wa.gov/sites/default/files/181034/scoping/20240628_Scoping%20Memo.pdf
- EIA (U.S. Energy Information Administration). 2012. Power Outages Often Spur Questions Around Burying Power Lines. July 25, 2012. Accessed November 1, 2024. <https://www.eia.gov/todayinenergy/detail.php?id=7250>
- FAA (Federal Aviation Administration). Not dated. Section 2. Air Navigation and Obstruction Lighting. Aeronautical Lighting and Other Airport Visual Aids. Accessed November 1, 2024. https://www.faa.gov/air_traffic/publications/atpubs/aim_html/chap2_section_2.html

Programmatic Environmental Impact Statement

- FDOT (Florida Department of Transportation). 2010. Standard Specifications for Road and Bridge Construction. Accessed November 1, 2024. <https://www.fdot.gov/docs/default-source/programmanagement/Implemented/Specbooks/2010/Files/2010Master.pdf>
- FERC (Federal Energy Regulatory Commission). 2023. Transmission Line Vegetation Management. Last updated November 17, 2023. Accessed February 1, 2025. <https://www.ferc.gov/transmission-line-vegetation-management>
- GAO (U.S. Government Accountability Office). 2022. Securing the U.S. Electricity Grid from Cyberattacks. Accessed May 14, 2024. <https://www.gao.gov/blog/securing-u.s.-electricity-grid-cyberattacks>
- Grid Lab. 2024. Reconductoring with Advanced Conductors Can Accelerate the Rapid Transmission Expansion Required for a Clean Grid. April 2024. Accessed December 1, 2024. https://www.2035report.com/wp-content/uploads/2024/06/GridLab_2035-Reconductoring-Technical-Report.pdf
- Hair, J. 2015. PR-277-144507-Z01 Installation of Pipelines by Horizontal Directional Drilling. September 23, 2015. Accessed November 1, 2024. <http://doi.org/10.55274/R0010542>
- National Grid. 2023. River Ouse – Possible Installation Methods for Underground Cables. Accessed February 1, 2025. <https://www.nationalgrid.com/document/348826/download>
- NERC (North American Electric Reliability Corporation). 2025. Glossary of Terms Used in NERC Reliability Standards. Accessed July 1, 2025. https://www.nerc.com/pa/stand/glossary%20of%20terms/glossary_of_terms.pdf
- NERC (North American Electric Reliability Corporation). Not dated. Standard TPL-001-4 — Transmission System Planning Performance Requirements. Accessed February 1, 2025. <https://www.nerc.com/pa/Stand/Reliability%20Standards/TPL-001-4.pdf>
- NWPPA (Northwest Public Power Association). Not dated. Helicopter Aided Construction (What to Know for Efficient and Cost-Effective Projects). Accessed December 1, 2024. <https://www.nwppa.org/wp-content/uploads/Helicopter-Aided-Construction-Shane-Watson.pdf>
- Oldcastle Infrastructure. Not dated. 10'x20' Electrical Transmission Vault-Edison. Accessed May 1, 2024. <https://oldcastleinfrastructure.com/product/10x20%E2%80%B2-electrical-transmission-vault-edison/>

Programmatic Environmental Impact Statement

PacifiCorp. 2021. TA-General. Information Standards. Transmission Construction Standards.

Prismecs. 2024. 12 Substation Protection Equipment You Must Recognize. February 11, 2024. Accessed February 1, 2025. <https://prismecs.com/blog/12-substation-protection-equipment-you-must-recognize#:~:text=Ans:%20A%20substation%20is%20a,for%20system%20protection%20and%20monitoring>

PRPA (Platte River Power Authority). 2025. Overhead vs. Underground. Accessed February 1, 2025. <https://www.prpa.org/transmission/types/>

PSCW (Public Service Commission of Wisconsin). 2011. Underground Electric Transmission Lines. Accessed November 1, 2024. <https://psc.wi.gov/Documents/Brochures/Under%20Ground%20Transmission.pdf>

PSCW (Public Service Commission of Wisconsin). 2013. Environmental Impacts of Substations. Accessed November 1, 2024. <https://psc.wi.gov/Documents/Brochures/Impacts%20of%20Substations.pdf>

PSE (Puget Sound Energy). 2014. Energize Eastside Underground Transmission Lines Fact Sheet. April 2014. Accessed February 1, 2025. https://energizeeastside2.blob.core.windows.net/media/Default/Library/March11Webinar/Underground_Uilities_FactSheet.pdf

Riverkeeper. 2024. What to Know About Hydropower Cable Installation in the Hudson River. July 17, 2024. Accessed November 1, 2024. <https://www.riverkeeper.org/news-and-events/news-and-updates/what-to-know-about-hydropower-cable-installation-in-the-hudson-river>

USDA (U.S. Department of Agriculture). 2001. Design Guide for Rural Substations. June 2001. Accessed November 1, 2024. https://www.rd.usda.gov/files/UEP_Bulletin_1724E-300.pdf

Xcel Energy. 2024. Overhead vs. Underground: Information about Burying High-Voltage Transmission Lines. May 2024. Accessed November 1, 2024. <https://xcelnew.my.salesforce.com/sfc/p/#1U0000011ttV/a/8b000002ZAgG/fFXdbyR9TgaRcEOrD2SDyGOV57cQCQPLFEXczPQx6cM>

Xcel Energy. Not dated. Right-of-Way, Easements and Encroachments. Accessed July 2025. <https://corporate.my.xcelenergy.com/s/transmission/right-of-way#:~:text=An%20easement%20is%20a%20permanent,and%20may%20not%20be%20approved>

6.4 Chapter 3 – Affected Environment, Significant Impacts, and Mitigation

6.4.1 Section 3.2 – Earth Resources

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024.

<https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

Atwater, B. F., A. R. Nelson, J. J. Clague, et al. 1995. Summary of Coastal Geologic Evidence for Past Great Earthquakes at the Cascadia Subduction Zone. *Earthquake Spectra* 11:1–18.

Atwater, B. F., M. R. Satoko, S. Kenji, T. Yoshinobu, U. Kazue, and D. K. Yamaguchi. 2005. The Orphan Tsunami of 1700: Japanese Clues to a Parent Earthquake in North America. USGS Professional Paper 1707.

Brocher, T. M., R. E. Wells, A. P. Lamb, and C. S. Weaver. 2017. Evidence for Distributed Clockwise Rotation of the Crust in the Northwestern United States from Fault Geometries and Focal Mechanisms. *Tectonics* 36(5):787–818.

Cascadia Department of Bioregion. Not dated. The Cascadia Subduction Zone. Accessed August 2, 2024. <https://cascadiabioregion.org/cascadia-subduction-zone>

Programmatic Environmental Impact Statement

- CEATI International (Centre for Energy Advancement through Technological Innovation). Not dated. Guide for Transmission Line Foundations with Least Impact to the Environment. Report No. T153700-33107. Contractor: Peter Kandaris, P.E., DiGioia Gray, Inc. Tempe, Arizona. Accessed November 20, 2024. https://www.cooperative.com/programs-services/bts/documents/reports/91002k_presentation.pdf
- Clague, J. J., P. T. Bobrowsky, and I. Hutchinson. 2000. A Review of Geological Records for Large Tsunamis at Vancouver Island, British Columbia and Implications for Hazard. *Quaternary Science Reviews* 19:849–863.
- DNR (Washington State Department of Natural Resources). 2010. Ground Response. Accessed July 1, 2024. <https://www.dnr.wa.gov/programs-and-services/geology/publications-and-data/gis-data-and-databases>
- DNR (Washington State Department of Natural Resources). 2016. Simplified Volcanic Hazards. Accessed July 1, 2024. <https://www.dnr.wa.gov/programs-and-services/geology/publications-and-data/gis-data-and-databases>
- DNR (Washington State Department of Natural Resources). 2023. Mines and Minerals Database. Accessed July 15, 2024. <https://www.dnr.wa.gov/programs-and-services/geology/publications-and-data/gis-data-and-databases>
- DNR (Washington State Department of Natural Resources). 2024a. Geologic Provinces of Washington. Accessed November 20, 2024. <https://www.dnr.wa.gov/programs-and-services/geology/explore-popular-geology/geologic-provinces-washington>
- DNR (Washington State Department of Natural Resources). 2024b. Earthquakes and Faults. Accessed November 21, 2024. <https://www.dnr.wa.gov/programs-and-services/geology/geologic-hazards/earthquakes-and-faults#what-are-faults-and-earthquakes?.7>
- DNR (Washington State Department of Natural Resources). 2025a. Earthquake and Faults. Accessed July 29, 2025. <https://www.dnr.wa.gov/programs-and-services/geology/publications-and-data/gis-data-and-databases>
- DNR (Washington State Department of Natural Resources). 2025b. Tsunami Zones. Accessed July 28, 2025. <https://www.dnr.wa.gov/programs-and-services/geology/publications-and-data/gis-data-and-databases>

Programmatic Environmental Impact Statement

DNR (Washington State Department of Natural Resources). 2025c. Washington State Landslide Inventory Database (WASLID). Access July 28, 2025.

<https://www.dnr.wa.gov/programs-and-services/geology/publications-and-data/gis-data-and-databases>

EERI and WMDEMD (Earthquake Engineering Research Institute and the Washington Military Department Emergency Management Division). 2005. Scenario for a Magnitude 6.7 Earthquake on the Seattle Fault. Accessed August 7, 2023.

https://mitigation.eeri.org/wp-content/uploads/seattscen_full_book.pdf

Hipple, K. W. Not dated. Washington Soil Atlas. Accessed November 20, 2024.

<https://www.nrcs.usda.gov/sites/default/files/2022-09/Washington%20Soil%20Atlas.pdf>

Huntting, M. T. 1956. Inventory of Washington Minerals; Part II — Metallic Minerals. Washington Division of Mines and Geology Bulletin 37, Part II, 2v.

Kelsey, H. M., A. R. Nelson, E. Hemphill-Haley, and R. Witter. 2005. Tsunami History of an Oregon Coastal Lake Reveals a 4600 Year Record of Great Earthquakes on the Cascadia Subduction Zone. Geological Society of America Bulletin 117:1009–1032.

National Academies Press. 2024. Appendix A Soil Taxonomy. Accessed November 21, 2024. <https://nap.nationalacademies.org/read/4766/chapter/14>

Nelson, A. R., H. M. Kelsey, and R. C. Witter. 2006. Great Earthquakes of Variable Magnitude at the Cascadia Subduction Zone. Quaternary Research 65:354–365.

Norman, D. K. 2000. Mining Regulations in Washington: Washington Division of Geology and Earth Resources Open File Report 2000-3. Accessed September 11, 2025. https://dnr.wa.gov/sites/default/files/2025-03/ger_ofr2000-3_mining_regulations.pdf

Peterson, M. D., A. M. Shumway, P. M. Powers, et al. 2023. Data Release for the 2023 U.S. 50-State National Seismic Hazard Model – Overview, 04. Uniform-hazard ground motion maps for the conterminous U.S., Alaska, and Hawaii. Accessed July 1, 2024. <https://www.sciencebase.gov/catalog/item/64ff886dd34ed30c2057b4d9>

PNSN (Pacific Northwest Seismic Network). Not dated. Cascadia Subduction Zone. Accessed November 23, 2021. <https://pnsn.org/outreach/earthquakesources/csz>

Programmatic Environmental Impact Statement

- Porter, S. C., and T. W. Swanson. 1998. Radiocarbon Age Constraints on Rates of Advance and Retreat of the Puget Lobe of the Cordilleran Ice Sheet during the Last Glaciation. University of Washington. Quaternary Research 50, 205–213 (Article No. QR982004).
- Reidel, S. P, B. S. Martin, and H. L. Petcovic. 2003. The Columbia River Flood Basalts and the Yakima Fold Belt. In: Swanson, T. W., editor. Western Cordillera and Adjacent Areas.
- Schasse, H. W., Koler, M. L., Eberle, N. A., and Christie, R. A. 1994. The Washington State Coal Mine Map Collection: A Catalog, Index, and User's Guide, Washington Division of Mines and Geology, Open File Report 94-7. June.
- Swanson, D. A., K. A. Cameron, R. C. Evarts, P. T. Pringle, and J. A. Vance. 1989. IGC Field Trip T106: Cenozoic Volcanism in the Cascade Range and Columbia Plateau, Southern Washington and Northernmost Oregon. Field Trip Guidebooks, 106, 1–60. American Geophysical Union.
- Sweeny, M. R., E. V. McDonald, and D. R. Gaylord. 2017. Generation of the Palouse Loess: Exploring the Linkages between Glaciation, Outburst Megafloods, and Eolian Deposition in Washington State. From the Puget Lowland to East of the Cascade Range: Geologic Excursions in the Pacific Northwest 49.
- Thorson, R. M. 1989. Glaciostatic Response of the Puget Sound Area, Washington. Geological Society of America Bulletin 101, 1163–1174.
- U.S. Bureau of Mines. 1995. Spatial data extracted from the Minerals Availability System/Mineral Industry Location system (MAS/ MILS): U.S. Bureau of Mines Special Publication 95-12.
- USDA (U.S. Department of Agriculture). 2019. Web Soil Survey. Accessed August 8th, 2025. <https://websoilsurvey.nrcs.usda.gov/app/>
- USDA (U.S. Department of Agriculture). 2022. Major Land Resource Areas. Accessed October 3, 2024. <https://www.nrcs.usda.gov/resources/data-and-reports/major-land-resource-area-mlra>
- USDA NRCS (U.S. Department of Agriculture Natural Resources Conservation Service). Not dated. The Twelve Orders of Soil Taxonomy. Accessed November 21, 2024. <https://www.nrcs.usda.gov/resources/education-and-teaching-materials/the-twelve-orders-of-soil-taxonomy>

Programmatic Environmental Impact Statement

- USDA NRCS (U.S. Department of Agriculture Natural Resources Conservation Service). 2025. Gridded Soil Survey Geographic (gSSURGO) Database. Accessed July 28, 2025. <https://www.nrcs.usda.gov/resources/data-and-reports/gridded-soil-survey-geographic-gssurgo-database>
- USGS (U.S. Geological Survey). 2022–2024. 3D Elevation Program 1/3-Arc Second Resolution Digital Elevation Model. Accessed July 1, 2024. <https://www.usgs.gov/the-national-map-data-delivery>
- USGS (U.S. Geological Survey). Not dated (a). Geologic Units Containing Landslide. Accessed December 17, 2021. <https://mrdata.usgs.gov/geology/state/sgmc-lith.php?code=1.5.4>
- USGS (U.S. Geological Survey). Not dated (b). Liquefaction Susceptibility. Accessed March 19, 2025. <https://earthquake.usgs.gov/education/geologicmaps/liquefaction.php>
- Wells, R. E., and P. L. Heller. 1988. The Relative Contribution of Accretion, Shear, and Extension to Cenozoic Tectonic Rotation in the Pacific Northwest. Geological Society of America Bulletin 100:325–338.
- Wells, R. E., and R. W. Simpson. 2001. Northward Migration of the Cascadia Forearc in the Northwestern U.S. and Implications for Subduction Deformation. Earth Planet Special Publication 53:275–283.
- WSDOT (Washington State Department of Transportation). Not dated. Part 2 – Best Management Practices. Accessed November 20, 2024. <https://wsdot.wa.gov/sites/default/files/2021-10/part2-bestmanagementpractices-regionalroadmaintenance.pdf>

6.4.2 Section 3.3 – Air Quality

- AGC (AGC of Washington Education Foundation) and the Fugitive Dust Task Force. 1997. Guide to Handling Fugitive Dust from Construction Projects. Seattle, Washington 1997. Accessed February 13, 2025. <https://wsdot.wa.gov/sites/default/files/2024-09/Handling-FugitiveDust-%20from-ConstructionProjects-Guide.pdf>

Programmatic Environmental Impact Statement

- Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed February 13, 2025.
<https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>
- DOC (Washington State Department of Commerce). Not dated. Washington's Diverse Climate and Geography. Accessed February 13, 2025.
<https://choosewashingtonstate.com/research-resources/about-washington/climate-geography/>
- Ecology (Washington State Department of Ecology). 2016. Methods for Dust Control. Accessed February 13, 2025. <https://apps.ecology.wa.gov/publications/publications/96433.pdf>
- Ecology (Washington State Department of Ecology). 2024. Washington State Department of Ecology. 2020 Washington Comprehensive Emissions Inventory Technical Support Document. Accessed February 13, 2025.
<https://apps.ecology.wa.gov/publications/documents/2002012.pdf>
- Ecology (Washington State Department of Ecology). Not dated (a). Washington's Air Quality Implementation Plan. Accessed February 13, 2025.
<https://ecology.wa.gov/Regulations-Permits/Plans-policies/State-implementation-plans>
- Ecology (Washington State Department of Ecology). Not dated (b). Determining if Areas in Washington Meet National Air Quality Standards. Accessed February 13, 2025.
<https://ecology.wa.gov/regulations-permits/plans-policies/areas-meeting-and-not-meeting-air-standards>
- Ecology (Washington State Department of Ecology). Not dated (c). Wildfire Risks Caused by Climate Change. Accessed February 13, 2025.
<https://ecology.wa.gov/air-climate/responding-to-climate-change/wildfire-risks>
- EPA (U.S. Environmental Protection Agency). 2022. Fugitive Dust Control Measures and Best Practices. Accessed February 13, 2025. <https://www.epa.gov/system/files/documents/2022-02/fugitive-dust-control-best-practices.pdf>
- EPA (U.S. Environmental Protection Agency). 2024. Clean Air Act Permit Modeling Guidance. Last updated November 29, 2024. Accessed February 13, 2025.
<https://www.epa.gov/scram/clean-air-act-permit-modeling-guidance#appw>

Programmatic Environmental Impact Statement

- EPA (U.S. Environmental Protection Agency). 2025a. Climate Change Indicators: Atmospheric Concentrations of Greenhouse Gases. Last updated January 15, 2025. Accessed February 13, 2025. <https://www.epa.gov/climate-indicators/climate-change-indicators-atmospheric-concentrations-greenhouse-gases>
- EPA (U.S. Environmental Protection Agency). 2025b. Air Quality Statistics Report for 2023. Accessed February 13, 2025. <https://www.epa.gov/outdoor-air-quality-data/air-quality-statistics-report>
- EPA (U.S. Environmental Protection Agency). 2025c. Overview of Greenhouse Gases. Accessed February 13, 2025. <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>
- EPA (U.S. Environmental Protection Agency). 2025d. About the Electric Power Systems Partnership. Accessed February 13, 2025. <https://www.epa.gov/eps-partnership/about-electric-power-systems-partnership>
- EPA (U.S. Environmental Protection Agency). 2025e. Sulfur Hexafluoride (SF₆) Basics. Accessed February 13, 2025. <https://www.epa.gov/eps-partnership/sulfur-hexafluoride-sf6-basics>
- WRCC (Western Regional Climate Center). Not dated. Western Washington. Accessed January 29, 2025. https://wrcc.dri.edu/Climate/narrative_wa.php
- WSDOT (Washington State Department of Transportation). 2022. Guidance on Addressing Air Quality, Greenhouse Gas Emissions, and Energy for WSDOT Projects. April 2022. Accessed February 13, 2025. <https://wsdot.wa.gov/sites/default/files/2022-05/Env-ANE-AQGuidance.pdf>
- WSDOT (Washington State Department of Transportation). 2025. Air Quality, Energy & Greenhouse Gas Emissions. Accessed February 13, 2025. <https://wsdot.wa.gov/engineering-standards/environmental-guidance/air-quality-energy-greenhouse-gas-emissions>

6.4.3 Section 3.4 – Water Resources

- Ahmad, S., Z. H. Rizvi, and F. Wuttke. 2025. Unveiling Soil Thermal Behavior Under Ultra-High Voltage Power Cable Operations. Scientific Reports, 15(1). Accessed September 19, 2025. <https://doi.org/10.1038/s41598-025-91831-1>

Programmatic Environmental Impact Statement

- Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>
- Clarke, K. D., T. C. Pratt, R. G. Randall, D. A. Scruton, and K. E. Smokorowski. 2008. Validation of the Flow Management Pathway: Effects of Altered Flow on Fish Habitat and Fishes Downstream from a Hydropower Dam. Canadian Technical Report for Fisheries and Aquatic Science. 2784:vi + 111 pages. Accessed August 6, 2025. https://www.researchgate.net/profile/K-Clarke-2/publication/271763858_Validation_of_the_Flow_Management_Pathway_Effects_of_Altered_Flow_on_Fish_Habitat_and_Fishes_Downstream_from_a_Hydropower_Dam/links/54d0dd050cf298d656693b2a/Validation-of-the-Flow-Management-Pathway-Effects-of-Altered-Flow-on-Fish-Habitat-and-Fishes-Downstream-from-a-Hydropower-Dam.pdf
- DNR (Washington State Department of Natural Resources). 2025. Groundwater. Accessed February 5, 2025. <https://www.dnr.wa.gov/geology-groundwater>
- DOH (Washington State Department of Health). 2012. Source Water Protection Requirements. 331-106. May 2012. Accessed October 4, 2024. <https://doh.wa.gov/sites/default/files/legacy/Documents/Pubs/331-106.pdf>
- DOH (Washington State Department of Health). 2023. Wellhead Protection Areas (10 year). Accessed August 20, 2025. <https://geo.wa.gov/datasets/WADOH::wellhead-protection-areas-10-year/about>
- DOH (Washington State Department of Health). 2025. Surface Water Protection Areas. Accessed August 20, 2025. <https://geo.wa.gov/datasets/WADOH::source-water-protection-areas-1/about>
- DOH (Washington State Department of Health). Not dated. Source Water Protection. Source Water Protection Program. Accessed October 2, 2024. <https://doh.wa.gov/community-and-environment/drinking-water/source-water/source-water-protection>
- Ecology (Washington State Department of Ecology). 2013. Water Rights in Washington. Accessed September 18, 2024. <https://apps.ecology.wa.gov/publications/documents/961804swr.pdf>

Programmatic Environmental Impact Statement

- Ecology (Washington State Department of Ecology). 2024. Channel Migration Zones. Accessed August 20, 2025. <https://www.arcgis.com/home/item.html?id=b658e2df75b14d12a838b6d5d6502fa9>
- Ecology (Washington State Department of Ecology). 2025. National Hydrography Dataset for Washington (NHD 24k - 4k). Accessed August 20, 2025. <https://geo.wa.gov/datasets/waecy::hydrography-nhd-points/about>
- Emeana, C. J., T. J. Hughes, J. K. Dix, et al. 2016. The Thermal Regime Around Buried Submarine High-Voltage Cables. *Geophysical Journal International* 206(2): 1051–1064. Accessed September 19, 2025. <https://doi.org/10.1093/gji/ggw195>
- EPA (U.S. Environmental Protection Agency). 2024. Overview of Total Maximum Daily Loads (TMDLs). Last updated October 25, 2025. Accessed October 29, 2024. <https://www.epa.gov/tmdl/overview-total-maximum-daily-loads-tmdls>
- EPA (U.S. Environmental Protection Agency). 2025a. Current Implementation of Waters of the United States. Last updated January 17, 2025. Accessed February 5, 2025. <https://www.epa.gov/wotus/current-implementation-waters-united-states>
- EPA (U.S. Environmental Protection Agency). 2025b. Sole Source Aquifers. Accessed August 20, 2025. <https://epa.maps.arcgis.com/home/item.html?id=400e3d982ac545e5a05bd39ea9a7f113>
- EPA (U.S. Environmental Protection Agency). Not dated. Map of Sole Source Aquifer Locations. Accessed October 25, 2024. <https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b>
- FEMA (Federal Emergency Management Agency). 2025. Floodplain and Flood Ways. Accessed August 20, 2025. <https://www.arcgis.com/home/item.html?id=2b245b7f816044d7a779a61a5844be23>
- FHWA, EPA, and WSDOT (Federal Highway Administration, U.S. Environmental Protection Agency, and Washington State Department of Transportation). 2014. Sole Source Aquifers in the State of Washington. Accessed September 19, 2024. https://www.wsdot.wa.gov/publications/manuals/fulltext/M31-11/agreements/FHWA_EPA_MOU_SSA.pdf

Programmatic Environmental Impact Statement

- NOAA (National Oceanic and Atmospheric Administration). 2022. Washington. Accessed October 25, 2024. <https://statesummaries.ncics.org/downloads/Washington-StateClimateSummary2022.pdf>
- Pracheil, B. M., S. Carney, T. Mosier, et al. 2022. Designing Hydropower Flows to Balance Energy and Environmental Needs. HydroWIRES Topic A Final Project Report. U.S. Department of Energy. Accessed August 5, 2025. https://www.energy.gov/sites/default/files/2023-07/Designing_Hydropower_Flows.pdf
- USFWS (U.S. Fish and Wildlife Service). 2025. National Wetland Inventory – Seamless Wetlands Data by State. Accessed August 20, 2025. <https://www.fws.gov/program/national-wetlands-inventory/download-state-wetlands-data>
- USGS (U.S. Geological Survey). 2021. Hydrologic Unit Maps. Accessed September 18, 2024. <https://www.usgs.gov/tools/hydrologic-unit-maps>
- USGS (U.S. Geological Survey). 2023. Principal Aquifers of the 48 Conterminous United States, Hawaii, Puerto Rico, and the U.S. Virgin Islands. Accessed July 18, 2024. <https://www.sciencebase.gov/catalog/item/63140610d34e36012efa385d>
- USGS (U.S. Geological Survey). 2024. National Watershed Boundary Dataset (WBD): Hydrologic Unit Code 8-Digit Basins of Washington State. Accessed September 18, 2024. <https://geo.wa.gov/datasets/waacy::national-watershed-boundary-dataset-wbd-hydrologic-unit-code-8-digit-basins-of-washington-state/about>
- USGS (U.S. Geological Survey). 2025a. USGS Surface-Water Data for Washington. Accessed February 5, 2025. <https://waterdata.usgs.gov/wa/nwis/sw>
- USGS (U.S. Geological Survey). 2025b. USGS Water Data for Washington. Accessed February 5, 2025. <https://waterdata.usgs.gov/wa/nwis>
- USGS (U.S. Geological Survey). Not dated. Watersheds. Accessed October 29, 2024. <https://www.usgs.gov/centers/california-water-science-center/science/science-topics/watersheds>
- van Oort, H., D. J. Green, M. Hepp, and J. M. Cooper. 2015. Do Fluctuating Water Levels Alter Nest Survivorship in Reservoir Shrubs? The Condor, Ornithological Applications. Volume 117, pp. 376-385. Accessed August 6, 2025. <https://academic.oup.com/condor/article/117/3/376/5153173?login=false#126314105>

WSDOE (Washington State Department of Ecology). 2023. Water Quality Assessment. Accessed August 5th, 2025. Water Quality Assessment 305(b) Report (current) | Washington State Geospatial Open Data Portal.

6.4.4 Section 3.5 – Vegetation

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024.

<https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

Arid Lands Initiative. 2014. The Arid Lands Initiative – Shared Priorities for Conservation at a Landscape Scale. Summary Prepared by Sonia A. Hall (SAH Ecologia LLC) and the Arid Lands Initiative Core Team, Wenatchee, Washington.

<https://aridlandsinitiative.org/our-shared-priorities/>

Azerrad, J. M., K. A. Divens, M. F. Livingston, M. S. Teske, H. L. Ferguson, and J. L. Davis. 2011. Site-specific Management: How to Avoid and Minimize Impacts of Development to Shrub-steppe. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed September 16, 2025.

<https://wdfw.wa.gov/publications/01335>

Azerrad, J. M., J. L. Michalak, and T. P. Johnson. 2023. PHS Local Government User Guide: Biodiversity Areas and Corridors Map. Habitat Program. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed November 8, 2024. <https://wdfw.wa.gov/publications/02426>

BC (British Columbia) Ministry of Transportation and Infrastructure. 2022. Erosion and Sediment Control Manual. Accessed October 10, 2024. <https://www2.gov.bc.ca/assets/gov/driving-and-transportation/transportation-infrastructure/engineering-standards-and-guidelines/environment/references/erosion-and-sediment-control-manual.pdf>

Benson, J. E., R. T. Tveten, M. G. Asher, and P. W. Dunwiddie. 2011. Shrub-steppe and Grassland Restoration Manual for the Columbia River Basin. Olympia, Washington: Washington Department of Fish and Wildlife.

<https://wdfw.wa.gov/publications/01330>

Programmatic Environmental Impact Statement

- Bentrup, G. 2008. Conservation Buffers. Design Guidelines for Buffers, Corridors, and Greenways. General Technical Report SRS-109. U.S. Department of Agriculture National Agroforestry Center and Forest Service Southern Research Station. Accessed January 27, 2025. <https://doi.org/10.2737/SRS-GTR-109>
- BLM and USDA Forest Service (Bureau of Land Management and U.S. Department of Agriculture Forest Service). 2023. LANDFIRE - Existing Vegetation Cover and Type. Accessed July 10, 2024. <https://www.landfire.gov/viewer/>
- BLM and USFS (Bureau of Land Management and U.S. Department of Agriculture Forest Service). 2024. Existing Vegetation Type – EVT. Accessed August 20, 2025. https://landfire.gov/data/FullExtentDownloads?field_version_target_id=46&field_theme_target_id=11&field_region_id_target_id=4
- Bradley, B. A., C. A. Curtis, E. J. Fusco, et al. 2017. Cheatgrass (*Bromus tectorum*) Distribution in the Intermountain Western United States and its Relationship to Fire Frequency, Seasonality, and Ignitions. *Biological Invasions* 20(7):1493–1506. Accessed January 27, 2025. <https://doi.org/10.1007/s10530-017-1641-8>
- Butts, T. R., B. K. Fritz, K. B. Kouame, et al. 2022. Herbicide Spray Drift from Ground and Aerial Applications: Implications for Potential Pollinator Foraging Sources. *Scientific Reports* 12:18017. Accessed January 27, 2025. <https://doi.org/10.1038/s41598-022-22916-4>
- da Silva Correa, H., C. T. Blum, F. Galvão, and L. T. Maranhão. 2022. Effects of Oil Contamination on Plant Growth and Development: A Review. *Environmental Science and Pollution Research International* 29:42501-43515. Accessed January 27, 2025. <https://doi.org/10.1007/s11356-022-19939-9>
- Dhakal, S., B. B. Shrestha, K. P. Sharma, S. Paudel, and M. Siwakoti. 2023. Grasslands are More Vulnerable to Plant Invasions than Forests in South-central Nepal. *Environmental Challenges* 15:100929. Accessed January 27, 2025. <https://doi.org/10.1016/j.envc.2024.100929>
- DNR (Washington State Department of Natural Resources). 2007. Conservation Strategy for Washington State Inland Sand Dunes. Natural Heritage Report 2007-05. Accessed January 27, 2025. https://www.dnr.wa.gov/publications/amp_nh_inland_dunes.pdf?jsdf0n

Programmatic Environmental Impact Statement

- DNR (Washington State Department of Natural Resources). 2018. State of Washington Natural Heritage Plan. Accessed September 13, 2024. https://www.dnr.wa.gov/publications/amp_nh_plan_2018.pdf
- DNR (Washington State Department of Natural Resources). 2021. Habitat Conservation Plan Lands. Accessed February 1, 2025. <https://geo.wa.gov/datasets/wadnr::habitat-conservation-plan-lands/about>
- DNR (Washington State Department of Natural Resources). 2022a. Ecoregions of the Pacific Northwest. Accessed August 21, 2024. <https://data-wadnr.opendata.arcgis.com/datasets/wadnr::ecoregions-of-the-pacific-northwest/explore?location=42.975673%2C-119.790189%2C5.18>
- DNR (Washington State Department of Natural Resources). 2022b. Oaks and Grasslands of the Puget Trough Ecoregion. Accessed February 1, 2025. <https://data-wadnr.opendata.arcgis.com/datasets/wadnr::oaks-and-grasslands-of-the-puget-trough-ecoregion/about>
- DNR (Washington State Department of Natural Resources). 2022c. Washington Natural Heritage Program Element Occurrences – Historical. Accessed February 1, 2025. <https://data-wadnr.opendata.arcgis.com/datasets/wadnr::washington-natural-heritage-program-element-occurrences-historical/about>
- DNR (Washington State Department of Natural Resources). 2023. Washington Natural Heritage Program Element Occurrences – Current. Accessed February 1, 2025. <https://data-wadnr.opendata.arcgis.com/datasets/wadnr::washington-natural-heritage-program-element-occurrences-current/about>
- DNR (Washington State Department of Natural Resources). 2025a. Department of Natural Resources Protected Areas. Received from DNR June 24, 2025.
- DNR (Washington State Department of Natural Resources). 2025b. Current – Part of WNHP Public Element Occurrences. Accessed August 24, 2024. <https://data-wadnr.opendata.arcgis.com/maps/a322cded1f724ac0b59cacc8d3c5491b/explore>
- DNR (Washington State Department of Natural Resources). 2025c. Natural Area Preserves and Natural Resources Conservation Areas. Accessed August 5, 2025. <https://dnr.wa.gov/natural-areas>
- DNR (Washington State Department of Natural Resources). 2025d. Historical – Part of WNHP Public Element Occurrences. Accessed August 24, 2024. <https://data-wadnr.opendata.arcgis.com/maps/a322cded1f724ac0b59cacc8d3c5491b/explore>
-

Programmatic Environmental Impact Statement

- Dubé, C., S. Pellerin, and M. Poulin. 2011. Do Power Line Rights-of-way Facilitate the Spread of Non-Peatland and Invasive Plants in Bogs and Fens? *Botany* 89(2):91-103. Accessed January 27, 2025. <https://doi.org/10.1139/B10-089>
- Ecology (Washington State Department of Ecology). 2013. Update on Wetland Buffers: The State of the Science Final Report. Publication no. 13-06-11. Accessed October 17, 2024. <https://apps.ecology.wa.gov/publications/documents/1306011.pdf>
- Ecology (Washington State Department of Ecology). 2017. Shoreline Master Programs Handbook. August 2009 revised December 2017. Accessed July 30, 2025. <https://apps.ecology.wa.gov/publications/documents/1106010.pdf>
- Ecology (Washington State Department of Ecology). 2024a. Stormwater Management Manual for Western Washington. Accessed October 11, 2024. https://fortress.wa.gov/ecy/ezshare/wq/SWMMs/2024SWMMWW/Content/Resources/DocsForDownload/2024SWMMWW_6-14-24.pdf
- Ecology (Washington State Department of Ecology). 2024b. Stormwater Management Manual for Eastern Washington. Accessed October 11, 2024. https://fortress.wa.gov/ecy/ezshare/wq/SWMMs/2024SWMMEW/Content/Resources/DocsForDownload/2024SWMMEW_6-14-24.pdf
- Ecology (Washington State Department of Ecology). 2024c. Wetlands: Nature's Water Filters, Sponges & Nurseries. Accessed September 13, 2024. <https://ecology.wa.gov/water-shorelines/wetlands/wetlands-overview>
- Ecology (Washington State Department of Ecology). 2024d. Riparian Education. Accessed January 2, 2025. <https://ecology.wa.gov/water-shorelines/puget-sound/helping-puget-sound/riparian-restoration/riparian-education>
- Ecology (Washington State Department of Ecology), U.S. Army Corps of Engineers Seattle District, and U.S. Environmental Protection Agency Region 10. 2006. Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1). Washington State Department of Ecology Publication 06-06-011b. Accessed January 27, 2025. <https://apps.ecology.wa.gov/publications/documents/0606011b.pdf>

Programmatic Environmental Impact Statement

- Ecology (Washington State Department of Ecology), U.S. Army Corps of Engineers Seattle District, and U.S. Environmental Protection Agency Region 10. 2021. Wetland Mitigation in Washington State – Part 1: Agency Policies and Guidance (Version 2). Washington State Department of Ecology Publication 21-06-003. Accessed January 27, 2025. <https://apps.ecology.wa.gov/publications/documents/2106003.pdf>
- EPA (U.S. Environmental Protection Agency). 2024. Permit Program Under CWA Section 404. Accessed September 19, 2024. <https://www.epa.gov/cwa-404/permit-program-under-cwa-section-404>
- EPA (U.S. Environmental Protection Agency). 2025. Current Implementation of Waters of the United States. Last updated January 17, 2025. Accessed February 5, 2025. <https://www.epa.gov/wotus/current-implementation-waters-united-states>
- Farmer, A. M. 1993. The Effects of Dust on Vegetation – A Review. Environmental Pollution 79(1):63-75. Accessed January 27, 2025. [https://doi.org/10.1016/0269-7491\(93\)90179-R](https://doi.org/10.1016/0269-7491(93)90179-R)
- Fischer, A. M., J. D. Van Hamme, W. C. Gardner, and L. H. Fraser. 2022. Impacts from Topsoil Stockpile Height on Soil Geochemical Properties at Two Mining Operations at British Columbia: Implications for Restoration Practices. Mining 2022(2):315–329. Accessed July 4, 2025. <https://fraserlab.trubox.ca/wp-content/uploads/sites/2423/2022/05/mining-02-00017.pdf>
- Folkerts, K. E., T. P. Johnson, and J. L. Michalak. 2023. PHS Local Government User Guide: Shrubsteppe and Eastside Steppe Map. Olympia, Washington: Habitat Program, Washington Department of Fish and Wildlife. <https://wdfw.wa.gov/publications/02424>
- Government of Canada. 2014. Why Some Species Become at Risk. Accessed December 16, 2024. <https://www.canada.ca/en/environment-climate-change/services/species-risk-education-centre/why-some-species-become-at-risk.html>
- Greenwood, P., and N. J. Kuhn. 2014. Does the Invasive Plant, *Impatiens glandulifera*, Promote Soil Erosion along the Riparian Zone? An Investigation on a Small Watercourse in Northwest Switzerland. Journal of Soils and Sediments 14: 637–650. Accessed January 27, 2025. <https://link.springer.com/article/10.1007/s11368-013-0825-9>

Programmatic Environmental Impact Statement

- Haddad, N. M., L. A. Brudvig, J. Clobert, et al. 2015. Habitat Fragmentation and Its Lasting Impact on Earth's Ecosystems. *Science Advances* 1(2):1–9. Accessed January 27, 2025. <https://doi.org/10.1126/sciadv.1500052>
- Kameswaran, S., Y. Gunavathi, and P. Gopi Krishna. 2019. Dust Pollution and Its Influence on Vegetation – A Critical Analysis. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences* 5(1):341–363. Accessed January 27, 2025. <https://doi.org/10.26479/2019.0501.31>
- Lampinen, J., K. Ruokolainen, and A. Huhta. 2015. Urban Power Line Corridors as Novel Habitats for Grassland and Alien Plant Species in South-Western Finland. *PLoS ONE* 10(11):e0142236. Accessed January 27, 2025. <https://doi.org/10.1371/journal.pone.0142236>
- LANDFIRE (Landscape Fire and Resource Management Planning Tools). 2016a. LANDFIRE: Existing Vegetation Type Layer, LANDFIRE 2.0, U.S. Department of the Interior, U.S. Geological Survey, and U.S. Department of Agriculture. Accessed September 4, 2024. <https://www.landfire.gov/viewer>
- LANDFIRE (Landscape Fire and Resource Management Planning Tools). 2016b. Existing Vegetation Type. Accessed September 4, 2024. <https://www.landfire.gov/vegetation/evt>
- LANDFIRE (Landscape Fire and Resource Management Planning Tools). 2016c. About LANDFIRE. Accessed September 4, 2024. <https://www.landfire.gov/about-landfire>
- Lehtinen, R. M. 2023. Empirical Evidence for the Rescue Effect from a Natural Microcosm. *Animals* 13(12):1907. Accessed January 27, 2025. <https://doi.org/10.3390/ani13121907>
- McIntosh, T. T., M. Vander Haegen, and M. A. Schroeder. 2007. Patterns in Biological Soil Crust Recovery in Conservation Reserve Program Fields, Washington State. Report. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed October 22, 2024. <https://wdfw.wa.gov/publications/01306>
- Michaud, J. P. 2001. At Home with Wetlands: A Landowner's Guide. The Functions and Values of Wetlands. Washington State Department of Ecology Publication 90-31. Accessed January 27, 2025. <https://apps.ecology.wa.gov/publications/documents/9031.pdf>

Programmatic Environmental Impact Statement

- Miller, J. E. D., S. Wessel, and W. Fertig. 2024. 2024 Washington Vascular Plant Species of Conservation Concern. Natural Heritage Report 2024-07. Washington Department of Natural Resources Natural Heritage Program. Accessed September 13, 2024. https://www.dnr.wa.gov/publications/amp_nh_vascular_ets.pdf?4jnufw6
- Mitchell, J. W. 2013. Power Line Failures and Catastrophic Wildfires Under Extreme Weather Conditions. *Engineering Failure Analysis* 35(15): 729–735.
- NatureServe. 2024a. Conservation Status Assessment. Accessed December 13, 2024. <https://www.natureserve.org/conservation-status-assessment>
- NatureServe. 2024b. Definitions of NatureServe Conservation Status Ranks. Accessed October 10, 2024. https://help.natureserve.org/biotics/content/record_management/Element_Files/Element_Tracking/ETRACK_Definitions_of_Heritage_Conservation_Status_Ranks.htm
- NatureServe. 2024c. International Terrestrial Ecological System: Columbia Plateau Western Juniper Woodland and Savanna. Arlington, Virginia. Accessed January 21, 2025. https://explorer.natureserve.org/Taxon/ELEMENT_GLOBAL.2.740155/Columbia_Plateau_Western_Juniper_Woodland_and_Savanna
- NERC (North American Electric Reliability Corporation). 2016. Transmission Vegetation Management FAC-003-4. Accessed January 7, 2025. <https://www.nerc.com/pa/stand/reliability%20standards/fac-003-4.pdf>
- NWCB (Washington State Noxious Weed Control Board). 2024a. Controlling Noxious Weeds. Accessed September 23, 2024. <https://www.nwcb.wa.gov/control-and-disposal>
- NWCB (Washington State Noxious Weed Control Board). 2024b. Disposing of Noxious Weeds. Accessed September 23, 2024. <https://www.nwcb.wa.gov/disposing-of-noxious-weeds>
- Olson, E., and J. M. Doherty. 2012. The Legacy of Pipeline Installation on the Soil and Vegetation of Southeast Wisconsin Wetlands. *Ecological Engineering* 39:53–62. Accessed January 27, 2025. <https://doi.org/10.1016/j.ecoleng.2011.11.005>
- ORIA (Governor’s Office for Regulatory Innovation & Assistance). 2019. Wetland Mitigation Bank Certification. Accessed September 19, 2024. https://www.oria.wa.gov/site/alias_oria/mid_12357/403/handbook-entry?ItemID=131

Programmatic Environmental Impact Statement

- Poulenard, J., and P. Podwojewski. 2004. Alpine Soils. Encyclopedia of Soil Science. Accessed September 19, 2025. <https://doi.org/10.1081/e-ess3>.
- PSCW (Public Service Commission of Wisconsin). Not dated. Environmental Impacts of Transmission Lines. Accessed October 22, 2024. <https://psc.wi.gov/Documents/Brochures/Enviromental%20Impacts%20TL.pdf>
- Rodrick, E., and R. Milner, eds. 1991. Management Recommendations for Washington's Priority Habitats and Species. Olympia, Washington: Washington Department of Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/00032>
- Shaheb, M.R., R. Venkatesh, and S.A. Shearer. 2021. A Review of the Effect of Soil Compaction and Its Management for Sustainable Crop Production. Journal of Biosystems Engineering (2021)46:417–439.
- Urgenson, L. S., S. H. Reichard, and C. B. Halpern. 2009. Community and Ecosystem Consequences of Giant Knotweed (*Polygonum sachalinense*) Invasion into Riparian Forests of Western Washington, USA. Biological Conservation 142(7):1536–1541. Accessed January 27, 2025. <https://doi.org/10.1016/j.biocon.2009.02.023>
- USACE and EPA (U.S. Army Corps of Engineers and U.S. Environmental Protection Agency). 2024. Wetlands; Wetland Definition. Accessed December 16, 2024. <https://www.nww.usace.army.mil/Business-With-Us/Regulatory-Division/Wetlands/>
- USDA (U.S. Department of Agriculture). 2008. Soil Quality Indicators. USDA Natural Resources Conservation Service. Accessed July 2, 2025. <https://www.nrcs.usda.gov/sites/default/files/2022-10/Soil%20Structure%20and%20Macropores.pdf>
- USDI (U.S. Department of the Interior). 2001. Biological Soil Crusts: Ecology and Management. Technical Reference 1730-2 2001. Accessed July 4, 2025. <https://www.ars.usda.gov/ARSUserFiles/6112/biologicalSoilCrusts2.pdf>
- USFWS (U.S. Fish and Wildlife Service). 2024a. Permits for Native Endangered and Threatened Species. Accessed September 19, 2024. <https://www.fws.gov/library/collections/permits-native-endangered-and-threatened-species>
- USFWS (U.S. Fish and Wildlife Service). 2024b. Wetland Mapper. National Wetlands Inventory Surface Water and Wetlands. Accessed September 23, 2024. <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

Programmatic Environmental Impact Statement

- UTC (Washington Utilities and Transportation Commission). 2025. Wildfires. Accessed February 4, 2025. <https://www.utc.wa.gov/regulated-industries/utilities/energy/wildfires>
- WDFW (Washington Department of Fish and Wildlife). 2005. Washington's Comprehensive Wildlife Conservation Strategy. Wildlife Research and Management. Accessed January 27, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00727/wdfw00727.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2009a. Landscape Planning for Washington's Wildlife: Managing for Biodiversity in Developing Areas. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00023/wdfw00023.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2009b. Washington Department of Fish and Wildlife Wind Power Guidelines. April 2009. Accessed January 29, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00294/wdfw00294.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2020a. Management Recommendations for Washington's Priority Habitats: Shrubsteppe. Accessed October 17, 2024. <https://wdfw.wa.gov/sites/default/files/publications/01333/wdfw01333.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2020b. Riparian Ecosystems, Volume 2: Management Recommendations. Accessed October 17, 2024. <https://wdfw.wa.gov/sites/default/files/publications/01988/wdfw01988.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2021. Washington Shrubsteppe Restoration and Resiliency Initiative spatial data. Accessed September 4, 2024. <https://wdfw.wa.gov/species-habitats/habitat-recovery/shrubsteppe#mapping>
- WDFW (Washington Department of Fish and Wildlife). 2023. State of Washington Priority Habitats and Species List. Accessed October 17, 2024. <https://wdfw.wa.gov/sites/default/files/publications/00165/wdfw00165.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2024a. Best Management Practices for Mitigating Impacts to Oregon White Oak Priority Habitat. Accessed November 8, 2024. <https://wdfw.wa.gov/sites/default/files/publications/02465/wdfw02465.pdf>

Programmatic Environmental Impact Statement

- WDFW (Washington Department of Fish and Wildlife). 2024b. Washington Shrubsteppe Restoration and Resiliency Initiative: Long-Term Strategy 2024 – 2054. Olympia, Washington: Washington Department of Fish and Wildlife, Washington State Department of Natural Resources, and Washington State Conservation Commission. <https://wdfw.wa.gov/publications/02489>
- WDFW (Washington Department of Fish and Wildlife). 2024c. Priority Habitats and Species. Accessed July 10, 2024. <https://wdfw.wa.gov/species-habitats/at-risk/phs/maps/data-request-sensitive>
- WDFW (Washington Department of Fish and Wildlife). 2024d. Priority Habitat and Species Database. Geospatial database provided by WDFW on August 21, 2024, to WSP Canada Inc.
- WDFW (Washington State Department of Fish and Wildlife). 2024e. Sensitive Priority Habitat and Species Data Request. Accessed July 15, 2024. <https://wdfw.wa.gov/species-habitats/at-risk/phs/maps/data-request-sensitive>
- WDFW (Washington Department of Fish and Wildlife). 2025a. Shrubsteppe. Accessed August 22, 2025. <https://wdfw.wa.gov/species-habitats/ecosystems/shrubsteppe#:~:text=Despite%20impacts%20from%20severe%20wildfires%20and%20habitat,partnership%20for%20the%20future%20of%20Washington's%20shrubsteppe>
- WDFW (Washington Department of Fish and Wildlife). 2025b. Washington Shrubsteppe Restoration and Resiliency Initiative. Accessed August 27, 2025. <https://wdfw.wa.gov/species-habitats/habitat-recovery/shrubsteppe#mapping>
- Weidenhamer, J. D., and R. M. Callaway. 2010. Direct and Indirect Effects of Invasive Plants on Soil Chemistry and Ecosystem Function. *Journal of Chemical Ecology* 36(1):59–69. Accessed January 27, 2025. <http://dx.doi.org/10.1007/s10886-009-9735-0>
- Wetland Stewardship Partnership. 2009. Interim Guidelines for Wetland Protection and Conservation in British Columbia. Road and Utility Corridors, chapter 9. Accessed January 6, 2025. https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/best-management-practices/wetland_ways_ch_9_corridors.pdf

Zedler, J. B., and S. Kercher. 2004. Causes and Consequences of Invasive Plants in Wetlands: Opportunities, Opportunists, and Outcomes. *Critical Reviews in Plant Sciences* 23(5):431–452. Accessed January 27, 2025. <https://doi.org/10.1080/07352680490514673>

6.4.5 Section 3.6 – Habitat, Wildlife, and Fish

Akins, J. R. 2016. Distribution, Genetic Structure, and Conservation Status of the Cascade Red Fox in Southern Washington [Ph.D. Dissertation]. University of California, Davis. Accessed January 23, 2025. <https://doi.org/10.13140/RG.2.2.30741.73443>

Altman, B., D. W. Stinson, and G. E. Hayes. 2020. Status Report for the Oregon Vesper Sparrow in Washington. Olympia, Washington: Washington Department of Fish and Wildlife, 1-40. Accessed January 22, 2025. <https://wdfw.wa.gov/sites/default/files/publications/02147/wdfw02147.pdf>

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

Anguiano, M. P. and J. E. Diffendorfer. 2015. Effects of Fragmentation on the Spatial Ecology of the California Kingsnake (*Lampropeltis californiae*). *Journal of Herpetology* 49(3):420–427. Accessed January 22, 2025. <http://www.jstor.org/stable/44164615>

APLIC (Avian Power Line Interaction Committee). 2006. Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006. Washington, D.C.: Edison Electric Institute and APLIC. Accessed January 22, 2025. <https://www.nrc.gov/docs/ML1224/ML12243A391.pdf>

APLIC (Avian Power Line Interaction Committee). 2012. Reducing Avian Collisions with Power Lines: The State of the Art in 2012. Washington, D.C.: Edison Electric Institute and APLIC. Accessed January 23, 2025. <https://www.resolutionmineeis.us/sites/default/files/references/avian-power-line-2012.pdf>

Programmatic Environmental Impact Statement

- APLIC (Avian Power Line Interaction Committee). 2015. Best Management Practices for Electric Utilities in Sage-Grouse Habitat. Washington, D.C.: Edison Electric Institute and APLIC. Accessed January 23, 2025. https://aplic.org/uploads/files/15646/SAGR%20BMP%20FINAL_June%202015.pdf
- Arcese, P., M. K. Sogge, A. B. Marr, and M. A. Patten. 2020. Song Sparrow (*Melospiza melodia*), version 1.0. In Birds of the World (A. F. Poole and F. B. Gill, Editors). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 23, 2025. <https://doi.org/10.2173/bow.sonspa.01>
- Arid Lands Initiative. 2014. The Arid Lands Initiative – Shared Priorities for Conservation at a Landscape Scale. Summary Prepared by Sonia A. Hall (SAH Ecologia LLC) and the Arid Lands Initiative Core Team, Wenatchee, Washington. Accessed September 17, 2025. <https://aridlandsinitiative.org/our-shared-priorities/>
- Audubon (National Audubon Society). 2013. Important Bird Areas Database, Boundary Digital Data Set. August 9, 2024. <https://databasin.org/datasets/297deb2ae93b475a90416a8589762023/>
- Audubon. 2024. Audubon Open Data Library – IBA Polygons Public. Accessed January 6, 2025. <https://data-library-audubon.hub.arcgis.com/datasets/audubon::iba-polygons-public-1/explore?layer=0&location=47.407528%2C-120.384628%2C7.89>
- Audubon. 2025. iba polygons public. Accessed June 9, 2025. <https://data-library-audubon.hub.arcgis.com/datasets/audubon::iba-polygons-public-1/about?layer=0>
- Audubon Washington. Not dated. The Great Washington State Birding Trail. Accessed September 20, 2024. <https://wa.audubon.org/birds/great-washington-state-birding-trail>
- AZA Small Carnivore TAG (Taxon Advisory Group). 2010. Mustelid (*Mustelidae*) Care Manual. Silver Spring, Maryland: Association of Zoos and Aquariums. Accessed October 31, 2024. <https://nagonline.net/wp-content/uploads/2014/05/MustelidCareManual2010-NAG-EDIT.pdf>
- Azerrad, J. M. 2012. Management Recommendations for Washington’s Priority Species: Great Blue Heron. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01371/wdfw01371.pdf>

Programmatic Environmental Impact Statement

- Azerrad, J. M., K. A. Divens, M. F. Livingston, M. S. Teske, H. L. Ferguson, and J. L. Davis. 2011. Site-specific Management: How to Avoid and Minimize Impacts of Development to Shrub-steppe. Olympia, Washington: Washington Department of Fish and Wildlife. <https://wdfw.wa.gov/publications/01335>
- Babic, F. 2017. Discussion on Noise and its Impact on Birds. Canadian Acoustical Association 45(3):112–113. Accessed January 23, 2025. <https://jcaa.caa-aca.ca/index.php/jcaa/article/view/3072>
- Balmori, A. 2006. The Incidence of Electromagnetic Pollution on the Amphibian Decline: Is this an Important Piece of the Puzzle? Toxicological & Environmental Chemistry 88(2):287–299. Accessed January 23, 2025. <https://doi.org/10.1080/02772240600687200>
- Balmori, A. 2010. Mobile Phone Mast Effects on Common Frog (*Rana temporaria*) Tadpoles: The City Turned Into a Laboratory. Electromagnetic Biology and Medicine 29(1–12):31–35. Accessed January 23, 2025. <https://doi.org/10.3109/15368371003685363>
- Balmori, A. 2015. Anthropogenic Radiofrequency Electromagnetic Fields as an Emerging Threat to Wildlife Orientation. Science of The Total Environment 518–519:58–60. Accessed January 23, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S0048969715002296?via%3Dihub>
- Barnard, R. J., J. Johnson, P. Brooks, et al. 2013. Water Crossing Design Guidelines, Washington Department of Fish and Wildlife. Olympia, Washington. Accessed January 23, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01501/wdfw01501.pdf>
- Barnes, T. A., J. F. Dwyer, E. K. Mojica, P. A. Petersen, and R. E. Harness. 2022. Wildland Fires Ignited by Avian Electrocutions. Wildlife Society Bulletin, 46(3). Accessed January 23, 2025. <https://doi.org/10.1002/wsb.1302>
- Barrass, A. N. 1985. The Effects of Highway Traffic Noise on the Phonotactic and Associated Reproductive Behavior of Selected Anurans [Thesis]. Vanderbilt University, Nashville, Tennessee. Accessed November 5, 2024. <https://www.proquest.com/docview/303436432?fromopenview=true&fromunauthdoc=true&pq-origsite=gscholar&sourcetype=Dissertations%20%20Theses>

Programmatic Environmental Impact Statement

- Barré, K., I. Thomas, I. Le Viol, K. Spoelstra, and C. Kerbiriou. 2023. Manipulating Spectra of Artificial Light Affects Movement Patterns of Bats Along Ecological Corridors. *Animal Conservation* 26(6):865–875. Accessed January 23, 2025. <https://zslpublications.onlinelibrary.wiley.com/doi/10.1111/acv.12875>
- Bartzke, G. S., R. May, K. Bevanger, S. Stokke, and E. Røskft. 2014. The Effects of Power Lines on Ungulates and Implications for Power Line Routing and Rights-Of-Way Management. *International Journal of Biodiversity and Conservation* 6(9):647–662. Accessed January 23, 2025. <https://pdfs.semanticscholar.org/c728/88c139b7459b704760244abeaa5f2cfce007.pdf>
- Bartzke, G. S., R. May, E. J. Solberg, C. M. Rolandsen, and E. Røskft. 2015. Differential Barrier and Corridor Effects of Power Lines, Roads and Rivers on Moose (*Alces alces*) Movements. *Ecosphere* 6(4):1–17. Accessed January 23, 2025. <http://dx.doi.org/10.1890/ES14-00278.1>
- Baxter-Gilbert, J. H., J. L. Riley, C. J. H. Neufeld, J. D. Litzgus, and D. Lesbarrères. 2015. Road Mortality Potentially Responsible for Billions of Pollinating Insect Deaths Annually. *Journal of Insect Conservation* 19:1029–1035. Accessed January 23, 2025. <https://link.springer.com/article/10.1007/s10841-015-9808-z>
- Bayne, E. M. and K. A. Hobson. 1998. The Effects of Habitat Fragmentation by Forestry and Agriculture on the Abundance of Small Mammals in the Southern Boreal Mixedwood Forest. *Canadian Journal of Zoology* 76(1):62–68. Accessed January 23, 2025. <https://cdnsiencepub.com/doi/10.1139/z97-171>
- Bayne, E. M., L. Habib, and S. Boutin. 2008. Impacts of Chronic Anthropogenic Noise from Energy-Sector Activity on Abundance of Songbirds in the Boreal Forest. *Conservation Biology* 22(5):1186–1193. Accessed January 23, 2025. <https://pubmed.ncbi.nlm.nih.gov/18616740/>
- Bee, M. A. and E. M. Swanson. 2007. Auditory Masking of Anuran Advertisement Calls by Road Traffic Noise. *Animal Behaviour* 74(6):1765–1776. Accessed January 23, 2025. <https://doi.org/10.1016/j.anbehav.2007.03.019>
- Bélisle, M., and C. C. St. Clair. 2001. Cumulative Effects of Barriers on the Movements of Forest Birds. *Conservation Ecology* 5(2). Accessed November 29, 2023. <https://doi.org/10.5751/ES-00312-050209>

Programmatic Environmental Impact Statement

- Benítez-López, A., R. Alkemade, and P. A. Verweij. 2010. Are Mammal and Bird Populations Declining in the Proximity of Roads and Other Infrastructure? CEE review 09-007 (SR68). Collaboration for Environmental Evidence. Accessed June 9, 2022. <https://environmentalevidence.org/project/are-mammal-and-bird-populations-declining-in-the-proximity-of-roads-and-other-infrastructure-systematic-review/>
- Benoit-Pépin, A., M. J. Feldman, L. Imbeau, and O. Valeria. 2024. Use of Linear Features by Mammal Predators and Prey in Managed Boreal Forests. *Forest Ecology and Management* 561. Accessed January 23, 2025. <https://doi.org/10.1016/j.foreco.2024.121911>
- Benson, J. E., R. K. Tveten, M. G. Asher, and P. W. Dunwiddie. 2011. *Shrub-Steppe and Grassland Restoration Manual for the Columbia River Basin*. Olympia, Washington: Washington Department of Fish and Wildlife. <https://wdfw.wa.gov/publications/01330>
- Berg, Å., K. Bergman, J. Wissman, M. Żmihorski, and E. Öckinger. 2016. Power-Line Corridors as Source Habitat for Butterflies in Forest Landscapes. *Biological Conservation* 201:320–326. Accessed January 23, 2025. <https://doi.org/10.1016/j.biocon.2016.07.034>
- Bergamini, E., S. Prandelli, F. Minelli, and R. C. Gatti. 2024. Impacts of Noise Pollution from High-speed Rail and Road on Bird Diversity: A Case Study in a Protected Area of Italy. *Environmental Science and Pollution Research* 31(22):1–10. Accessed January 23, 2025. https://www.researchgate.net/publication/379960112_Impacts_of_noise_pollution_from_high-speed_rail_and_road_on_bird_diversity_a_case_study_in_a_protected_area_of_Italy
- Bernardino, J., K. Bevanger, R. Barrientos, et al.. 2018. Bird Collisions with Power Lines: State of the Art and Priority Areas for Research. *Biological Conservation* 222:1–13. Accessed January 23, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S0006320717317925>
- Beschta, R. L. 1997. Riparian Shade and Stream Temperature: An Alternative Perspective. *Rangelands* 19(2):25–28. Accessed January 23, 2025. <https://journals.uair.arizona.edu/index.php/rangelands/article/viewFile/11326/10599#:~:text=Riparian%20Shade%20and%20Stream%20Temperature>

Programmatic Environmental Impact Statement

- Betts, M. G., Z. Yang, A. S. Hadley, et al.. 2022. Forest Degradation Drives Widespread Avian Habitat and Population Declines. *Nature Ecology and Evolution* 6:709–719. Accessed January 23, 2025. <https://www.nature.com/articles/s41559-022-01737-8>
- Biasotto, L. D., and A. Kindel. 2018. Power Lines and Impacts on Biodiversity: A Systematic Review. *Environmental Impact Assessment Review* 71:110–119. Accessed January 23, 2025. <https://doi.org/10.1016/j.eiar.2018.04.010>
- BirdLife International. 2021. Protecting Birds Where They Live and Migrate. Accessed July 31, 2024. <https://www.birdlife.org/projects/ibas-mapping-most-important-places/>
- Bird Studies Canada. 2024. IBA Criteria. Accessed September 16, 2024. https://www.ibacanada.ca/iba_criteria.jsp?lang=EN
- BirdWeb. 2005. Ecoregions and Birding Sites. Accessed July 30, 2024. www.birdweb.org/birdweb/sites
- BirdWeb. 2024. Okanogan Ecoregion and Birding Sites. Accessed October 8, 2024. <https://www.birdweb.org/birdweb/ecoregion/sites/okanogan/%27site%27>
- Bishop, C. A., and J. M. Brogan. 2013. Estimates of Avian Mortality Attributed to Vehicle Collisions in Canada. *Avian Conservation and Ecology* 8(2):2. Accessed January 23, 2025. <http://dx.doi.org/10.5751/ACE-00604-080202>
- Borowik, T., M. Ratkiewicz, W. Maślanko, N. Duda, and R. Kowalczyk. 2020. The Level of Habitat Patchiness Influences Movement Strategy of Moose in Eastern Poland. *PLOS ONE* 15(3). Accessed January 23, 2025. <https://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0230521>
- Bouskila, A. 1995. Interactions Between Predation Risk and Competition: A Field Study of Kangaroo Rats and Snakes. *Ecology* 76(1):165–178. Accessed January 23, 2025. <https://esajournals.onlinelibrary.wiley.com/doi/10.2307/1940639>
- Bowers, M. 1988. Seed Removal Experiments on Desert Rodents: The Microhabitat by Moonlight Effect. *Journal of Mammalogy* 69(1):201–204. Accessed January 23, 2025. <https://www.semanticscholar.org/paper/Seed-Removal-Experiments-on-Desert-Rodents%3A-The-by-Bowers/c0c6c6be43ea4a9c41601175498e38cec930e672>

Programmatic Environmental Impact Statement

- Boyce, D. H., D. M. Evans, R. Fox, M. S. Parsons, and M. J. O. Pocock. 2021. Street Lighting Has Detrimental Impacts on Local Insect Populations. *Science Advances* 7(35). Accessed January 23, 2025. <https://www.science.org/doi/10.1126/sciadv.abi8322>
- Boyle, S. P., J. D. Litzgus, and D. Lesbarrères. 2020. Limited Evidence for Negative Effects of Highway Widening on North American Large Mammals. *European Journal of Wildlife Research* 66(90). Accessed January 23, 2025. <https://doi.org/10.1007/s10344-020-01428-4>
- BPA (Bonneville Power Administration). 2019. Threatened Frogs Find Refuge in BPA Transmission Line Corridors. Accessed August 20, 2024. <https://www.bpa.gov/-/media/Aep/about/publications/news-releases/20190415-pr-05-19-threatened-frogs-find-refuge-in-bpa-transmission-line-corridors.pdf>
- Bradshaw, C. J. A., S. Boutin, and D. M. Hebert. 1997. Effects of Petroleum Exploration on Woodland Caribou in Northeastern Alberta. *Journal of Wildlife Management* 61(4):1127–1133. Accessed January 23, 2025. <https://researchnow.flinders.edu.au/en/publications/effects-of-petroleum-exploration-on-woodland-caribou-in-northeast>
- Bramble, W. C., W. R. Byrnes, and M. D. Schuler. 1986. Effects of Special Right-of-Way Maintenance on an Avian Population. *Journal of Arboriculture* 12(9). Accessed January 23, 2025. <https://auf.isa-arbor.com/content/isa/12/9/219.full.pdf>
- Bramble, W. C., R. H. Yahner, and W. R. Byrnes. 1992. Breeding-Bird Population Changes Following Right-of-Way Maintenance Treatments. *Journal of Arboriculture* 18(1). Accessed January 23, 2025. <https://auf.isa-arbor.com/content/isa/18/1/23.full.pdf>
- Brosius, M. 2010. Effects of Transmission Lines and Pipelines on Wetland and Wildlife, and Best Management Practices – A Literature Review. Maryland Department of the Environment. Baltimore, Maryland: Wetlands and Waterways Program. Accessed January 23, 2025. https://www.nawm.org/state_meeting/2017/doc bmp final conv.pdf
- Browne, C. L. and C. A. Paszkowski. 2010. Hibernation Sites of Western Toads (*Anaxyrus boreas*): Characterization and Management Implications. *Herpetological Conservation and Biology* 5(1):49–63. Accessed January 23, 2025. https://www.researchgate.net/publication/228493631_Hibernation_sites_of_western_toads_Anaxyrus_boreas_Characterization_and_management_implications

Programmatic Environmental Impact Statement

- Bull, E. 2006. Sexual Differences in the Ecology and Habitat Selection of Western Toads (*Bufo boreas*) in Northeastern Oregon. *Herpetological Conservation and Biology* 1(1):27–38. Accessed January 23, 2025. https://www.herpconbio.org/volume_1/issue_1/Bull_2006.pdf
- Burke Museum. 2013. Mammals of Washington. Seattle, Washington. Accessed July 31, 2024. https://www.burkemuseum.org/collections-and-research/biology/mammalogy/mamwash/?_ga=2.1566001.1884039949.1730158265-2075511111.1730158265
- Butler, R. W. 1991. Habitat Selection and Time of Breeding in the Great Blue Heron (*Ardea herodias*) [PhD Thesis]. University of British Columbia. Accessed December 14, 2023. <https://open.library.ubc.ca/soa/cIRcle/collections/ubctheses/831/items/1.0100392>
- Butler, R. W. 1997. The Great Blue Heron: A Natural History and Ecology of a Seashore Sentinel. Vancouver, British Columbia: UBC Press.
- Cabrera-Cruz, S. A. and R. Villegas-Patraca. 2016. Response of Migrating Raptors to an Increasing Number of Wind Farms. *Journal of Applied Ecology* 53(6):1667–1675. Accessed January 23, 2025. <https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2664.12673>
- CALTRANS (California Department of Transportation). 2016. Technical Guidance for Assessment and Mitigation of the Effects of Traffic Noise and Road Construction Noise on Birds. Sacramento, California: The California Department of Transportation, Division of Environmental Analysis, Sacramento. Accessed October 31, 2024. <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/noise-effects-on-birds-jun-2016-a11y.pdfpdf>
- Cassola, F. 2016. *Marmota olympus*. The IUCN Red List of Threatened Species 2016: e. T42459A22257452. Accessed January 23, 2025. <https://www.iucnredlist.org/species/42459/22257452#population>
- Castaneda, E., V. R. Leavings, R. F. Noss, and M. K. Grace. 2020. The Effects of Traffic Noise on Tadpole Behavior and Development. *Urban Ecosystems* 23:245–253. Accessed January 23, 2025. <https://link.springer.com/article/10.1007/s11252-020-00933-3>

Programmatic Environmental Impact Statement

- CEC (Commission for Environmental Cooperation). 2011. North American Terrestrial Ecoregions—Level III (E. Wiken, F. J. Nava, and G. Griffith, Editors). Montreal, Québec. Accessed July 30, 2024.
www.cec.org/files/documents/publications/10415-north-american-terrestrial-ecoregionslevel-iii-en.pdf
- Cecala, K. K., W. H. Lowe, and J. C. Maerz. 2014. Riparian Disturbance Restricts In-Stream Movement of Salamanders. *Freshwater Biology* 59(11):2354–2364. Accessed January 23, 2025. <https://doi.org/10.1111/fwb.12439>
- Chamberlain, C. P., V. R. Kane, and M. J. Case. 2021. Accelerating the Development of Structural Complexity: lidar Analysis Supports Restoration as a Tool in Coastal Pacific Northwest Forests. *Forest Ecology and Management*, 500. Accessed January 23, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S0378112721007313>
- Chan-McLeod, A. C. A. 2003. Factors Affecting the Permeability of Clearcuts to Red-Legged Frogs. *The Journal of Wildlife Management* 67(4):663–671. Accessed January 23, 2025. <https://doi.org/10.2307/3802673>
- Colorado State University. 2016. Outdoor Recreation in Protected Areas Negatively Impacts Wildlife. Fort Collins, Colorado. Accessed September 3, 2024. <https://phys.org/news/2016-12-outdoor-recreation-areas-negatively-impacts.html>
- Combs, J. K, D. W. Stinson, and A. Potter. 2023. Periodic Status Review for the Mardon Skipper. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/sites/default/files/publications/02417/wdfw02417.pdf>
- Conservation Biology Institute. 2024. Data Basin. Accessed September 11, 2024. <https://databasin.org/maps/new/#datasets=ae02301d773945c983001a109cef09d6>
- Copping, A. E., L. G. Hemery, H. Viehman, A. C. Seitz, G. J. Staines, and D. J. Hasselman. 2021. Are Fish in Danger? A Review of Environmental Effects of Marine Renewable Energy on Fishes. *Biological Conservation* 262:1–13. Accessed January 23, 2025. <https://doi.org/10.1016/j.biocon.2021.109297>

Programmatic Environmental Impact Statement

- Corkran, C. C., and C. Thoms. 1996. *Amphibians of Oregon, Washington and British Columbia: A Field Identification Guide*. Tukwila, Washington: Lone Pine Publishing.
- Cornell, E. A., and J. P. Hailman. 1984. Pupillary Responses of Two *Rana pipiens*-complex Anuran Species. *Herpetologica* 40(4):356–366. Accessed January 23, 2025. <https://www.jstor.org/stable/3892087>
- Cornell Lab. 2024. *Birds of the World*. Ithaca, New York: Cornell Lab of Ornithology. Accessed September 9, 2024. <https://birdsoftheworld.org.proxy.birdsoftheworld.org/bow/home>
- COSEWIC (Committee on the Status of Endangered Wildlife in Canada). 2012. COSEWIC Assessment and Status Report on the Western Toad (*Anaxyrus boreas*) Non-calling Population/Calling Population in Canada. COSEWIC Ott. xiv:71. Accessed October 28, 2024. <https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-assessments-status-reports/western-toad-2012.html>
- Cott, P. A., A. Schein, B. W. Hanna, T. A. Johnston, D. D. MacDonald, and J. M. Gunn. 2015. Implications of Linear Developments on Northern Fishes. *Environmental Review* 23:1–14. Accessed January 23, 2025. [https://nwt.discoveryportal.enr.gov.nt.ca/geoportal/documents/Cott%20et%20al.%202015 linear%20devel fish Env.%20Rev.pdf](https://nwt.discoveryportal.enr.gov.nt.ca/geoportal/documents/Cott%20et%20al.%202015%20linear%20development%20fish%20environmental%20review.pdf)
- Cramer, M. L. (Managing Editor). 2012. *Stream Habitat Restoration Guidelines*. Olympia, Washington: Co-published by the Washington Departments of Fish and Wildlife, Natural Resources, Transportation, and Ecology, Washington State Recreation and Conservation Office, Puget Sound Partnership, and the US. Fish and Wildlife Service. Accessed January 23, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01374/wdfw01374.pdf>
- Crooks, K. R., C. L. Burdett, D. M. Theobald, et al. 2017. Quantification of Habitat Fragmentation Reveals Extinction Risk in Terrestrial Mammals. *Proceedings of the National Academy of Sciences* 114(29):7635–7640. Accessed January 23, 2025. <https://pubmed.ncbi.nlm.nih.gov/28673992/>
- Cullinan, T. 2001. *Important Bird Areas of Washington*. Olympia, Washington: Audubon Washington. Accessed January 23, 2025. https://wa.audubon.org/sites/default/files/static_pages/attachments/iba-1-50_pacific_coast.pdf

Programmatic Environmental Impact Statement

- Daniel-Ferreira, J., R. Bommarco, J. Wissman, and E. Öckinger. 2020. Linear Infrastructure Habitats Increase Landscape-scale Diversity of Plants but not of Flower-visiting Insects. *Scientific Reports* 10(21374). Accessed January 23, 2025. <https://doi.org/10.1038/s41598-020-78090-y>
- Dawson, W. R. 2020. Pine Siskin (*Spinus pinus*), version 1.0. In *Birds of the World* (A. F. Poole, Editor). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 23, 2025. <https://doi.org/10.2173/bow.pinsis.01>
- DeMars, C. A., and S. A. Boutin. 2018. Nowhere to Hide: Effects of Linear Features on Predator–Prey Dynamics in a Large Mammal System. *Journal of Animal Ecology* 87(1):274–284. Accessed January 23, 2025. <https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2656.12760>
- Desimone, S. M. 2016. Periodic Status Review for the Marbled Murrelet in Washington. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/publications/01827>
- Desrochers, A., and S. Hannon. 1997. Gap Crossing Decisions by Forest Songbirds during the Post-Fledging Period. *Conservation Biology* 11(5):1204–1210. Accessed January 23, 2025. <https://www.jstor.org/stable/2387402>
- Develop with Care. 2014. Environmental Guidelines for Urban and Rural Land Development in British Columbia. Fact Sheet #13, Western Toad. Accessed September 25, 2024. <https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/best-management-practices/develop-with-care/fact-sheet-13-western-toad.pdf>
- Dickie, M., S. R. McNay, G. D. Sutherland, M. Cody, and T. Avgar. 2020. Corridors or Risk? Movement Along, and Use of, Linear Features Varies Predictably Among Large Mammal Predator and Prey Species. *The Journal of Animal Ecology* 89(2):623–634. Accessed January 23, 2025. <https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2656.13130>
- DNR (Washington State Department of Natural Resources). 2021. DNR Hydrography - Water Bodies - Forest Practices Regulation. Accessed July 31, 2025. https://data-wadnr.opendata.arcgis.com/datasets/28a0f93c33454297b4a9d3faf3da552a_1/explore?location=47.222021%2C-120.817200%2C7.78

Programmatic Environmental Impact Statement

- DNR (Washington State Department of Natural Resources). 2022. Ecoregions of the Pacific Northwest. Accessed August 21, 2024. <https://data-wadnr.opendata.arcgis.com/datasets/wadnr::ecoregions-of-the-pacific-northwest/explore?location=42.975673%2C-119.790189%2C5.18>
- DNR (Washington State Department of Natural Resources). 2024. Forest Practices Water Typing. Accessed August 19, 2024. <https://www.dnr.wa.gov/forest-practices-water-typing>
- DNR (Washington State Department of Natural Resources). 2025. Natural Areas. Accessed July 28, 2025. <https://dnr.wa.gov/natural-areas>
- Doody, J. S., P. West, J. Stapley, et al. 2003. Fauna By-Catch in Pipeline Trenches: Conservation, Animal Ethics, and Current Practices in Australia. *Australian Zoologist* 32(3):410–419. Accessed January 23, 2025. <https://meridian.allenpress.com/australian-zoologist/article/32/3/410/134968/Fauna-by-catch-in-pipeline-trenches-conservation>
- Ducks Unlimited Canada. 2008. Next Box Guide for Waterfowl. Accessed September 20, 2024. https://www.ab-conservation.com/downloads/educational_materials/brochures/nest_box_guide_and_instructions.pdf
- Drewitt, A. L., and R. H. W. Langston. 2006. Assessing the Impacts of Wind Farms on Birds. *Ibis* 148(s1):29–42. Accessed January 23, 2024. <https://onlinelibrary.wiley.com/doi/full/10.1111/j.1474-919X.2006.00516.x>
- D’Souza, F., and R. D. Martin. 1974. Maternal Behaviour and the Effects of Stress in Tree Shrews. *Nature* 251:309–311. Accessed January 23, 2025. <https://doi.org/10.1038/251309a0>
- Dwyer J. F., A. K. Pandey, L. A. McHale, and R. E. Harness. 2019. Near-Ultraviolet Light Reduced Sandhill Crane Collisions with a Power Line by 98%. *The Condor* 121(2):1–10. Accessed January 23, 2025. <https://academic.oup.com/condor/article/121/2/duz008/5476728>
- Ecology (Washington State Department of Ecology). 2012a. Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Publication No. 12-10-030. Olympia, Washington. Accessed January 23, 2025. <https://apps.ecology.wa.gov/publications/parts/1210030part5.pdf>

Programmatic Environmental Impact Statement

Ecology (Washington State Department of Ecology). 2012b. Vehicle and Equipment Washwater Discharges. Best Management Practices Manual. Olympia, Washington. Accessed January 23, 2025.

<https://apps.ecology.wa.gov/publications/summarypages/95056.html>

Ecology (Washington State Department of Ecology). 2024. Stormwater Management Manual for Eastern Washington. Olympia, Washington. Accessed October 28, 2024.

https://fortress.wa.gov/ecy/ezshare/wq/SWMMs/2024SWMMEW/Content/Resources/DocsForDownload/2024SWMMEW_6-14-24.pdf

Ecology (Washington State Department of Ecology), U.S. Army Corps of Engineers Seattle District, and U.S. Environmental Protection Agency Region 10. 2006. Wetland Mitigation in Washington State-Part 2: Developing Mitigation Plans (Version 1), Washington State Department of Ecology Publication #06-06-011b. Olympia, Washington. Accessed January 23, 2025.

<https://apps.ecology.wa.gov/publications/parts/1210030part5.pdf>

Ecology (Washington State Department of Ecology), U.S. Army Corps of Engineers Seattle District, and U.S. Environmental Protection Agency Region 10. 2021. Wetland Mitigation in Washington State- Part 1: Agency Policies and Guidance (Version 2), Washington State Department of Ecology Publication #21-06-003. Olympia, Washington. Accessed January 23, 2025. <https://apps.ecology.wa.gov/publications/documents/2106003.pdf>

Ecology, USFS, and BLM (Washington State Department of Ecology; U.S. Department of Agriculture, Forest Service; and Bureau of Land Management). 2025. Hydrography - NHD Waterbodies. Accessed September 2, 2025. <https://geo.wa.gov/datasets/waacy::hydrography-nhd-waterbodies/about>

ECOSTEM Ltd. 2019. Keeyask Transmission Project: Environmental Effects Monitoring – Ecosystem Diversity Monitoring in 2018. A Report Prepared for Manitoba Hydro by ECOSTEM Ltd., January 2019. Accessed January 23, 2025.

https://www.hydro.mb.ca/docs/projects/keeyask/ecosystem_diversity_report_2019.pdf

Eftestøl, S., D. Tsegaye, K. Flydal, and J. E. Colman. 2016. From High Voltage (300kV) to Higher Voltage (420kV) Power Lines: Reindeer Avoid Construction Activities. Polar Biology 39:689–699. Accessed August 30, 2024. <https://link.springer.com/article/10.1007/s00300-015-1825-6>

Programmatic Environmental Impact Statement

- Eggeman, S. L., M. Hebblewhite, H. Bohm, J. Whittington, and E. H. Merrill. 2016. Behavioural Flexibility in Migratory Behaviour in a Long-Lived Large Herbivore. *Journal of Animal Ecology* 85(3):785–797. Accessed January 23, 2025. <https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2656.12495>
- Enge, K. M., D. T. Cobb, G. L. Sprandel, and D. L. Francis. 1996. Wildlife Captures in a Pipeline Trench in Gadsen County, Florida. *Florida Scientist, Quarterly Journal of The Florida Academy of Sciences* 59(1):1–11. Accessed January 23, 2025. <https://www.jstor.org/stable/24320660>
- Environmental BioAcoustics. 2007. The Effects of Highway Noise on Birds. Prepared for The California Department of Transportation. Accessed January 23, 2025. <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/bio-effects-hwy-noise-birds-100707-a11y.pdf>
- EPA (U.S. Environmental Protection Agency). 2025. Current Implementation of Waters of the United States. Last updated January 17, 2025. Accessed February 5, 2025. <https://www.epa.gov/wotus/current-implementation-waters-united-states>
- Erritzøe, J., T. D. Mazgajski, and R. Lukasz. 2003. Bird Casualties on European Roads - A Review. *Acta Ornithologica* 38(2):77–93. Accessed January 23, 2025. https://www.researchgate.net/publication/258211778_Bird_Casualties_on_European_Roads_-_A_Review
- Erskine D. J., and V. H. Hutchison. 1982. Reduced Thermal Tolerance in an Amphibian Treated with Melatonin. *Journal of Thermal Biology* 7(2):121–123. Accessed January 23, 2025. https://www.academia.edu/103963986/Reduced_thermal_tolerance_in_an_amphibian_treated_with_melatonin?uc-sb-sw=6642114
- Ervin, E. L., R. N. Fisher, and K. R. Crooks. 2001. Factors Influencing Road-Related Amphibian Mortality in Southern California. University of California, Davis: Road Ecology Center. Accessed January 23, 2025. <https://escholarship.org/uc/item/9tq3k4vr>
- Ewers, R. M., and R. K. Didham. 2006. Confounding Factors in the Detection of Species Responses to Habitat Fragmentation. *Biological Reviews* 81(1):117–142. Accessed January 23, 2025. <https://onlinelibrary.wiley.com/doi/abs/10.1017/S1464793105006949>

Programmatic Environmental Impact Statement

- Fain, G. L., H. R. Matthews, M. C. Cornwall, and Y. Koutalos. 2001. Adaptation in Vertebrate Photoreceptors. *Physiological Review* 81(1):117–151. Accessed January 23, 2025. <https://pubmed.ncbi.nlm.nih.gov/11152756/>
- Ferrer, M., M. De Lucas., E. Hinojosa, and V. Morandini. 2020. Transporting Biodiversity Using Transmission Power Lines as Stepping-Stones? *Diversity* 12(11):439. Accessed January 23, 2025. <https://doi.org/10.3390/d12110439>
- Fisher, C., and M. Slater. 2010. Effects of Electromagnetic Fields on Marine Species: A Literature Review. Portland, Oregon: Oregon Wave Energy Trust. Accessed January 23, 2025. https://tethys.pnnl.gov/sites/default/files/publications/Effects_of_Electromagnetic_Fields_on_Marine_Species.pdf
- Folkerts, K. E., T. P. Johnson, and J. L. Michalak. 2023. PHS Local Government User Guide: Shrubsteppe and Eastside Steppe Map. Olympia, Washington: Habitat Program, Washington Department of Fish and Wildlife. <https://wdfw.wa.gov/publications/02424>
- Formicki, K., and A. Winnicki. 1998. Reactions of Fish Embryos and Larvae to Constant Magnetic Fields. *Italian Journal of Zoology* 65:S1, 479–482. Accessed January 23, 2025. <https://www.tandfonline.com/doi/pdf/10.1080/11250009809386870>
- Fortin, C., and G. Doucet. 2008. Small Mammal Communities along Transmission Power Line Rights-of-Way in Deciduous Forests of Québec. *Environment Concerns in Rights-of-Way Management 8th International Symposium*. Accessed January 23, 2025. <https://www.semanticscholar.org/paper/Small-Mammal-Communities-along-Transmission-Power-Fortin-Doucet/4478906d57cca8b2959b96450ac6fe3d4e7d309e>
- Francis, C. D., C. P. Ortega, and A. Cruz. 2009. Noise Pollution Changes Avian Communities and Species Interactions. *Current Biology* 19(16):1415–1419. Accessed January 23, 2025. <https://pubmed.ncbi.nlm.nih.gov/19631542/>
- Froidevaux J. S. P., G. Jones, C. Kerbiriou, and K. J. Park. 2023. Acoustic Activity of Bats at Power Lines Correlates with Relative Humidity: A Potential Role for Corona Discharges. *Proceedings of the Royal Society B: Biological Sciences* 290(1995). Accessed January 23, 2025. <https://doi.org/10.1098/rspb.2022.2510>

Programmatic Environmental Impact Statement

- Fukumoto, J., and S. Herrero. 1998. Observations of the Long-toed Salamander, *Ambystoma macrodactylum*, in Waterton Lakes National Park, Alberta. *Canadian Field-Naturalist* 112(4):579–585. Accessed January 23, 2025. <https://www.biodiversitylibrary.org/part/358485>
- Garshelis, D. L. 2000. Delusions in Habitat Evaluation: Measuring Use, Selection and Importance. In Boitani, L. and T. K. Fuller (Editors), pp. 111–164, *Research Techniques in Animal Ecology: Controversies and Consequences*. New York, New York: Columbia University Press. Accessed January 23, 2025. https://www.researchgate.net/publication/236981849_Delusions_in_Habitat_Evaluation_Measuring_Use_Selection_and_Importance
- Gaston K. J., and J. Bennie. 2014. Demographic Effects of Artificial Nighttime Lighting on Animal Populations. *Environmental Reviews* 22(4):323–330. Accessed January 23, 2025. <https://doi.org/10.1139/er-2014-0005>
- Gaston K. J., J. Bennie, T. W. Davies, and J. Hopkins. 2013. The Ecological Impacts of Nighttime Light Pollution: A Mechanistic Appraisal. *Biological Reviews* 88(4):912–927. Accessed January 23, 2025. <https://onlinelibrary.wiley.com/doi/full/10.1111/brv.12036>
- Gerlach, G., and K. Musolf. 2000. Fragmentation of Landscape as a Cause for Genetic Subdivision in Bank Voles. *Conservation Biology* 14(4):1066–1074. Accessed January 23, 2025. <https://conbio.onlinelibrary.wiley.com/doi/abs/10.1046/j.1523-1739.2000.98519.x>
- Goodwin, J. G. 1975. Big Game Movement Near a 500-kV Transmission Line in Northern Idaho. Prepared for the Bonneville Power Administration, Engineering and Construction Division, Portland, Oregon. Boulder, Colorado: Intern with the Western Interstate Commission for Higher Education (WICHE), Resources Development Internship Program (RDIP).
- Gravel M., M. J. Mazerolle, and M. Villard. 2012. Interactive Effects of Roads and Weather on Juvenile Amphibian Movements. *Amphibia-Reptilia* 33(1):113–127. Accessed January 23, 2025. https://brill.com/view/journals/amre/33/1/article-p113_11.xml
- Grid North Partners. 2021. Underground Transmission Lines. Accessed September 27, 2024. <https://gridnorthpartners.com/wp-content/uploads/2021/02/Underground-Transmission-Lines.pdf>

Programmatic Environmental Impact Statement

- Gunson, K. E., B. Chruszcz, and A. P. Clevenger. 2003. Large Animal-Vehicle Collisions in the Central Canadian Rocky Mountains: Patterns and Characteristics. In Irwin, C. L., P. Garrett, and K. P. McDermott (Editors), pp. 355–366, Proceedings of the 2003 International Conference on Ecology and Transportation. Raleigh, North Carolina: Center for Transportation and the Environment, North Carolina State University. Accessed January 23, 2025. <https://escholarship.org/uc/item/3qm680qb>
- Gutiérrez, R. J., A. B. Franklin, and W. S. Lahaye. 2020. Spotted Owl (*Strix occidentalis*), version 1.0. In Birds of the World (A. F. Poole and F. B. Gill, Editors). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 23, 2025. <https://doi.org/10.2173/bow.spoowl.01>
- Gyug, L. W., R. C. Dobbs, T. E. Martin, and C. J. Conway. 2023. Williamson's Sapsucker (*Sphyrapicus thyroideus*), version 2.0. In Birds of the World (S. M. Billerman and B. K. Keeney, Editors). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 23, 2025. <https://doi.org/10.2173/bow.wilsap.02>
- Habib, L., E. M. Bayne, and S. Boutin. 2007. Chronic Industrial Noise Affects Pairing Success and Age Structure of Ovenbirds. Journal of Applied Ecology 44(1):176–184. Accessed January 23, 2025. <https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/j.1365-2664.2006.01234.x>
- Haddad, N. M., L. A. Brudvig, J. Clobert, et al. 2015. Habitat Fragmentation and Its Lasting Impact on Earth's Ecosystems. Science Advances 1(2). Accessed January 23, 2025. <https://doi.org/10.1126/sciadv.1500052>
- Hallock, L. A., A. McMillan, and G. J. Wiles. 2017. Periodic Status Review for the Western Pond Turtle in Washington. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/publications/01853>
- Hanski, I. 2015. Habitat Fragmentation and Species Richness. Journal of Biogeography 42:989–994. Accessed January 23, 2025. <https://onlinelibrary.wiley.com/doi/pdf/10.1111/jbi.12478>
- Harris, R. J., and J. M. Reed. 2002. Behavioral Barriers to Non-Migratory Movements of Birds. Annales Zoologici Fennici 39(4):275–290. Accessed January 23, 2025. <https://www.jstor.org/stable/23735827>

Programmatic Environmental Impact Statement

- Harvey, J. A., M. Abarca, P. K. Abram, et al. 2023. Scientists' Warning on Climate Change and Insects. *Ecological Monographs*, 93(1), e1553. Accessed January 23, 2025. <https://doi.org/10.1002/ecm.1553>
- Hayes, G. E., and J. A. Gallie. 2024. Draft Periodic Status Review for the Pygmy Rabbit. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/sites/default/files/publications/02507/wdfw02507.pdf>
- Hayes, G. E., and J. W. Watson. 2021. Periodic Status Review for the Ferruginous Hawk. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/publications/02210>
- Hayes, G. E., and G. J. Wiles. 2013. Washington State Bat Conservation Plan. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/publications/01504>
- Hays, D. W., and D. W. Stinson. 2019. Draft Periodic Status Review for the Oregon Silverspot in Washington. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 23, 2025. <https://wdfw.wa.gov/publications/02052>
- Hill, L. 2003. Assessing the Relative Contributions Transmission Line Rights-Of-Way Have on Habitat Utilization by Moose Case Study: Riding Mountain National Park [Thesis]. Winnipeg, Manitoba: University of Manitoba. Accessed January 23, 2025. <https://mspace.lib.umanitoba.ca/items/94247b8e-292e-45f7-9f90-153ccfda0d69>
- Hunt, P. D., and D. J. Flaspohler. 2020. Yellow-rumped Warbler (*Setophaga coronata*), version 1.0. In *Birds of the World* (P. G. Rodewald, Editor). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 23, 2025. <https://doi.org/10.2173/bow.yerwar.01>
- Husby, M. 2016. Factors Affecting Road Mortality in Birds. Norway: Nord University. Accessed January 23, 2025. https://www.researchgate.net/publication/313574432_Factors_affecting_road_mortality_in_birds
- iNaturalist Community. 2024a. Observations of Arthropods from Washington, United States, observed up to September 13, 2024. Accessed September 13, 2024. <https://www.inaturalist.org>

Programmatic Environmental Impact Statement

- iNaturalist Community. 2024b. Observations of Molluscs from Washington, United States, observed up to September 13, 2024. Accessed September 13, 2024. <https://www.inaturalist.org>
- iNaturalist Community. 2024c. Observations of Annelids from Washington, United States, observed up to September 13, 2024. Accessed September 13, 2024. <https://www.inaturalist.org>
- IUCN (International Union for Conservation of Nature). 2024. The IUCN Red List of Threatened Species. Version 2024-2. Cambridge, United Kingdom: IUCN Biodiversity Assessment & Knowledge Team: Red List Unit. Accessed December 2024. <https://www.iucnredlist.org>
- Jalkotzy, M. G., P. I. Ross, and M. D. Nasserden. 1997. The Effects of Linear Developments on Wildlife: A Review of Selected Scientific Literature. Calgary, Alberta: Prepared for Canadian Association of Petroleum Producers by Arc Wildlife Services Ltd. Accessed January 23, 2025. <https://www.arlis.org/docs/vol1/A/65937142.pdf>
- James, R. D. 1984. Habitat Management Guidelines for Cavity-Nesting Birds in Ontario. Peterborough, Ontario: Ontario Ministry of Natural Resources. Accessed September 20, 2024. <https://www.birdscanada.org/wp-content/uploads/2021/03/Habitat-Management-Guidelines-for-Cavity-nesting-birds-in-Ontario-1.pdf>
- Janža, R., N. Stritih-Peljhan, A. Škorjanc, J. Polajnar, and M. Virant-Doberlet. 2024. Vibrational Noise Disrupts *Nezara viridula* Communication, Irrespective of Spectral Overlap. *Communications Biology*, 7:1533. Accessed January 23, 2025. <https://doi.org/10.1038/s42003-024-07185-3>
- Jochimsen, D. M., C. R. Peterson, K. M. Andrews, and J. W. Gibbons. 2004. A Literature Review of the Effects of Roads on Amphibians and Reptiles and the Measures Used to Minimize Those Effects. Idaho Fish and Game Department and USDA Forest Service. Accessed January 23, 2025. <https://idfg.idaho.gov/sites/default/files/old-web/docs/wildlife/collisionAmphibRep.pdf>
- Johnson-Bice, S. M., T. D. Gable, A. T. Homkes, S. K. Windels, J. K. Bump, and J. G. Bruggink. 2023. Logging, Linear Features, and Human Infrastructure Shape the Spatial Dynamics of Wolf Predation on an Ungulate Neonate. *Ecological Applications* 33(7). Accessed January 23, 2025. <https://esajournals.onlinelibrary.wiley.com/doi/full/10.1002/eap.2911>

Programmatic Environmental Impact Statement

- Jones. P. F., A. F. Jakes, A. C. Telander, H. Sawyer, B. H. Martin, and M. Hebblewhite. 2019. Fences Reduce Habitat for a Partially Migratory Ungulate in the Northern Sagebrush Steppe. *Ecosphere* 10(7). Accessed September 5, 2024. <https://esajournals.onlinelibrary.wiley.com/doi/epdf/10.1002/ecs2.2782>
- Kahnonitch I., Y. Lubin, and C. Korine. 2018. Insectivorous Bats in Semi-Arid Agroecosystems – Effects on Foraging Activity and Implications for Insect Pest Control. *Agriculture, Ecosystems & Environment* 261:80-92. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S0167880917304851>
- Kaiser K., D. G. Scofield, M. Alloush, R. M. Jones, S. Marczak, K. Martineau, et al. 2011. When Sounds Collide: The Effect of Anthropogenic Noise on a Breeding Assemblage of Frogs in Belize, Central America. *Behaviour*, 148(2):215–232. Accessed January 24, 2025. <https://www.jstor.org/stable/25799807>
- Kauffman, M., B. Lowrey, C. Beaupre, et al. 2024. Ungulate Migrations of the Western United States, Volume 4: U.S. Geological Survey Scientific Investigations Report 2024–5006. Accessed January 24, 2025. <https://doi.org/10.3133/sir20245006>
- Kauffman, M., B. Lowrey, J. Berg, et al. 2022. Ungulate Migrations of the Western United States, Volume 3: U.S. Geological Survey Scientific Investigations Report 2022–5088. Accessed January 24, 2025. <https://doi.org/10.3133/sir20225088>
- Kays, R., A. W. Parsons, M. C. Baker, et al. 2017. Does Hunting or Hiking Affect Wildlife Communities in Protected Areas? *Journal of Applied Ecology* 54(1):242–252. Accessed January 24, 2025. <https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/1365-2664.12700>
- Keehn, J., K. Shoemaker, and C. Feldman. 2018. Population-Level Effects of Wind Farms on a Desert Lizard. *Journal of Wildlife Management* 83(1):145–157. Accessed September 19, 2025. <https://doi.org/10.1002/jwmg.21565>
- Kempenaers, B., P. Borgström, P. Loës, E. Schlicht, and M. Valcu. 2010. Artificial Night Lighting Affects Dawn Song, Extra-pair Siring Success, and Lay Date in Songbirds. *Current Biology* 20(19):1735–1739. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/pii/S0960982210010183>

Programmatic Environmental Impact Statement

- King, J. J., and R. S. Wagner. 2010. Toxic Effects of the Herbicide Roundup® Regular on Pacific Northwestern Amphibians. *Northwestern Naturalist* 91(3):318-324. Accessed January 24, 2025. https://www.researchgate.net/publication/232693449_Toxic_Effects_of_the_Herbicide_RoundupR_Regular_on_Pacific_Northwestern_Amphibians/citations
- Knight, K. 2009. Land Use Planning for Salmon, Steelhead and Trout. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/00033>
- Lambert, T. D., K. L. Sumpter, J. W. Dittel, et al. 2014. Roads as Barriers to Seed Dispersal by Small Mammals in a Neotropical Forest. *Tropical Ecology* 55(2):263-269. Accessed January 3, 2025. https://www.researchgate.net/profile/Jacob-Dittel/publication/286348484_Roads_as_barriers_to_seed_dispersal_by_small_mammals_in_a_neotropical_forest/links/567304dc08ae04d9b099bb32/Roads-as-barriers-to-seed-dispersal-by-small-mammals-in-a-neotropical-forest.pdf
- Langlois L. A., S. J. Brenner, and M. C. Brittingham. 2023. Collocating Pipelines to Minimize Fragmentation: Evaluating Ecological Costs of a Shale Gas Mitigation Practice. *Journal of Wildlife Management* 87(7):e22468. Accessed January 24, 2025. <https://wildlife.onlinelibrary.wiley.com/doi/full/10.1002/jwmg.22468>
- Larsen, E. M. (Editor). 1997. Management Recommendations for Washington's Priority Species, Volume III: Amphibians and Reptiles. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00025/wdfw00025.pdf>
- Larsen, E. M., J. M. Azerrad, and N. Nordstrom, eds. 2004. Management Recommendations for Washington's Priority Species, Volume IV: Birds. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00026/wdfw00026.pdf#:~:text=Management%20Recommendations%20for>
- Larsen, E. M., E. Rodrick, and R. Milner, eds. 1995. Management Recommendations for Washington's Priority Species, Volume I: Invertebrates. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00024/wdfw00024.pdf>

Programmatic Environmental Impact Statement

- Larson, C. L., S. E. Reed, A. M. Merenlender, and K. R. Crooks. 2016. Effects of Recreation on Animals Revealed as Widespread through a Global Systematic Review. PLOS ONE 11(12). Accessed January 24, 2025. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0167259>
- LeBeau, C. W., K. T. Smith, M. J. Holloran, J. L. Beck, M. E. Kauffman, and G. D. Johnson. 2019. Greater Sage-Grouse Habitat Function Relative to 230-kV Transmission Lines. The Journal of Wildlife Management 83(3):1773–1786. Accessed August 28, 2024. https://www.uwyo.edu/esm/faculty-and-staff/faculty/beck/_files/docs/publications/lebeau-et-al-2019-jwm.pdf
- Lehman, R. N., J. A. Savidge, P. L. Kennedy, and R. E. Harness. 2010. Raptor Electrocutation Rates for a Utility in the Intermountain Western United States. Journal of Wildlife Management 74(3):459–470. Accessed January 24, 2025. https://www.researchgate.net/publication/229514812_Raptor_Electrocutation_Rates_for_a_UTILITY_in_the_Intermountain_Western_United_States
- Lehmkuhl, J. F., and L. F. Ruggiero. 1991. Forest Fragmentation in the Pacific Northwest USA and Its Potential Effects on Wildlife. U.S. Forest Service General Technical Report PNW, 285:35–46. Accessed January 24, 2025. https://www.researchgate.net/publication/265280291_Forest_Fragmentation_in_the_Pacific_Northwest_and_its_Potential_Effects_on_Wildlife
- Lengagne, T. 2008. Traffic Noise Affects Communication Behavior in a Breeding Anuran, *Hyla arborea*. Biological Conservation 141(8):2023–2031. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S0006320708002024>
- Lesbarrères, D., S. L. Ashpole, C. A. Bishop, et al. 2014. Conservation of Herpetofauna in Northern Landscapes: Threats and Challenges from a Canadian Perspective. Biological Conservation, 170:48-55. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S0006320713004515>
- Lewis, J. C. 2019. Periodic Status Review for the Grizzly Bear in Washington. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/01963>
- Lewis, J. S., S. Spaulding, H. Swanson, et al. 2021. Human Activity Influences Wildlife Populations and Activity Patterns: Implications for Spatial and Temporal Refuges. Ecosphere 12(5). Accessed January 24, 2025. <https://esajournals.onlinelibrary.wiley.com/doi/10.1002/ecs2.3487>

Programmatic Environmental Impact Statement

- Linders, M. J., K. Lewis, and K. Curry. 2020. 2019 Review Draft of the Final Annual Report related to: US Fish and Wildlife Service (Cooperative Agreement #F16AC00588, F19AC00408) and Joint Base Lewis-McChord (Contract #W911S8-12-H-0001, W911S8-18-2-0008, W911S81820017, W911S81920011). Accessed January 24, 2025. https://cascadiaprairieoak.org/wp-content/uploads/2021/04/2019_EetTrans_Lindersetal2019_FinalAnnualReport_16Jun2020.pdf
- Linders, M. J., W. M. Vander Haegen, J. M. Azerrad, R. Dobson, and T. Labbe. 2010. Management Recommendations for Washington's Priority Species: Western Gray Squirrel. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. https://wdfw.wa.gov/sites/default/files/2019-10/western_gray_squirrel_final.pdf#:~:text=Western%20Gray%20Squirrel%20habitat%20is
- Loss, S. R., T. Will, and P. P. Marra. 2014. Refining Estimates of Bird Collision and Electrocution Mortality at Power Lines in the United States. PLOS ONE 9(7). Accessed January 24, 2025. <https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0101565&type=printable>
- Lutz, D. W., J. R. Heffelfinger, S. A. Tessmann, R. S. Gamo, and S. Siegel. 2011. Energy Development Guidelines for Mule Deer. Boise, Idaho: Mule Deer Working Group, Western Association of Fish & Wildlife Agencies. Accessed January 24, 2025. <https://wafwa.org/wpdm-package/energy-development-guidelines-for-mule-deer/>
- Lyons, A. L., W. L. Gaines, and C. Servheen. 2003. Black Bear Resource Selection in the Northeast Cascades, Washington. Biological Conservation 113(1):55-62. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S000632070200349X>
- Mainstream Restoration Inc. 2007. Pend Oreille River in the Box Canyon Reservoir, Riverbank Stabilization Guidelines. Bozeman, Montana: Prepared for Washington Department of Fish and Wildlife, Olympia, Washington, by Mainstream Restoration Inc. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00651/wdfw00651.pdf>

Programmatic Environmental Impact Statement

- Manci, K. M., D. N. Gladwin, R. Villella, and M. G. Cavendish. 1988. Effects of Aircraft Noise and Sonic Booms on Domestic Animals and Wildlife: A Literature Synthesis. Fort Collins, Colorado: U.S. Department of the Interior, Fish and Wildlife Service, National Ecology Research Center. Accessed January 24, 2025. <https://www.semanticscholar.org/paper/Effects-of-Aircraft-Noise-and-Sonic-Booms-on-and-A-Manci-Gladwin/7eba60ce0860e7fc747ad3995111cc628ff20e39>
- Manitoba Hydro. 2010. Fur, Feathers, Fins & Transmission Lines How Transmission Lines and Rights-of-Way Affect Wildlife. Winnipeg, Manitoba: Manitoba Hydro. Accessed January 24, 2025. https://www.hydro.mb.ca/docs/corporate/fur_feathers_fins_and_transmission_lines.pdf
- Manville II, A. M. 2016. Impacts to Birds and Bats Due to Collisions and Electrocutions from Some Tall Structures in the United States: Wires, Towers, Turbines, and Solar Arrays—State of The Art in Addressing the Problems (Angelici, F. M., Editor), pp. 415–442. Problematic Wildlife: A Cross-Disciplinary Approach. New York, New York: Springer International Publishing. Accessed January 24, 2025. https://link.springer.com/chapter/10.1007/978-3-319-22246-2_20
- Martin, C. J., E. W. Bork, and S. E. Nielsen. 2022. Mortality of Grassland Birds Increases with Transmission Lines. *Avian Conservation and Ecology* 17(1):17. Accessed January 24, 2025. [https://ace-lab.ca/assets_b/Martin%20et%20al.%20\(2022\)%20ACE-ECO.pdf](https://ace-lab.ca/assets_b/Martin%20et%20al.%20(2022)%20ACE-ECO.pdf)
- Martin, M. F., and J. M. Azerrad. 2023a. Management Recommendations for Washington's Priority Habitats and Species: Riparian Pollinators. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/02451/wdfw02451.pdf>
- Martin, M. F., and J. M. Azerrad. 2023b. Management Recommendations for Washington's Priority Species: Western Bumble Bee. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/02441>
- Martín Martín, J., J. R. Garrido López, H. Clavero Sousa, and V. Barrios, eds. 2022. Wildlife and Power Lines. Guidelines for Preventing and Mitigating Wildlife Mortality Associated with Electricity Distribution Networks. Gland, Switzerland: IUCN. Accessed January 24, 2025. <https://portals.iucn.org/library/node/50657>

Programmatic Environmental Impact Statement

- Matsuda, B. M., D. M. Green, and P. T. Gregory. 2006. Amphibians and Reptiles of British Columbia Handbook. Victoria, British Columbia: Royal BC Museum.
- Maxcy, K. A., and J. Richardson. 2000. Abundance and Movements of Terrestrial Salamanders in Second-Growth Forests of Southwestern British Columbia. Vol. 1. In Darling, L. M. (Editor), p. 490. Proceedings of a Conference on the Biology and Management of Species and Habitats at Risk, B.C. Kamloops, British Columbia: B.C. Ministry of Environment, Lands and Parks, Victoria, B.C., and University College of the Cariboo. Accessed January 24, 2025. <https://www.env.gov.bc.ca/wld/documents/ce12maxcy.pdf>
- Mazerolle, M. J., and A. Desrochers. 2005. Landscape Resistance to Frog Movements. Canadian Journal of Zoology 83(3):455–464. Accessed January 24, 2025. https://www.researchgate.net/publication/236874792_Landscape_resistance_to_frog_movements
- McIntyre, A., T. Janeski, G. Garman, C. Deloglos, and A. Filippas. 2016. Behavioral Responses of Sub-Adult Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*) to Electromagnetic and Magnetic Fields Under Laboratory Conditions. Richmond, Virginia: Virginia Commonwealth University. Accessed January 24, 2025. <https://tethys.pnnl.gov/publications/behavioral-responses-sub-adult-atlantic-sturgeon-acipenser-oxyrinchus-oxyrinchus>
- Meffe, G. K., and C. R. Carroll. 1994. Principles of Conservation Biology. Sunderland, Massachusetts: Sinauer Associates, Inc.
- Merems, J. L., A. L. Brose, H. E. Frater, B. Khadka, J. L. Goethlich, and T. R. Van Deelen. 2022. Measuring Ungulate–Forest Interactions: A Methods Primer. Journal of Fish and Wildlife Management 13(2):576–590. Accessed January 24, 2025. <https://meridian.allenpress.com/jfwm/article/13/2/576/482782/Measuring-Ungulate-Forest-Interactions-A-Methods>
- Merrell, D. J. 1977. Life History of the Leopard Frog, *Rana pipiens*, in Minnesota. St. Paul, Minnesota: Occas. Pap. No. 15, Bell Museum, University of Minnesota.
- Michalak, J. L., G. P. Kalisz, H. A. Morgan, et al. 2025. Washinton Habitat Connectivity Action Plan. Washinton Department of Fish and Wildlife & Washinton Department of Transportation, Olympia, WA.

Programmatic Environmental Impact Statement

- Mitchell J. C., R. E. Jung Brown, and B. Bartholomew. 2008. Urban Herpetology. Society for the Study of Amphibians and Reptiles (Herpetological Conservation Series). Accessed April 11, 2024. <https://www.nhbs.com/urban-herpetology-book>
- Narango, D. L., D. W. Tallamy, and P. P. Marra. 2017. Native Plants Improve Breeding and Foraging Habitat for an Insectivorous Bird. *Biological Conservation* 213:42–50. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S0006320717305153>
- Nash R. F., G. G. Gallup, Jr., and M. K. McClure. 1970. The Immobility Reaction in Leopard Frogs (*Rana pipiens*) as a Function of Noise-Induced Fear. *Psychonomic Science* 21(3):155–156. Accessed January 24, 2025. <https://link.springer.com/article/10.3758/BF03331860>
- NatureServe. 2024. Arlington, Virginia: NatureServe Explorer. Accessed August 19, 2024. <https://explorer.natureserve.org/>
- NCC (Nature Conservancy Canada). 2024. Cougar. Accessed September 03, 2024. <https://www.natureconservancy.ca/en/what-we-do/resource-centre/featured-species/mammals/cougar.html>
- Nelson, S. B. M., J. J. Coon, C. J. Duchardt, et al. 2017. Patterns and Mechanisms of Invasive Plant Impacts on North American Birds: A Systematic Review. *Biological Invasions* 19(5):1547–1563. Accessed January 24, 2025. <https://doi.org/10.1007/s10530-017-1377-5>
- Nelson, S. K. 2020. Marbled Murrelet (*Brachyramphus marmoratus*), version 1.0. In *Birds of the World* (A. F. Poole and F. B. Gill, Editors). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 24, 2025. <https://doi.org/10.2173/bow.marmur.01>
- Newcombe, C. P., and J. O. T. Jensen. 1996. Channel Suspended Sediment and Fisheries: A Synthesis for Quantitative Assessment of Risk and Impact. *North American Journal of Fisheries Management* 16(4):693–727. Accessed January 24, 2025. [https://doi.org/10.1577/1548-8675\(1996\)016<0693:CSSAFA>2.3.CO;2](https://doi.org/10.1577/1548-8675(1996)016<0693:CSSAFA>2.3.CO;2)
- Newcombe, P. B., C. Nilsson, T.-Y. Lin, et al. 2019. Migratory Flight on the Pacific Flyway: Strategies and Tendencies of Wind Drift Compensation. *Biology Letters*, 15(9). Accessed January 24, 2025. <https://doi.org/10.1098/rsbl.2019.0383>

Programmatic Environmental Impact Statement

- Nextgen Highways. 2023. Transmission Line and Highway Rights-of-Way (ROW) Requirements, Fact Sheet. Accessed January 24, 2025. <https://nextgenhighways.org/wp-content/uploads/2023/04/Transmission-Line-and-Highway-ROW-Requirements-V2.pdf>
- NOAA (National Oceanic and Atmospheric Administration) Fisheries. 2015. ESA Recovery Plan for Snake River Sockeye Salmon (*Oncorhynchus nerka*). June 8. Accessed October 8, 2024. <https://www.fisheries.noaa.gov/resource/document/recovery-plan-snake-river-sockeye-salmon-oncorhynchus-nerka>
- NRC (National Research Council). 2011. Guide for the Care and Use of Laboratory Animals. 8th ed. Washington, D.C.: National Academies Press (US) (The National Academies Collection: Reports funded by National Institutes of Health). Accessed January 24, 2025. <http://www.ncbi.nlm.nih.gov/books/NBK54050/>
- NWSRS (Natural Wild and Scenic Rivers System). Not dated. River Mileages & Classifications. Accessed August 19, 2024. <https://www.rivers.gov/river-miles>
- Oddone Aquino, A. G. H. E., and S. L. Nkomo. 2021. Spatio-Temporal Patterns and Consequences of Road Kills: A Review. *Animals* 11(3):799. Accessed January 24, 2025. <https://doi.org/10.3390/ani11030799>
- Oliveira, F. G., J. T. Tapisso, S. von Merten, L. Rychlik, P. J. Fonseca, and M. Mathias. 2021. Behavioral Responses of Rural and Urban Greater White-Toothed Shrews (*Crocidura russula*) to Sound Disturbance. *Urban Ecosystems* 24:851–862. Accessed January 24, 2025. <https://doi.org/10.1007/s11252-020-01079-y>
- O'Neill, C., and H. Yurk. 2017. In-air Noise Impact Assessment for Birds and Reptiles: Based on a Preliminary Design of the Third Crossing of the Cataraqui River, Kingston, ON. Victoria, British Columbia: Technical Report prepared for Golder Associates Ltd. by Jasco Applied Sciences. Accessed September 2, 2024.
- OWI (Oregon Wildlife Institute). Not dated. Slender-Billed Nuthatch (*Sitta carolinenses aculeata*). Wildlife Conservation in Willamette Valley Grassland & Oak Habitats, Species Account. Corvallis, Oregon. Accessed January 24, 2025. https://www.oregonwildlife.org/documents/nuthatch_web2.pdf
- Oxley, D. J., M. B. Fenton, and G. R. Carmody. 1974. The Effects of Roads on Populations of Small Mammals. *Journal of Applied Ecology* 11(1):51–59. Accessed January 24, 2025. <https://www.jstor.org/stable/2402004>

Programmatic Environmental Impact Statement

- Pálsdóttir, A. E., J. A. Gill, S. Pálsson, et al. 2022. Effects of Overhead Power-Lines on the Density of Ground-Nesting Birds in Open Sub-Arctic Habitats. *IBIS* 164(4):1257–1264. Accessed January 24, 2025.
<https://onlinelibrary.wiley.com/doi/10.1111/ibi.13089>
- Parayko, N. W., J. W. Ng, J. Marley, R. S. Wolach, T. I. Wellicome, and E. M. Bayne. 2021. Response of Ferruginous Hawks to Temporary Habitat Alterations for Energy Development in Southwestern Alberta. *Avian Conservation and Ecology* 16(2):17. Accessed January 24, 2025. https://tethys.pnnl.gov/sites/default/files/publications/Parayko_et_al_2021.pdf
- Parks Canada Agency. 2005. Recovery Strategy for Multi-species at Risk in Vernal Pools and Other Ephemeral Wet Areas in Garry Oak and Associated Ecosystems in Canada (proposed). In Species at Risk Act Recovery Strategy Series. Ottawa, Ontario: Parks Canada Agency. Accessed January 24, 2025.
<https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/recovery-strategies/vernal-pools-ephemeral-wet-areas-garry-oak-proposed-2005.html>
- Parris, K. M, M. Velik-Lord, and J. M. A. North. 2009. Frogs Call at a Higher Pitch in Traffic Noise. *Ecology and Society* 14(1). Accessed January 24, 2025.
<https://www.jstor.org/stable/26268025>
- Perry, G., B. W. Buchanan, R. Fisher, M. Salmon, and S. E. Wise. 2008. Effects of Artificial Night Lighting on Amphibians and Reptiles in Urban Environments. *Urban Herpetology* 3:239–256. Accessed January 24, 2025.
https://www.researchgate.net/publication/239531413_Effects_of_artificial_night_lighting_on_amphibians_and_reptiles_in_urban_environments
- Popper, A. N., T. J. Carlson, A. D. Hawkins, B. L. Southall, and R. L. Gentry. 2006. Interim Criteria for Injury of Fish Exposed to Pile Driving Operations: A White Paper. Washington, D.C.: United States Nuclear Regulatory Commission. Accessed January 24, 2025. <https://www.nrc.gov/docs/ML0932/ML093210627.pdf>
- Potter, A. E. 2016. Periodic Status Review for Taylor’s Checkerspot in Washington. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/01798>

Programmatic Environmental Impact Statement

- Proppe, D. S., C. B. Sturdy, and C. C. St. Clair. 2013. Anthropogenic Noise Decreases Urban Songbird Diversity and May Contribute to Homogenization. *Global Change Biology* 19(4):1075–1084. Accessed January 24, 2025. https://www.researchgate.net/publication/236057381_Anthropogenic_noise_decreases_urban_songbird_diversity_and_may_contribute_to_homogenization
- Quinn, T., G. F. Wilhere, and K. L. Krueger. 2020. *Riparian Ecosystems, Volume 1: Science Synthesis and Management Implications*. Olympia, Washington: Habitat Program, Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01987/wdfw01987.pdf>
- Randall, L., N. Lloyd, and A. Moehrenschrager. 2018. *Guidelines for Mitigation Translocations of Amphibians: Applications for Canada's Prairie Provinces. Version 1.0*. Calgary, Alberta: Centre for Conservation Research, Calgary Zoological Society. Accessed January 24, 2025. https://sccp.ca/sites/default/files/species-habitat/documents/amphibian_translocation_guidelines%20Alberta%202018.pdf
- Rentz, T., A. Windrope, K. Folkerts, and J. Azerrad. 2020. *Riparian Ecosystems, Volume 2: Management Recommendations*. Olympia, Washington: Habitat Program, Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01988/wdfw01988.pdf>
- Rodrick, E., and R. Milner, eds. 1991. *Management Recommendations for Washington's Priority Habitats and Species*. Olympia, Washington: Washington Department of Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/00032>
- Rosenberg, K. V, A. M. Dokter, P. J. Blancher, et al. 2019. Decline of the North American Avifauna. *Science* 366(6461):120–124. Accessed January 24, 2025. <https://www.science.org/doi/10.1126/science.aaw1313>
- Rosenberg, K. V., J. A. Kennedy, R. Dettmers, et al. 2016. *Partners in Flight Landbird Conservation Plan: 2016. Revision for Canada and Continental United States*. Partners in Flight Science Committee. Accessed January 24, 2025. <https://partnersinflight.org/resources/the-plan/>

Programmatic Environmental Impact Statement

- Rothermel, B. B. 2004. Migratory Success of Juveniles: A Potential Constraint on Connectivity for Pond-Breeding Amphibians. *Ecological Applications* 14(5):1535–1546. Accessed January 24, 2025. <https://esajournals.onlinelibrary.wiley.com/doi/10.1890/03-5206>
- Rutherford, T. K., L. M. Maxwell, N. J. Kleist, et al. 2023. Effects of Noise from Oil and Gas Development on Ungulates and Small Mammals—A Science Synthesis to Inform National Environmental Policy Act Analyses (ver. 1.1, July 2024). Reston, Virginia: U.S. Geological Survey Scientific Investigations Report 2023–5114, United States Geological Survey. Accessed January 24, 2025. <https://doi.org/10.3133/sir20235114>
- Ruuskanen, S., M. J. Rainio, M. Uusitalo, K. Saikkonen, and M. Helander. 2020. Effects of Parental Exposure to Glyphosate-Based Herbicides on Embryonic Development and Oxidative Status: A Long-Term Experiment in a Bird Model. *Scientific Reports* 10(6349). Accessed August 28, 2024. <https://www.nature.com/articles/s41598-020-63365-1>
- Santos, S. M., A. Mira, P. A. Salgueiro, P. Costa, D. Medinas, and P. Beja. 2016. Avian Trait-Mediated Vulnerability to Road Traffic Collisions. *Biological Conservation* 200:122–130. Accessed January 24, 2025. <https://doi.org/10.1016/j.biocon.2016.06.004>
- Sawyer, H., M. J. Kauffman, A. D. Middleton, T. A. Morrison, R. M. Nielson, and T. B. Wyckoff. 2013. A Framework for Understanding Semi-Permeable Barrier Effects on Migratory Ungulates. *Journal of Applied Ecology* 50(1):68–78. Accessed January 24, 2025. <https://doi.org/10.1111/1365-2664.12013>
- Schöll, E. M., and U. Nopp-Mayr. 2021. Impact of Wind Power Plants on Mammalian and Avian Wildlife Species in Shrub- and Woodlands. *Biological Conservation* 256. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/pii/S0006320721000896>
- Schowalter, T. D., J. A. Noriega, and T. Tschardtke. 2018. Insect Effects on Ecosystem Services — Introduction. *Basic and Applied Ecology* 26:1–7. Accessed January 24, 2025. <https://doi.org/10.1016/j.baae.2017.09.011>

Programmatic Environmental Impact Statement

- Schroeder, M. A., M. T. Atamian, C. L. Lowe, J. Lowe, K. M. Thorburn, M. C. Finch, et al. 2023. Recovery of Greater Sage-Grouse in Washington: Progress Report. Olympia, Washington: Washington Department of Fish and Wildlife, with United States Department of Defense and United States Department of the Interior, Bureau of Land Management. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/2024-03/20231212-sag-annual-report-2023.pdf>
- Scobie, C. A., E. M. Bayne, and T. I. Wellicome. 2016. Influence of Human Footprint and Sensory Disturbances on Night-Time Space Use of an Owl. *Endangered Species Research* 31:75-87. Accessed January 24, 2025. <https://doi.org/10.3354/esr00756>
- Seip, D., and E. Jones. 2013. Core High-Elevation Winter Habitat for the Southern Narraway Caribou Herd. Accessed September 25, 2024. https://www2.gov.bc.ca/assets/gov/environment/plants-animals-and-ecosystems/wildlife-wildlife-habitat/caribou/core_high_elevation_habitat_for_the_narraway_herd.pdf
- Semlitsch, R. D. 1998. Biological Delineation of Terrestrial Buffer Zones for Pond-Breeding Salamanders. *Conservation Biology* 12(5):1113-1119. Accessed January 24, 2025. <https://conbio.onlinelibrary.wiley.com/doi/abs/10.1046/j.1523-1739.1998.97274.x>
- Shannon, G., M. F. McKenna, L. M. Angeloni, et al. 2016. A Synthesis of Two Decades of Research Documenting the Effects of Noise on Wildlife. *Biological Reviews*, 91(4):982-1005. Accessed January 24, 2025. <https://doi.org/10.1111/brv.12207>
- Shepherd S., G. Hollands, V. C. Godley, S. M. Sharkh, C. W. Jackson, and P. L. Newland. 2019. Increased Aggression and Reduced Aversive Learning in Honey Bees Exposed to Extremely Low Frequency Electromagnetic Fields. *PLOS ONE* 14(10): e0223614. Accessed January 24, 2025. <https://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0223614>
- Shurtliff, Q. R., and J. C. Whiting. 2021. Common Raven Nesting and Spatial Distancing on Power Lines in Southeast Idaho, USA. *Human-Wildlife Interactions* 15(3):289-303, Winter 2021. Accessed January 24, 2025. <https://digitalcommons.usu.edu/cgi/viewcontent.cgi?article=1772&context=hwi>
- Smith, J. A., and J. F. Dwyer. 2016. Avian Interactions with Renewable Energy Infrastructure: An Update. *Ornithological Applications* 118(2):411-423. Accessed January 24, 2025. <https://academic.oup.com/condor/article/118/2/411/5153228>

Programmatic Environmental Impact Statement

- Smith, J. B., B. T. Maletzke, T. Roussin, and G. R. Spence. 2024. Periodic Status Review for the Gray Wolf in Washington. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed October 29, 2024. <https://wdfw.wa.gov/sites/default/files/publications/02427/wdfw02427.pdf>
- Smith, K. T., K. L. Taylor, S. E. Albeke, and J. L. Beck. 2020. Pronghorn Winter Resource Selection before and after Wind Energy Development in South-central Wyoming. *Rangeland Ecology and Management* 73(2):227–233. Accessed January 24, 2025. <https://doi.org/10.1016/j.rama.2019.12.004>
- Staude, I. R., L. M. Navarro, and H. M. Pereira. 2019. Range Size Predicts the Risk of Local Extinction from Habitat Loss. *Global Ecology and Biogeography* 29(1):16–25. Accessed January 24, 2025. <https://onlinelibrary.wiley.com/doi/full/10.1111/geb.13003?msocid=3a569d6a25d661ce3bb28937246f601c>
- St. Clair, C. C., M. Bélisle, A. Desrochers, and S. Hannon. 1998. Winter Responses of Forest Birds to Habitat Corridors and Gaps. *Conservation Ecology* 2(2). Accessed January 24, 2025. <https://www.jstor.org/stable/26271681>
- Stewart, F. E. C., N. A. Heim, A. P. Clevenger, J. Paczkowski, J. P. Volpe, and J. T. Fisher. 2016. Wolverine Behavior Varies Spatially with Anthropogenic Footprint: Implications for Conservation and Inferences About Declines. *Ecology and Evolution* 6:1493–1503. Accessed January 24, 2025. <https://doi.org/10.1002/ece3.1921>
- Stinson, D. W. 2017. Periodic Status Review for the Columbian Sharp-tailed Grouse in Washington. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/01921>
- Stinson, D. W. 2020. Mazama Pocket Gopher Recovery Plan and Periodic Status Review. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01449/wdfw01449.pdf>
- Stinson, D. W., and M. A. Schroeder. 2012. Washington State Recovery Plan for the Columbian Sharptailed Grouse. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/00882>

Programmatic Environmental Impact Statement

- St-Laurent, M. H., C. Dussault, J. Ferron, and R. Gagnon. 2009. Dissecting Habitat Loss and Fragmentation Effects Following Logging in Boreal Forest: Conservation Perspectives from Landscape Simulations. *Biological Conservation* 142:2240–2249. Accessed January 24, 2025. <https://doi.org/10.1016/j.biocon.2009.04.025>
- Stone, E. L., G. Jones, and S. Harris. 2009. Street Lighting Disturbs Commuting Bats. *Current Biology* 19(13):1123–1127. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/pii/S0960982209011932>
- Stone, K. 2010. *Martes americana*, *M. caurina*. In Fire Effects Information System. Missoula, Montana: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory. Accessed January 13, 2025. <https://www.fs.usda.gov/database/feis/animals/mammal/mart/all.html>
- Sun, J. W. C., and P. M. Narins. 2005. Anthropogenic Sounds Differentially Affect Amphibian Call Rate. *Biological Conservation* 121(3):419–427. Accessed January 24, 2025. <https://doi.org/10.1016/j.biocon.2004.05.017>
- Swihart, R. K., T. M. Gehring, M. B. Kolozsvary, and T. E. Nupp. 2003. Responses of ‘Resistant’ Vertebrates to Habitat Loss and Fragmentation: The Importance of Niche Breadth and Range Boundaries. *Diversity and Distributions* 9(1):1–18. Accessed January 24, 2025. <https://onlinelibrary.wiley.com/doi/10.1046/j.1472-4642.2003.00158.x>
- Tella, J. L., D. Hernández-Brito, G. Blanco, and F. Hiraldo. 2020. Urban Sprawl, Food Subsidies and Power Lines: An Ecological Trap for Large Frugivorous Bats in Sri Lanka? *Diversity* 12(3):94. Accessed January 24, 2025. <https://doi.org/10.3390/d12030094>
- Theobald, D. M., K. R. Crooks, and J. B. Norman. 2011. Assessing Effects of Land Use on Landscape Connectivity: Loss and Fragmentation of Western U.S. Forests. *Ecological Applications* 21(7): 2445–2458. Accessed January 24, 2025. <https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1890/10-1701.1>
- Thompson, L. S. 1977. Overhead Transmission Lines: Impact on Wildlife. Helena, Montana: Montana Department of Natural Resources & Conservation.
- TOCS (The Oregon Conservation Strategy). 2024. Barriers to Animal Movement. Accessed September 5, 2024. <https://www.oregonconservationstrategy.org/key-conservation-issue/barriers-to-animal-movement/>

Programmatic Environmental Impact Statement

- Tremblay M. A., and C. St. Clair. 2011. Permeability of a Heterogeneous Urban Landscape to the Movements of Forest Songbirds. *Journal of Applied Ecology* 48(3):679–688. Accessed January 24, 2025. <https://doi.org/10.1111/j.1365-2664.2011.01978.x>
- Tucker, M. A., K. Böhning-Gaese, W. F. Fagan, et al. 2018. Moving in the Anthropocene: Global Reductions in Terrestrial Mammalian Movements. *Science* 359(6374):466–469. Accessed January 24, 2025. <https://www.science.org/doi/full/10.1126/science.aam9712>
- Turner, J. G., J. L. Parrish, L. F. Hughes, L. A. Toth, and D. M. Caspary. 2005. Hearing in Laboratory Animals: Strain Differences and Nonauditory Effects of Noise. *Comparative Medicine* 55(1):12–23. Accessed January 24, 2025. <https://pmc.ncbi.nlm.nih.gov/articles/PMC3725606/>
- Twerd, L., A. Sobieraj-Betlińska, and P. Szefer. 2021. Roads, Railways, and Power Lines: Are They Crucial for Bees in Urban Woodlands? *Urban Forestry & Urban Greening* 61(June 2021). Accessed January 24, 2025. <https://doi.org/10.1016/j.ufug.2021.127120>
- Tyler, N., K.-A. Stokkan, C. Hogg, C. Nellemann, A.-I. Vistnes, and G. Jeffery. 2014. Ultraviolet Vision and Avoidance of Power Lines in Birds and Mammals. *Conservation Biology* 28(3):630–631. Accessed January 24, 2025. <https://doi.org/10.1111/cobi.12262>
- USDA (U.S. Department of Agriculture). 2023. The 1990-2020 wildland-urban interface of the conterminous United States. Accessed August 5th, 2025. <https://www.fs.usda.gov/rds/archive/catalog/RDS-2015-0012-4>
- USFWS (U.S. Fish & Wildlife Service). 2003. Endangered and Threatened Wildlife and Plants; Status Review and 12-Month Finding for a Petition to List the Washington Population of the Western Gray Squirrel. Accessed January 24, 2025. <https://www.federalregister.gov/documents/2003/06/10/03-14354/endangered-and-threatened-wildlife-and-plants-status-review-and-12-month-finding-for-a-petition-to>
- USFWS (U.S. Fish & Wildlife Service). 2010. Best Management Practices to Minimize Adverse Effects to Pacific Lamprey (*Entosphenus tridentatus*). Accessed January 24, 2025. <https://semspub.epa.gov/work/10/100016741.pdf>

Programmatic Environmental Impact Statement

USFWS (U.S. Fish & Wildlife Service). 2011. Species Assessment and Listing Priority Assignment Form: *Uroditellus washingtoni*, Washington Ground Squirrel. Portland, Oregon: U.S. Fish and Wildlife Service.

USFWS (U.S. Fish & Wildlife Service). 2016. Bald and Golden Eagles: Population Demographics and Estimation of Sustainable Take in the United States, 2016 update. Washington, D.C.: Division of Migratory Bird Management. Accessed January 24, 2025. <https://www.fws.gov/media/population-demographics-and-estimation-sustainable-take-united-states-2016-update>

USFWS (U.S. Fish & Wildlife Service). 2017a. Critical Habitat. Accessed July 31, 2024. <https://www.fws.gov/project/critical-habitat>

USFWS (U.S. Fish & Wildlife Service). 2017b. Critical Habitat What is it? Accessed July 31, 2024. www.fws.gov/sites/default/files/documents/critical-habitat-fact-sheet.pdf

USFWS (U.S. Fish & Wildlife Service). 2024a. IPaC Information for Planning and Consultation. Accessed December 19, 2024. <https://ipac.ecosphere.fws.gov/>

USFWS (U.S. Fish & Wildlife Service). 2024b. Wetland Mapper. National Wetlands Inventory Surface Water and Wetlands. Accessed September 23, 2024. <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

USFWS (U.S. Fish & Wildlife Service). 2024c. Electric Transmission Lines. Accessed August 27, 2024. <https://www.fws.gov/node/266176>

USFWS (U.S. Fish and Wildlife Service). 2024d. USFWS Threatened & Endangered Species Active Critical Habitat Report. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/report/critical-habitat>

USFWS (U.S. Fish and Wildlife Service). 2024e. Marbled Murrelet (*Brachyramphus marmoratus*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/4467#rangeInfo>

USFWS (U.S. Fish and Wildlife Service). 2024f. Critical Habitat Species Areas, Complete Species List - Current Range. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/report/critical-habitat>

USFWS (U.S. Fish and Wildlife Service). 2024g. Northern spotted owl (*Strix occidentalis caurina*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/1123#rangeInfo>

Programmatic Environmental Impact Statement

- USFWS (U.S. Fish and Wildlife Service). 2024h. Canada Lynx (*Lynx canadensis*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/3652>
- USFWS (U.S. Fish and Wildlife Service). 2024i. Gray wolf (*Canis lupus*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/4488#rangeInfo>
- USFWS (U.S. Fish and Wildlife Service). 2024j. Grizzly bear (*Ursus arctos horribilis*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/7642#crithab>
- USFWS (U.S. Fish and Wildlife Service). 2024k. Oregon spotted frog (*Rana pretiosa*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/6633#rangeInfo>
- USFWS (U.S. Fish and Wildlife Service). 2024l. Pygmy Rabbit (*Brachylagus idahoensis*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/1126#rangeInfo>
- USFWS (U.S. Fish and Wildlife Service). 2024m. North American wolverine (*Gulo gulo luscus*) - Range Information. Accessed July 8, 2024. <https://ecos.fws.gov/ecp/species/5123>
- USFWS (United States Fish and Wildlife Service). 2025. USFWS Threatened & Endangered Species Active Critical Habitat Report. Accessed September 2, 2025. <https://ecos.fws.gov/ecp/report/critical-habitat+A137:C156A138:C156A153A138:C156B143:C153C144:C153C14B144:C153>
- USFWS (U.S. Fish & Wildlife Service). Not dated. Recommended Standard Best Management Practice. Accessed September 27, 2024. <https://www.fws.gov/sites/default/files/documents/Best%20Management%20Practices%20For%20Work%20In%20or%20Around%20Aquatic%20Environment-April%202022.pdf>
- van de Kerk, M., R. T. Larsen, D. D. Olson, K. R. Hersey, and B. R. McMillan. 2021. Variation in Movement Patterns of Mule Deer: Have We Oversimplified Migration? *Movement Ecology* 9(44). Accessed January 24, 2025. <https://movementecologyjournal.biomedcentral.com/articles/10.1186/s40462-021-00281-7>

Programmatic Environmental Impact Statement

- Van den Broeck, M., R. De Cock, S. Van Dongen, and E. Matthysen. 2021. Blinded by the Light: Artificial Light Lowers Mate Attraction Success in Female Glow-Worms (*Lampyrus noctiluca* L.). *Insects* 12(8):734. Accessed January 24, 2025. <https://www.mdpi.com/2075-4450/12/8/734>
- Vanderhoff, N., P. Pyle, M. A. Patten, R. Sallabanks, and F. C. James. 2020. American Robin (*Turdus migratorius*), version 1.0. In *Birds of the World* (P. G. Rodewald, Editor). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 24, 2025. <https://doi.org/10.2173/bow.amerob.01>
- van Klink, R., T. August, Y. Bas, P. Bodesheim, A. Bonn, F. Fossøy, et al. 2022. Emerging Technologies Revolutionise Insect Ecology and Monitoring. *Trends in Ecology and Evolution* 37(10):872–885. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/pii/S0169534722001343>
- Vanecek, J. 1998. Cellular Mechanisms of Melatonin Action. *Physiological Reviews* 78(3):686–721. Accessed January 24, 2025. <https://pubmed.ncbi.nlm.nih.gov/9674691/>
- Vennesland, R. G. 2000. The Effects of Disturbance from Humans and Predators on the Breeding Decisions and Productivity of the Great Blue Heron in South-Coastal British Columbia [Master of Science Thesis]. Burnaby, British Columbia: Simon Fraser University. Accessed November 27, 2023. https://www.nlc-bnc.ca/obj/s4/f2/dsk1/tape2/PQDD_0009/MQ61507.pdf?is_thesis=1&oclc_number=1006674982
- Verbeek, N. A., C. Caffrey, A. B. Clark, K. J. McGowan, and P. Pyle. 2024. American Crow (*Corvus brachyrhynchos*), version 1.2. In *Birds of the World* (A. F. Poole, F. B. Gill, and M. G. Smith, Editors). Ithaca, New York: Cornell Lab of Ornithology. Accessed January 24, 2025. <https://doi.org/10.2173/bow.amecro.01.2>
- Wagner, D. L., K. J. Metzler, and H. Frye. 2019. Importance of Transmission Line Corridors for Conservation of Native Bees and Other Wildlife. *Biological Conservation* 235:147–156. Accessed January 24, 2025. <https://doi.org/10.1016/j.biocon.2019.03.042>
- Wagner, R. B., C. R. Brune, and V. D. Popescu. 2021. Snakes on a Lane: Road Type and Edge Habitat Predict Hotspots of Snake Road Mortality. *Journal for Nature Conservation* 61. Accessed January 24, 2025. <https://www.sciencedirect.com/science/article/abs/pii/S161713812100025X>

Programmatic Environmental Impact Statement

- Warnock, N. 2010. Stopping vs. Staging: The Difference Between a Hop and a Jump. *Journal of Avian Biology* 41(6):621–626. Accessed January 24, 2025. <https://nsojournals.onlinelibrary.wiley.com/doi/abs/10.1111/j.1600-048X.2010.05155.x?msocid=0f0715f343f664d311a201a742d2650c>
- Washington Biodiversity Council. 2007. Washington's Biodiversity: Status and Threats. Olympia, Washington. Accessed August 20, 2024. <https://rco.wa.gov/wp-content/uploads/2019/07/BiodiversityStatusThreats.pdf>
- Watson, J. W., and J. M. Azerrad. 2024. Management Recommendations for Washington's Priority Species: Ferruginous Hawk. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/02511/wdfw02511.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2000. Washington's Ecoregional Conservation Strategy. Olympia, Washington. Accessed December 18, 2024. https://wdfw.wa.gov/sites/default/files/publications/00727/chapter_vi.pdf
- WDFW (Washington Department of Fish and Wildlife). 2002. Integrated Streambank Protection Guidelines. Washington State Aquatic Habitat Guidelines Program. Olympia, Washington. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00046/wdfw00046.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2008. State of Washington Priority Habitats and Species List. August 2008 (updated June 2023). Olympia, Washington. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/00165>
- WDFW (Washington Department of Fish and Wildlife). 2009. Landscape Planning for Washington's Wildlife: Managing for Biodiversity in Developing Areas. Olympia, Washington. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00023/wdfw00023.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2010. Management Recommendations for Washington's Priority Species - Volume V: Mammals (Interim). Olympia, Washington. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00027/wdfw00027.pdf>

Programmatic Environmental Impact Statement

- WDFW (Washington Department of Fish and Wildlife). 2011. Priority Habitats and Species Management Recommendations: Mazama Pocket Gopher. Olympia, Washington. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01175/wdfw01175.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2012a. Olympic Mudminnow. Fact Sheet. Olympia, Washington. Accessed January 24, 2025. https://wdfw.wa.gov/sites/default/files/2019-03/olympic_mudminnow.pdf
- WDFW (Washington Department of Fish and Wildlife). 2012b. Oregon Spotted Frog (*Rana pretiosa*). Endangered Species. Olympia, Washington. Accessed January 24, 2025. https://wdfw.wa.gov/sites/default/files/2019-03/oregon_spotted_frog.pdf
- WDFW (Washington Department of Fish and Wildlife). 2013. Threatened and Endangered Wildlife in Washington: 2012 Annual Report. Olympia, Washington: Listing and Recovery Section, Wildlife Program, Washington Department of Fish and Wildlife. Accessed October 30, 2024. <https://wdfw.wa.gov/publications/01542>
- WDFW (Washington Department of Fish and Wildlife). 2015. Washington's State Wildlife Action Plan: 2015 Update. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/publications/01742/wdfw01742.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2016. Olympia, Washington: Washington State Mule Deer Management Plan, Wildlife Program. Accessed January 6, 2024. <https://wdfw.wa.gov/publications/01755>
- WDFW (Washington Department of Fish and Wildlife). 2018. Washington Department of Fish and Wildlife: Times When Spawning or Incubating Salmonids Are Least Likely to Be within Washington State Freshwaters. Olympia, Washington. Accessed January 24, 2025. https://wdfw.wa.gov/sites/default/files/2019-02/freshwater_incubation_avoidance_times.pdf
- WDFW (Washington Department of Fish and Wildlife). 2019a. State of Washington Alternative Mitigation Policy Guidance for Aquatic Permitting Requirements from the Department of Ecology and Fish and Wildlife. Olympia, Washington. Accessed January 23, 2025. <https://wdfw.wa.gov/sites/default/files/publications/00972/wdfw00972.pdf>

Programmatic Environmental Impact Statement

- WDFW (Washington Department of Fish and Wildlife). 2019b. Mitigation for Better Projects. Olympia, Washington. Accessed August 19, 2024. https://wdfw.wa.gov/sites/default/files/2019-02/mitigation_for_better_projects.pdf
- WDFW (Washington Department of Fish and Wildlife). 2021. Sandhill Cranes Stop Here. Olympia, Washington. Accessed August 27, 2024. <https://storymaps.arcgis.com/stories/8b9411db02614c9aaccb02ea0c4c8416>
- WDFW (Washington Department of Fish and Wildlife). 2023. Invasive Quagga Mussels Detected in Idaho; Monitoring and Prevention Efforts Ramp up in Washington. Olympia, Washington. Accessed September 3, 2024. <https://wdfw.medium.com/invasive-quagga-mussels-detected-in-idaho-monitoring-and-prevention-efforts-ramp-up-in-washington-5913c555dccb>
- WDFW (Washington Department of Fish and Wildlife). 2024a. Washington Shrubsteppe Restoration and Resiliency Initiative: Long-Term Strategy 2024 – 2054. Olympia, Washington: Washington Department of Fish and Wildlife, Washington State Department of Natural Resources, Washington State Conservation Commission. <https://wdfw.wa.gov/publications/02489>
- WDFW (Washington Department of Fish and Wildlife). 2024b. State Listed Species. Revised March 2024. Olympia, Washington. Accessed January 24, 2025. <https://wdfw.wa.gov/sites/default/files/2024-03/wa-state-listed-and-candidate-species-list.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2024c. Amphibians and Reptiles of Washington. Olympia, Washington. Accessed August 1, 2024. <https://wdfw.wa.gov/species-habitats/amphibians-reptiles#frogs>
- WDFW (Washington Department of Fish and Wildlife). 2024d. Threatened and Endangered Species. Olympia, Washington. Accessed December 18, 2024. https://wdfw.wa.gov/species-habitats/at-risk/listed?species=&state_status=All&federal_status=All&category=All&page=4
- WDFW (Washington Department of Fish and Wildlife). 2024e. Endangered Species Critical Habitat Areas. Olympia, Washington. Accessed January 10, 2025. <https://wdfw.maps.arcgis.com/home/item.html?id=d46156cc921d4b41923c70c280b82458>

Programmatic Environmental Impact Statement

- WDFW (Washington Department of Fish and Wildlife). 2024f. Mountain Goat (*Oreamnos americanus*). Olympia, Washington. Accessed September 27, 2024. <https://wdfw.wa.gov/species-habitats/species/oreamnos-americanus>
- WDFW (Washington Department of Fish and Wildlife). 2024g. Wolverine. Olympia, Washington. Accessed December 18, 2024. <https://wdfw.wa.gov/species-habitats/species/gulo-gulo-luscus#resources>
- WDFW (Washington Department of Fish and Wildlife). 2024h. Washington Ground Squirrel (*Urocitellus washingtoni*). Olympia, Washington. Accessed December 18, 2024. <https://wdfw.wa.gov/species-habitats/species/urocitellus-washingtoni#conservation>
- WDFW (Washington Department of Fish and Wildlife). 2024i. Birding and Community Science. Olympia, Washington. Accessed August 1, 2024. <https://wdfw.wa.gov/get-involved/educational-resources/birding>
- WDFW (Washington Department of Fish and Wildlife). 2024j. Species in Washington. Olympia, Washington. Accessed August 19, 2024. <https://wdfw.wa.gov/species-habitats/species>
- WDFW (Washington Department of Fish and Wildlife). 2024k. Amphibians and Reptiles. Olympia, Washington. Accessed August 1, 2024. <https://wdfw.wa.gov/get-involved/educational-resources/amphibians-reptiles#amphibians>
- WDFW (Washington Department of Fish and Wildlife). 2024l. Northwestern Pond Turtle (*Actinemys marmorata*). Olympia, Washington. Accessed August 2, 2024. <https://wdfw.wa.gov/species-habitats/species/actinemys-marmorata#desc-range>
- WDFW (Washington Department of Fish and Wildlife). 2024m. Northern Sagebrush Lizard (*Sceloporus graciosus*). Olympia, Washington. Accessed August 2, 2024. <https://wdfw.wa.gov/species-habitats/species/sceloporus-graciosus#desc-range>
- WDFW (Washington Department of Fish and Wildlife). 2024n. Aquatic Invasive Species. Olympia, Washington. Accessed August 26, 2024. https://wdfw.wa.gov/species-habitats/invasive/species?species_name=&category=25382&family=All&classification=25392

Programmatic Environmental Impact Statement

- WDFW (Washington Department of Fish and Wildlife). 2024o. Northern Pike. Olympia, Washington. Accessed August 27, 2024. <https://wdfw.wa.gov/species-habitats/invasive/esox-lucius#desc-range>
- WDFW (Washington Department of Fish and Wildlife). 2024p. Marine Shorelines. Olympia, Washington. Accessed August 21, 2024. <https://wdfw.wa.gov/species-habitats/ecosystems/marine-shorelines#at-risk-fish>
- WDFW (Washington Department of Fish and Wildlife). 2024q. Riparian Areas. Olympia, Washington. Accessed August 19, 2024. <https://wdfw.wa.gov/species-habitats/ecosystems/riparian#places-explore>
- WDFW (Washington Department of Fish and Wildlife). 2024r. Periodic Status Review for the Northern Spotted Owl. Olympia, Washington. Accessed September 4, 2024. <https://wdfw.wa.gov/sites/default/files/publications/01752/wdfw01752.pdf>
- WDFW (Washington State Department of Fish and Wildlife). 2024s. Sensitive Priority Habitat and Species Data Request. Accessed July 15, 2024. <https://wdfw.wa.gov/species-habitats/at-risk/phs/maps/data-request-sensitive>
- WDFW (Washington State Department of Fish and Wildlife). 2024t. Statewide Washington Integrated Fish Distribution. Accessed August 28, 2024. <https://data-wdfw.opendata.arcgis.com/datasets/wdfw::statewide-washington-integrated-fish-distribution/about>
- WDFW (Washington Department of Fish and Wildlife) 2025. Washington Habitat Connectivity Action Plan Spatial Data. Accessed August 26, 2025. <https://wdfw.maps.arcgis.com/home/item.html?id=cd2f9ff6e6cf47fb8630daa02a70c45f>
- Weldy, M. J., C. W. Epps, D. B. Lesmeister, T. Manning, M. A. Linnell, and E. D. Forsman. 2019. Abundance and Ecological Associations of Small Mammals. *The Journal of Wildlife Management*, 83(4):902–915. Accessed January 24, 2025. <https://wildlife.onlinelibrary.wiley.com/doi/full/10.1002/jwmg.21641>
- Weller, T. J., K. T. Castle, F. Liechti, C. D. Hein, M. R. Schirmacher, and P. M. Cryan. 2016. First Direct Evidence of Long-distance Seasonal Movements and Hibernation in a Migratory Bat. *Scientific Reports*, 6(34585). Accessed August 27, 2024. <https://www.nature.com/articles/srep34585>
- Wever, E. G. 1978. *The Reptile Ear: Its Structure and Function*. Princeton, New Jersey: Princeton University Press.

Programmatic Environmental Impact Statement

- WHCWG (Washington Wildlife Habitat Connectivity Working Group). 2012. Washington Connected Landscapes Project: Analysis of the Columbia Plateau Ecoregion. Olympia, Washington: Washington's Department of Fish and Wildlife and Department of Transportation. Accessed January 24, 2025. https://waconnected.org/wp-content/themes/whcwg/docs/WHCWG_ColumbiaPlateauEcoregion_ExecSummary_2012.pdf
- WHCWG (Washington Wildlife Habitat Connectivity Working Group). 2013. Focal Species Composites Columbia Plateau Ecoregion: Network Centrality, Pinch-Points, Barriers. Accessed August 9, 2024. <https://databasin.org/datasets/524447042cd8463aa3c97cca4a0deba4/>
- WHCWG (Washington Wildlife Habitat Connectivity Working Group). 2024. Washington Connected Landscapes Project: Cascades to Coast Analysis. Olympia, Washington: Washington Department of Fish and Wildlife and Washington State Department of Transportation. Accessed January 24, 2025. <https://waconnected.org/coastal-washington-analysis/>
- Wiles, G. J., D. W. Stinson, and M. J. Linders. 2023. Periodic Status Review for the Western Gray Squirrel. Olympia, Washington: Washington Department of Fish and Wildlife. Accessed January 24, 2025. <https://wdfw.wa.gov/publications/02410>
- Wilson, S. F. 2016. Managing Zone-of-Influence Impacts of Oil and Gas Activities on Terrestrial Wildlife and Habitats in British Columbia. Journal of Ecosystems and Management, 16(1). Accessed January 24, 2025. <https://jem-online.org/index.php/jem/article/view/585>
- Wind, E. 2021. Western Toad Winter Habitat Requirements in Modified Landscapes on Vancouver Island Summary. Nanaimo, British Columbia: Prepared for Ministry of Forest, Lands and Natural Resource Operations, Nanaimo, BC, by E. Wind Consulting. Accessed January 24, 2025. <https://cvrd.ca/DocumentCenter/View/99754/Western-Toad-Winter-Habitat-Requirments-in-Modified-Landscapes-on-Vancouver-Island-Summary?bidId=>
- WISC (Washington Invasive Species Council). 2025. Invasive Species, Priority Species. Olympia, Washington: Washington State Recreation and Conservation Office. Accessed January 13, 2025. https://invasivespecies.wa.gov/find-a-priority-species/?_sft_priority-specie-type=invasive-animals

Programmatic Environmental Impact Statement

- Wise, S., and B. Buchanan. 2006. Influence of Artificial Illumination on the Nocturnal Behavior and Physiology of Salamander. In *Ecological Consequences of Artificial Night Lighting*. Washington, DC: Island Press, pp. 221–251.
- Wright, D. G., and G. E. Hopky. 1998. *Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters*. Winnipeg, Manitoba: Science Directorate, Central and Arctic Region, Department of Fisheries and Oceans, and Ottawa, Ontario: Habitat Management & Environmental Science Directorate, Department of Fisheries and Oceans. Accessed January 24, 2025. <https://publications.gc.ca/collections/Collection/Fs97-6-2107E.pdf>
- WSDOT (Washington State Department of Transportation). 2018. *Best Management Practices Field Guide for ESA 4 (d) Habitat Protection*. Olympia, Washington. Accessed January 24, 2025. <https://wsdot.wa.gov/sites/default/files/2021-10/bestmanagementpracticesfieldguideregionalroadmaintenance.pdf>
- WSDOT (Washington State Department of Transportation). 2020. *Biological Assessment Preparation Manual*. Chapter 7, Part 2: Construction Noise Impact Assessment. Olympia, Washington. https://wsdot.wa.gov/sites/default/files/2021-10/Env-FW-BA_ManualCH07.pdf
- WSDOT (Washington State Department of Transportation). 2023. *Fish Exclusion - Protocol and Standards*. Olympia, Washington. Accessed January 24, 2025. <https://wsdot.wa.gov/sites/default/files/2021-12/FishMoving-Policy-StandardsProtocols.pdf>
- WSDOT (Washington State Department of Transportation). 2024. *Habitat Connectivity Investment Priorities*. Olympia, Washington. Accessed September 11, 2024. <https://geo.wa.gov/datasets/WSDOT:wsdot-habitat-connectivity-investment-priorities/about>
- Wydoski, R. S., and R. R. Whitney. 2003. *Inland Fishes of Washington* (second ed.). Seattle, Washington: University of Washington Press.
- Xerces Society. 2018. *Managing for Monarchs in the West: Best Management Practices for Conserving the Monarch Butterfly and Its Habitat*. Portland, Oregon: The Xerces Society for Invertebrate Conservation. Accessed January 24, 2025. https://www.xerces.org/sites/default/files/2018-06/18-009_01-Monarch_BMPs_Final_Web.pdf

- Xerces Society. 2019. Western Monarch Management Windows. Timing Management in Monarch Breeding Habitat. Accessed January 24, 2025.
https://xerces.org/sites/default/files/2019-10/18-010-02_Timing-Management-in-Western-Monarch-Habitat.pdf
- Young, B. A. 2003. Snake bioacoustics: Toward a Richer Understanding of the Behavioral Ecology of Snakes. Quarterly Review of Biology 78(3):303–325. Accessed January 24, 2025. <https://pubmed.ncbi.nlm.nih.gov/14528622/>
- Zastrow, M. 2014. Power Lines Look Like Terrifying Bursts of Light to Animals. Nova. New York, New York: Thirteen PBS. Accessed August 29, 2024.
<https://www.pbs.org/wgbh/nova/article/power-lines-look-like-terrifying-bursts-of-light-to-animals/>

6.4.6 Section 3.7 – Energy and Natural Resources

- Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024.
<https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>
- AISI (American Iron and Steel Institute). 2024. New & Expanding Demand for Steel in Energy. Accessed October 1, 2024. <https://www.steel.org/steel-markets/energy/>
- DOC (Washington State Department of Commerce). Not dated. Forest Products. Accessed October 1, 2024. <https://choosewashingtonstate.com/why-washington/our-key-sectors/forest-products/>
- DOE (U.S. Department of Energy). Not dated. Artificial Intelligence. Accessed February 18, 2024. <https://www.energy.gov/topics/artificial-intelligence>
- DOE (U.S. Department of Energy). 2021. State of Washington Energy Sector Risk Profile. Accessed February 18, 2025.
<https://www.energy.gov/sites/default/files/2021-09/State%20of%20Washington%20Energy%20Sector%20Risk%20Profile.pdf>
- EFSEC (Washington Energy Facility Site Evaluation Council). 2022. Transmission Corridors Work Group Final Report. Accessed October 1, 2024.
https://www.efsec.wa.gov/sites/default/files/181034/Final_TCWG_Report%20_2022_0801.pdf

Programmatic Environmental Impact Statement

EFSEC (Washington Energy Facility Site Evaluation Council). Not dated. Energy Facilities. Accessed November 4, 2024. <https://www.efsec.wa.gov/energy-facilities>

EIA (U.S. Energy Information Agency). 2023. Frequently Asked Questions (FAQs). Last updated November 7, 2023. Accessed December 2024. <https://www.eia.gov/tools/faqs/faq.php?id=105&t=3#:~:text=How%20much%20electricity%20is%20lost,not%20contribute%20to%20T&D%20losses.&text=Last%20updated:%20November%207%2C%202023,at%20the%20time%20of%20update>

EIA (U.S. Energy Information Agency). 2024a. Washington State Energy Profile. Last updated October 17, 2024. Accessed November 4, 2024. <https://www.eia.gov/state/print.php?sid=WA>

EIA (U.S. Energy Information Agency). 2024b. Washington Net Electricity Generation by Source, Jul. 2024. Accessed August 23, 2024. <https://www.eia.gov/state/?sid=WA>

Energy Basics. Not dated. Basics of Electricity Transportation. Accessed October 16, 2024. <https://www.energybasics.org/electricity-transmission>

FERC (Federal Energy Regulatory Commission). 2024. Electric Transmission Facilities Permit Process. Accessed December 2024. <https://www.ferc.gov/electric-transmission-facilities-permit-process#:~:text=The%20width%20of%20the%20right,expect%20to%20seek%20Commission%20authorization>

Grajek, C. 2016. Underground Electrical Vaults: Safety Concerns and Controls. Accessed October 16, 2024. <https://incident-prevention.com/blog/underground-electrical-vaults-safety-concerns-and-controls/>

NERC (North American Electric Reliability Corporation). 2023. Standard Processes Manual Version 5, Effective November 28, 2023. Accessed December 2024. [https://www.nerc.com/AboutNERC/RulesOfProcedure/Appendix 3A SPM Clean Mar2019.pdf](https://www.nerc.com/AboutNERC/RulesOfProcedure/Appendix%203A%20SPM%20Clean%20Mar2019.pdf)

NWPCC (Northwest Power and Conservation Council). 2022. The 2021 Northwest Power Plan. Accessed August 23, 2024. https://www.nwcouncil.org/fs/17680/2021powerplan_2022-3.pdf

Programmatic Environmental Impact Statement

NWPCC (Northwest Power and Conservation Council). 2024a. Map of power generation in the Northwest. Accessed October 9, 2024.

<https://www.nwcouncil.org/energy/energy-topics/power-supply/map-of-power-generation-in-the-northwest/>

NWPCC (Northwest Power and Conservation Council). 2024b. Council Briefings: NW Sets Summer Record for Peak Power Demand & an Update on the Western Resource Adequacy Program. Accessed December 2024.

<https://www.nwcouncil.org/news/2024/09/18/july-heatwave-western-resource-adequacy-program-update/>

PNUCC (Pacific Northwest Utilities Conference Committee). 2024. Northwest Regional Forecast of Power Loads and Resources: August 2024 through July 2034. Accessed November 5, 2024.

<https://www.pnucc.org/wp-content/uploads/2024-PNUCC-Northwest-Regional-Forecast-final.pdf>

Portland Cement Association. 2024. Cement & Concrete. Accessed August 23, 2024.

<https://www.cement.org/cement-concrete>

PSCW (Public Service Commission of Wisconsin). 2011. Underground Electric Transmission Lines. Accessed September 30, 2024.

<https://psc.wi.gov/Documents/Brochures/Under%20Ground%20Transmission.pdf>

TTES (Transformer Network). 2024. Transformer Winding – Learn More About What It Is, Types, Materials. Accessed December 2024.

https://ttesusa.com/blog/transformer-winding-learn-more-about-what-it-is-types-materials/#elementor-toc_heading-anchor-9

USGS (U.S. Geological Survey). 2024a. Iron and Steel. Accessed October 2, 2024.

<https://pubs.usgs.gov/periodicals/mcs2024/mcs2024-iron-steel.pdf>

USGS (U.S. Geological Survey). 2024b. Aluminum. Accessed October 2, 2024.

<https://pubs.usgs.gov/periodicals/mcs2024/mcs2024-aluminum.pdf>

USGS (U.S. Geological Survey). 2024c. Copper. Accessed October 2, 2024.

<https://pubs.usgs.gov/periodicals/mcs2024/mcs2024-copper.pdf>

USGS (U.S. Geological Survey). 2024d. Sand and Gravel (Construction). Accessed August 23, 2024.

<https://pubs.usgs.gov/periodicals/mcs2024/mcs2024-sand-gravel.pdf>

WECC (Western Electricity Coordinating Council). 2024. 2024 State of the Interconnection. Updated September 2024. Accessed September 12, 2024. <https://feature.wecc.org/soti/index.html>

Zichella, C., and J. Hladik. Not dated. Siting: Finding a Home for Renewable Energy and Transmission. America's Power Plan. Accessed September 16, 2024. <https://www.energy.gov/sites/prod/files/2015/03/f20/APP-SITING-PAPER.pdf>

6.4.7 Section 3.8 – Public Health and Safety

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed March 3, 2025. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

DNR (Washington State Department of Natural Resources). 2019. Washington State Wildland Fire Protection 10-Year Strategic Plan. Accessed March 3, 2025. http://dnr.wa.gov/publications/rp_wildfire_strategic_plan.pdf

DNR (Washington State Department of Natural Resources). 2023. Commissioner Franz, DNR Leaders Recap Wildfire Season, Celebrate Partnerships. Accessed September 18, 2024. <https://www.dnr.wa.gov/news/commissioner-franz-dnr-leaders-recap-wildfire-season-celebrate-partnerships>

Ecology (Washington State Department of Ecology). 2013. Frequently Asked Questions Toxics Cleanup Program. February 2013. Accessed March 3, 2025. <https://apps.ecology.wa.gov/publications/documents/1309172.pdf#:~:text=Passed%20by%20voters%20as%20Initiative%2097%2C%20this%20law,encourages%20public%20involvement%20in%20the%20decision%20making%20process>

Ecology (Washington State Department of Ecology). 2022. Cleanup Sites. Accessed August 5, 2025. <https://data-wa-geoservices.opendata.arcgis.com/datasets/waecy::cleanup-sites/about>

Ecology (Washington State Department of Ecology). 2024. Contaminated Sites List. Accessed March 3, 2025. <https://apps.ecology.wa.gov/cleanupsearch/reports/cleanup/contaminated>

Programmatic Environmental Impact Statement

- Electrical Engineering Portal. 2017. Technical issues of undergrounding high voltage transmission lines. Accessed March 3, 2025. <https://electrical-engineering-portal.com/download-center/books-and-guides/electricity-generation-t-d/undergrounding-hv-lines>
- Electrical Safety Foundation International. 2023. Workplace Injury & Fatality Statistics. Accessed March 3, 2025. <https://www.esfi.org/workplace-safety/workplace-injury-fatality-statistics/>
- EPA (U.S. Environmental Protection Agency). 2016. Polychlorinated Biphenyls (PCBs). Accessed September 24, 2024. https://19january2017snapshot.epa.gov/pcbs/learn-about-polychlorinated-biphenyls-pcbs_.html
- EPA (U.S. Environmental Protection Agency). 2019. Electric Power Generation, Transmission and Distribution Industry Practices and Environmental Characterization. June 2019. March 3, 2025. https://www.epa.gov/sites/default/files/2019-07/documents/cercla_108b_industry_practices.pdf
- EPA (U.S. Environmental Protection Agency). 2021. Stormwater Best Management Practices: Hazardous Materials Storage. Accessed March 3, 2025. <https://www.epa.gov/system/files/documents/2021-11/bmp-hazardous-materials-storage.pdf>
- Healthline. Not dated. EMF: What is it? Healthline. Accessed March 3, 2025. <https://www.healthline.com/health/emf>
- ICNIRP (International Commission on Non-Ionizing Radiation Protection). 2010. ICNIRP Guidelines for Limiting Exposure to Time-Varying Electric and Magnetic Fields (1 Hz–100 kHz). Health Physics 99(6):818–836. Accessed March 3, 2025. <http://www.icnirp.org/cms/upload/publications/ICNIRPLFgdl.pdf>
- ICNIRP (International Commission on Non-Ionizing Radiation Protection). 2020. Guidelines for Limiting Exposure to Electromagnetic Fields (100 kHz to 300 GHz). Health Physics, 118(5):483–524. Accessed July 17, 2025. <https://doi.org/10.1097/HP.0000000000001210>
- IEEE (Institute of Electrical and Electronics Engineers). 2019. C95.1-2019 – IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic and Electromagnetic Fields, 0 to 300 kHz. IEEE Standard C95.1-2019. New York.

Programmatic Environmental Impact Statement

- NIEHS (National Institute of Environmental Health Sciences). 1999. NIEHS Report on Health Effects from Exposure to Power-Line Frequency Electric and Magnetic Fields.
https://www.niehs.nih.gov/sites/default/files/health/assets/docs_p_z/report_powerline_electric_mg_predates_508.pdf
- NIEHS (National Institute of Environmental Health Sciences). 2024. Electric & Magnetic Fields. Accessed March 3, 2025.
<https://www.niehs.nih.gov/health/topics/agents/emf>
- NOAA (National Oceanic and Atmospheric Administration) National Centers for Environmental Information. 2024. Monthly Wildfires Report for Annual 2023. Accessed September 18, 2024. <https://www.ncei.noaa.gov/access/monitoring/monthly-report/fire/202313>
- NPS (National Park Service). Not dated. Understanding Fire Danger. Accessed March 1, 2025. <https://www.nps.gov/articles/understanding-fire-danger.htm#:~:text=Low%20humidity%20takes%20moisture%20from,these%20fine%20fuels%20become%20drier>
- San Diego Gas & Electric Company. 2008. Section D.10 Public Health and Safety, Table D.10-7 Hazardous Materials Typically Used for Transmission Line Construction, Sunrise Powerlink Project, Sunrise Powerlink Application to California Public Utilities Commission, August 4. Accessed September 17, 2024.
<https://ia.cpuc.ca.gov/environment/info/aspen/sunrise/deir/D10%20Safety.pdf>
- U.S. Bureau of Labor Statistics. 2023. Census of Fatal Occupational Injuries Summary, 2022. Accessed September 9, 2024. https://www.bls.gov/news.release/archives/cfoi_12192023.pdf
- Washington State Department of Labor & Industries. 2019. Washington State Work-Related Fatalities Report. Accessed September 26, 2024. https://www.lni.wa.gov/safety-health/safety-research/files/2020/93_5_2020_WorkRelatedFatalitiesInWashingtonState_2019.pdf
- Wertheimer, N., and E. Leeper. 1979. Electrical Wiring Configurations and Childhood Cancer. American Journal of Epidemiology 109(3):273–284. Accessed August 25, 2024. <https://doi.org/10.1093/oxfordjournals.aje.a112681>

Xcel Energy. 2021. Overhead vs. Underground: Information about Burying High Voltage Transmission Lines. Accessed March 3, 2025. <https://xcelnew.my.salesforce.com/sfc/p/#1U0000011ttV/a/8b000002ZAgG/fFXdbyR9TgaRcEOrD2SDyGOV57cQCQPLFEXczPQx6cM>

6.4.8 Section 3.9 – Land and Shoreline Use

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024.

<https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

Columbia River Inter-Tribal Fish Commission. 2024. Confederated Tribes and Bands of the Yakama Nation. Accessed October 21, 2024. <https://critfc.org/member-tribes-overview/the-confederated-tribes-and-bands-of-the-yakama-nation/>

Congressional Research Service. 2020. Federal Land Ownership: Overview and Data. Accessed September 1, 2024. <https://sgp.fas.org/crs/misc/R42346.pdf>

DNR (Washington State Department of Natural Resources). 2023. WA DNR Managed Land Parcels. Accessed August 13, 2025. <https://geo.wa.gov/datasets/wadnr::wa-dnr-managed-land-parcels/about>

DNR (Washington State Department of Natural Resources). Not dated (a). Managed Lands. Accessed August 10, 2025. <https://dnr.wa.gov/about-washington-dnr>

DNR (Washington State Department of Natural Resources). Not dated (b). Understanding State Trust Lands. Accessed August 7, 2025. https://dnr.wa.gov/sites/default/files/2025-05/em_leg_dnr_trustlandss_2020.pdf

DNR (Washington State Department of Natural Resources). Not dated (c). Natural Areas. Accessed August 7, 2025. <https://dnr.wa.gov/natural-areas>

DOC (Washington State Department of Commerce). 2022a. Washington State Compatible Energy Siting Assessment. Accessed January 1, 2025. <https://deptofcommerce.app.box.com/s/qgqvdpdimhdpvmx4yl8r4xzzbocb7k01a>

DOC (Washington State Department of Commerce). 2022b. Military Installations and Ranges. Accessed October 30, 2024. https://cesa-wacommerce.hub.arcgis.com/datasets/070da3dce31e49cf8b5257d84e0da582_1/explore?showTable=true

Programmatic Environmental Impact Statement

- DOC (Washington State Department of Commerce). 2022c. WA Military Department Facilities. Accessed August 20, 202. <https://cesa-wacommerce.hub.arcgis.com/datasets/070da3dce31e49cf8b5257d84e0da582?layer=0>
- DOC (Washington State Department of Commerce). 2022d. CESA – Military Installations and Ranges. Accessed August 20, 2024. https://services6.arcgis.com/tboeqGwETr5ppr5Q/ArcGIS/rest/services/CESA_Military/FeatureServer/1
- DOC (Washington State Department of Commerce). 2022e. CESA – Military Training Route Floor Elevation (AGL). Accessed August 20, 2024. https://cesa-wacommerce.hub.arcgis.com/datasets/070da3dce31e49cf8b5257d84e0da582_6/about
- DOC (Washington State Department of Commerce). 2022f. Special Use Airspace Floor Elevation (AGL). Accessed August 20, 2024. https://cesa-wacommerce.hub.arcgis.com/datasets/070da3dce31e49cf8b5257d84e0da582_4/about
- DOC (Washington State Department of Commerce). 2022g. CESA – Boardman Geographic Area of Concern. Accessed August 20, 2024. https://cesa-wacommerce.hub.arcgis.com/datasets/070da3dce31e49cf8b5257d84e0da582_5/about
- DOD (U.S. Department of Defense). 2016. Northwest Training Range Complex User’s Manual. Accessed January 1, 2025. https://nwtteis.com/portals/nwtteis/files/references/DoN_2016_Northwest_Training_Complex_User_Manual.pdf
- DOD (U.S. Department of Defense). 2018. Military Aviation and Installation Assurance Siting Clearinghouse; Notice and Request for Public Comment on Boardman, Oregon, and NAS Patuxent River, Maryland, Geographic Areas of Concern. Federal Register, Vol. 83, No. 153, 39080-81. August 2018. Accessed January 1, 2025. <https://www.govinfo.gov/content/pkg/FR-2018-08-08/pdf/2018-16886.pdf>
- DOD (U.S. Department of Defense). 2022. Compatible Use and Installation Resilience Grantee Guide. Accessed August 10, 2025. https://oldcc.gov/sites/default/files/2024-12/OEA0182%20MIS%20Grantee%20Guide%20508%20%28jc%29_0.pdf

Programmatic Environmental Impact Statement

- DOD (U.S. Department of Defense). 2023. Defense Spending by State, Fiscal Year 2023. Accessed August 10, 2025. https://oldcc.gov/sites/default/files/2024-12/oldcc_dsbs_fy2023_final_web_20240929.pdf
- DOI (U.S. Department of Interior). 2010. Record of Decision Trust Acquisition of, and Reservation Proclamation for the 151.87-acre Cowlitz Parcel in Clark County, Washington, for the Cowlitz Indian Tribe. Accessed August 10, 2025. <https://www.bia.gov/sites/default/files/dup/assets/public/oig/pdf/idc2-056427.pdf>
- Ecology (Washington State Department of Ecology). Not dated. State-Approved SMP List. Accessed September 1, 2024. <https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning/State-approved-Shoreline-Master-Programs>
- EPA (U.S. Environmental Protection Agency). Not dated. Quileute Tribe Water Monitoring Program. Accessed September 1, 2024. <https://storymaps.arcgis.com/stories/6ec98e665ba044f7b04815ac0a1c8b38/print>
- FAA (Federal Aviation Administration). Not dated (a). ENR 1.4 ATS Airspace Classification. Accessed January 1, 2025. https://www.faa.gov/air_traffic/publications/atpubs/aip_html/part2_enr_section_1.4.html
- FAA (Federal Aviation Administration). Not dated (b). ENR 5.1 Navigation Warnings. Accessed January 1, 2025. https://www.faa.gov/air_traffic/publications/atpubs/aip_html/part2_enr_section_5.1.html#moXR911c9chri
- FAA (Federal Aviation Administration). Not dated (c). Glossary Section S. Accessed January 2025. [https://www.faa.gov/air_traffic/publications/atpubs/pcg_html/glossary-s.html#\\$SPECIAL%20USE%20AIRSPACE](https://www.faa.gov/air_traffic/publications/atpubs/pcg_html/glossary-s.html#$SPECIAL%20USE%20AIRSPACE)
- FAA (Federal Aviation Administration). Not dated (d). Section 5. Other Airspace Areas. January 2025. https://www.faa.gov/air_traffic/publications/atpubs/aim_html/chap3_section_5.html#:~:text=In%20an%20effort%20to%20ensure%20the%20greatest%20practical,for%20the%20purpose%20of%20conducting%20low%E2%80%90altitude%2C%20high%E2%80%90speed%20training

Programmatic Environmental Impact Statement

- Jiangong, Z., Y. Jiawei, T. Bo, H. Bin, and Z. Gan. 2018. Protecting Distance Between Radar Stations and UHV Power Transmission Lines. Accessed January 1, 2025. <https://benthamopenarchives.com/contents/pdf/TOEEJ/TOEEJ-12-12.pdf>
- King County. 2015. Local Food Initiative. Accessed August 9, 2025. <https://your.kingcounty.gov/dnrp/local-food/documents/2015-KC-Local-Food-Report.pdf>
- MRSC (Municipal Research and Services Center). 2025. Growth Management Act Basics. Accessed August 9, 2025. <https://mrsc.org/explore-topics/planning/gma/growth-management-act-basics>
- Muckleshoot Indian Tribe. 2024. Our Origins, Ancestors, and Identity. Accessed September 1, 2024. <https://www.muckleshoot.nsn.us/history>
- National Congress of American Indians. Not dated. Swinomish Indian Tribal Community. Accessed September 1, 2024. <https://archive.ncai.org/tribal-vawa/sdvcj-today/swinomish-indian-tribal-community>
- Nisqually Indian Tribe. 2024. Heritage. Accessed September 1, 2024. <http://www.nisqually-nsn.gov/index.php/heritage/#::~:~:text=Tribal>
- NRSIG (Natural Resource Spatial Informatics Group). 2014. Accessed September 3, 2024. <https://nrsig.org/projects/public-land-inventory#:~:text=The%20estimated%20total%20land%20area,total%20about%2019.8%20million%20acres>
- NPS (National Park Service – Land Resources Division). 2025. Administrative Boundaries of National Park System Units – National Geospatial Data Asset (NGDA) NPS National Parks Dataset. Accessed July 30, 2025. <https://irma.nps.gov/DataStore/Reference/Profile/2224545?lnv=True>
- NPS (National Park Service). Not dated. Washington Parks. Accessed August 7, 2025. <https://www.nps.gov/state/wa/index.htm>
- Port Gamble S’Klallam Tribe. 2024. History & Culture. Accessed September 1, 2024. <https://pgst.nsn.us/history-culture/>
- President of the Washington State Senate. Not dated. Washington Tribes. Accessed August 1, 2024. <https://www.ltgov.wa.gov/washington-tribes>

Programmatic Environmental Impact Statement

- Puyallup Tribe of Indians. 2017. Puyallup Tribe All Hazard Mitigation Plan 2017–2022 Edition. Accessed September 1, 2024. <https://www.puyalluptribe-nsn.gov/wp-content/uploads/2017PTI-Profile-Section.pdf>
- Renker, A. M. Not dated. The Makah Tribe: People of the Sea and the Forest. Accessed September 1, 2024. <https://content.lib.washington.edu/aipnw/renker.html>
- REPI (Readiness and Environmental Protection Integration). 2023. REPI State Fact Sheet | Washington. Accessed September 1, 2024. https://www.repi.mil/Portals/44/Documents/State_Fact_Sheets/Washington_StateFacts.pdf
- Samish Indian Nation. Not dated. Samish Indian Nation Timeline. Accessed September 1, 2024. <https://storymaps.arcgis.com/stories/33d042bc581b456ea7bf286dd4393970>
- Shoalwater Bay Indian Tribe. Not dated. Origins of Shoalwater Bay Indian Tribe. Accessed September 1, 2024. <https://www.shoalwaterbay-nsn.gov/about-the-tribe/history/>
- Snoqualmie Tribe. 2022. Snoqualmie Tribe Acquires 12,000 Acres of Ancestral Forestland in King County. Accessed September 1, 2024. <https://snoqualmietribe.us/snoqualmie-tribe-acquires-12000-acres-of-ancestral-forestland-in-king-county/>
- Stillaguamish Tribe of Indians. 2023. About Us. Accessed September 1, 2023. <https://www.stillaguamish.com/about-us/>
- Suquamish Tribe. 2024. Frequently Asked Questions. Accessed September 1, 2024. <https://suquamish.nsn.us/home/about-us/faqs/>
- U.S. Census Bureau. 2010. State Area Measurements and Internal Point Coordinates. Accessed October 22, 2024. <https://www.census.gov/geographies/reference-files/2010/geo/state-area.html>
- USDA (U.S. Department of Agriculture). 2023. Press Release, National Agricultural Statistics Service. Accessed September 1, 2024. https://www.nass.usda.gov/Statistics_by_State/Washington/Publications/Current_News_Release/2023/VOP_WA_2022.pdf

Programmatic Environmental Impact Statement

- USDA (U.S. Department of Agriculture). 2024a. Farmland Protection Policy Act. Accessed September 1, 2024. <https://www.nrcs.usda.gov/conservation-basics/natural-resource-concerns/land/cropland/farmland-protection-policy-act>
- USDA (U.S. Department of Agriculture). 2024b. Environmental Compliance Library Farmland Protection Policy Act. Accessed September 1, 2024. https://www.nrcs.usda.gov/sites/default/files/2022-06/FPPA_Law.pdf
- USDA (U.S. Department of Agriculture). 2024c. News Release, 2022 Census of Agriculture Data Down to the County Level. Accessed September 1, 2024. https://www.nass.usda.gov/Statistics_by_State/Washington/Publications/Current_News_Release/2024/WA%20News%20Release%20Ag%20Census%20FINAL.pdf
- USDA NRCS (U.S. Department of Agriculture Natural Resources Conservation Service). 2025. Gridded Soil Survey Geographic (gSSURGO) Database. Accessed July 28, 2025. <https://www.nrcs.usda.gov/resources/data-and-reports/gridded-soil-survey-geographic-gssurgo-database>
- USDOT (U.S. Department of Transportation, Bureau of Transportation Statistics, Office of the Assistant Secretary of Defense for Energy, Installations, and Environment). 2024. Military Bases. Accessed August 8, 2025. <https://data-usdot.opendata.arcgis.com/datasets/usdot::military-bases/about>
- USFS (U.S. Department of Agriculture, Forest Service). 2023a. Areas by State. Accessed January 1, 2025. <https://www.fs.usda.gov/land/staff/lar/LA2023/LARTable4.pdf>
- USFS (U.S. Department of Agriculture, Forest Service). 2023b. National Scenic Areas by State. Accessed January 1, 2025. <https://www.fs.usda.gov/land/staff/lar/LA2023/LARTable12.pdf>
- USFS (U.S. Department of Agriculture, Forest Service). 2023c. National Volcanic Monument Areas by State. Accessed January 1, 2025. <https://www.fs.usda.gov/land/staff/lar/LA2023/LARTable19.pdf>
- USFS (U.S. Department of Agriculture Forest Service). 2025. National Wilderness Areas. Accessed August 20, 2025. <https://data.fs.usda.gov/geodata/edw/datasets.php?xmlKeyword=National+Wilderness+Areas>
- USFWS (U.S. Fish and Wildlife Service). Not dated. USFWS Facilities. Accessed September 1, 2024. https://www.fws.gov/our-facilities?type=%5B%22National%20Wildlife%20Refuge%22%5D&state_name=%5B%22Washington%22%5D

Programmatic Environmental Impact Statement

- USGS (U.S. Geological Survey). 2019. Gap Analysis Program (GAP). Accessed September 1, 2024. <https://www.usgs.gov/programs/gap-analysis-project/science/land-cover-data-download>
- Washington Governor Jay Inslee. Not dated. Parks and Recreation Commission. Accessed October 30, 2024. <https://governor.wa.gov/boards-commissions/board-commission-profiles/Parks%20and%20Recreation%20Commission>
- Washington National Guard. Not dated. Armory and Readiness Center Locations. Accessed September 1, 2024. <https://mil.wa.gov/washington-national-guard-locations>
- WSDA (Washington State Department of Agriculture). Not dated. Agriculture: A Cornerstone of Washington's Economy. Accessed August 1, 2024. <https://agr.wa.gov/washington-agriculture>
- WSDA (Washington State Department of Agriculture). 2023. Agricultural Land Use in Washington State. Accessed September 1, 2024. <https://experience.arcgis.com/experience/ab85f44a941047878e54503400924388/>
- WDFW (Washington Department of Fish and Wildlife). 2024. WDFW Lands Management. Accessed August 10, 2025. <https://wdfw.wa.gov/about/wdfw-lands/management>
- Washington Wild. Not dated (a). Explore Washington's Wilderness Areas. Accessed August 7, 2025. <https://wawild.org/explore-washingtons-wilderness-areas/>
- Washington Wild. Not dated (b). BLM Wildlands. Accessed August 7, 2025. [https://wawild.org/protect/blm-wildlands/#:~:text=The%20Bureau%20of%20Land%20Management%20\(BLM\)%20manages,Oil%20and%20gas%20drilling%20*%20Energy%20development](https://wawild.org/protect/blm-wildlands/#:~:text=The%20Bureau%20of%20Land%20Management%20(BLM)%20manages,Oil%20and%20gas%20drilling%20*%20Energy%20development)
- WSDOT (Washington State Department of Transportation). 2024. WSDOT – Aviation Non-Military Airports. Accessed August 20, 2024. <https://gisdata-wsdata.opendata.arcgis.com/datasets/WSDOT::wsdot-aviation-non-military-airports/about>
- WSPRC (Washington State Parks and Recreation Commission). 2025. PARKS – Park Boundaries. Accessed July 31, 2025. <https://geo.wa.gov/datasets/wa-stateparks::parks-park-boundaries/about>

6.4.9 Section 3.10 – Transportation

AASHTO (American Association of State Highway and Transportation Officials). 2001. Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT 400). Washington, DC: American Association of State Highway and Transportation Officials. Accessed February 3, 2025. <https://store.transportation.org/Common/DownloadContentFiles?id=451&srsId=AfmBOorLNGIRoZWWFO3M-oXYYKwulBX2cjG3IGWsrZmdtaNJH4lzc5Z>

AASHTO (American Association of State Highway and Transportation Officials). 2011. Roadside Design Guide, 4th Edition. Accessed February 3, 2025. <https://highways.dot.gov/safety/rwd/reduce-crash-severity/aashto-guidance>

AASHTO (American Association of State Highway and Transportation Officials). 2024. AASHTO Guide for Accommodating Utilities within Highways and Freeways. Washington, DC: American Association of State Highway and Transportation Officials. Accessed February 1, 2025. <https://store.transportation.org/Common/DownloadContentFiles?id=2432&srsId=AfmBOorInQtEeh9mdMmkFafkDSUBv5hOP8Qs7nB0n0ddKuuBy3-g2DC6>

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

BLM (Bureau of Land Management). 2014. 9102 – Facility Design. Accessed February 3, 2025. https://www.blm.gov/sites/blm.gov/files/uploads/mediacenter_blmpolicymanual9102.pdf

BLM (Bureau of Land Management). 2015. MS 9113 – Roads. Accessed February 3, 2025. https://www.blm.gov/sites/blm.gov/files/uploads/mediacenter_blmpolicymanual9113.pdf

Burns, A. 2024. Washington Railroads: State Map, History, Abandoned Lines. September 7, 2024. Accessed December 26, 2024. <https://www.american-rails.com/wa.html>

Programmatic Environmental Impact Statement

- DOC (Washington State Department of Commerce). 2022a. CESA – Boardman Geographic Area of Concern. Accessed August 20, 2024. https://cesa-wacommerce.hub.arcgis.com/datasets/070da3dce31e49cf8b5257d84e0da582_5/about
- DOC (Washington State Department of Commerce). 2022b. CESA – Special Use Airspace Floor Elevation (AGL). Accessed August 20, 2024. https://cesa-wacommerce.hub.arcgis.com/datasets/070da3dce31e49cf8b5257d84e0da582_4/about
- FAA (Federal Aviation Administration). 2018. FAA Advisory Circular 70/7460- 1L. Accessed February 3, 2025. https://www.faa.gov/documentLibrary/media/Advisory_Circular/AC_70_7460-1L_-_Obstruction_Marking_and_Lighting_-_Change_2.pdf
- FHWA (Federal Highway Administration). 2023. Manual on Uniform Traffic Control Devices for Streets and Highways (11th edition). Accessed February 3, 2025. https://mutcd.fhwa.dot.gov/pdfs/11th_Edition/mutcd11thedition.pdf
- FHWA (Federal Highway Administration). 2025. FHWA Route Log and Finder List. Accessed January 3, 2025. https://www.fhwa.dot.gov/planning/national_highway_system/interstate_highway_system/routefinder/table01.cfm
- Transportation Research Board. 2016. Highway Capacity Manual 6th Edition: A Guide for Multimodal Mobility Analysis. Washington, DC: The National Academies Press. Accessed September 19, 2025. <https://doi.org/10.17226/24798>
- USDOT (U.S. Department of Transportation). 2022. National Roadway Safety Strategy. Accessed November 8, 2024. <https://www.transportation.gov/sites/dot.gov/files/2022-02/USDOT-National-Roadway-Safety-Strategy.pdf>
- USDOT (U.S. Department of Transportation, Bureau of Transportation Statistics, Office of the Assistant Secretary of Defense for Energy, Installations, and Environment). 2024. Military Bases. Accessed August 8, 2025. <https://data-usdot.opendata.arcgis.com/datasets/usdot::military-bases/about>
- WPPA (Washington Public Ports Association). Not dated. Frequently Asked Questions. Accessed December 3, 2024. <https://www.washingtonports.org/frequently-asked-questions/>

Programmatic Environmental Impact Statement

- WSDOT (Washington State Department of Transportation). 2018. Best Management Practices Field Guide for ESA § 4 (d) Habitat Protection. Accessed February 3, 2025. <https://wsdot.wa.gov/sites/default/files/2021-10/bestmanagementpracticesfieldguideregionalroadmaintenance.pdf>
- WSDOT (Washington Department of Transportation). 2020. Washington State Rail Plan 2019–2040, Exhibit 5-3: Mainline Level of Service Analysis for Base Year 2016. Accessed July 8, 2025. <https://wsdot.wa.gov/sites/default/files/2021-10/2019-2040-State-Rail-Plan.pdf>
- WSDOT (Washington State Department of Transportation). 2021. Regional Road Maintenance Forum Best Management Practices Guide. Accessed February 4, 2025. <https://wsdot.wa.gov/sites/default/files/2021-10/part2-bestmanagementpractices-regionalroadmaintenance.pdf>
- WSDOT (Washington State Department of Transportation). 2022. Washington State Freight System Plan. Accessed December 3, 2024. https://wsdot.wa.gov/sites/default/files/2022-12/WA-State-Freight-System-Plan-2022_0.pdf
- WSDOT (Washington State Department of Transportation). 2023. Public Transportation Benefit Area Formation Process Guidebook. Accessed November 7, 2024. <https://wsdot.wa.gov/sites/default/files/2023-02/Public%20Transportation%20Benefit%20Area%20Formation%20Process%20Guidebook.pdf>
- WSDOT (Washington State Department of Transportation). 2024a. Level of Service Standard for State Routes. Accessed August 10, 2025. <https://geo.wa.gov/datasets/WSDOT::wsdot-level-of-service-standard-for-state-routes/about>
- WSDOT (Washington State Department of Transportation). 2024b. Freight Data Freight and Goods Transportation System – Rail Corridors. Accessed July 8, 2024. https://gisdata-wsdata.opendata.arcgis.com/datasets/84ac4a62bda248de9465878dd965a6b8_1/explore?location=47.236478%2C-120.459419%2C7.78
- WSDOT (Washington State Department of Transportation). 2024c. WSDOT – Aviation Non-Military Airports. Accessed August 20, 2024. <https://gisdata-wsdata.opendata.arcgis.com/datasets/WSDOT::wsdot-aviation-non-military-airports/about>

Programmatic Environmental Impact Statement

WSDOT (Washington State Department of Transportation). 2025a. WSDOT Planning Study Guidance. Accessed February 3, 2025. <https://wsdot.wa.gov/engineering-standards/planning-guidance/planning-study-guidance>

WSDOT (Washington State Department of Transportation). 2025b. Annual Mileage and Travel Information. Accessed November 7, 2024. <https://wsdot.wa.gov/about/transportation-data/travel-data/annual-mileage-and-travel-information>

WSDOT (Washington State Department of Transportation). 2025c. State Bridge Structures. Accessed August 20, 2025. <https://geo.wa.gov/datasets/WSDOT::wsdot-state-bridge-structures-on/about>

WTSC (Washington Traffic Safety Commission). 2024. State of the State: Washington Traffic Fatalities. Brief No. 11. May 2024. Accessed November 7, 2024. https://wtsc.wa.gov/wp-content/uploads/2024/06/11_State-of-the-State_May2024.pdf

6.4.10 Section 3.11 – Public Services and Utilities

AESD (Association of Educational Service Districts). Not dated. Our Educational Service Districts. Accessed February 1, 2025. <https://www.waesd.org/about-us/esds/>

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed February 1, 2025. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

American Rivers. Not dated. Columbia River. Accessed February 1, 2025. <https://www.americanrivers.org/river/columbia-river/>

BLS (Bureau of Labor Statistics). 2023. May 2023 State Occupational Employment and Wage Estimates, Washington. Accessed February 1, 2025. https://www.bls.gov/oes/2023/may/oes_wa.htm#29-0000

BPA (Bonneville Power Administration). 2001. The Columbia River System Inside Story. April 2001. Accessed February 1, 2025. https://www.bpa.gov/-/media/Aep/power/hydropower-data-studies/columbia_river_inside_story.pdf

BPA (Bonneville Power Administration). 2025. Who We Are. Accessed July 1, 2025. <https://www.bpa.gov/about>

Programmatic Environmental Impact Statement

- Deloitte. 2020. Trust Land Performance Assessment: Trust Land Values and Returns As of FY 2018. Communication Resources Asset Class, Chapter 9. Prepared by Deloitte for the Washington State Department of Natural Resources. September 2020. Accessed September 12, 2025. https://dnr.wa.gov/sites/default/files/2025-03/em_trustassessment_entire.pdf
- DNR (Washington State Department of Natural Resources). 2025a. Communications Towers. Accessed July 1, 2025. <https://dnr.wa.gov/product-sales-and-leasing/communications-towers>
- DNR (Washington State Department of Natural Resources). 2025b. Communication Sites on Washington State Trust Lands Lease Rent Schedule July 2025 through June 2026. Accessed July 1, 2025. https://dnr.wa.gov/sites/default/files/2025-06/psl_comm_site_rent_sch_25_26.pdf
- DOE (U.S. Department of Energy). 2015. State of Washington Energy Sector Risk Profile. Accessed February 1, 2025. <https://www.energy.gov/sites/prod/files/2015/05/f22/WA-Energy%20Sector%20Risk%20Profile.pdf>
- DOE (U.S. Department of Energy). Not dated. Transmission Siting and Permitting Efforts. Accessed February 1, 2025. <https://www.energy.gov/gdo/transmission-siting-and-permitting-efforts>
- DOH (Washington State Department of Health). Not dated (a). Directory of Washington Hospitals. Accessed February 1, 2025. <https://doh.wa.gov/sites/default/files/legacy/Documents/2300/HospPatientData/HospDirPrint.pdf>
- DOH (Washington State Department of Health). Not dated (b). Drinking Water and Climate Change. Accessed February 1, 2025. <https://doh.wa.gov/community-and-environment/climate-and-health/drinking-water>
- Ecology (Washington State Department of Ecology). 2021. The State Solid and Hazardous Waste Plan. December 2021. Accessed February 1, 2025. <https://apps.ecology.wa.gov/publications/documents/2104050.pdf>

Programmatic Environmental Impact Statement

- Ecology (Washington State Department of Ecology). 2024a. Ecology Proposes Rulemaking on Electricity Markets. June 2024. Accessed February 1, 2025. <https://ecology.wa.gov/about-us/who-we-are/news/2024-news-stories/june-28-electricity-markets-rule-proposal#:~:text=As%20centralized%20electricity%20markets%20continue,rule%20making%20can%20be%20found%20online>
- Ecology (Washington State Department of Ecology). 2024b. Waste in Washington. November 2024. Accessed February 1, 2025. <https://storymaps.arcgis.com/stories/81f7dfd33e204263b2a8cd3014b14ed4>
- Ecology (Washington State Department of Ecology). Not dated. What is Wastewater? Accessed February 1, 2025. <https://ecology.wa.gov/Water-Shorelines/Water-quality/Wastewater>
- EIA (U.S. Energy Information Administration). 2024. Washington State Profile and Energy Estimates. Last updated April 18, 2024. Accessed February 1, 2025. <https://www.eia.gov/state/analysis.php?sid=WA>
- NWPCC (Northwest Power and Conservation Council). 2024. Council Briefings: NW Sets Summer Record for Peak Power Demand & an Update on the Western Resource Adequacy Program. September 2024. Accessed February 1, 2025. <https://www.nwcouncil.org/news/2024/09/18/july-heatwave-western-resource-adequacy-program-update/>
- Solar Washington. Not dated. Utilities in Washington. Accessed February 1, 2025. https://www.solarwa.org/utilities_washington_state
- U.S. Department of Justice. 2022. Census of State and Local Law Enforcement Agencies, 2018 – Statistical Tables. October 2022. Accessed February 1, 2025. <https://bjs.ojp.gov/sites/g/files/xyckuh236/files/media/document/csllea18st.pdf>
- U.S. Fire Administration. 2025. Washington Fire Loss and Fire Department Profile. Page last reviewed January 1, 2025. Accessed February 1, 2025. <https://www.usfa.fema.gov/statistics/states/washington.html>
- UTC (Washington Utilities and Transportation Commission). 2022a. Companies. Accessed February 1, 2025. https://www.utc.wa.gov/companies?&exposed_select_industry=564

Programmatic Environmental Impact Statement

UTC (Washington Utilities and Transportation Commission). 2022b. Pipeline Operators by County. Accessed February 1, 2025. <https://www.utc.wa.gov/pipeline-operators-county>

Washington Secretary of State. 2023. Summary of Service. Accessed February 1, 2025. https://www2.sos.wa.gov/_assets/library/libraries/libdev/downloads/statistics/23stats/summary.pdf

Washington State Department of Labor & Industries. Not dated. Electrical Utility Providers. Accessed February 1, 2025. <https://lni.wa.gov/licensing-permits/electrical/electrical-installation-information/electrical-utility-providers>

WPUDA (Washington Public Utility Districts Association). Not dated (a). Frequently Asked Questions. Accessed February 1, 2025. <https://www.wpuda.org/faqs>

WPUDA (Washington Public Utility Districts Association). Not dated (b). Water PUD Map. Accessed February 1, 2025. <https://www.wpuda.org/water>

6.4.11 Section 3.12 – Visual Quality

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed February 18, 2025. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

BLM (Bureau of Land Management). 1986. Visual Contrast Rating (Bureau of Land Management Manual Handbook H-8431-1). Washington, DC. Accessed February 18, 2025. https://www.blm.gov/sites/blm.gov/files/program_recreation_visual%20resource%20management_quick%20link_BLM%20Handbook%20H-8431-1%2C%20Visual%20Resource%20Contrast%20Rating.pdf

BLM (Bureau of Land Management). 2013. Best Management Practices for Reducing Visual Impacts of Renewable Energy Facilities on BLM-Administered Lands. https://blmwyomingvisual.anl.gov/docs/BLM_RenewableEnergyVisualBMPs_LowRes.pdf

BLM (Bureau of Land Management). Not dated. Federal Agency Visual Impact Mitigation Guidance. Accessed February 18, 2025. <https://blmwyomingvisual.anl.gov/mitigation/federal/index.cfm>

Programmatic Environmental Impact Statement

CIE (Commission Internationale de l'Eclairage). 2017. Technical Report: Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Installations. Vienna, Austria. CIE 150.

Department for Energy Security and Net Zero. 2023. National Policy Statement for Electricity Networks Infrastructure (EN-5). Accessed February 18, 2025. https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1147384/NPS_EN-5.pdf

DNR (Washington State Department of Natural Resources). 2016. Simplified Volcanic Hazards. Accessed August 6, 2025. <https://www.dnr.wa.gov/programs-and-services/geology/publications-and-data/gis-data-and-databases>

DNR (Washington State Department of Natural Resources). 2021. DNR Hydrography – Water Bodies – Forest Practices Regulation. Accessed July 31, 2025. https://data-wadnr.opendata.arcgis.com/datasets/28a0f93c33454297b4a9d3faf3da552a_1/explore?location=47.222021%2C-120.817200%2C7.78

Donaldson, J. J. Not dated. Mitigating Visual Impacts of Utility-Scale Energy Projects. U.S. Department of Agriculture. Accessed February 18, 2025. <https://www.fs.usda.gov/nrs/pubs/gtr/gtr-nrs-p-183papers/23-donaldson-VRS-gtr-p-183.pdf>

Experience Olympia and Beyond. 2025. Best Outdoor Adventures along the Thurston Bountiful Byway. Accessed February 18, 2025. <https://www.experienceolympia.com/blog/best-outdoor-adventures-along-the-thurston-bountiful-byway/#afternoon-biking-with-cookie-pit-stop>

FHWA (Federal Highway Administration). 2022. Scenic Byways and Federal Lands Map. Accessed August 7, 2025. <https://hepgis-usdot.hub.arcgis.com/apps/usdot::scenic-byways-and-federal-lands-map/explore>

FHWA (Federal Highway Administration). Not dated. National Scenic Byways & All-American Roads. Accessed February 18, 2025. <https://fhwaapps.fhwa.dot.gov/bywaysp/States/Show/WA>

GO ASTRONOMY. 2025. WA Dark Sky Places. Accessed February 18, 2025. <https://www.go-astronomy.com/dark-sky-parks-stargazing-state.php?State=WA>

Programmatic Environmental Impact Statement

- Landscape Institute. 2002. Guidelines for Landscape and Visual Impact Assessment, 2nd edition. New York, New York: Spon Press, Taylor and Francis Group. Accessed February 18, 2025. https://inquiry.leetstrolleybus.org/wp-content/uploads/2015/06/Guidelines-for-Landscape-and-Visual-Impact-Assessment-2nd_Edition-The-Landscape-Institute.pdf
- NPS Land Resources Division (National Park Service, Land Resources Division). 2025. Administrative Boundaries of National Park System Units - National Geospatial Data Asset (NGDA) NPS National Parks Dataset. Accessed July 30, 2025. <https://irma.nps.gov/DataStore/Reference/Profile/2224545?lnv=True>
- NWSRS (National Wild and Scenic Rivers System). Not dated. Washington. Accessed February 18, 2025. <https://www.rivers.gov/washington>
- Scott, Douglas. Not dated. Take a Drive Along the Ultimate Columbia River Gorge Loop. ClarkCounty Talk. Accessed February 18, 2025. <https://clarkcountytalk.com/2017/11/08/take-drive-along-ultimate-columbia-river-gorge-loop/>
- State of Washington. 2025. Scenic Byways. Accessed February 18, 2025. <https://stateofwatourism.com/scenic-byways/>
- Sullivan, R., N. Glines-Bovio, K. N. Rogers, J. H. McCarty, D. Korzilius, and H. Hartmann. 2023. Night Sky and Dark Environments: Best Management Practices for Artificial Light at Night on BLM-Managed Lands. Tech Note 457. U.S. Department of the Interior, Bureau of Land Management, National Operations Center, Denver, Colorado. Accessed February 18, 2025. <https://bjspark.com/BLM/index.html>
- USDOT (U.S. Department of Transportation). 2002. Scenic Byways: A Design Guide for Roadside Improvements. U.S. Department of Transportation Federal Highway Administration Coordinated Federal Lands Highway Technology Implementation Program. Accessed February 18, 2025. <http://www.npshistory.com/publications/usfs/scenic-byways-design-guide.pdf>
- USFS (U.S. Department of Agriculture, Forest Service). 2016. Columbia River Gorge NSA Administrative Boundary (EDW). Accessed July 15, 2024. <https://usfs.maps.arcgis.com/home/item.html?id=1a799432de70428c9a0b529da9780d9a>

Programmatic Environmental Impact Statement

- USFS (U.S. Department of Agriculture, Forest Service). 2022. National Wild and Scenic River Lines. Accessed July 15, 2024. https://data-usfs.hub.arcgis.com/datasets/71c40a05063f4e6ebec08af558a9145c_0/explore?location=47.549262%2C-119.426372%2C7.85
- USFS (U.S. Department of Agriculture, Forest Service). 2025. Original Proclaimed National Forests and National Grasslands. Accessed July 31, 2025. <https://data.fs.usda.gov/geodata/edw/datasets.php?xmlKeyword=Original+Proclaimed+National+Forests+and+National+Grasslands>
- USGS (U.S. Geological Survey). Not dated. Volcanoes of Washington’s Cascade Range. Accessed February 18, 2025. https://volcanoes.usgs.gov/vsc/file_mgr/file-103/5-6-14%20USGS%20CVO%20NIE%20Part%201.pdf
- WSDOT (Washington State Department of Transportation). 2024. Scenic Byways. Accessed July 15, 2024. <https://geo.wa.gov/datasets/WSDOT::wsdot-scenic-byways/about>
- WSDOT (Washington State Department of Transportation). 2025. Population Centers. Accessed July 31, 2025. <https://geo.wa.gov/datasets/WSDOT::wsdot-population-centers/explore>
- WSDOT (Washington State Department of Transportation). Not dated. Washington Transportation Plan. Accessed July 23, 2025. <https://wsdot.wa.gov/construction-planning/statewide-plans/washington-transportation-plan> **Error! Hyperlink reference not valid.**
- WSPRC (Washington State Parks and Recreation Commission). 2025. PARKS – Park Boundaries. Accessed July 31, 2025. <https://geo.wa.gov/datasets/wa-stateparks::parks-park-boundaries/about>

6.4.12 Section 3.13 – Noise and Vibration

- Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed February 24, 2025. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

Programmatic Environmental Impact Statement

- APHA (American Public Health Association). 2021. Noise as a Public Health Hazard. October 2021. Accessed March 1, 2025. <https://apha.org/policies-and-advocacy/public-health-policy-statements/policy-database/2022/01/07/noise-as-a-public-health-hazard#:~:text=Noise%20is%20defined%20in%20this,definition%2C%20associate%20with%20the%20workplace>
- Bolt Beranek and Newman Inc. 1984. Electric Power Plant Environmental Noise Guide. Edison Electric Institute. Volume 1, 2nd Edition. Cambridge, Massachusetts. <https://www.nrc.gov/docs/ML2004/ML20042B483.pdf>
- BPA (Bonneville Power Administration), 1977. Field Effects Calculation Tool. Accessed July 31, 2025. <https://www.bpa.gov/-/media/Aep/foia/apps/Corona-and-Field-Effects-Excel-Version.zip>
- DOD (U.S. Department of Defense). 2022. Unified Facilities Criteria (UFC) Noise and Vibration Control. UFC 3-450-01. December 2022. Accessed February 24, 2025. https://www.wbdg.org/FFC/DOD/UFC/ufc_3_450_01_2022.pdf
- DOH (Washington State Department of Health). 2020. Hospitals. Accessed July 20, 2024. <https://doh.wa.gov/data-and-statistical-reports/data-systems/geographic-information-system/downloadable-data-sets>
- DOR (Washington State Department of Revenue). 2018. Washington State Land Use 2010. Accessed July 31, 2025. <https://geo.wa.gov/datasets/wa-geoservices::washington-state-land-use-2010/about>
- EPA (U.S. Environmental Protection Agency). 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. Office of Noise Abatement and Control. Washington, DC. Accessed February 24, 2025. <https://nepis.epa.gov/exe/zypdf.cgi/2000l3ln.pdf?dockey=2000l3ln.pdf>
- FHWA (Federal Highway Administration). 2017. Roadway Construction Noise Model User Guide. Accessed February 24, 2025. https://www.fhwa.dot.gov/Environment/noise/construction_noise/rcnm/rcnm00.cfm

Programmatic Environmental Impact Statement

- FTA (Federal Transit Administration). 2018. Transit Noise and Vibration Impact Assessment Manual, FTA Report No. 0123. Accessed February 24, 2025. https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf
- Idaho Power. 2018. Exhibit AA Electric and Magnetic Fields. September 2018. Accessed March 1, 2025. <https://www.oregon.gov/energy/facilities-safety/facilities/Facilities%20library/2018-09-28-B2H-ASC-Exhibit-AA.pdf>
- IEEE (Institute of Electrical and Electronics Engineers). 2017. IEEE 1829-2017 Guide for Conducting Corona Tests on Hardware for Overhead Transmission Lines and Substations. September 2017. Accessed March 1, 2025. <https://standards.ieee.org/ieee/1829/4966/>
- ISO (International Organization of Standardization). 1993. Attenuation of Sound During Propagation Outdoors, Part 1: Calculation of the Absorption of Sound by the Atmosphere. Geneva, Switzerland: ISO.
- NASCE (Northwest Alliance for Computational Science and Engineering). 2020. United States Average Total Precipitation, 1991-2020 (800m; BIL). Accessed October 3, 2024. <https://prism.oregonstate.edu/normals/>
- NPS Land Resources Division (National Park Service – Land Resources Division). 2025. Administrative Boundaries of National Park System Units – National Geospatial Data Asset (NGDA) NPS National Parks Dataset. Accessed July 30, 2025. <https://irma.nps.gov/DataStore/Reference/Profile/2224545?lnv=True>
- OSPI (Washington Office of Superintendent of Public Instruction). 2025. Washington State Public Schools Buildings. Accessed July 31, 2025. <https://geo.wa.gov/datasets/WAOSPIGIS::washington-state-public-schools/about?layer=0>
- U.S. Census Bureau. 2020. USA_Census_2020_DHC_Total_Population. Accessed October 3, 2024. https://services.arcgis.com/P3ePLMYs2RVChkJx/arcgis/rest/services/USA_Census_2020_DHC_Total_Population/FeatureServer
- WaTech (Washington Technology Solutions). 2025. Current Parcels. Accessed July 31, 2025. <https://geo.wa.gov/datasets/wa-geoservices::current-parcels/about>

World Population Review. 2024. Washington Cities by Population (2024). Accessed February 24, 2025. <https://worldpopulationreview.com/us-cities/Washington>

WSDOSH (Washington State Department of Social and Health Services). 2020. Long Term Care - Nursing Homes. Accessed July 20, 2024. <https://geo.wa.gov/datasets/WADSHS::long-term-care-nursing-homes/about>

WSDOT (Washington State Department of Transportation). 2025. WSDOT – State Route (1:500K) Current. Accessed January 27, 2025. <https://gisdata-wsdot.opendata.arcgis.com/datasets/WSDOT::wsdot-national-highway-system-for-state-routes/about>

WSPRC (Washington State Parks and Recreation Commission). 2025. PARKS – Park Boundaries. Accessed July 30, 2025. <https://geo.wa.gov/datasets/wa-stateparks::parks-park-bound>

6.4.13 Section 3.14 – Recreation

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

Army MWR (Army Morale, Welfare, and Recreation). 2024. Washington Military Campgrounds. Accessed September 19, 2024. <https://www.armymwr.com/programs-and-services/outdoor-recreation/camping-rv-parks/washington>

BLM (Bureau of Land Management). 2016. Policy Guidance for Processing Right-of-Way Applications for High-Voltage Electric Transmission Lines. Permanent IM 2017-002. November 2016. Accessed September 19, 2024. <https://www.blm.gov/policy/permanent-im-2017-002>

DAHP (Washington State Department of Archaeology and Historic Preservation). 2024. Data Downloads. Last updated July 10, 2024. Accessed February 20, 2025. <https://www.nps.gov/subjects/nationalregister/data-downloads.htm>

DAHP (Washington State Department of Archaeology and Historic Preservation). 2025a. DAHP – Register Properties. Accessed September 5, 2025. <https://www.arcgis.com/home/item.html?id=6a4e1c73684c4c8b94d696017861467a>

Programmatic Environmental Impact Statement

DAHP (Washington State Department of Archaeology and Historic Preservation).

2025b. DAHP – Register Districts. Accessed September 5, 2025.

<https://www.arcgis.com/home/item.html?id=2fb909843215410f8c4ba42f3c66f674>

DNR (Washington State Department of Natural Resources). 2021. DNR Hydrography -

Water Bodies - Forest Practices Regulation. Accessed July 31, 2025. [https://data-](https://data-wadnr.opendata.arcgis.com/datasets/28a0f93c33454297b4a9d3faf3da552a_1/explore?location=47.222021%2C-120.817200%2C7.78)

[wadnr.opendata.arcgis.com/datasets/28a0f93c33454297b4a9d3faf3da552a_1/explore?location=47.222021%2C-120.817200%2C7.78](https://data-wadnr.opendata.arcgis.com/datasets/28a0f93c33454297b4a9d3faf3da552a_1/explore?location=47.222021%2C-120.817200%2C7.78)

DOC (Washington State Department of Commerce). 2021. Energy Facility Siting in Washington: Projects, Strategies and Resources. August 2021. Accessed

September 19, 2024. https://www.commerce.wa.gov/wp-content/uploads/2021/09/Energy-Facility-Projects-Strategies-and-Resources_Aug-2021.pdf

ECONorthwest. 2019. Economic, Environmental, & Social Benefits of Recreational Trails in Washington State. October 2019. Accessed August 1, 2024.

<https://rco.wa.gov/wp-content/uploads/2020/01/HikingBikingStudy.pdf>

EFSEC (Washington Energy Facility Site Evaluation Council). 2022. Transmission Corridors Work Group Final Report. Accessed October 1, 2024.

https://www.efsec.wa.gov/sites/default/files/181034/Final_TCWG_Report%20_2022_0801.pdf

NPS (National Park Service). 2025a. National Park Service Lands. Accessed June 9, 2025.

<https://data-usdot.opendata.arcgis.com/datasets/usdot::national-parks/explore?location=47.688949%2C-122.415994%2C9.21>

NPS (National Park Service). 2025b. Administrative Boundaries of National Park System Units – National Geospatial Data Asset (NGDA) NPS National Parks Dataset. Accessed July 30, 2025.

<https://irma.nps.gov/DataStore/Reference/Profile/2224545?lnv=True>

NPS (National Park Service). Not dated. Washington. Accessed February 20, 2025.

<https://www.nps.gov/state/wa/index.htm>

RCO (Washington State Recreation and Conservation Office). 2019. Recreational Assets of Statewide Significance in Washington State Study Report. September 2019.

Accessed September 19, 2024. <https://rco.wa.gov/wp-content/uploads/2019/10/RecAssetStateSignificance.pdf>

Programmatic Environmental Impact Statement

- RCO (Washington State Recreation and Conservation Office). 2023. 2023 Recreation and Conservation Plan. Accessed July 1, 2024. <https://rco.wa.gov/wp-content/uploads/2023/07/SCORPExecSummary.pdf>
- RCO (Washington State Recreation and Conservation Office). 2024a. Investing in Washington's Great Outdoors. Accessed August 1, 2024. <https://rco.wa.gov/>
- RCO (Washington State Recreation and Conservation Office). 2024b. RCO Web Areas, 2023 SCORP Inventory Recreational Lands Polygons. Accessed August 20, 2024. <https://wa-rco-scorp-2023-wa-rco.hub.arcgis.com/datasets/wa-rco::rco-web-areas/about>
- RCO (Washington State Recreation and Conservation Office). 2025a. Trail Heads. Accessed August 5th, 2025. Data Download | Washington State Trails Database Hub (arcgis.com).
- RCO (Washington State Recreation and Conservation Office). 2025b. Trails. Accessed August 5th, 2025. Data Download | Washington State Trails Database Hub (arcgis.com)
- USFS (U.S. Department of Agriculture, Forest Service). 2025. Original Proclaimed National Forests and National Grasslands. Accessed July 31, 2025. <https://data.fs.usda.gov/geodata/edw/datasets.php?xmlKeyword=Original+Proclaimed+National+Forests+and+National+Grasslands>
- USFWS (U.S. Fish and Wildlife Service). 2025. National Realty Boundaries, National Wildlife Refuges. Accessed September 9, 2025. <https://gis-fws.opendata.arcgis.com/datasets/fws::fws-national-realty-boundaries/about>
- USGS (U.S. Geological Survey). 2024. Gap Analysis Project (GAP), 2024, Protected Areas Database of the United States (PAD-US) 4: U.S. Geological Survey data release. Accessed September 9, 2025. <https://doi.org/10.5066/P96WBCHS>
- Van Deynze, B. 2024. Fishing, Hunting, and Wildlife –Associated Recreation in Washington: Participation and Expenditures in 2022. Olympia, Washington: Washington Department of Fish and Wildlife. January 18, 2024. Accessed August 1, 2024. <https://wdfw.wa.gov/sites/default/files/publications/02466/wdfw02466.pdf>

Programmatic Environmental Impact Statement

- Washington Wild. 2024. Wilderness Designation: Preserving our Lands for Future Generations. Accessed August 1, 2024. <https://wawild.org/protect/wilderness-designation/#:~:text=There%20are%2031%20Wilderness%20areas,and%20Bureau%20of%20Land%20Management>
- WDFW (Washington Department of Fish and Wildlife). 2022. Washington Hunters' Attitudes Toward Wildlife and Hunting Management. Conducted for the Washington Department of Fish and Wildlife. Accessed August 1, 2024. <https://wdfw.wa.gov/sites/default/files/2022-08/WA%202022%20Hunter%20Report%202022%2007%2029.pdf>
- WDFW (Washington Department of Fish and Wildlife). 2024a. Game Management Planning. Accessed September 19, 2024. <https://wdfw.wa.gov/hunting/management/planning>
- WDFW (Washington Department of Fish and Wildlife). 2024b. Places to Go Hunting. Accessed August 1, 2024. <https://wdfw.wa.gov/hunting/locations>
- WDFW (Washington Department of Fish and Wildlife). 2024c. Fishing & Shellfishing. Accessed August 1, 2024. <https://wdfw.wa.gov/fishing>
- WDFW (Washington Department of Fish and Wildlife). 2025. Game Management Units. Accessed August 5th, 2025. Game Management Units (Polygons) 2025 | WA Dept of Fish and Wildlife (arcgis.com)
- WDFW (Washington Department of Fish and Wildlife). Not dated. Game Management Plan July 2015 – June 2021. <https://wdfw.wa.gov/sites/default/files/publications/01676/wdfw01676.pdf>
- WSPRC (Washington State Parks and Recreation Commission). 2020. Strategic Plan 2021–2031. September 2020. Accessed August 1, 2024. <https://parks.wa.gov/sites/default/files/2023-10/2020-9%20Strategic%20Plan.pdf>
- WSPRC (Washington State Parks And Recreation Commission). 2025. Parks – Park Boundaries. Accessed July 31, 2025. <https://geo.wa.gov/datasets/wastateparks::parks-park-boundaries/about>
- WSPRC (Washington State Parks and Recreation Commission). Not dated. Winter Recreation Program. Accessed August 1, 2024. <https://parks.wa.gov/about/agency/winter-recreation-program>

WTA (Washington Trails Association). 2024. Hike Washington's National Forests. Accessed September 23, 2024. <https://www.wta.org/go-outside/seasonal-hikes/summer-destinations/hike-washingtons-national-forests>

6.4.14 Section 3.15 – Historic and Cultural Resources

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024. <https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

APA (American Planning Association). 1997. APA Policy Guide on Historic and Cultural Resources. Accessed September 13, 2024. <https://www.planning.org/policy/guides/adopted/historic.htm>

Artifacts Consulting, Inc. 2008. Heritage Barns: Statewide Survey and Physical Needs Assessment. Commissioned by the Washington State Department of Archaeology and Historic Preservation, Olympia, Washington, for the Washington State Heritage Barn Preservation Advisory Committee, June 30, 2008. Accessed August 2024. <https://dahp.wa.gov/sites/default/files/HeritageBarnReport.pdf>

Artifacts Consulting, Inc. 2011. A Maritime Resource Survey for Washington's Saltwater Shores. Washington State Department of Archaeology and Historic Preservation, Olympia, Washington, June 27, 2011. https://dahp.wa.gov/sites/default/files/MaritimeResourcesSurvey_0.pdf

Artifacts Consulting, Inc. and Past Forward Northwest Cultural Resources. 2011. National Register of Historic Places Multiple Property Documentation Form: Historic Barns of Washington State. United States Department of the Interior, National Park Service, Washington, D.C., September 2011. Accessed August 2024. https://dahp.wa.gov/sites/default/files/HistoricBarns_ofWASState_MPD_0.pdf

Beckham, S. D. 1978. Identifying and Assessing Historical Cultural Resources in the Pacific Northwest (Region 6, U.S.F.S). United States Department of Agriculture (USDA), Forest Service, Pacific Northwest Region, 1978. Accessed September 13, 2024. <https://npshistory.com/publications/usfs/region/6/crm-2.pdf>

Programmatic Environmental Impact Statement

- BPA (Bonneville Power Administration). 2010. Corridors of Power. Historic Context Statement for the Bonneville Power Administration Portland, Oregon, under Master Agreement #38010. Prepared by George Kramer, M. S. Accessed September 13, 2024. <https://www.bpa.gov/-/media/Aep/environmental-initiatives/cultural-resources/transmission-projects/corridors-of-power.pdf>
- BPA (Bonneville Power Administration). 2020. Manual for Built Resources. May 2020. Accessed September 13, 2024. <https://www.bpa.gov/-/media/Aep/environmental-initiatives/cultural-resources/transmission-projects/bpa-manual-for-built-resources-report.pdf>
- BPA (Bonneville Power Administration). Not dated. Draft Programmatic Agreement among The Bonneville Power Administration, The Oregon State Historic Preservation Office, The Washington State Historic Preservation Office, The Idaho State Historic Preservation Office, The Montana State Historic Preservation Office, And The Advisory Council On Historic Preservation To Address Effects To BPA Transmission Lines. Accessed September 13, 2024. <https://www.bpa.gov/-/media/Aep/environmental-initiatives/cultural-resources/national-historic-preservation-act-section-106-programmatic-agreement-draft.pdf>
- Bruce, R., C. Holstine, R. H. Krier, and J. B. Barber. 1995. National Register of Historic Places, Multiple Property Documentation Form: Washington State Highway Bridges, 1941-1950. United States Department of the Interior, National Park Service, Washington, D.C., February 1995. Accessed September 13, 2024. https://npgallery.nps.gov/NRHP/GetAsset/NRHP/64500697_text
- CEQ and ACHP (Council on Environmental Quality and Advisory Council for Historic Preservation). 2013. NEPA and NHPA: A Handbook for Integrating NEPA and Section 106. Accessed June 2023. https://www.achp.gov/sites/default/files/2017-02/NEPA_NHPA_Section_106_Handbook_Mar2013_0.pdf
- DAHP (Washington State Office of Archaeology and Historic Preservation). 1989. Built in Washington: 12,000 years of Pacific Northwest Archaeological Sites and Historic Buildings. Pullman Washington: Washington State University Press
- DAHP (Washington State Department of Archaeology and Historic Preservation). 2017. Traditional Cultural Properties (TCPs). Letter signed by Washington State Historic Preservation Officer to DAHP (Department Wide), December 1, 2017. Accessed September 2024. https://dahp.wa.gov/sites/default/files/2017_SIGNED_TCP.pdf

Programmatic Environmental Impact Statement

DAHP (Washington State Department of Archaeology and Historic Preservation). Not dated (a). "Thematic/MPD Nominations of the State of Washington." Accessed August 2024. https://dahp.wa.gov/sites/default/files/THEME_LIST%20FINAL_0.pdf

DAHP (Washington State Department of Archaeology and Historic Preservation). Not dated (b). Washington Information System for Architectural and Archaeological Records Data (WISAARD). Accessed January 30, 2025. <https://wisaard.dahp.wa.gov/>

Dougherty, P. 2020. Boldt Decision: United States v. State of Washington. HistoryLink.org. Accessed October 15, 2024. <https://www.historylink.org/File/21084>

Ecology (Washington State Department of Ecology). 2025. National Hydrography Dataset for Washington (NHD 24k - 4k). Accessed August 20, 2025. <https://geo.wa.gov/datasets/waecy::hydrography-nhd-points/about>

EFSEC (Washington Energy Facility Site Evaluation Council). 2022. Transmission Corridors Work Group Final Report. August 1, 2022. Accessed September 12, 2024. https://www.efsec.wa.gov/sites/default/files/181034/Final_TCWG_Report%20_2022_0801.pdf

Garfield, L. and G. Griffith. 1987. National Register of Historic Places Multiple Property Documentation Form: Rural Public Schools in Washington from Early Settlement to 1945. United States Department of the Interior, National Park Service, Washington, D.C. Prepared by Archaeology and Historic Preservation, Olympia, Washington, March 17, 1986. Accessed August 2024. <https://www.historyspokane.org/wp-content/uploads/2015/10/Rural-Public-Schools-in-WA-1987.pdf>

Kramer, G. 1992. U.S. Department of the Interior National Parks Service National Register of Historic Places Multiple Property Documentation Form. Bonneville Power Administration [BPA] Pacific Northwest Transmission System. March 1992. Accessed September 13, 2024. <https://www.bpa.gov/-/media/Aep/environmental-initiatives/cultural-resources/transmission-projects/multiple-property.pdf>

Programmatic Environmental Impact Statement

- NPS (National Park Service). 2023. National Register Bulletin: Identifying, Evaluating, and Documenting Traditional Cultural Places (DRAFT). United States Department of the Interior, National Park Service, Cultural Resources, Partnerships, and Science, Washington, D.C., November 6, 2023. Accessed September 2024. <https://parkplanning.nps.gov/showFile.cfm?sfid=697992&projectID=107663>
- NPS (National Park Service). 2024. National Historic Landmarks. List of NHLs by State. October 9, 2024. Accessed October 14, 2024. <https://www.nps.gov/subjects/nationalhistoriclandmarks/list-of-nhls-by-state.htm>
- Soderberg, L. 1982. National Register of Historic Places Inventory – Nomination Form: Historic Bridges and Tunnels in Washington State Thematic Resources. United States Department of the Interior, National Park Service, Washington, D.C., 1980. Accessed September 13, 2024. https://npgallery.nps.gov/NRHP/GetAsset/NRHP/64000902_text
- Soderberg, L. 1988. National Register of Historic Places Multiple Property Documentation Form: Hydroelectric Power Plants in Washington State, 1890-1938. United States Department of the Interior, National Park Service, Washington, D.C., 1988. Accessed August 2024. <https://npgallery.nps.gov/NRHP/GetAsset/43391db0-2ead-433d-a77b-02a8fdfa250d>
- Swope, C. T. 2005. Classic Houses of Seattle: High Style to Vernacular, 1870-1950. Portland, Oregon: Timber Press, Inc.
- USGS (U.S. Geological Survey). 2025. USGS Surface-Water Data for Washington. Accessed February 5, 2025. <https://waterdata.usgs.gov/wa/nwis/sw>
- WAPA (Western Area Power Administration). 2015. BLM National NEPA Register. TransWest Express Transmission Project, Final Environmental Impact Statement. U.S. Department of the Interior, Bureau of Land Management, Wyoming State Office. Accessed September 13, 2024. <https://eplanning.blm.gov/eplanning-ui/project/65198/570>
- WSDOT (Washington State Department of Transportation). 2007. Appendix B: Summaries of Usual and Accustomed Areas prepared by the Washington Attorney General’s Office. Olympia, Washington: Washington State Department of Transportation. Accessed June 24, 2025. https://wsdot.wa.gov/sites/default/files/2021-10/Env-NSEPA-Trib-AppB_UandASummarybyAG.pdf

6.4.15 Section 3.16 – Socioeconomics

Americans for a Clean Energy Grid. 2023. Recommended Siting Practices for Electric Transmission Developers. Accessed September 16, 2024.

<https://cleanenergygrid.org/wp-content/uploads/2023/02/Recommended-Siting-Practices-for-Electric-Transmission-Developers-ACEG-February-2023.pdf>

Associated General Contractors of America. 2024. Construction Outlook Washington Survey Results. Accessed August 30, 2024. https://www.agc.org/sites/default/files/users/user21902/2024_Outlook_Washington_FINAL.pdf

Associated General Contractors of America. 2025. State Construction Employment (seasonally adjusted), Ranked by Latest 12-month % Change. Accessed August 7, 2025.

https://www.agc.org/sites/default/files/users/user21902/State%20Empl%202024_Dec_12moRank.pdf

Bank of America Global Research. 2024. Global Energy Weekly. Accessed September 16, 2024. <https://rsch.baml.com/access?q=cdtyt3g8dmw&ps=true&pv=validated>

BEA (Bureau of Economic Analysis). 2024a. Gross Domestic Product by State and Personal Income by State, 2nd Quarter 2024. Accessed August 30, 2024.

<https://www.bea.gov/data/gdp/gdp-state>

BEA (Bureau of Economic Analysis). 2024b. GDP by County, Metro, and Other Areas. Accessed August 30, 2024. <https://www.bea.gov/data/gdp/gdp-county-metro-and-other-areas>

BLS (Bureau of Labor Statistics). 2024a. Quarterly Census of Employment and Wages.

Accessed September 30, 2024. <https://www.bls.gov/cew/about-data/location-quotients-explained.htm>

BLS (Bureau of Labor Statistics). 2024b. State and Area Employment, Hours, and Earnings, Washington, 2024. Accessed August 30, 2024.

https://data.bls.gov/timeseries/SMS53000002000000001?amp%253bdata_tool=XGtable&output_view=data&include_graphs=true

Programmatic Environmental Impact Statement

- Brattle Group, Inc., and Grid Strategies, LLC. 2021. Transmission Planning for the 21st Century: Proven Practices That Increase Value and Reduce Costs. Accessed October 18, 2024. <https://acore.org/wp-content/uploads/2021/10/Transmission-Planning-for-the-21st-Century.pdf>
- CEQ (Council on Environmental Quality). 2022. Climate and Economic Justice Screening Tool: Frequently Asked Questions. Accessed March 1, 2025. <https://bidenwhitehouse.archives.gov/wp-content/uploads/2022/02/CEQ-CEJST-QandA.pdf>
- Data Center Map. Not dated. Washington Data Centers. Accessed August 7, 2025. <https://www.datacentermap.com/usa/washington/>
- Dgtl Infra. 2024. Data Center Power: A Comprehensive Overview of Energy. Accessed August 30, 2024. <https://dgtlinfra.com/data-center-power/>
- DNR (Washington State Department of Natural Resources). 2019. Washington State Wildland Fire Protection 10-year Strategic Plan. Accessed July 9, 2025. http://dnr.wa.gov/publications/rp_wildfire_strategic_plan.pdf
- DOC (Washington State Department of Commerce). 2025. Clean Energy Transformation Act (CETA). March 17, 2025. Accessed March 1, 2025. <https://www.commerce.wa.gov/energy-policy/electricity-policy/ceta/>
- DOC (Washington State Department of Commerce). Not dated. Accessibility Statement. Accessed November 22, 2024. <https://choosewashingtonstate.com/accessibility/>
- DOE (U.S. Department of Energy). 2017. Guide to Advancing Opportunities for Community Benefits through Energy Project Development. Accessed October 18, 2024. <http://staging.community-wealth.org/sites/clone.community-wealth.org/files/downloads/CBA%20Resource%20Guide.pdf>
- DOE (U.S. Department of Energy). 2018. Low-Income Household Energy Burden Varies Among States – Efficiency Can Help in All of Them. December 2018. Accessed March 1, 2025. https://www.energy.gov/sites/prod/files/2019/01/f58/WIP-Energy-Burden_final.pdf
- DOE (U.S. Department of Energy). 2024a. National Transmission Planning Study. Accessed October 18, 2024. <https://www.energy.gov/sites/default/files/2024-10/NationalTransmissionPlanningStudy-ExecutiveSummary.pdf>

Programmatic Environmental Impact Statement

- DOE (U.S. Department of Energy). 2024b. LEAD Tool, Energy Burden in Washington. Accessed August 30, 2024. <https://www.energy.gov/scep/slsc/lead-tool>
- DOH (Washington State Department of Health). 2022. Washington Environmental Health Disparities Map Technical Report. July 2022. Accessed March 1, 2025. https://doh.wa.gov/sites/default/files/2022-07/311-011-EHD-Map-Tech-Report_0.pdf
- DOH (Washington State Department of Health). 2024. Environmental Justice Assessment Report. November 2023. Accessed March 1, 2025. <https://doh.wa.gov/sites/default/files/2024-06/300-048.pdf>
- Donalds, S. 2022. Washington State's Roadmap to 100% Clean Energy – Leading with Equity and Public Participation. Accessed August 30, 2024. <https://www.cesa.org/washington-roadmap-to-100-clean-energy/>
- DOR (Washington State Department of Revenue). 2022a. Business and Occupation (B&O) Tax. Accessed August 30, 2024. <https://dor.wa.gov/education/industry-guides/private-mailing-business-tax-guide/business-and-occupation-bo-tax>
- DOR (Washington State Department of Revenue). 2022b. Construction Tax Matrix. Accessed August 30, 2024. <https://dor.wa.gov/education/industry-guides/construction/construction-tax-matrix>
- Ecology (Washington State Department of Ecology). 2024. Layer: Overburdened Communities of Washington State. May 2024. Accessed March 1, 2025. https://gis.ecology.wa.gov/hosting/rest/services/Hosted/WA_OBC_May2024/FeatureServer/0
- Ecology (Washington State Department of Ecology). Not dated. Climate Commitment Act. Accessed March 1, 2025. <https://ecology.wa.gov/Air-Climate/Climate-Commitment-Act#revenueanchor>
- EFSEC (Washington Energy Facility Site Evaluation Council). 2022. Transmission Corridors Work Group Final Report. August 2022. Accessed November 8, 2024. https://www.efsec.wa.gov/sites/default/files/181034/Final_TCWG_Report%20_2022_0801.pdf
- EIA (U.S. Energy Information Administration). 2024a. Washington State Profile and Energy Estimates, Profile Analysis. Accessed August 30, 2024. <https://www.eia.gov/state/analysis.php?sid=WA>

Programmatic Environmental Impact Statement

- EIA (U.S. Energy Information Administration). 2024b. Retail Electricity Prices Closely Tracked Inflation over the Last 10 Years. Accessed September 16, 2024. <https://www.eia.gov/todayinenergy/detail.php?id=63064>
- Environmental Justice Task Force. 2020. Recommendations for Prioritizing EJ in Washington State Government. Accessed December 4, 2024. https://healthequity.wa.gov/sites/default/files/2022-01/EJTF%20Report_FINAL%281%29.pdf
- ESD (Washington State Employment Security Department). 2025. Monthly Employment Report June 2025. July 2025. Accessed August 6, 2025. <https://esd.wa.gov/jobs-and-training/labor-market-information/reports-and-research/monthly-employment-report>
- ESD (Washington State Employment Security Department). Not dated. Projections. Accessed September 16, 2024. <https://esd.wa.gov/labormarketinfo/projections>
- NREL (National Renewable Energy Laboratory). 2013. Transmission Line Jobs and Economic Development Impact (JEDI) Model User Reference Guide. Accessed September 30, 2024. <https://www.nrel.gov/docs/fy14osti/60250.pdf>
- OFM (Washington State Office of Financial Management). 2010. Census 2010 – Census Tracts. Accessed August 7, 2025. <https://ofm.wa.gov/washington-data-research/population-demographics/gis-data/census-geographic-files>
- OFM (Washington State Office of Financial Management). 2020. Census 2020 – Census Tracts. Accessed August 7, 2025. <https://ofm.wa.gov/washington-data-research/population-demographics/gis-data/census-geographic-files>
- OFM (Washington State Office of Financial Management). 2024a. Components of Population Change. Accessed August 30, 2024. <https://ofm.wa.gov/washington-data-research/statewide-data/washington-trends/population-changes/components-population-change>
- OFM (Washington State Office of Financial Management). 2024b. Growth Management Act Population Projections for Counties: 2020 to 2050. 2022 Projections, County Projections, Five-Year Intervals. Accessed August 30, 2024. <https://ofm.wa.gov/washington-data-research/population-demographics/population-forecasts-and-projections/growth-management-act-county-projections/growth-management-act-population-projections-counties-2020-2050>

Programmatic Environmental Impact Statement

- OFM (Washington State Office of Financial Management). 2024c. Annual Comprehensive Financial Report, Management's Discussion and Analysis. Accessed August 30, 2024. <https://ofm.wa.gov/accounting/financial-audit-reports/annual-comprehensive-financial-report>
- OFM (Washington State Office of Financial Management). 2024d. Overburdened Communities of Washington State. Accessed July 31, 2025. <https://geo.wa.gov/datasets/wa-ofm::overburdened-communities-of-washington-state/explore?location=47.003811%2C-120.897341%2C5.88>
- PNUCC (Pacific Northwest Utilities Conference Committee). 2024. Northwest Regional Forecast of Power Loads and Resources: August 2024 through July 2034. Accessed August 30, 2024. <https://www.pnucc.org/wp-content/uploads/2024-PNUCC-Northwest-Regional-Forecast-final.pdf>
- PSE (Puget Sound Energy). Not dated. Open Access Transmission Tariff. Accessed February 1, 2025. https://www.oasis.oati.com/psei/pseidocs/2016-09-01_pse_currently_effective_oatt.pdf
- Raphael D., T. Bryan, J. Mikkonen, and A. Raphael. 2020. Social Determinants of Health: The Canadian Facts – 2nd Edition. Accessed September 4, 2024. https://thecanadianfacts.org/The_Canadian_Facts-2nd_ed.pdf
- SIA (The Interorganizational Committee on Guidelines and Principles for Social Impact Assessment). 1994. Guidelines and Principles for Social Impact Assessment. Accessed October 18, 2024. https://www.iaia.org/pdf/IAIAMemberDocuments/Publications/Guidelines_Principles/SIA%20Guide.PDF
- Thuraisingham, M. 2021. An Equitable Transition to 100% Clean Energy in Washington. March 2021. Accessed March 1, 2025. <https://frontandcentered.org/an-equitable-transition-to-100-clean-energy-in-washington/>
- U.S. Census Bureau. 2010. Total Population. 2010 Decennial Census, DEC Summary File 1, Table P1. Accessed August 6, 2025. [https://data.census.gov/table/DECENNIALSF12010.P1?g=040XX00US53\\$1400000&y=2010&tp=true](https://data.census.gov/table/DECENNIALSF12010.P1?g=040XX00US53$1400000&y=2010&tp=true)
- U.S. Census Bureau. 2020. Total Population. 2020 Decennial Census, DEC Demographic and Housing Characteristics, Table P1. Accessed August 6, 2025. [https://data.census.gov/table/DECENNIALPL2020.P1?q=P1:RACE&g=040XX00US53\\$0500000](https://data.census.gov/table/DECENNIALPL2020.P1?q=P1:RACE&g=040XX00US53$0500000)

Programmatic Environmental Impact Statement

- U.S. Census Bureau. 2021. Group Quarters and Housing Unit Estimates Terms and Definitions. Accessed September 3, 2024. <https://www.census.gov/programs-surveys/popest/about/glossary/housing.html>
- U.S. Census Bureau. 2023a. Selected Housing Characteristics. 2023 American Community Survey, ACS 5-year Estimates Data Profiles, Table DP04. Accessed August 6, 2025. [https://data.census.gov/table/ACSDP5Y2022.DP04?q=median+home+value&g=040XX00US53,53\\$0500000](https://data.census.gov/table/ACSDP5Y2022.DP04?q=median+home+value&g=040XX00US53,53$0500000)
- U.S. Census Bureau. 2023b. Poverty Status in the Past 12 Months. 2023 American Community Survey, ACS 5-year Estimates Subject Tables, Table S1701. Accessed August 6, 2025. [https://data.census.gov/table/ACSST5Y2023.S1701?t=Income+and+Poverty&g=040XX00US53\\$1400000&y=2023&tp=true](https://data.census.gov/table/ACSST5Y2023.S1701?t=Income+and+Poverty&g=040XX00US53$1400000&y=2023&tp=true)
- U.S. Census Bureau. 2023c. Urban and Rural. Accessed October 22, 2024. <https://www.census.gov/programs-surveys/geography/guidance/geo-areas/urban-rural.html>
- U.S. Department of Health and Human Services. Not dated (a). Social Cohesion. Accessed January 29, 2025. <https://odphp.health.gov/healthypeople/priority-areas/social-determinants-health/literature-summaries/social-cohesion#:~:text=Social%20cohesion%20refers%20to%20the,9>
- U.S. Department of Health and Human Services. Not dated (b). Social Determinants of Health. Accessed December 4, 2024. <https://health.gov/healthypeople/objectives-and-data/social-determinants-health>
- U.S. Department of Labor. 2025. The Economics Daily. Accessed August 6, 2025. <https://www.bls.gov/news.release/pdf/empst.pdf>
- U.S. Treasury Department. 2010. An Economic Analysis of Infrastructure Investment. Accessed January 28, 2025. https://home.treasury.gov/system/files/226/An_Economic_Analysis_of_Infrastructure_Investment_OCT2010.pdf
- UTC (Washington Utilities and Transportation Commission). 2018. About Energy Rates. Accessed September 16, 2024. <https://www.commerce.wa.gov/wp-content/uploads/2018/05/UTC-About-Energy-Rates-May18.pdf>
- WTN (Washington Tracking Network). 2022. Environmental Health Disparities V 2.0. Accessed August 6, 2025. <https://fortress.wa.gov/doh/wtnibl/WTNIBL/>

6.5 Chapter 4 – Cumulative Impacts

Benton County. 2024. Exhibit List for CUP 2024-004 JUB Engineers For Interstate Concrete and Asphalt Hospital Quarry. Accessed September 19, 2025.

<https://bentoncountywa.municipalone.com/files/documents/CUP2024-004JUBEngineersforInterstatagenda131281406041824-015241PMc.pdf>

BPA (Bonneville Power Administration). 2023. 2023 Transmission Plan Open Access Transmission Tariff Attachment K Planning Process. Accessed August 1, 2025.

<https://www.bpa.gov/-/media/Aep/transmission/attachment-k/2023-bpa-transmission-plan.pdf>

BPA (Bonneville Power Administration). 2024a. Evolving Grid Project Portfolio Update. Accessed August 1, 2025.

<https://www.bpa.gov/-/media/Aep/transmission/evolving-grid/EGP-20-Public-Workshop-17-Oct-2024.pdf>

BPA (Bonneville Power Administration). 2024b. 2024 WECC Progress Report. Accessed August 1, 2025.

https://www.wecc.org/sites/default/files/documents/progress_report/2024/BPA%202024%20APR.pdf

BPA (Bonneville Power Administration). 2024c. Shelton-Fairmount Transmission Line Rebuild and Fiber Optic System Replacement Project Final Environmental Assessment. Accessed August 1, 2025.

https://www.bpa.gov/-/media/Aep/efw/nepa/active/shelton-fairmont-no-1-transmission-line-rebuild-project/Shelton-Fairmount-EA_clean_Final-v2.pdf

BPA (Bonneville Power Administration). 2025. BPA Proposes South of Tri-Cities Reinforcement Project. Accessed August 1, 2025.

<https://www.bpa.gov/-/media/Aep/about/publications/fact-sheets/fs-202505-tri-cities-reinforcement-project.pdf>

Chehalis Basin Strategy. 2024. State Environmental Review of Proposed Chehalis River Basin Flood Damage Reduction Project. Accessed September 19, 2025.

<https://chehalisbasinstrategy.com/sepa-process/>

Chelan County. 2020. Master Planned Resort Overlay and Development Agreement Application. Accessed September 19, 2025.

<https://www.co.chelan.wa.us/files/community-development/documents/Mission%20Ridge/02%20Revised%20Project%20Narrative%20-%2020200116.pdf>

Programmatic Environmental Impact Statement

- City of Cle Elum. Not dated. Bullfrog Flats Development. Accessed September 19, 2025. <https://cleelum.gov/city-services/planning/bullfrog-flats-development/>
- Clark County. 2025. Work Sessions: 1) PacifiCorp Presentation re: Proposed Transmission Line; 2) Fairgrounds Master Plan. Accessed August 1, 2025. <https://clark.wa.gov/councilors/work-sessions-1-pacificorp-presentation-re-proposed-transmission-line-2-fairgrounds>
- Clarke, K. D., T. C. Pratt, R. G. Randall, D. A. Scruton, and K. E. Smokorowski. 2008. Validation of the Flow Management Pathway: Effects of Altered Flow on Fish Habitat and Fishes Downstream from a Hydropower Dam. Canadian Technical Report for Fisheries and Aquatic Science. 2784: vi + 111 pages. Accessed August 6, 2025. https://www.researchgate.net/profile/K-Clarke-2/publication/271763858_Validation_of_the_Flow_Management_Pathway_Effects_of_Altered_Flow_on_Fish_Habitat_and_Fishes_Downstream_from_a_Hydropower_Dam/links/54d0dd050cf298d656693b2a/Validation-of-the-Flow-Management-Pathway-Effects-of-Altered-Flow-on-Fish-Habitat-and-Fishes-Downstream-from-a-Hydropower-Dam.pdf
- Columbia River Ports. Not dated. Lower Columbia River Channel Maintenance Plan. Accessed September 19, 2025. <https://www.lcrports.com/#:~:text=The%20Corps%20and%20five%20lower%20Columbia%20River%20ports%20are%20developing>
- DOC (Washington State Department of Commerce). 2023. Commerce Invests \$2.5 Million to Accelerate Development of Six Rural Industrial Sites. Accessed August 1, 2025. <https://www.commerce.wa.gov/commerce-invests-2-5-million-to-accelerate-development-of-six-rural-industrial-sites/>
- DOC (Washington State Department of Commerce). 2024. Commerce Invests \$2 Million to Accelerate Industrial Site Development Across State. Accessed August 1, 2025. <https://www.commerce.wa.gov/commerce-invests-2-million-to-accelerate-industrial-site-development-across-state/>
- DOE (U.S. Department of Energy). 2024. DOE Announces Cleanup to Clean Energy Project at Hanford Site. Accessed September 19, 2025. <https://www.energy.gov/articles/doe-announces-cleanup-clean-energy-project-hanford-site>

Programmatic Environmental Impact Statement

DOI (U.S. Department of the Interior). 2024. Historic and Ongoing Impacts of Federal Dams on the Columbia River Basin Tribes. Accessed August 1, 2025.

<https://eelp.law.harvard.edu/wp-content/uploads/2024/06/tribal-circumstances-analysis.pdf>

Ecology (Washington State Department of Ecology). 2022a. Goldendale Energy Storage Project. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202206265>

Ecology (Washington State Department of Ecology). 2022b. Hop Hills Solar Energy Project. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202203738>

Ecology (Washington State Department of Ecology). 2022c. Badger Mountain Solar Energy Project. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202201079>

Ecology (Washington State Department of Ecology). 2022d. New Hatton Rezone.

Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202206264>

Ecology (Washington State Department of Ecology). 2022e. Proposed Goldendale Energy Storage Project: Tribal Resources Analysis Report. Olympia, Washington: Washington State Department of Ecology in Coordination with Anchor QEU, LLC and White Buffs Consulting. Accessed June 24, 2025. [https://yakamafish-nsn.gov/sites/default/files/](https://yakamafish-nsn.gov/sites/default/files/Gold_Eng_Proposal_Appendix%20H_Tribal_Res_Analysis_Rpt.pdf)

[Gold_Eng_Proposal_Appendix%20H_Tribal_Res_Analysis_Rpt.pdf](https://yakamafish-nsn.gov/sites/default/files/Gold_Eng_Proposal_Appendix%20H_Tribal_Res_Analysis_Rpt.pdf)

Ecology (Washington State Department of Ecology). 2023a. Accessed September 19, Horse Heaven Wind Farm. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202305223>

Ecology (Washington State Department of Ecology). 2023b. SEPA 2022-34 Walton Rezone. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202300371>

Programmatic Environmental Impact Statement

Ecology (Washington State Department of Ecology). 2023c. Chelatchie Bluff Surface Mine Overlay Annual Review. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202301565>

Ecology (Washington State Department of Ecology). 2024a. Wautoma Solar Energy Project. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202402596>

Ecology (Washington State Department of Ecology). 2024b. Programmatic Environmental Impact Statement on Utility-Scale Onshore Wind Energy Facilities in Washington State. Accessed September 19, 2025. <https://apps.ecology.wa.gov/publications/SummaryPages/2506003.html>

Ecology (Washington State Department of Ecology). 2024c. Programmatic Environmental Impact Statement on Utility-Scale Solar Energy Facilities in Washington State. Accessed September 19, 2025. <https://apps.ecology.wa.gov/publications/SummaryPages/2506002.html>

Ecology (Washington State Department of Ecology). 2024d. Programmatic Environmental Impact Statement on Green Hydrogen Energy Facilities in Washington State. Accessed September 19, 2025. <https://apps.ecology.wa.gov/publications/SummaryPages/2506004.html>

Ecology (Washington State Department of Ecology). 2024e. Rocky Pond Comp Plan Amendment, Master Plan Resort. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202403621>

Ecology (Washington State Department of Ecology). 2024f. Flying A Land Rezone. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202403560>

Ecology (Washington State Department of Ecology). 2024g. US Golden Farm Irrigation Pond. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202403376>

Ecology (Washington State Department of Ecology). 2024h. Swift Creek Poultry Farm. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202403973>

Programmatic Environmental Impact Statement

Ecology (Washington State Department of Ecology). 2024i. Jungquist Farms Depth of Cover. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202404181>

Ecology (Washington State Department of Ecology). 2024j. Kang/Nazarene Church/Lange Rezone. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202403895>

Ecology (Washington State Department of Ecology). 2024k. Gibson Rezone. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202404594>

[Record.aspx?SEPANumber=202404594](https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202404594)

Ecology (Washington State Department of Ecology). 2024l. Fly by Night Timber Sale #106349. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202401378>

Ecology (Washington State Department of Ecology). 2024m. Conk Timber Sale #106237. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202400883>

Ecology (Washington State Department of Ecology). 2024n. Portrait Timber Sale #106261. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202402784>

Ecology (Washington State Department of Ecology). 2024o. Klondike Timber Sale #106084. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202400452>

Ecology (Washington State Department of Ecology). 2024p. Forest Practice Application #3027124. Accessed September 19, 2025.

<https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202402755>

Programmatic Environmental Impact Statement

Ecology (Washington State Department of Ecology). 2024q. Forest Practice Application #3027198. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202403251>

Ecology (Washington State Department of Ecology). 2024r. Syndrome SWT Timber Sale #106448. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202404319>

Ecology (Washington State Department of Ecology). 2024s. Pioneer Aggregates South Parcel Mine Expansion. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202403111>

Ecology (Washington State Department of Ecology). 2024t. Pasco Gravel Pit Mine. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202401487>

Ecology (Washington State Department of Ecology). 2024u. Zone Change Application. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202305547>

Ecology (Washington State Department of Ecology). 2024v. Lewisville Mine Expansion. Accessed September 19, 2025. <https://apps.ecology.wa.gov/separ/Main/SEPA/Record.aspx?SEPANumber=202304424>

Ecology (Washington State Department of Ecology). Not dated (a). Eightmile Dam Rebuild & Restoration. Accessed September 19, 2025. <https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-supply-projects-EW/Icicle-Creek-strategy/Eightmile-Dam>

Ecology (Washington State Department of Ecology). Not dated (b). Wildfire Risks Caused by Climate Change. Accessed February 13, 2025. <https://ecology.wa.gov/air-climate/responding-to-climate-change/wildfire-risks#:~:text=The%20risk%20and%20extent%20of,burn%20hotter%20and%20spread%20fasterhttps://ecology.wa.gov/air-climate/responding-to-climate-change/wildfire-risks>

EFSEC (Washington Energy Facility Site Evaluation Council). 2023. Carriger Solar Project information. Accessed September 19, 2025. <https://efsec.wa.gov/facilities/carriger-solar>

Programmatic Environmental Impact Statement

EFSEC (Washington Energy Facility Site Evaluation Council). 2024. Cascade Renewable Transmission Project. Accessed September 19, 2025.

<https://efsec.wa.gov/facilities/cascade-renewable-transmission#:~:text=Cascade%20Renewable%20Transmission%20Project%20%7C%20EFSEC,Energy%20Facility%20Site%20Evaluation%20Council>

Energy Northwest. Not dated. Small Modular Reactor Project Review Committee Presentation. Accessed August 1, 2025.

<https://des.wa.gov/sites/default/files/2024-10/2024-09-26-EnergyNorthwest-SmModReactor-DB-presentation.pdf>

EPA (U.S. Environmental Protection Agency). 2024. Clean Air Act Permit Modeling Guidance. Last updated November 29, 2024. Accessed February 13, 2025.

<https://www.epa.gov/scram/clean-air-act-permit-modeling-guidance#appw>

FERC (Federal Energy Regulatory Commission). 2022. Declaration of Intention of Badger Mountain Hydro, LLC under DI21-1. Accessed August 1, 2025.

https://elibrary.ferc.gov/eLibrary/docketsheet?docket_number=DI21-1&sub_docket=All&dt_from=1960-01-01&dt_to=2025-08-23&chklegadata=false&pageNm=dsearch&date_range=custom&search_type=docket&date_type=dated_date&sub_docket_q=Allsub&sid=e6f87b85-42f2-4e03-965c-c092f027d3e8

Garfield County. 2024. 2023 Appaloosa Solar. Accessed September 19, 2025.

<https://www.garfieldcountywa.gov/publicworks/page/2023-appaloosa-solar>

Garfield County. 2025. 2025 Cloudwalker. Accessed August 1, 2025.

<https://www.garfieldcountywa.gov/publicworks/page/2025-cloudwalker>

Grant County. Not dated (a). Dry Falls Energy Center, LLC. Applications. Accessed September 19, 2025. <https://www.grantcountywa.gov/1488/Dry-Falls-Energy-Center-LLC>

Grant County. Not dated (b). Apple dale Energy Center, LLC Conditional Use Permit & SEPA Applications. Accessed September 19, 2025.

<https://www.grantcountywa.gov/1492/Appledale-Energy-Center-LLC>

Grant County. Not dated (c). Quincy Valley Solar, LLC. Applications. Accessed September 19, 2025. <https://www.grantcountywa.gov/1491/Quincy-Valley-Solar-LLC>

Programmatic Environmental Impact Statement

- Grant PUD (Grant County Public Utility District). Not dated. Quincy Transmission Expansion Plan. Accessed September 19, 2025. <https://www.grantpud.org/qtep>
- Huppert, Michelle. 2023. Email from Michelle Huppert, Washington Department of Fish and Wildlife, to the Washington Energy Facility Site Evaluation Council.
- IBR Program (Interstate Bridge Replacement Program). 2024. Program Update July 2024. Accessed January 1, 2025. https://www.interstatebridge.org/media/hzfnxdja/general_factsheet_7-262024_remediated.pdf
- NRC (U.S. Nuclear Regulatory Commission). 2025. Energy Northwest. Accessed August 1, 2025. <https://www.nrc.gov/reactors/new-reactors/advanced/who-were-working-with/pre-application-activities/energy-northwest.html>
- Okanogan County. 2023. Copperstone Planned Development. Accessed January 1, 2025. https://okanogancounty.org/government/planning/projects_plans/copperstone_planned_development.php#outer-5544
- OLIS (Oregon Legislative Information System). 2024. Summary of Bonneville Power Administration's Planned Reconductoring Projects. Accessed August 1, 2025. <https://olis.oregonlegislature.gov/liz/2023I1/Downloads/CommitteeMeetingDocument/287855>
- PacifiCorp (Pacific Power). 2021. Saddle Mountains Pumped Storage Project Application for Preliminary Permit. Accessed August 1, 2025. https://www.pacificorp.com/content/dam/pcorp/documents/en/pacificorp/energy/storage/PPA_Saddle_Mountains_P-15245.pdf
- PacifiCorp (Pacific Power). 2024. Lewis River Terrestrial Coordination Committee. Accessed August 1, 2025. https://www.pacificorp.com/content/dam/pcorp/documents/en/pacificorp/energy/hydro/lewis-river/license-implementation/tcc/LR_TCC_05082024_Meeting_Notes.pdf
- Perkins & Will. 2025. How Does High-speed Rail Strengthen Communities? Accessed August 1, 2025. <https://perkinswill.com/insights/cascadia-high-speed-rail/#:~:text=To%20highlight%20just%20one%2C%20consider,hour%20through%20its%20various%20stations>
- Pierce County. Not dated (a). Tehaleh Regulations. Accessed August 1, 2025. <https://www.piercecountywa.gov/4195/Regulations>

Programmatic Environmental Impact Statement

Pierce County. Not dated (b). Exhibit “B” Tehaleh Overall Conceptual Plan and Land Use Classification Map. Accessed August 1, 2025. <https://www.piercecountywa.gov/DocumentCenter/View/102816/Revised-Exhibits-B-and-C-to-the-Phase-2-Project-Master-Plan---Overall-and-Phase-2-Conceptual-Plans-and-Land-Use-Classification-Maps>

Pierce County. Not dated (c). FRED 310 Industrial Development. Accessed September 19, 2025. <https://www.piercecountywa.gov/7639/FRED-310#:~:text=Applications%20to%20develop%20two%20parcels%20consisting%20of%20approximately%20310%20acres>

Port of Walla Walla. Not dated. Port of Walla Walla – Wallula Gap Business Park. Accessed September 19, 2025. <http://wgbp.portwallawalla.com/stuff/General%20Information/001-WGBP%20Overview.pdf>

Pracheil, B. M., S. Carney, T. Mosier, et al. 2022. Designing Hydropower Flows to Balance Energy and Environmental Needs. HydroWIRES Topic A Final Project Report. U.S. Department of Energy. Accessed August 5, 2025. https://www.energy.gov/sites/default/files/2023-07/Designing_Hydropower_Flows.pdf

PSE (Puget Sound Energy). 2024a. 2024 PSE Plan. Accessed August 1, 2025. https://www.oasis.oati.com/woa/docs/PSEI/PSEIdocs/PSE_Plan_2024_Final_1231.pdf

PSE (Puget Sound Energy). 2024b. Underground Electric Cable Replacement Program. Accessed September 19, 2025. <https://www.pse.com/en/pages/pse-projects/underground-electric-cable-replacement-program>

Snohomish County. 2025. Granite Falls Bridge 102 Replacement. Accessed September 19, 2025. <https://snohomishcountywa.gov/608/Mt-Loop-Hwy-Br-102---Granite-Falls-2026>

Sound Transit. 2024. East Link Extension. Accessed September 19, 2025. <https://www.soundtransit.org/system-expansion/east-link-extension#:~:text=Fourteen%20miles%20long%2C%20the%20entire,area%20to%20Redmond%20Technology%20Station>

Programmatic Environmental Impact Statement

- Tri-Cities Airport. 2023. The Port of Pasco and the Tri-Cities Airport Host Open House for AIM Center. Accessed September 19, 2025. <https://www.flytricity.com/press-release/the-port-of-pasco-and-the-tri-cities-airport-host-open-house-for-aim-center>
- USACE (U.S. Army Corps of Engineers). 2024. President's Budget Includes \$500 Million to Support Green River Fish Passage, Water Supply, Flood Risk Management. Accessed August 1, 2025. <https://www.nws.usace.army.mil/Media/News-Releases/Article/3703633/presidents-budget-includes-500-million-to-support-green-river-fish-passage-water/>
- USACE (U.S. Army Corps of Engineers). Not dated. Howard A. Hanson Dam Additional Water Storage Project. Accessed August 1, 2025. <https://www.nws.usace.army.mil/missions/civil-works/programs-and-projects/projects/howard-hanson-dam-additional-water-storage-project/>
- van Oort, H., D. J. Green, M. Hepp, and J. M. Cooper. 2015. Do Fluctuating Water Levels Alter Nest Survivorship in Reservoir Shrubs? The Condor: Ornithological Applications 117(3):376–385. Accessed August 6, 2025. <https://academic.oup.com/condor/article/117/3/376/5153173?login=false#126314105>
- WDFW (Washington Department of Fish and Wildlife). 2015. Washington's State Wildlife Action Plan: 2015 Update. Olympia, Washington: Washington Department of Fish and Wildlife. <https://wdfw.wa.gov/sites/default/files/publications/01742/wdfw01742.pdf>
- WPP (Western PowerPool). 2024. 2030 Extreme Weather Study. Accessed August 1, 2025. https://www.westernpowerpool.org/private-media/documents/WPP_2030_Extreme_Study.pdf
- WSDOT (Washington State Department of Transportation). 2007. Appendix B: Summaries of Usual and Accustomed Areas prepared by the Washington Attorney General's Office. Olympia, Washington: Washington State Department of Transportation. Accessed June 24, 2025. https://wsdot.wa.gov/sites/default/files/2021-10/Env-NSEPA-Trib-AppB_UandASummarybyAG.pdf
- WSDOT (Washington State Department of Transportation). 2025. Cascadia High-Speed Rail. Accessed September 12, 2025. <https://wsdot.wa.gov/construction-planning/search-studies/cascadia-high-speed-rail>

Programmatic Environmental Impact Statement

WSDOT (Washington State Department of Transportation). Not dated (a). I-405/SR 167 Corridor Program. Accessed September 19, 2025.

<https://wsdot.wa.gov/construction-planning/major-projects/i-405sr-167-corridor-program>

WSDOT (Washington State Department of Transportation). Not dated (b). I-405/Renton to Bellevue Widening and Express Toll Lanes Project. Accessed September 19, 2025.

<https://wsdot.wa.gov/construction-planning/search-projects/i-405renton-bellevue-widening-and-express-toll-lanes-project>

WSDOT (Washington State Department of Transportation). Not dated (c). Puget Sound Gateway Program. Accessed September 19, 2025.

<https://wsdot.wa.gov/construction-planning/major-projects/puget-sound-gateway-program>

WSDOT (Washington State Department of Transportation). Not dated (d). North Spokane Corridor. Accessed September 19, 2025.

<https://wsdot.wa.gov/construction-planning/major-projects/north-spokane-corridor>

WSDOT (Washington State Department of Transportation). Not dated (e). SR 520 Portage Bay Bridge and Roanoke Lid Project. Accessed September 19, 2025.

<https://wsdot.wa.gov/construction-planning/search-projects/sr-520-portage-bay-and-roanoke-lid-project>

WSDOT (Washington State Department of Transportation). Not dated (f). SR 9 – Marsh Road to 2nd Street Vicinity – Widening & Bridge Painting. Accessed September 19, 2025.

<https://wsdot.wa.gov/construction-planning/search-projects/sr-9-marsh-road-2nd-street-vicinity-widening-bridge-painting>

WSDOT (Washington State Department of Transportation). Not dated (g). I-5 East Fork Lewis River NB Bridge – Replacement. Accessed September 19, 2025.

<https://wsdot.wa.gov/construction-planning/search-projects/i-5-east-fork-lewis-river-nb-bridge-replacement>

WSDOT (Washington State Department of Transportation). Not dated (h). US 395 – NSC Spokane River Crossing. Accessed August 1, 2025.

<https://wsdot.wa.gov/construction-planning/search-projects/us-395-nsc-spokane-river-crossing>

Programmatic Environmental Impact Statement

WSDOT (Washington State Department of Transportation). Not dated (i). SR 155 Spur/Okanogan River Bridge Replacement. Accessed September 19, 2025. <https://wsdot.wa.gov/construction-planning/search-projects/sr-155-spur-okanogan-river-bridge-replacement>

WSDOT (Washington State Department of Transportation). Not dated (j). US 101 – SR 109 Grays Harbor, Jefferson and Clallam Counties – Remove Fish Barriers. Accessed September 19, 2025. <https://wsdot.wa.gov/construction-planning/search-projects/us-101-sr-109-grays-harbor-jefferson-and-clallam-counties-remove-fish-barriers>

WSDOT (Washington State Department of Transportation). Not dated (k). I-90 – Lewis, W. Village Park, Schneider Creeks – Fish Passage Projects. Accessed September 19, 2025. <https://wsdot.wa.gov/construction-planning/search-projects/i-90-lewis-w-village-park-schneider-creeks-fish-passage-projects>

WSDOT (Washington State Department of Transportation). Not dated (l). SR 527 – Penny Creek – Fish Passage. Accessed September 19, 2025. <https://wsdot.wa.gov/construction-planning/search-projects/sr-527-penny-creek-fish-passage>

WSDOT (Washington State Department of Transportation). Not dated (m). SR 3, SR 16 and SR 166, Gorst Vicinity – Remove Fish Barriers. Accessed September 19, 2025. <https://wsdot.wa.gov/construction-planning/search-projects/sr-3-sr-16-and-sr-166-gorst-vicinity-remove-fish-barriers>

WSDOT (Washington State Department of Transportation). Not dated (n). I-90 – Sunset Creek – Fish Passage. Accessed September 19, 2025. <https://wsdot.wa.gov/construction-planning/search-projects/i-90-sunset-creek-fish-passage>

WSDOT (Washington State Department of Transportation). Not dated (o). US 12 – SR 8 – Grays Harbor County Fish Passage Barriers – Remove Fish Barriers. Accessed September 19, 2025. <https://wsdot.wa.gov/construction-planning/search-projects/us-12-sr-8-grays-harbor-county-fish-passage-barriers-remove-fish-barriers>

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