

9.1 Proposed Action and Alternatives

Federal Highway Administration (FHWA). 2009. Manual on Uniform Traffic Control Devices. 2009 Edition including Revisions 1 and 2, May 2012. Institute of Transportation Engineers: Washington D.C.

Seven County Infrastructure Coalition (Coalition). 2019a. Uinta Basin Railway: Evaluation of Potential Route Alternatives. March 13, 2019. Revised May 31, and September 27, 2019.

Seven County Infrastructure Coalition (Coalition). 2019b. Coalition's Response to Information Request #4.

Seven County Infrastructure Coalition (Coalition). 2020. Uinta Basin Railway: Supplemental Route Selection Information. January 31, 2020.

Utah Department of Transportation (UDOT). 2014a. Alternatives Feasibility Report.

Utah Department of Transportation (UDOT). 2014b. Alternatives-Development and Screening Methodology Report.

Utah Department of Transportation (UDOT). 2015. Uinta Basin Railroad Feasibility Study Summary Report.

9.2 Affected Environment and Environmental Consequences

9.2.1 Vehicle Safety and Delay

Christofferson, Barbra. Traffic Records Manager. Utah Department of Public Safety, Highway Safety Office. July 6, 2020—Email to David Bauer, ICF, regarding 2018 crash rates per county, "Crash Rates per County - 2018 Data from uDPS 7-7-2020 corrected label (1).xlsx".

Denver Regional Council of Governments (DRCOG). 2020. Regional Traffic Count Maps. Available: <https://gis.drcog.org/trafficcounts/>. Accessed: May 18, 2020.

Duchesne County. 2017. 2017 Duchesne County Transportation Master Plan. Final. Duchesne County, UT. Prepared by Jones & DeMille Engineering.

Federal Highway Administration (FHWA). 2009. Manual on Uniform Traffic Control Devices. Available: <https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/mutcd2009r1r2edition.pdf>. Accessed: June 30, 2020.

- Federal Highway Administration (FHWA). 2013. Highway Functional Classification Concepts, Criteria, and Procedures. Available: <https://dot.sd.gov/media/documents/HwyFunctionalClassification.pdf>. Accessed: June 3, 2020.
- Federal Highway Administration (FHWA). 2018. Policy and Governmental Affairs – Office of Highway Policy Information – Simplified Highway Capacity Calculation Method for the Highway Performance Monitoring System. Last updated: March 20, 2018. Available: <https://www.fhwa.dot.gov/policyinformation/pubs/pl18003/chap02.cfm>. Accessed: April 6, 2020.
- Federal Railroad Administration (FRA). 1987. Rail-Highway Crossing Resource Allocation Procedure User's Guide. Third Edition. Available: <https://www.fra.dot.gov/eLib/Details/L02900>. Accessed: March 21, 2020.
- Federal Railroad Administration (FRA). 2020a. GradeDec.Net - System for Highway-Rail Grade Crossing Investment Analysis. Available: <https://gradedec.fra.dot.gov/default.aspx>. Accessed: May 17, 2020.
- Federal Railroad Administration (FRA). 2020b. Office of Safety Analysis Grade Crossing Inventory and Accident Reports Database. Downline rail crossings spreadsheet. Available: <https://safetydata.fra.dot.gov/officeofsafety/publicsite/crossing/crossing.aspx>. Accessed: May 17, 2020.
- National Highway Traffic Safety Administration (NHTSA). 2019. Traffic Safety Facts 2017. Available: <https://crashstats.nhtsa.dot.gov/#/DocumentTypeList/12>. Accessed: May 29, 2020.
- State of Colorado. 2014. Colorado Information Marketplace. Road Traffic Counts in Colorado 2014. Available: <https://data.colorado.gov/Transportation/Road-Traffic-Counts-in-Colorado-2014/dx5q-y5je>. Accessed: May 21, 2020.
- U.S. Census Bureau. 2017. Total Population. American Community Survey 5-Year Estimates (2013 to 2017), Table B01002. TIGER/Line Shapefile, 2017, state, Utah, Current Block Group State-based. Available: http://www2.census.gov/geo/tiger/TIGER2017/BG/tl_2017_49_bg.zip. Accessed: December 31, 2019.
- ~~Utah Department of Transportation (UDOT). 2011. Utah Manual on Uniform Traffic Control Devices. Available: <https://www.udot.utah.gov/connect/about-us/operations/traffic-safety/>. Accessed: July 2, 2020.~~
- Utah Department of Transportation (UDOT). 2020a. UDOT AADT Traffic Map. Available: <https://www.udot.utah.gov/main/f?p=100:pg:0::::V,T;528>. Accessed: May 17, 2020.
- Utah Department of Transportation (UDOT). 2020b. Statewide Rural Long-Range Transportation Plan 2019–2050. Final. Salt Lake City, UT.
- Utah Department of Transportation (UDOT). 2020c. Utah Vehicle Collisions, 2016–2019. Last revised: 2019-12-31. Available: <https://crashmapping.utah.gov/>. Accessed: April 6, 2020.
- Utah Department of Transportation (UDOT). 2020d. Roadway Design Manual. Available: <https://drive.google.com/file/d/1tz6gCuriPX0mfr6FeTZ6k7AmbNu3likh/view>. Accessed: April 6, 2020.

U.S. Energy Information Administration. 2020. Annual Energy Outlook 2020. Available: <https://www.eia.gov/outlooks/aeo/>. Accessed: May 17, 2020.

9.2.2 Rail Operations Safety

Federal Railroad Administration (FRA). 2020. Data Analyses, January 2016 through December 2019. Available: <https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/query/TrainAccidentsFYCYWithRates.aspx>. Accessed: June 19, 2020.

9.2.3 Water Resources

[Boufadel, M., B. Chen, J. Foght, P. Hodson, K. Lee, S. Swanson, and A. Venosa. 2015. The Royal Society of Canada Expert Panel: The Behaviour and Environmental Impacts of Crude Oil Released into Aqueous Environments. Royal Society of Canada, Ottawa, ON. ISBN: 978-1-928140-02-3.](#)

Central Utah Water Conservancy District (CUWCD). 2015. Quick Action Prevented A Disaster: Oil Spill in Provo Canyon. Press Release. Central Utah Water Conservation District, Orem Utah. November 30, 2015. Available: https://www.slideshare.net/ConservationGardenPark/provo-canyon-oil-spill?from_action=save /. Accessed April 3, 2020.

Central Utah Water Conservancy District (CUWCD). 2016. Always on Alert. By C. Finlinson. Central Utah Water Conservation District. June 27, 2016. Available: <https://cuwcd.social5.net/post/always-on-alert/>. Accessed: April 3, 2020.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. Office of Biological Services, U.S. Department of the Interior, FWS/OBS-79/31.

Federal Emergency Management Agency (FEMA). 1988. Flood Insurance Study, City of Duchesne, Utah.

Federal Emergency Management Agency (FEMA). 2020. National Flood Hazard Layer (NFHL), NFHL GIS inventory table. Carbon County (49007C-NFHL; 8/15/2019), Uinta County (49047C-NFHL; 12/15/2015), Sanpete County (49039C-NFHL; 05/02/2012), and Wasatch County (49051C-NFHL; 03/15/2012). Available: <https://www.floodmaps.fema.gov/NFHL/status.shtml>. Accessed: February 26, 2012.

Flatley, A., I.D. Rutherford, and R. Hardie. 2018. River Channel Relocation: Problems and Prospects. Water 10(9).

[Igwe, J.C. and P.O. Ukaogo. 2015. Environmental Effects of Polycyclic Aromatic Hydrocarbons. *Journal of Natural Sciences Research* 5\(7\).](#)

Natural Resources Conservation Service (NRCS). 2019a. Gridded Soil Survey Geographic (gSSURGO) by State.

Natural Resources Conservation Service (NRCS). 2019b. National Soil Survey Handbook. November. Available: https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/ref/?cid=nrcs142p2_054242. Accessed: February 26, 2020.

National Weather Service. No date. Flood Related Hazards. Available: <https://www.weather.gov/safety/flood-hazards>. Accessed: February 28, 2020.

- Orvis News. 2015. Environmental Catastrophe Averted on Utah's Provo River. By Spencer Durrant and Brian Wimmer, Orvis Staff. December 7, 2015. Available: <https://news.orvis.com/fly-fishing/environmental-catastrophe-averted-on-utahs-provo-river>. Accessed: April 3, 2020.
- Seven County Infrastructure Coalition (Coalition). 2020a. Waters of the United States Baseline Environment Technical Memorandum, Uinta Basin Railway. Prepared by HDR, Inc. March. 50 pps.
- Seven County Infrastructure Coalition (Coalition). 2020b. Bridge and Culvert Drainage Crossing Summary. Prepared by HDR, Inc.
- Teclé A., Neary D. 2015. Water Quality Impacts of Forest Fires. *Journal of Pollution Effluent and Control* 3:140.
- U.S. Army Corps of Engineers (Corps). 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Waterways Experiment Stations, Vicksburg, Mississippi. Available: <https://www.nae.usace.army.mil/Portals/74/docs/regulatory/JurisdictionalLimits/wlman87.pdf>. Accessed: February 26, 2020.
- U.S. Army Corps of Engineers (Corps). 2008. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). ERDC/EL TR-08-28. Vicksburg, Mississippi: U.S. Army Engineer Research and Development Center. Available: <https://usace.contentdm.oclc.org/utis/getfile/collection/p266001coll1/id/7627>. Accessed: February 26, 2020.
- U.S. Army Corps of Engineers (Corps). 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains (Version 2.0). ERDC/EL TR-10-3. Vicksburg, Mississippi: U.S. Army Engineer Research and Development Center. Available: <https://usace.contentdm.oclc.org/utis/getfile/collection/p266001coll1/id/7646>. Accessed: February 26, 2020.
- U.S. Department of Health and Human Services. 1995. Toxicological Profile for Polycyclic Aromatic Hydrocarbons. Agency for Toxic Substances and Disease Registry. August.
- U. S. Environmental Protection Agency (USEPA). 1997. Urbanization and Streams: Studies of Hydrologic Impacts. Office of Water, EPA 841-R-97-009. Available: <https://nepis.epa.gov/Exe/ZyPDF.cgi/20004UGL.PDF?Dockey=20004UGL.PDF>.
- U.S. Environmental Protection Agency (USEPA). 2007. National Management Measures to Control Nonpoint Source Pollution from Hydromodification. EPA 841-B-07-002. Office of Water. July. Washington, D.C. Available: https://www.epa.gov/sites/production/files/2015-09/documents/hydromod_all_web.pdf. Accessed: March 30, 2020.
- [U.S. Environmental Protection Agency \(USEPA\). 2008. The Ecological and Hydrological Significance of Ephemeral and Intermittent Streams in the Arid and Semi-arid American Southwest. USEPA and USDA/ARS Southwest Watershed Research Center. EPA/600/R-08/134, ARS/233046, 116 pp.](#)
- U.S. Environmental Protection Agency (USEPA). 2018a. USEPA Approval of Utah's 2016 Clean Water Act Section 303(d) Waterbody List. Available: <https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2018-005746.pdf>. Accessed: February 26, 2020.

- U.S. Environmental Protection Agency (USEPA). 2018b. What is a Sole Source Aquifer? Available: https://www.epa.gov/dwssa/overview-drinking-water-sole-source-aquifer-program#What_Is_SSA. Accessed: February 26, 2020.
- U.S. Fish and Wildlife Service (USFWS). 2019. National Wetlands Inventory (NWI): Download Seamless Wetlands Data by State. Available: <https://www.fws.gov/wetlands/Data/State-Downloads.html>. Accessed: February 28, 2020.
- U.S. Geological Survey (USGS). 1946. Cloudburst Floods in Utah: 1850-1938. Department of Interior. Water-Supply Paper 994. Washington. Available: <https://pubs.usgs.gov/wsp/0994/report.pdf>. Accessed: February 26, 2020.
- U.S. Geological Survey (USGS). 1962. Floods in Utah, Magnitude and Frequency. Geological Survey Circular 457. Washington. Available: <https://pubs.usgs.gov/circ/1962/0457/report.pdf>. Accessed: May 18, 2020.
- U.S. Geological Survey (USGS). 1995. Ground Water Atlas of the United States: Segment 2, Arizona, Colorado, New Mexico, Utah. Hydrological Investigations Atlas 730-C. Reston, Virginia. Available: <https://pubs.usgs.gov/ha/730c/report.pdf>. Accessed: February 26, 2020.
- [U.S. Geological Survey \(USGS\). 2015. Frac sand in the United States – A geological and industry overview: U.S. Geological Survey Open-File Report 2015-1107, 78 p. Available: https://pubs.usgs.gov/of/2015/1107/pdf/ofr20151107.pdf. Accessed: May 5, 2021.](https://pubs.usgs.gov/of/2015/1107/pdf/ofr20151107.pdf)
- U.S. Geological Survey (USGS). 2019. National Hydrography Dataset Plus High Resolution (NHDPlus HR). Available: <https://www.usgs.gov/core-science-systems/ngp/national-hydrography/nhdplus-high-resolution>. Accessed: February 26, 2020.
- Utah Department of Environmental Quality (UDEQ). 2018. Oil and Water Don't Mix: The Price River Crude Oil Spill, by Kevin Okleberry. Utah Department of Environmental Quality. Last updated: August 6, 2018.
- Utah Department of Environmental Quality (UDEQ). 2019a. Classes: Utah Ground Water Quality Protection Program. Available: <https://deq.utah.gov/water-quality/classes-utah-ground-water-quality-protection-program>. Accessed: February 26, 2020.
- Utah Department of Environmental Quality (UDEQ). 2019b. Aquifer Classification: Utah Ground Water Quality Protection Program. Available: <https://deq.utah.gov/water-quality/aquifer-classification-utah-ground-water-quality-protection-program>. Accessed: February 26, 2020.
- Utah Department of Environmental Quality (UDEQ). 2019c. Price River Oil Spill. Utah Department of Environmental Quality. Last Updated September 9, 2019. Available: <https://deq.utah.gov/communication/news/price-river-oil-spill>. Accessed: April 3, 2020.
- Utah Department of Environmental Quality (UDEQ). 2020. Water System Facilities spatial data. June 9, 2020. Available through permission by UDEQ. Accessed: July 22, 2020.
- Utah Division of Emergency Management. 2019. Utah State Hazard Mitigation Plan. Available: <https://dem.utah.gov/hazards-and-mitigation/>. Accessed: February 26, 2020.

- Utah Division of Water Quality (UDWQ). 2016. Final 2016 Integrated Report. Salt Lake City, Utah. Utah Department of Environmental Quality (Version 2.1). Available: <https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf>. Accessed: February 26, 2020.
- Utah Division of Water Resources (UDWR). 1999. Utah State Water Plan: Uinta Basin. State of Utah Natural Resources. December.
- Utah Division of Water Resources (UDWR). 2016. Utah State Water Plan: Uinta Basin, Planning for the Future. State of Utah Natural Resources. November. Available: <https://water.utah.gov/wp-content/uploads/2019/03/UintahBasin2016.pdf>. Accessed: February 26, 2020.
- Utah Division of Water Rights (UDWRi). 2020. Utah Points of Diversion. January. Available: <https://opendata.gis.utah.gov/datasets/utahDNR::utah-points-of-diversion>. Accessed: February 26, 2020.
- Utah Floodplain and Stormwater Management Association. No date. Floods: What you should know when living in Utah. Available: http://co.uintah.ut.us/document_center/CommunityDevelopment/Flood_Brochure.pdf. Accessed: February 26, 2020.
- Vermont Department of Environmental Conservation. 2011. Introduction to Dynamic Equilibrium. Available: https://dec.vermont.gov/sites/dec/files/wsm/rivers/docs/rv_introduction_to_dynamic_equilibrium.pdf. Accessed: March 31, 2020.
- Wilkomirski, B., B. Sudnik-Wojcikowska, H. Galera, M. Wierzbicka, and M. Malawska. 2011. Railway Transportation as a Serious Source of Organic and Inorganic Pollution. *Water, Air, & Soil Pollution* 218(1-4):33.

9.2.4 Biological Resources

- Agency for Toxic Substances and Disease Registry. 1995. Toxicological Profile for Polycyclic Aromatic Hydrocarbons (PAHs). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Services, Centers for Disease Control.
- Alabama Cooperative Extension System. 2013. A Guide to Preventing Soil Compaction during Construction. Document ANR – 1455. Alabama A&M and Auburn Universities. 24 p. Available: <https://ssl.acesag.auburn.edu/pubs/docs/A/ANR-1455/ANR-1455-archive.pdf>. Accessed: April 2, 2020.
- Aldridge, C.L. 2005. Identifying Habitats for Persistence of Greater Sage-Grouse (*Centrocercus urophasianus*) in Alberta, Canada. Doctoral dissertation. University of Alberta, Edmonton, Alberta. Available: https://www.researchgate.net/publication/35388528_Identifying_habitats_for_persistence_of_greater_sage-grouse_Centrocercus_urophasianus_in_Alberta_Canada. Accessed: April 3, 2020.
- Aldridge, C.L. and M.S. Boyce. 2007. Linking Occurrence and Fitness to Persistence: Habitat-Based Approach for Endangered Greater Sage-Grouse. *Ecological Applications* 17(2):508–526.

- Barrientos, R. and L. Borda-de-Agua. 2017. Railways as Barriers for Wildlife: Current Knowledge. In: Boarda-de-Agua L., Barrientos R., Pereira H. (eds) Railway Ecology. Pp 43-64. Available: https://link.springer.com/chapter/10.1007/978-3-319-57496-7_4#citeas. Accessed: July 23, 2020.
- Blickley, J.L., B. Blackwood, and G.L. Patricelli. 2012. Experimental Evidence for the Effects of Chronic Anthropogenic Noise on Abundance of Greater Sage-Grouse at Leks. *Conservation Biology* 26(3):461–471.
- Brunson, Ron. Fisheries biologist. U.S. Forest Service. March 4, 2020—Email.
- Bureau of Land Management (BLM). 2015a. Utah-Greater Sage-Grouse Approved Resource Management Plan Amendment. Available: https://eplanning.blm.gov/epl-front-office/projects/lup/68351/87600/104856/Utah_ARMPA.pdf. Accessed: May 15, 2020.
- Bureau of Land Management (BLM). 2015b. UT ARMPA Map 1.2 PHMA GHMA GIS data. Published September. Available: <https://navigator.blm.gov/data?id=99aa4dc06030a8de>. Accessed: May 15, 2020.
- Bureau of Land Management (BLM). 2019. Utah ARMPA Map 1.2 PHMA GHMA GIS data. Published April. Available: <https://data.doi.gov/dataset/ut-armpa-map-1-2-sg-phma-ghma-b90e6/resource/398b5f79-9cc3-43fc-ad4a-4f94b40415a1>. Accessed: December 9, 2019.
- California Department of Forestry and Fire Protection, Bureau of Land Management, Union Pacific, Burlington Northern Santa Fe, and U.S. Forest Service. 1999. Railroad Fire Prevention Field Guide. Available: <https://osfm.fire.ca.gov/media/8480/fppguidepdf100.pdf>. Accessed: April 3, 2020.
- Central Utah Water Conservancy District (CUWCD). 2015. Quick Action Prevented A Disaster: Oil Spill in Provo Canyon. Press Release. Central Utah Water Conservation District, Orem Utah. November 30, 2015. Available: https://www.slideshare.net/ConservationGardenPark/provo-canyon-oil-spill?from_action=save. Accessed: April 3, 2020.
- Central Utah Water Conservancy District (CUWCD). 2016. Always on Alert. By C. Finlinson. Central Utah Water Conservation District. June 27, 2016. Available: <https://cuwcd.social5.net/post/always-on-alert/>. Accessed: April 3, 2020.
- Cheng, S. 2003. Effects of Heavy Metals on Plants and Resistance Mechanisms. *Environmental Science and Pollution Research* 10(4):256–264.
- Christensen, Robert and Kristy Groves. Forest Service. July 15, 29, 2020—Email and Comments on Uinta Basin Railway preliminary Draft EIS Biological Resources section.
- Colorado River Cutthroat Trout Conservation Team. 2006. Conservation Agreement for Colorado River Cutthroat Trout (*Oncorhynchus clarkia pleuriticus*) in the States of Colorado, Utah, and Wyoming. Colorado Division of Wildlife, Fort Collins. 10p. Available: https://cpw.state.co.us/Documents/Research/Aquatic/pdf/CRCT_Conservation_Agreement_Final_Dec06.pdf. Accessed: October 6, 2020.
- Cornell Lab of Ornithology. Undated. eBird.org. Available: <https://ebird.org>. Accessed: November 16, 2019.

- Daniel, E., and B.J. Willard. 1978. The Interaction between Some Human Obstacles and Birds. *Environmental Management* 2:331–340. July.
- Doherty, K.E., D.E. Naugle, B.L. Walker, and J.M. Graham. 2008. Greater Sage-Grouse Winter Habitat Selection and Energy Development. *Journal of Wildlife Management* 72(1):187–195.
- Federal Railroad Administration (FRA). 2005. High-Speed Ground Transportation Noise and Vibration Impact Assessment. Final Report. HMMH Report No. 293630-4. October. U.S. Department of Transportation. Washington, DC. Prepared by Harris Miller & Hanson, Inc.
- [Flatley, A., I.D. Rutherford, and R. Hardie. 2018. River Channel Relocation: Problems and Prospects. *Water* 10\(9\).](#)
- Ghosh, S., K-H Kim, and R. Bhattacharya. 2010. A Survey on House Sparrow Population Decline at Bandel, West Bengal, India. *Jour. Korean Earth Science Society* 31(5):448–453.
- Hastings, M.C., and A.N. Popper. 2005. Effects of Sound on Fish. White Paper for the California Department of Transportation. 82pp.
- Holloran, M.J. 2005. Greater Sage-Grouse (*Centrocercus urophasianus*) Population Response to Natural Gas Field Development in Western Wyoming. Doctoral dissertation. University of Wyoming, Laramie. Available: <http://eqc.state.wy.us/orders/Land Closed Cases/11-4803 Lost Creek ISR, LLC/Exhibit 12.pdf>. Accessed: April 3, 2020.
- [Huser, Daniel. 2009. Local Effects of Culverts on Habitat Features and Fish Assemblages in Blue Ridge Streams. Masters Theses and Doctoral Dissertations.](#)
- Liu, H., D. Weisman, Y.B. Ye, B. Cui, Y.H. Huang, A. Colon-Carmona, and Z.H. Wang. 2009. An oxidative stress response to polycyclic aromatic hydrocarbon exposure is rapid and complex in *Arabidopsis thaliana*. *Plant Science* 176(3):375–382.
- Lyon, A.G., and S.H. Anderson. 2003. Potential gas development impacts on sage-grouse nest initiation and movement. *Wildlife Society Bulletin* 31(2):486–491.
- Melillo, J.M., T.C. Richmond, and G.W. Yohe, Eds. 2014. *Climate Change Impacts in the United States: The Third National Climate Assessment*. U.S. Global Change Research Program, 841 pp. doi:10.7930/J0Z31WJ2. Available: http://s3.amazonaws.com/nca2014/high/NCA3_Climate_Change_Impacts_in_the_United%20States_HighRes.pdf. Accessed: February 26, 2020.
- [Meyer, Susan E. 1992. Germination and Establishment Ecology of Big Sagebrush: Implications for Community Restoration. Paper presented at the Symposium on Management, Ecology, and Restoration of Intermountain Annual Rangelands, Boise, ID, May 18-21, 1992. Available: \[https://www.fs.fed.us/rm/pubs_int/int_gtr313/int_gtr313_244_251.pdf\]\(https://www.fs.fed.us/rm/pubs_int/int_gtr313/int_gtr313_244_251.pdf\). Accessed: April 6, 2021.](#)
- Mundahl, N.D., A.G. Bilyeu, and L. Maas. 2013. Bald eagle nesting habitats in the Upper Mississippi River National Wildlife and Fish Refuge. *Journal of Fish and Wildlife Management* 4:362–376.
- [National Wildfire Coordinating Group. 2020. East Fork Fire. Available: <https://inciweb.nwcg.gov/incident/7052/>. Accessed: March 30, 2021.](#)

- NatureServe. Undated. NatureServe Explorer. Available: <http://explorer.natureserve.org>. Accessed: November 22, 2019.
- Orvis News. 2015. Environmental Catastrophe Averted on Utah's Provo River. By Spencer Durrant and Brian Wimmer, Orvis Staff. December 7, 2015. Available: <https://news.orvis.com/fly-fishing/environmental-catastrophe-averted-on-utahs-provo-river>. Accessed April 3, 2020.
- Peterson, A. 1986. Habitat Suitability Index Models: Bald Eagle (breeding season). Washington, D.C. National Ecology Center, U.S. Department of the Interior. U.S. Fish & Wildlife Service Biological Report 82(10.126). October. Available: https://pubs.er.usgs.gov/publication/fwsobs82_10_126. Accessed: April 3, 2020.
- Poff, B., K.A. Koestner, D.G. Neary, and D. Merritt. 2012. Threats to western United States riparian ecosystems: A bibliography. Gen. Tech. Rep. RMRS-GTR-269. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 78 p.
- Popper, A.N., M.E. Smith, P.A. Cott, B.W. Hanna, A.O. MacGillivray, M.E. Austin, and D.A. Mann. 2005. Effects of exposure to seismic airgun use on hearing of three fish species. *Journal of the Acoustical Society of America* 117:3958–3971.
- Rytwinski, T., and L. Fahrig. 2012. Do species life history traits explain population responses to roads? A meta-analysis. *Biological Conservation* 147:87–98.
- Schulte-Werning, Thompson, D., Gautier, P., Hanson, C., Hemsworth, B., Nelson, J., Maeda, T., de Vos, P. 2007. Noise and Vibration Mitigation for Rail Transportation Systems. Proceedings of the 9th International Workshop on Railway Noise, Munich, Germany. 4-8 September.
- Seven County Infrastructure Coalition (Coalition). 2020a. Biological Resources Baseline Environment Technical Memorandum. April 3.
- [Seven County Infrastructure Coalition \(Coalition\). 2020b. Draft Barneby Ridge-Cress Habitat Evaluation Memorandum. July 30.](#)
- [Seven County Infrastructure Coalition \(Coalition\). 2020c. Draft Ute Ladies'-Tresses Habitat Evaluation Memorandum. July 24.](#)
- [Seven County Infrastructure Coalition \(Coalition\). 2020d. Draft Mexican Spotted Owl Habitat Evaluation Memorandum. July 31.](#)
- Simonich, S.L., and R.A. Hites. 1994. Vegetation-atmospheric partitioning of polycyclic aromatic hydrocarbons. *Environmental Science and Technology* 28(5):939–943.
- [State of Utah. 2019. Utah Division of Wildlife Resources \(UDWR\). 2019c. Utah Conservation Plan for Greater Sage-Grouse. January. Available: \[https://wildlife.utah.gov/sage-grouse/Utah_Greater_Sage-grouse_Plan.pdf\]\(https://wildlife.utah.gov/sage-grouse/Utah_Greater_Sage-grouse_Plan.pdf\). Accessed: February 25, 2020.](#)
- Swan, B.M. 2012. Impacts to Fish from Pile Driving Generated Sound. Maine Department of Marine Resources. Boothbay, Maine. June.
- URS. 2003. Final Programmatic Environmental Assessment. Rehabilitation/Replacement of Diversion Dams Project. Duchesne and Strawberry Rivers, Utah. Prepared for: Utah Reclamation Mitigation and Conservation Commission. April.

[U.S. Environmental Protection Agency \(USEPA\). 2008. The Ecological and Hydrological Significance of Ephemeral and Intermittent Streams in the Arid and Semi-arid American Southwest. USEPA and USDA/ARS Southwest Watershed Research Center. EPA/600/R-08/134, ARS/233046, 116 pp.](#)

U.S. Fish and Wildlife Service (USFWS). 2003. Flow Recommendations for the Duchesne River with a Synopsis of Information Regarding Endangered Fishes. September. Draft Final Report Submitted to the Upper Colorado River Basin Endangered Fishes Recovery Implementation Program. Project No. 94-1.

U.S. Fish and Wildlife Service (USFWS). 2007. National Bald Eagle Management Guidelines. May. Available:
<https://www.fws.gov/southdakotafieldoffice/NationalBaldEagleManagementGuidelines.pdf>. Accessed: April 2, 2020.

[U.S. Fish and Wildlife Service \(USFWS\). 2011. Sclerocactus Core 1 and Core 2 conservation area GIS data.](#)

U.S. Fish and Wildlife Service (USFWS). 2015. Birds of Conservation Concern. Last updated: September 25, 2015. Available: <https://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>. Accessed: May 21, 2020.

U.S. Fish and Wildlife Service (USFWS). 2017. Species Status Assessment for the Canada lynx (*Lynx canadensis*) Contiguous United States Population Segment. Version 1.0, October 2017. Lakewood, Colorado. Available: https://www.fws.gov/mountain-prairie/es/species/mammals/lynx/SSA2018/01112018_SSA_Report_CanadaLynx.pdf. Accessed: August 7, 2020.

U.S. Fish and Wildlife Service (USFWS). 2018. Recommended Best Practices for Communication Tower Design, Siting, Construction, Operation, Maintenance, and Decommissioning. Migratory Bird Program. Falls Church, Virginia. April.

[U.S. Fish and Wildlife Service \(USFWS\). 2019. Pariette Cactus \(*Sclerocactus brevispinus*\) and Uinta Basin Hookless Cactus \(*Sclerocactus wetlandicus*\) Suitable habitat GIS data.](#)

U.S. Fish and Wildlife Service (USFWS). 2020a. Official Species List, List of National Wildlife Refuges and Fish Hatcheries, and Migratory Birds for the Uinta Basin Railway Project – Indian Canyon Alternative. Utah Ecological Services Field Office. February 12. Provided in Appendix A of Coalition’s Biological Resources Baseline Environment Technical Memorandum. February 12.

U.S. Fish and Wildlife Service (USFWS). 2020b. Official Species List, List of National Wildlife Refuges and Fish Hatcheries, and Migratory Birds for the Uinta Basin Railway Project – Wells Draw Alternative. Utah Ecological Services Field Office. February 12. Provided in Appendix A of Coalition’s Biological Resources Baseline Environment Technical Memorandum.

U.S. Fish and Wildlife Service (USFWS). 2020c. Official Species List, List of National Wildlife Refuges and Fish Hatcheries, and Migratory Birds for the Uinta Basin Railway Project – Whitmore Park Alternative. Utah Ecological Services Field Office. February 12. Provided in Appendix A of Coalition’s Biological Resources Baseline Environment Technical Memorandum. February 12.

- U.S. Forest Service (Forest Service). 1986. Land Resource Management Plan for the Ashley National Forest. Available:
<https://www.fs.usda.gov/detail/ashley/landmanagement/planning/?cid=stelprdb5277265>.
Accessed: February 12, 2020.
- U.S. Forest Service (Forest Service). 1991. Forest Service Manual Title 2600 – Wildlife, Fish, and Sensitive Plan Habitat Management. Amendment No. 2600-91-5. Effective July 19.
- U.S. Forest Service (Forest Service). 1997. Strawberry Valley Assessment, A Cooperative Project Between the Mitigation Commission & the U.S. Forest Service. Available:
https://digitalcommons.usu.edu/govdocs/61/?utm_source=digitalcommons.usu.edu%2Fgovdocs%2F61&utm_medium=PDF&utm_campaign=PDFCoverPages. Accessed: March 4, 2020.
- U.S. Forest Service (Forest Service). 2000. Screening Methodology for Calculating ANC Change to High Elevation Lakes. Rocky Mountain Region. December. Available:
http://www.fs.fed.us/air/documents/anc_scre.pdf. Accessed: April 3, 2020.
- [U.S. Forest Service \(Forest Service\). 2017a. Spatial wildfire occurrence data for the United States, 1992-2015 \[FPA FOD 20170508\]. 4th Edition. Fort Collins, CO: Forest Service Research Data Archive. https://doi.org/10.2737/RDS-2013-0009.4](https://doi.org/10.2737/RDS-2013-0009.4)
- U.S. Forest Service (Forest Service). 2017b. Ashley National Forest Assessment – Tribal Uses Report. Public Draft. Available:
https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd564553.pdf. Accessed: April 17, 2020.
- [U.S. Forest Service \(Forest Service\). 2020a. Wildfire Hazard Potential for the United States, version 2020 \(270m\). 3rd Edition. Fort Collins, CO: Forest Service Research Data Archive. Available: https://www.firelab.org/project/wildfire-hazard-potential. Accessed: April 2, 2021.](https://www.firelab.org/project/wildfire-hazard-potential)
- [U.S. Forest Service \(Forest Service\). 2018. Wildfire Hazard Potential for the Conterminous United States \(map and GIS data\). Available: https://www.firelab.org/project/wildfire-hazard-potential. Accessed: February 26, 2020.](https://www.firelab.org/project/wildfire-hazard-potential)
- U.S. Forest Service (Forest Service). 2020ba. Current Invasive Plants (geospatial dataset). Available:
<https://data.fs.usda.gov/geodata/edw/datasets.php>. Accessed: February 27, 2020.
- U.S. Forest Service (Forest Service). 2020cb. Wildland Fire (website). Available:
<https://www.fs.usda.gov/managing-land/fire>. Accessed: February 24, 2020.
- U.S. Geological Survey (USGS). 2004. Southwest Regional Gap Analysis Project [data set]. Available:
<http://earth.gis.usu.edu/swgap/>. Published: September 14, 2004.
- U.S. Geological Survey (USGS). 2014. Conservation buffer distance estimates for Greater Sage-Grouse – A review: U.S. Geological Survey Open-File Report 2014-1239, 14 p. Available:
<https://pubs.usgs.gov/of/2014/1239/pdf/ofr2014-1239.pdf>. Accessed: May 26, 2020.
- [U.S. Geological Survey \(USGS\). 2019. Federal Wildland Fire Occurrence Data. Last updated: October 30, 2019. Available: https://wildfire.cr.usgs.gov/firehistory/data.html. Accessed: February 24, 2020.](https://wildfire.cr.usgs.gov/firehistory/data.html)

- Utah Department of Agriculture and Food. 2019. State of Utah Noxious Weed List. Available: <https://ag.utah.gov/farmers/plants-industry/noxious-weed-control-resources/state-of-utah-noxious-weed-list/>. Accessed: February 28, 2020.
- Utah Department of Environmental Quality (UDEQ). 2015a. Division of Water Quality. Duchesne River Watershed Restoration Plan. August. Available: <https://deq.utah.gov/legacy/programs/water-quality/watersheds/docs/2015/08Aug/Duchesne.pdf>. Accessed: February 28, 2020.
- Utah Department of Environmental Quality (UDEQ). 2015b. Division of Water Quality. Strawberry River Watershed Restoration Plan. August. Available: <https://deq.utah.gov/legacy/programs/water-quality/watersheds/docs/2015/08Aug/StrawberryRiver.pdf>. Accessed: February 28, 2020.
- Utah Department of Environmental Quality (UDEQ). 2017. Temperature Total Maximum Daily Load (TMDL) for Upper Nine Mile Creek Watershed. March. Available: <https://documents.deq.utah.gov/water-quality/watershed-protection/total-maximum-daily-loads/DWQ-2017-002713.pdf>. Accessed: February 28, 2020.
- Utah Department of Environmental Quality (UDEQ). 2018. Oil and Water Don't Mix: The Price River Crude Oil Spill, by Kevin Okleberry. Utah Department of Environmental Quality. Last updated: August 6, 2018.
- Utah Department of Environmental Quality (UDEQ). 2019. Price River Oil Spill. Utah Department of Environmental Quality. Last updated: September 9, 2019. Available: <https://deq.utah.gov/communication/news/price-river-oil-spill>. Accessed: April 3, 2020.
- Utah Division of Emergency Management. 2019. 2019 Utah State Hazard Mitigation Plan. Utah Department of Public Safety. Salt Lake City, Utah. February. Available: <https://hazards.utah.gov/wp-content/uploads/Utah-State-Hazard-Mitigation-Plan-2019.pdf>. Accessed: February 24, 2020.
- Utah Division of Water Quality. 2016. Final 2016 Integrated Report. Salt Lake City, Utah. Utah Department of Environmental Quality (Version 2.1). Available: <https://documents.deq.utah.gov/water-quality/monitoring-reporting/integrated-report/DWQ-2017-004941.pdf>. Accessed: February 26, 2020.
- [Utah Division of Wildlife Resources \(UDWR\). 2006. UDWR Mammal Habitat Coverages GIS – Snowshoe Hare Habitat.](#)
- Utah Division of Wildlife Resources (UDWR). 2010. Price River Drainage Management Plan. Hydrologic Unit 14060007. Publication No. 10-06. Available: <https://digitallibrary.utah.gov/awweb/awarchive?type=file&item=31117>. Accessed: February 28, 2020.
- [Utah Division of Wildlife Resources \(UDWR\). 2015. Utah Statewide Elk Management Plan. Available: https://wildlife.utah.gov/pdf/bg/elk_plan.pdf. Accessed: April 9, 2021.](#)
- [Utah Division of Wildlife Resources \(UDWR\). 2017a. Utah Moose State Management Plan. Available: https://wildlife.utah.gov/pdf/bg/moose_plan.pdf. Accessed: April 9, 2021.](#)

[Utah Division of Wildlife Resources \(UDWR\). 2017b. Utah Pronghorn Statewide Management Plan. Available: https://wildlife.utah.gov/pdf/bg/pronghorn_plan.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/pronghorn_plan.pdf)

[Utah Division of Wildlife Resources \(UDWR\). 2018. Utah Bighorn Sheep Statewide Management Plan. Available: https://wildlife.utah.gov/pdf/bg/bighorn-plan.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/bighorn-plan.pdf)

[Utah Division of Wildlife Resources \(UDWR\). 2019d. Utah Mule Deer Statewide Management Plan. Available: https://wildlife.utah.gov/pdf/bg/mule_deer_plan_2019.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/mule_deer_plan_2019.pdf)

Utah Division of Wildlife Resources (UDWR). 2019a. Utah Conservation Data Center [online database]. Available: <https://dwrcdc.nr.utah.gov/ucdc/default.asp>. Accessed: November 27, 2019 and December 9, 2019.

Utah Division of Wildlife Resources (UDWR). 2019b. Index of Available GIS Data. Available: <https://dwrcdc.nr.utah.gov/ucdc/DownloadGIS/disclaim.htm>.

~~Utah Division of Wildlife Resources (UDWR). 2019c. Utah Conservation Plan for Greater Sage Grouse. January. Available: https://wildlife.utah.gov/sage_grouse/Utah_Greater_Sage_grouse_Plan.pdf. Accessed: February 25, 2020.~~

Utah Division of Wildlife Resources (UDWR). 2021a. Utah Division of Wildlife Resources Index of Available GIS data: UDWR Hunt Boundaries. Available: <https://dwrcdc.nr.utah.gov/ucdc/DownloadGIS/disclaim.htm>. Accessed: April 9, 2021.

Utah Division of Wildlife Resources (UDWR). 2021b. Big Game Movement Corridor GIS data. Developed by UDWR for the Surface Transportation Board's (STB) Office of Environmental Analysis (OEA) for the Uinta Basin Railway Project Environmental Impact Statement. Email with attached GIS data. May 10.

Utah Division of Wildlife Resources (UDWR). No date. Utah Blue Ribbon Fisheries online mapper. Available: <https://dwrapps.utah.gov/fishing/fStart?TY=Blue%20Ribbon>. Accessed: May 21, 2020.

Utah Gap Analysis. 1999. An Environmental Information System: DWR Neotrops Revision. USDI National Biological Service and Utah State University.

Utah Native Plant Society. 2020. Utah Rare Plant Guide. Available: https://utahrareplants.org/rpg_species.html#All. Accessed: March 18, 2020.

Utah Natural Heritage Program (UNHP). 2020a. Online Species Search Report – Uinta Basin Railway Project, Indian Canyon Alternative. February 12. Provided in Appendix A of Coalition's Biological Resources Baseline Environment Technical Memorandum.

Utah Natural Heritage Program (UNHP). 2020b. Online Species Search Report – Uinta Basin Railway Project, Wells Draw Alternative. February 12. Provided in Appendix A of Coalition's Biological Resources Baseline Environment Technical Memorandum.

Utah Natural Heritage Program (UNHP). 2020c. Online Species Search Report – Uinta Basin Railway Project, Whitmore Park Alternative. February 12. Provided in Appendix A of Coalition's Biological Resources Baseline Environment Technical Memorandum.

Ute Indian Tribe. 2015. Native Fish Management. May. Available: <http://www.utetribe.com/fisheries.html>. Accessed: February 27, 2020.

[Vaughan, D. Mace. 2002. Potential Impact of Road-Stream Crossings \(Culverts\) on the Upstream Passage of Aquatic Macroinvertebrates. U.S. Forest Service Report. Pp 15. Available: https://www.fs.fed.us/t-d/programs/eng/projects/aopxing/pdfPubs/xerces_7-02_invert.pdf. Accessed: March 30, 2021.](https://www.fs.fed.us/t-d/programs/eng/projects/aopxing/pdfPubs/xerces_7-02_invert.pdf)

Walker, B.L., D.E. Naugle, and K.E. Doherty. 2007. Greater sage-grouse population response to energy development and habitat loss. *Journal of Wildlife Management* 71(8):2644–2654.

Waterman, E., I. Tulp, R. Reijnen, K. Krijgsveld, and C. Braak, C. 2002. Disturbance of meadow birds by railway noise in The Netherlands. *Geluid*, 1, 2–3.

Wiacek, J., M. Polak, M. Filipiuk, M. Kucharczyk, and J. Bohatkiewicz. 2015. Do birds avoid railroads as has been found for roads? *Environmental Management* 56:643–652.

Wiken, E., F.J. Nava, and G. Griffith. 2011. North American Terrestrial Ecoregions—Level III. Commission for Environmental Cooperation, Montreal, Canada. Available: <http://www3.cec.org/islandora/en/item/10415-north-american-terrestrial-ecoregionslevel-iii-en.pdf>. Accessed: March 3, 2020.

Wilkomirski, B., B. Sudnik-Wojcikowska, H. Galera, M. Wierzbicka, and M. Malawska. 2011. Railway transportation as a serious source of organic and inorganic pollution. *Water, Air, & Soil Pollution* 218(1–4):333–345.

Woods, A.J., D.A. Lammers, S.A. Bryce, J.M. Omernik, R.L. Denton, M. Domeier, and J.A. Comstock. 2001. Ecoregions of Utah (color poster with map, descriptive text, summary tables, and photographs). Reston, Virginia. U.S. Geological Survey (map scale 1:1,175,000). Available: https://store.usgs.gov/assets/MOD/StoreFiles/Ecoregion/112579_ut_front.pdf. Accessed: February 26, 2020.

9.2.5 Geology, Soils, Seismic Hazards, and Hazardous Waste Sites

Beukelman, G.S., and M.D. Hylland. 2016. Chapter 4: Guidelines for Evaluating Landslide Hazard in Utah. In Bowman and Lund (eds.), *Guidelines for Investigating Geologic Hazards and Preparing Engineering-Geology Reports, with a Suggested Approach to Geologic-Hazard Ordinances in Utah*. (Circular 122 Utah Geological Survey.) Available: <https://ugspub.nr.utah.gov/publications/circular/c-122.pdf>. Accessed: July 9, 2020.

Black, B.D., and G.N. McDonald. 1999. 2401S, Towanta Flat Graben. October. Available: <https://geology.utah.gov/docs/geothermal/ngds/Activefaults/2401S.pdf>. Accessed: July 17, 2020.

Black, B.D., and S. Hecker. 1999a. 2414S, Duchesne-Pleasant Valley Fault System. October. Available: <https://geology.utah.gov/docs/geothermal/ngds/Activefaults/2414S.pdf>. Accessed: July 16, 2020.

Black, B.D., and S. Hecker. 1999b. 2394, Pot Creek Faults. October. Available: <https://geology.utah.gov/docs/geothermal/ngds/Activefaults/2394.pdf>. Accessed: July 17, 2020.-2

- [Bowman, S.D., and W.R. Lund. 2016. Guidelines for Investigating Geologic Hazards and Preparing Engineering Geology Reports, with a Suggested Approach to Geologic Hazard Ordinances in Utah. \(Circular 122 Utah Geological Survey.\) Available: https://ugspub.nr.utah.gov/publications/circular/c-122.pdf. Accessed: July 9, 2020.](https://ugspub.nr.utah.gov/publications/circular/c-122.pdf)
- Bryant, B. 2010. Geologic map of the east half of the Salt Lake City 1° x 2° quadrangle (Duchesne and Kings Peak 30' x 60' quadrangles), Duchesne, Summit, and Wasatch Counties, Utah, and Uinta County, WY.
- Cashion, W.B. 1967. Geology and Fuel Resources of the Green River Formation Southeastern Uinta Basin Utah and Colorado. (Geological Survey Professional Paper 548.) Available: <https://pubs.usgs.gov/pp/0548/report.pdf>. Accessed: March 3, 2020.
- [Earthquake Engineering Research Institute, Utah Chapter. 2015. Scenario for a Magnitude 7.0 Earthquake on the Wasatch Fault – Salt Lake City Segment June 4. Prepared for the Utah Seismic Safety Commission. Available: https://dem.utah.gov/wp-content/uploads/sites/18/2015/03/RS1058_EERI_SLC_EQWEe_Scenario.pdf. Accessed: March 11, 2020.](https://dem.utah.gov/wp-content/uploads/sites/18/2015/03/RS1058_EERI_SLC_EQWEe_Scenario.pdf)
- EDR. 2020. EDR Area/Corridor Report Uinta Railway. Inquiry Number 6036633.1s. April 14, 2020.
- Fenneman, N.M., and D.W. Johnson. 1946. Physiographic Divisions of the Coterminous U.S. Available: \\usfco4fp002\Graphics\0Projects\12907_001_Wyoming_Wind\GIS\Resources\Geology\physio_NAD83UTM13_Edited_WindFarm.shp. Accessed: March 2020.
- Hintze, L.F. 1988. Geologic History of Utah. Brigham Young University Geology Series. (Special Publication 7.) Provo, Utah: Department of Geology, Brigham Young University.
- [Howe, J. 2021. Evidence for Quaternary activity on the Duchesne-Pleasant Valley fault, Uinta Basin, Utah. *Seismological Research Letters* 92\(2B\).](#)
- Leighty & Associates, Inc. 2001. Phase II SBIR. Available: https://web.archive.org/web/20040926200513/http://www.tec.army.mil/publications/ifsar/afinal08_01/five/5.1.5_frame.htm. Accessed: March 3, 2020.
- Li, S., Zhang, Q., Xue, Y., Liu, B., Su, M. Wang, Z., and Wang, S. 2010. Predicting geological hazards during tunnel construction. *Journal of Rock Mechanics and Geotechnical Engineering* 2(3):232–242.
- Lund, W.R. 2014. HAZUS Loss Estimation Software Earthquake Model Revised Utah Fault Database. Updated through 2013. Prepared for the Utah Division of Emergency Management. (Open-File Report 631 Utah Geological Survey.) Available: https://ugspub.nr.utah.gov/publications/open_file_reports/ofr-631.pdf. Accessed: July 9, 2020.
- [Mock, C.J. and Birkeland, K.W. 2000. Snow avalanche climatology of the western United States mountain ranges. *Bulletin of the American Meteorological Society* 81\(10\): 2367–2392. Available: https://journals.ametsoc.org/view/journals/bams/81/10/1520-0477_2000_081_2367_sacotw_2_3_co_2.xml. Accessed: March 15, 2020.](https://journals.ametsoc.org/view/journals/bams/81/10/1520-0477_2000_081_2367_sacotw_2_3_co_2.xml)

- Norton, J.B., T.A. Monaco, J.M. Norton, D.A. Johnson, and T.A. Jones. 2004. Cheatgrass Invasion Alters Soil Morphology and Organic Matter Dynamics in Big Sagebrush-Steppe Rangelands. Available: <http://www.uwyo.edu/esm/faculty-and-staff/jay-norton/papers/wildland-shrub-proc-2004.pdf>. Accessed: August 3, 2020.
- Sprinkel, Douglas A. 2007. Interim geologic map of the Vernal 30' x 60' quadrangle, Uintah and Duchesne Counties, Utah, and Moffat and Rio Blanco Counties, CO.
- Sprinkel, Douglas A. 2018. Interim Geologic Map of the Duchesne 30'x60' Quadrangle, Duchesne and Wasatch Counties, Utah. (Utah Geological Survey Open-File Report 689.) Available: https://ugspub.nr.utah.gov/publications/open_file_reports/ofr-689.pdf. Accessed: June 29, 2020.
- ~~Toro, B., and B.R. Pratt. 2015. Characteristics and Implications of Sedimentary Deformation Features in the Green River Formation (Eocene) in Utah and Colorado. In Vandenberg, M.D., Resselar, R., and Birgenheier, L.P., eds, Geology of Utah's Uinta Basin and Uinta Mountains: Utah Geological Association Publication 44, pp. 371-422.~~
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS). 2018. Gridded Soil Survey Geographic (gSSURGO) Database for Utah. Published September 15, 2018. Available: <http://datagateway.nrcs.usda.gov/>.
- [U.S. Department of Agriculture \(USDA\) Natural Resources Conservation Service \(NRCS\). 2019. Gridded Soil Survey Geographic \(gSSURGO\) by State.](#)
- U.S. Environmental Protection Agency (USEPA). 2020. Envirofacts. Available: <https://enviro.epa.gov/index.html>. Accessed: April 28, 2020.
- [U.S. Forest Service \(Forest Service\). 2014. Science You Can Use. Bulletin Issue 14. USDA Forest Service Rocky Mountain Research Station.](#)
- ~~U.S. Forest Service Intermountain Region. 2011. Forest Service Manual FSM 2500 Watershed and Air Management Chapter 2550 Soil Management. Available: <https://www.fs.fed.us/biology/resources/pubs/soils/fsm-2550.pdf>. Accessed: August 3, 2020.~~
- ~~U.S. Geological Survey (USGS). 2014. Building Seismic Safety Council 2014 Event Set (Scenario Catalog). Available: <https://earthquake.usgs.gov/scenarios/catalog/bssc2014/>. Accessed: March 11, 2020.~~
- U.S. Occupational Safety and Health Administration (OSHA). 2003. Underground Construction (Tunneling). Available: <https://www.osha.gov/Publications/osha3115.html>. Accessed: July 15, 2020.
- ~~Uintah County. 2005. Uintah County General Plan. Last amended: February 27, 2012. Available: http://co.uintah.ut.us/document_center/CommunityDevelopment/General_Plan_for_Uintah_County_2012.pdf. Accessed: February 26, 2020.~~
- Utah Abandoned Mine Reclamation Program. n.d. Abandoned Mine Reclamation Program. Available: <https://ogm.utah.gov/amr/amrtemp/default.html>. Accessed: March 19, 2020.
- [Utah Avalanche Center. n.d. All Observations. Available: <https://utahavalanchecenter.org/observations?rid=All&term=All&fodv%5Bmin%5D%5Bdate%5D=&fodv%5Bmax%5D%5Bdate%5D=>. Accessed: March 18, 2021.](#)

[Utah Division of Oil, Gas and Mining. 2017. Oil and Gas Fields. Available:](https://gis.utah.gov/data/energy/oil-gas/)

<https://gis.utah.gov/data/energy/oil-gas/>. Accessed: December 4, 2019.

Utah Division of Oil, Gas, and Mining (UDOGM). 2020. Utah Oil and Gas: Data Research Center. Department of Natural Resources. Available: <https://oilgas.ogm.utah.gov/oilgasweb/data-center/dc-main.xhtml#download>. Accessed: February 2020.

Utah Division of Water Rights (UDWRi). 2020. Utah Points of Diversion. January. Available: <https://opendata.gis.utah.gov/datasets/utahDNR::utah-points-of-diversion>. Accessed: February 26, 2020.

Utah Geological Survey (UGS). n.d. Utah Geological Survey GeoData Archive. Available: <https://geodata.geology.utah.gov/pages/home.php?login=true>. Accessed: July 17, 2020.

Utah Geological Survey (UGS). 2004. Gilsonite—An Unusual Utah Resource. Available: <https://geology.utah.gov/map-pub/survey-notes/gilsonite-an-unusual-utah-resource/>. Accessed: July 8, 2020.

Utah Geological Survey (UGS). 2005. SR 191 Debris-Flow Data Sheet, SR 191 mile post 276. Available: https://geodata.geology.utah.gov/pages/view.php?search=county%3Aduchesne&k=&modal=&display=thumbs&order_by=date&offset=0&per_page=48&archive=&sort=DESC&restypes=1%2C2%2C3%2C4%2C8&recentdaylimit=&foredit=&ref=37621. Accessed: July 17, 2020.

Utah Geological Survey (UGS). 2010a. 2010 Landslide Maps by 30' X 60' Quadrangle. Carbon, Duchesne, Uinta, and Utah Counties. Available: <https://geology.utah.gov/hazards/info/maps/2010-landslide-maps-by-30-x-60-quadrangle/>. Accessed: February 2020.

Utah Geological Survey (UGS). 2010b. Description of map units for the Landslide Maps of Utah. (Utah Geological Survey Map 246DM). Available: https://ugspub.nr.utah.gov/publications/hazards_maps/m-246/m-246_UnitDescriptions.pdf. Accessed: March 3, 2020.

Utah Geological Survey (UGS). 2015. Utah Mineral Occurrence System. Available: <https://geology.utah.gov/map-pub/maps/interactive-maps/utah-mineral-occurrence-system/>. Accessed: July 17, 2020.

Utah Geological Survey (UGS). 2018. Oil and Gas in the Uinta Basin, Utah – What to Do with the Produced Water. Survey notes, v. 50, no 2, May 2018. Available: <https://geology.utah.gov/map-pub/survey-notes/uinta-basin-produced-water/>. Accessed: March 11, 2020.

Utah Geological Survey (UGS). 2020a. Geologic Map Portal. Available: <https://geology.utah.gov/apps/intgeomap/>. Accessed: February 27, 2020.

Utah Geological Survey (UGS). 2020b. Utah Geological Survey Geologic Hazards. Available: <https://geology.utah.gov/hazards/info/maps/2010-landslide-maps-by-30-x-60-quadrangle//>. Accessed: February 25, 2020.

Utah Geological Survey (UGS). 2020c. Utah Quaternary Fault and Fold Map. Available: <https://geology.utah.gov/apps/qfaults/index.html>. Accessed: July 16, 2020.

Wang, X., J. Lai, J. Qiu, W. Xu, L. Wang, and Y. Luo. 2019. Geohazards, reflection and challenges in Mountain tunnel construction of China: a data collection from 2002 to 2018. *Geomatics, Natural Hazards, and Risk* 11(01):766–785.

Weiss, M.P., I.J. Witkind, and W.B. Cashion. 1990 (digital release 2003). Geologic map of the Price 30' x 60' quadrangle, Carbon, Duchesne, Uintah, Utah, and Wasatch Counties, Utah. 1:100,000. Available: <https://ugspub.nr.utah.gov/publications/geologicmaps/30x60quadrangles/m-198.pdf>. Accessed: April 3, 2020.

Winter, T.C., J.W. Harvey, O. Lehn Franke, and W.M. Alley. 1998. Ground Water and Surface Water: A Single Resource. (U.S. Geological Survey Circular 1139.) Available: <https://pubs.usgs.gov/circ/circ1139/pdf/circ1139.pdf>. Accessed: August 31, 2020.

9.2.6 Noise and Vibration

[Dowding, Charles H. 2006. Blast and Construction Vibration Monitoring and Control: Thirty-Five-Year Perspective. *Practice Periodical on Structural Design and Construction* 11\(1\):8.](#)

Federal Railroad Administration (FRA). 1999. Draft Environmental Impact Statement, Proposed Rule for the Use of Locomotive Horns at Highway-Rail Grade Crossings.

[Federal Railroad Administration \(FRA\). 2012. High Speed Ground Transportation Noise and Vibration Impact Assessment Final Rule. Available: <http://www.fra.dot.gov/eLib/Details/L04090>.](#)

Federal Transit Administration (FTA). 2006. Transit Noise and Vibration Impact Assessment. May. (FTA-VA-90-1003-06.) Available: http://www.fta.dot.gov/documents/FTA_Noise_and_Vibration_Manual.pdf.

Surface Transportation Board (Board). 1998a. Final Environmental Impact Statement No. 980194, Conrail Acquisition (Finance Docket No. 33388). CSX Corporation and CSX Transportation, Inc., and Norfolk Southern Corporation and Norfolk Southern Railway Company (NS).

Surface Transportation Board (Board). 1998b. Draft Environmental Assessment Canadian National/Illinois Central Railroad Acquisition.

U.S. Environmental Protection Agency (USEPA). 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety.

[U.S. Environmental Protection Agency \(USEPA\). 2014a. Summary of the Noise Control Act 42 U.S.C. §4901 et seq. \(1972\). Available: <http://www2.epa.gov/laws-regulations/summary-noise-control-act>.](#)

[U.S. Environmental Protection Agency \(USEPA\). 2014b. National Service Center for Environmental Publications: Railroad Noise Emission Standard \(40 C.F.R. § 201\).](#)

9.2.7 Air Quality and Greenhouse Gases

[American Petroleum Institute. 2012. Review and Evaluation of the Plume Volume Molar Ratio Method \(PVMRM\) and Ozone Limiting Method \(OLM\) for short-term \(1-hour average\) NO₂ Impacts. Prepared by S. Hanna, B. Egan, E. Hendrick, and V. Tino. July 18.](#)

- Bureau of Land Management (BLM). 2018. Air Resource Management Strategy 2018 Air Monitoring Report. Available: https://eplanning.blm.gov/epl-front-office/projects/lup/101390/170567/207199/2018_BLM_Utah_Air_Monitoring_Report_-_Final.pdf. Accessed: February 17, 2020.
- Federal Land Managers' Air Quality Related Values Work Group (FLAG). 2010. Phase I Report—Revised. Natural Resource Report NPS/NRPC/NRR—2010/232. Available: http://nature.nps.gov/air/Pubs/pdf/flag/FLAG_2010.pdf. Accessed: April 2, 2014.
- [Fox, D. G., A.M. Bartuska, J.G. Byrne, E. Cowling, R. Fisher, G.E. Likens, S.E. Lindberg, R.A. Linthurst, J. Messer, and P.S. Nichols. 1989. A Screening Procedure to Evaluate Pollution Effects on Class I Wilderness Areas. General Technical Report RM-168. U.S. Department of Agriculture, Forest Service Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO. Available: \[http://www.fs.fed.us/rm/pubs_rm/rm_gtr168.pdf\]\(http://www.fs.fed.us/rm/pubs_rm/rm_gtr168.pdf\). Accessed: May 5, 2014.](#)
- [Global Change Research Program \(GCRP\). 2009. Global Climate Change Impacts in the United States. A State Knowledge Report from the U.S. Global Change Research Program. Available: <http://www.globalchange.gov/what-we-do/assessment/previous-assessments/global-climatechange-impacts-in-the-us-2009>.](#)
- [Global Change Research Program \(GCRP\). 2018. Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II. Southwest Region. Available: <https://nca2018.globalchange.gov/chapter/southwest>. Accessed: April 27, 2021\).](#)
- Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: Synthesis Report, Summary for Policymakers. Available: http://www.ipcc.ch/pdf/assessment-report/ar4/syr/ar4_syr_spm.pdf. Accessed: August 24, 2017.
- Intergovernmental Panel on Climate Change (IPCC). 2014. Climate Change Synthesis Report. Available: https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_full.pdf. Accessed: July 17, 2020.
- Iowa State University. 2020. Iowa Environmental Mesonet. Available: https://mesonet.agron.iastate.edu/sites/windrose.phtml?network=UT_COOP&station=FIVU1. Accessed: February 17, 2020.
- [Owen, C. 2014. NO₂ Modeling: Current Status and Plans for Updates to Appendix W. U.S. Environmental Protection Agency. Presented at 2014 EPA R/S/L Modelers' Workshop. Salt Lake City, UT. May 20.](#)
- [Podrez, Mark. 2015. An update to the ambient ratio method for 1-h NO₂ air quality standards dispersion modeling. Atmospheric Environment 103:163–170.](#)
- [RTP Environmental Associates Inc. 2013. Ambient Ratio Method Version 2 \(ARM2\) for use with AERMOD for 1-hr NO₂ Modeling: Development and Evaluation Report. September.](#)
- [Salt Lake County Health Department. 2017. Climate Adaptation Plan for Public Health. Available: <https://utahclimateactionnetwork.com/wp-content/uploads/sites/6/2020/05/Salt-Lake-County-Climate-Adaptation-Plan.pdf>. Accessed: April 14, 2021\).](#)

- University of Utah. 2020. Wind Rose for Indian Canyon Summit. Department of Atmospheric Sciences, Mesowest Network. Available: <https://mesowest.utah.edu/>. Accessed: February 17, 2020.
- ~~U.S. Environmental Protection Agency (USEPA). 1997. Regulatory Announcement: Federal Preemption of State and Local Control of Locomotives. EPA420 F 97 050. December. Available: <http://www.epa.gov/otaq/regs/nonroad/locomotv/frm/42097050.pdf>. Accessed: January 23, 2015.~~
- U.S. Environmental Protection Agency (USEPA). 1998a. Compilation of Air Pollutant Emissions Factors. AP-42. July. Table 11.9-4. Available: <http://www.epa.gov/ttnchie1/ap42/ch11/final/c11s09.pdf>. Accessed: February 7, 2020.
- U.S. Environmental Protection Agency (USEPA). 1998b. Revision of Emissions Factors for AP-42 Section 11.9, Western Surface Coal Mining. Revised Final Report. Available: <http://www.epa.gov/ttn/chie/ap42/ch11/bgdocs/b11s09.pdf>. Accessed: February 7, 2020.
- U.S. Environmental Protection Agency (USEPA). 2006. AP-42: Compilation of Air Emissions Factors. Fifth Edition, Volume I, Chapter 13: Miscellaneous Sources, 13.2.2, Unpaved Roads, and Appendix C-1, Procedures for Sampling Surface/Bulk Dust Loading. November. Available: <https://www3.epa.gov/ttn/chie/ap42/ch13/final/c13s0202.pdf> (section 13.2.2) and <https://www3.epa.gov/ttn/chie/ap42/appendix/app-c1.pdf> (Appendix C). Accessed: February 17, 2020.
- U.S. Environmental Protection Agency (USEPA). 2009. Emission Factors for Locomotives. EPA-420-F-09-025. Office of Transportation and Air Quality. April. Available: <http://www.epa.gov/otaq/regs/nonroad/locomotv/420f09025.pdf>. Accessed: February 17, 2020.
- ~~U.S. Environmental Protection Agency (USEPA). 2013. *AERSURFACE User's Guide*. Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina (EPA-454/B-08-001).~~
- U.S. Environmental Protection Agency (USEPA). 2018. Green Book GIS download. Available: <https://www.epa.gov/green-book/green-book-gis-download>. Accessed: December 16, 2019.
- U.S. Environmental Protection Agency (USEPA). 2019a. Motor Vehicle Emission Simulator (MOVES2014b). U.S. Environmental Protection Agency. Available: <https://www.epa.gov/moves/latest-version-motor-vehicle-emission-simulator-moves>. Accessed: February 17, 2020.
- U.S. Environmental Protection Agency (USEPA). 2019b. User's Guide for the AMS/EPA Regulatory Model—AERMOD. U.S. EPA Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina (EPA-454/B-16-0t11). Available: https://www3.epa.gov/ttn/scram/models/aermod/aermod_userguide.pdf. Accessed: February 17, 2020.
- U.S. Environmental Protection Agency (USEPA). 2019c. AirData. Data files available for download. Available: https://aqs.epa.gov/aqsweb/airdata/download_files/html. Accessed: February 17, 2020.

U.S. Environmental Protection Agency (USEPA). 2020. 2014 National Emission Inventory Data. All Sectors Summary by County. Available: <https://www.epa.gov/air-emissions-inventories/2014-national-emissions-inventory-nei-data>. Accessed: May 15, 2020.

~~U.S. Forest Service (Forest Service). 2000. Rocky Mountain Region. Screening Methodology for Calculating ANC Change to High Elevation Lakes. December 2000. Available: http://www.fs.fed.us/air/documents/anc_scre.pdf. Accessed: May 5, 2014.~~

~~U.S. Geological Survey (USGS). 2021. Climate Change in Mountain Ecosystems. Available: https://www.usgs.gov/centers/norock/science/climate-change-mountain-ecosystems-ccme?qt-science_center_objects=0#qt-science_center_objects. Accessed: April 27, 2021.~~

Utah Department of Environmental Quality (UDEQ). 2015a. Final Report: 2014 Uinta Basin Winter Ozone Study. Division of Air Quality. Salt Lake City, UT. Available: https://deq.utah.gov/legacy/destinations/u/uintah-basin/ozone/docs/2015/02Feb/UBWOS_2014_Final.pdf. Accessed: February 17, 2020.

Utah Department of Environmental Quality (UDEQ). 2015b. PM10 Maintenance Provisions for Utah County. Section IX.A.12. Available: <https://documents.deq.utah.gov/air-quality/pm25-serious-sip/DAQ-2015-020901.pdf>. Accessed: August 10, 2020.

Utah Department of Environmental Quality (UDEQ). 2020. 2017: Statewide Emissions Inventories. Available: <https://deq.utah.gov/air-quality/2017-statewide-emissions-inventories>. Accessed: April 7, 2020.

Utah State University. 2020. Wind Rose for Pleasant Valley. Utah Climate Center. Available: <https://climate.usu.edu/mchd/>. Accessed: February 17, 2020.

~~Westerling, A.L., H.G. Hidalgo, D.R. Cayan, and T.W. Swetnam. 2006. Warming and Earlier Spring Increase Western U.S. Forest Wildfire Activity. In *Science* 313(5789):940-943. Available: <http://www.sciencemag.org/content/313/5789/940.full.pdf>.~~

Western Region Air Partnership (WRAP). 2006. WRAP Fugitive Dust Handbook. Western Governors' Association. Denver, CO. September 7. Available: http://ulpeis.anl.gov/documents/dpeis/references/pdfs/Countess_Environmental_2006_WRAP_Fugitive.pdf. Accessed: November 9, 2019.

Western Regional Climate Center (WRCC). 2020a. Climate of Utah. Reno, NV. Available: https://wrcc.dri.edu/Climate/narrative_ut.php. Accessed: February 19, 2020.

Western Regional Climate Center (WRCC). 2020b. Period of Record Monthly Climate Summary. Reno, NV. Available: <https://wrcc.dri.edu>. Accessed: February 17, 2020.

9.2.8 Energy

~~API 2018. API Guidelines for Right of Way Activities. American Petroleum Institute, August 2018. Available: https://www.api.org/~/_media/APIWebsite/oil-and-natural-gas/primers/Guidelines%20for%20Right-of-Way%20Activities_PA2018.pdf. Accessed: March 25, 2020.~~

ArcGIS. 2018. Natural Gas Processing Plant GIS Data. Last updated: April 30, 2018. Available: <https://hifld-geoplatform.opendata.arcgis.com/search>. Accessed: February 6, 2020.

ArcGIS. 2019a. Electric Substation GIS Data. Last updated: October 7, 2019. Available: <https://hifld-geoplatform.opendata.arcgis.com/search>. Accessed: February 6, 2020.

ArcGIS. 2019b. Existing Electric Transmission Line GIS Data. Last updated: September 24, 2019. Available: <https://hifld-geoplatform.opendata.arcgis.com/search>. Accessed: February 6, 2020.

ArcGIS. 2019c. Natural Gas Compressor Station GIS Data. Last updated: July 21, 2019. Available: <https://hifld-geoplatform.opendata.arcgis.com/search>. Accessed: February 6, 2020.

ArcGIS. 2019d. Natural Gas Pipeline GIS Data. Last updated: August 23, 2019. Available: <https://hifld-geoplatform.opendata.arcgis.com/search>. Accessed: February 6, 2020.

[Berry Petroleum Company, LLC. 2021. Letter to Joshua Wayland, Surface Transportation Board. Comments on Uinta Basin Railway Draft EIS. January 27.](#)

Holly Frontier. 2019. Holly Frontier Wood Cross Refinery. Available: <https://www.hollyfrontier.com/operations/refineries/woods-cross/default.aspx>. Accessed: March 5, 2020.

[INGAA. 2013. Guidance Documents For Construction—Natural Gas Pipeline Crossing Guidelines. Interstate Natural Gas Association of America. June 28, 2013. Version 1. Available: https://www.ingaa.org/File.aspx?id=20405&v=1aed587b. Accessed: March 25, 2020.](#)

Marathon Oil. 2019. Marathon Oil Salt Lake City Refinery. Available: <https://www.marathonpetroleum.com/Operations/Refining/Salt-Lake-City-Refinery/>. Accessed: March 5, 2020.

MLEA. 2020. Moon Lake Electric Association (MLEA) Utah Service Area Map. Available: <https://mleainc.com/applyingforservices.html>. Accessed: February 7, 2020.

PacifiCorp. 2016. PacifiCorp Transmission Network Diagram. Last updated: February 10, 2016. Available: http://www.oasis.oati.com/PPW/PPWdocs/Transmission_Network_Diagram.pdf. Accessed: February 12, 2020.

Pipeline and Hazardous Materials Safety Administration (PHMSA). 2020a. Hazardous Liquid Pipeline data digitized from PHMSA. Available: <https://www.phmsa.dot.gov/>. Accessed: February 6, 2020.

Pipeline and Hazardous Materials Safety Administration (PHMSA). 2020b. U.S. Pipeline and Hazardous Materials Safety Administration (PHMSA) Public Map Viewer. Dominion Energy Questar Pipeline. Available: <https://pvnpm.phmsa.dot.gov/PublicViewer/>. Accessed: February 7, 2020.

Pipeline and Hazardous Materials Safety Administration (PHMSA). 2020c. U.S. Pipeline and Hazardous Materials Safety Administration (PHMSA) Public Map Viewer. Chevron Salt Lake Pipeline. Available: <https://pvnpm.phmsa.dot.gov/PublicViewer/>. Accessed: February 7, 2020.

[Pipeline and Hazardous Materials Safety Administration \(PHMSA\). 2020d. U.S. Pipeline and Hazardous Materials Safety Administration \(PHMSA\) PIPA Recommended Practice BL13 "Prevent and Manage Right-of-Way Encroachment" Available: https://primis.phmsa.dot.gov/comm/pipa/pipa_practice_BL13.htm?nocache=3426. Accessed: March 25, 2020.](#)

- Questar. 2018. Questar Natural Gas Pipeline Map. Last updated: September 10, 2018. Available: <https://www.questarpipeline.com/SystemOperations/SystemMaps/MeasurementAllocationPoints%28QPC%29092018.pdf>. Accessed: February 7, 2018.
- Questar. 2019. Dominion Energy Questar Pipeline Summary. Last updated: June 2019. Available: <https://www.questarpipeline.com/Marketing/MarketingPresentations/DEQPQuickReferenceGuides.pdf>. Accessed: February 11, 2020.
- RMP. 2020: Rocky Mountain Power, Utah Service Area Map. Available: <https://www.pacificorp.com/content/dam/pcorp/documents/en/rockymountainpower/RMP-ServiceAreaMap-Simple.pdf>. Accessed: February 7, 2020.
- Seven County Infrastructure Coalition (Coalition). 2019. Coalition's Response to Information Request #4.
- U.S. Energy Information Administration (EIA). 2020a. Utah – State Profile and Energy Estimates – Overview. 2020. Washington DC. Last updated: February 20, 2020. Available: <https://www.eia.gov/state/?sid=UT>. Accessed: March 25, 2020.
- U.S. Energy Information Administration (EIA). 2020b. Utah – State Profile and Energy Estimates -- Overview. 2018. Washington, DC. Last Revised February 20, 2020. Available: <https://www.eia.gov/state/?sid=UT#tabs-2>. Accessed: July 1, 2020.
- U.S. Energy Information Administration (EIA). 2020c. Units and calculators explained. Last updated: June 2, 2020. Available: <https://www.eia.gov/energyexplained/units-and-calculators/>. Accessed: July 1, 2020.
- U.S. Energy Information Administration (EIA). 2020d. Alternative Fuels Data Center – Utah Transportation Data for Alternative Fuels and Vehicles. 2018. Washington, DC. Last updated: April 10, 2020. Available: <https://afdc.energy.gov/states/ut>. Accessed: July 1, 2020.
- U.S. Energy Information Administration (EIA). 2020e. Number and Capacity of Petroleum Refineries - Utah. 2018. Washington, DC. Last updated: June 2, 2020. Available: https://www.eia.gov/dnav/pet/pet_pnp_cap1_dcu_SUT_a.htm. Accessed: July 1, 2020.
- U.S. Energy Information Administration (EIA). 2020f. Utah – State Electricity Profile. 2018. Washington, DC. Last updated: March 23, 2020. Available: <https://www.eia.gov/electricity/state/Utah/>. Accessed: July 1, 2020.
- U.S. Energy Information Administration (EIA). 2020g. Utah – State Profile and Energy Estimates -- Analysis. 2018. Washington, DC. Last updated: February 20, 2020. Available: <https://www.eia.gov/state/analysis.php?sid=UT>. Accessed: July 1, 2020.
- U.S. Energy Information Administration (EIA). 2020h. Utah – State Profile and Energy Estimates – Electric Transmission Line Map, 2020. Washington DC. Last updated: February 20, 2020. Available: <https://www.eia.gov/state/?sid=UT>. Accessed: March 25, 2020.
- U.S. Energy Information Administration (EIA). 2020i. Refinery Capacity 2020. Table 3, Capacity of Operable Petroleum Refineries by State as of January 1, 2020. Available: <https://www.eia.gov/petroleum/refinerycapacity/table3.pdf>. Accessed: August 12, 2020.

U.S. Energy Information Administration (EIA). No date. Alternative Fuels Data Center Glossary – Gasoline Gallon Equivalent. Available:
<https://afdc.energy.gov/glossary.html#GasolineGallonEquivalent>. Accessed: December 6, 2019.

Utah Department of Oil, Gas, and Mining (UDOGM). ~~2020~~2019. Information System Data. Available:
<https://oilgas.ogm.utah.gov/oilgasweb/live-data-search/lds-main.xhtml>. Accessed: ~~April 6,~~
~~2020~~[December 10, 2019](#).

~~Utah Division of Pipeline Safety. 2020. Title 54 Public Utilities Chapter 8a Damage to Underground Utility Facilities Section 4 Notice of excavation. Available:
https://le.utah.gov/xcode/Title54/Chapter8A/54-8a-S4.html?v=C54-8a-S4_1800010118000101. Accessed: March 5, 2020.~~

Vanden Berg, Michael D. 2020a. Utah’s Energy Landscape 5th Edition. Circular 127. Salt Lake City, UT. Prepared by the Utah Geological Survey, Salt Lake City, UT. Page 32: Natural Gas. Available:
<https://ugspub.nr.utah.gov/publications/circular/c-127.pdf>. Accessed: July 1, 2020.

Vanden Berg, Michael D. 2020b. Utah’s Energy Landscape 5th Edition. Circular 127. Salt Lake City, UT. Prepared by the Utah Geological Survey, Salt Lake City, UT. Page 24: Crude Oil and Petroleum Products. Available: <https://ugspub.nr.utah.gov/publications/circular/c-127.pdf>. Accessed: July 1, 2020.

Vanden Berg, Michael D. 2020c. Utah’s Energy Landscape 5th Edition. Circular 127. Salt Lake City, UT. Prepared by the Utah Geological Survey, Salt Lake City, UT. Page 40: Electricity. Available:
<https://ugspub.nr.utah.gov/publications/circular/c-127.pdf>. Accessed: July 1, 2020.

Vanden Berg, Michael D. 2020d. Utah’s Energy Landscape 5th Edition. Circular 127. Salt Lake City, UT. Prepared by the Utah Geological Survey, Salt Lake City, UT. Page 24. Available:
<https://ugspub.nr.utah.gov/publications/circular/c-127.pdf>. Accessed: July 1, 2020.

Vanden Berg, Michael D. 2020e. Utah’s Energy Landscape 5th Edition. Circular 127. Salt Lake City, UT. Prepared by the Utah Geological Survey, Salt Lake City, UT. Page 5. Available:
<https://ugspub.nr.utah.gov/publications/circular/c-127.pdf>. Accessed: July 1, 2020.

9.2.9 Cultural Resources

[Ashley National Forest. 2020. Public Consultation for Decommission of Stockmore Ranger Station and Indian Canyon Ranger Station. File Code: 2360. Available:
\[https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd796768.pdf\]\(https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd796768.pdf\). Accessed: April 6, 2021.](#)

Hora, Elizabeth. Utah State Historic Preservation Office (SHPO). October 2017—Letter to Kristy Groves, Ashley National Forest, concurring with determination of eligibility for Indian Canyon Trail/Indian Canyon Road.

Karpinski, M. 2008a. A Cultural Resources Survey of Ames US-6 Cultural Survey project, Utah County, Utah. May 2008.

Karpinski, M. 2008b. IMACS Site Form for Historic Highway 6. U.S. Forest Service, Salt Lake City, Utah. Copies available from the Utah Division of State History, Salt Lake City, UT.

- Knox, K. and Trista Isaacs. 2017a. IMACS Site Form for 42DC328. U.S. Forest Service, Salt Lake City, Utah. Copies available from the Utah Division of State History, Salt Lake City, UT.
- Knox, K. and Trista Isaacs. 2017b. Utah Archaeology Site Form for Indian Canyon Trail/Indian Canyon Road. Copies available from the Utah Division of State History, Salt Lake City, UT.
- Seven County Infrastructure Coalition (Coalition). 2020a. Selective Reconnaissance-Level Survey of Archaeological Resources Along Proposed Routes for the Uinta Basin Railway Project in Carbon, Duchesne, Uintah, and Utah Counties, Utah. May 2020. 289 pp.
- Seven County Infrastructure Coalition (Coalition). 2020b. Selective Reconnaissance-Level Survey of Historic Architectural Resources Along Proposed Routes for the Uinta Basin Railway Project in Utah, Carbon, Duchesne, and Uintah Counties, Utah – FINAL. April 2020. 304 pp.
- SWCA Environmental Consultants. 2017a. National Register of Historic Places Multiple Property Documentation Form for Prehistoric Temporary Campsite in the Uinta Basin. August 4, 2017.
- SWCA Environmental Consultants. 2017b. National Register of Historic Places Multiple Property Documentation Form for Irrigation in the Uinta Basin, 1869 to 1972. October 13, 2017.
- SWCA Environmental Consultants. 2017c. National Register of Historic Places Multiple Property Documentation Form for Shepherding and Sheep Camps in the Uinta Basin, 1879 to 1972. October 13, 2017.

9.2.10 Paleontological Resources

- Black, C.C. 1968. The Uintan rodent *Mytonomys*. Type locality is Myton Pocket. *Journal of Paleontology* 42:853–856.
- Bryant, B. 2010. Geologic map of the east half of the Salt Lake City 1' × 2' quadrangle (Duchesne and Kings Peak 30' × 60' quadrangles), Duchesne, Summit, and Wasatch Counties, Utah, and Uinta County, Wyoming. Miscellaneous Publication 10-1DM. Salt Lake City, Utah: Utah Geological Survey.
- Bureau of Land Management (BLM). 2007. Potential Fossil Yield Classification system. BLM Instruction Memorandum No. 2008-009 (PFYC revised from USFS, 1996).
- Bureau of Land Management (BLM). 2008. Assessment and Mitigation of Potential Impacts to Paleontological Resources. BLM Instruction Memorandum 2009-011. Available: <https://www.blm.gov/policy/im-2009-011>. Accessed: May 8, 2020.
- Bureau of Land Management (BLM). 2016. Potential Fossil Yield Classification system. BLM Instruction Memorandum 2016-124 (PFYC revised from BLM, 2007). Available: https://www.blm.gov/sites/blm.gov/files/uploads/IM2016-124_att1.pdf. Accessed: May 8, 2020.
- Clemens, W.A. 1961. A Late Cretaceous mammal from Dragon Canyon, Utah. *Journal of Paleontology* 35(3):578–579
- Foss, S. 2007. Potential Fossil Yield Classification data for Colorado and Utah. Utah State Paleontologist, Salt Lake City, Utah: Bureau of Land Management. Email communication.

Gilmore, C.W. 1946. A new crocodylian from the Eocene of Utah. Type specimen from Myton Pocket. *Journal of Paleontology* 20:62–67. Type specimen from Myton Pocket.

[Graham, J. 2006. Dinosaur National Monument Geologic Resource Evaluation Report. Natural Resource Report NPS/NRPC/GRD/NRR—2006/008. National Park Service, Denver, CO.](#)

[Gregson, J.D. and D.J. Chure. 2000. Geology and Paleontology of Dinosaur National Monument, Utah—Colorado, In: Geology of Utah's Parks and Monuments \(D.A. Sprinkel, T.C. Chidsey, Jr., and P.B. Anderson, eds.\), Utah Geological Association Publication 28:155–188.](#)

Gunnell, G.F., Murphey, P.C., Stucky, R.K., Townsend, K.E., Robinson, P., Zonneveld, J.P., and Bartels, W.S. 2009. Biostratigraphy and biochronology of the latest Wasatchian, Bridgerian, and Uintan North American Land-Mammal “Ages”. Papers, in Albright, B., ed., *Geology, Vertebrate Paleontology, and Biostratigraphy in Honor of Michael O. Woodburne* 65:279–330.

Hamblin A.H., W.A.S. Sarjeant, and D.D. Spalding. 1998, A remarkable mammal trackway in the Uinta Formation (late Eocene) of Utah. *Brigham Young Univ Geol Stud* 43:9–18.

Hamblin A.H., W.A.S. Sarjeant, and D.D. Spalding. 1999. Vertebrate footprints in the Duchesne River and Uinta Formations (middle to late Eocene), Uinta Basin, vol 99–1. Utah Geological Survey, Miscellaneous Publications, Salt Lake City, pp 443–454.

Hardy, J.W. 1959. A previously undescribed recurvirostrid from the Eocene of Utah. *The Auk* 76(1):106–108.

Jensen, J.A. 1966. Dinosaur eggs from the Upper Cretaceous North Horn Formation of central Utah. *Brigham Young University Geology Studies* 13:55–67.

Johnson, R.C. 1985. Early Cenozoic history of the Uinta and Piceance Creek basins, Utah and Colorado, with special reference to the development of Eocene Lake Uinta, In: *Cenozoic Paleogeography of West-Central United States* (R.M. Flores and S.S. Kaplan, eds.). Society for Sedimentary Geology. pp. 247–276.

McDonald, Greg. Regional Paleontologist. Bureau of Land Management April 3, 2020—Personal communication with Paul Murphey, Paleo Solutions.

Miller, W.E. 1986. A new species of pantodont, cf. *Haplolambia simpsoni* (Mammalia) from Utah. *Journal of Paleontology* 60(5):1138–1142.

Murphey, P.C., and D. Daitch. 2007. Paleontological overview of oil shale and tar sands areas in Colorado, Utah and Wyoming. U.S. Department of Energy, Argonne National Laboratory Report Prepared for the U.S. Department of Interior Bureau of Land Management 468 pp. and 6 maps, scale 1:500,000.

Murphey, P.C., K. Townsend, A. Friscia, and E. Evanoff. 2011. Paleontology and stratigraphy of middle Eocene rock units in the Bridger and Uinta Basins, Wyoming and Utah. *The Geological Society of America Field Guide* 21.

Scott J.J., and M.E. Smith. 2015. Trace Fossils of the Eocene Green River Lake Basins, Wyoming, Utah, and Colorado. In: Smith M., Carroll A. (eds) *Stratigraphy and Paleolimnology of the Green River Formation, Western USA. Syntheses in Limnogeology*, vol 1. Springer, Dordrecht.

- Sprinkel, D.A. 2007. Interim geologic map of the Vernal 30' × 60' quadrangle, Uintah and Duchesne Counties, Utah, and Moffat and Rio Blanco Counties, Colorado. Open-File Report 506DM, scale 1:100,000. Salt Lake City, Utah: Utah Geological Survey.
- Sprinkel, D.A. 2018. Interim Geologic Map of the Duchesne 30'x60' Quadrangle, Duchesne and Wasatch Counties, Utah. (Utah Geological Survey Open-File Report 689.) Available: https://ugspub.nr.utah.gov/publications/open_file_reports/ofr-689.pdf. Accessed: June 29, 2020.
- Stokes, W.L. 1986. Geology of Utah. Salt Lake City, Utah. Utah Museum of Natural History, University of Utah and Utah Geological and Mineral Survey, Department of Natural Resources.
- SWCA Environmental Consultants. 2020. Paleontological Resource Impact Evaluation Report Along Proponent-Proposed Routes for the Uinta Basin Railway Project in Utah, Carbon, Duchesne, and Uintah Counties, Utah. Unpublished SWCA Paleontological Resources Report No. UT19-53323-06.
- Utah Geological Survey (UGS). 2020. Paleontology Locality Database (Requested April 2020).
- Weiss, M.P., I.J. Witkind, and W.B. Cashion. 2003. Geologic Map of the Price 30' × 60' Quadrangle, Carbon, Duchesne, Uintah, Utah, and Wasatch Counties, Utah. Miscellaneous Investigations Series Map I-1981, scale 1:100,000. Salt Lake City, Utah: Utah Geological Survey.

9.2.11 Land Use and Recreation

- Bureau of Land Management (BLM). 1990. Record of Decision for the Pony Express Resource Management Plan and Rangeland Program Summary for Utah County. Salt Lake District Office. Salt Lake City, UT. Prepared by United States Department of the Interior, Bureau of Land Management.
- Bureau of Land Management (BLM). 2008a. Price Field Office Record of Decision and Approved Resource Management Plan. BLM-UT-PL-09-005-1610. UT-070-2002-11. Price Field Office. Price, UT. Prepared by United States Department of the Interior, Bureau of Land Management.
- Bureau of Land Management (BLM). 2008b. Vernal Field Office Record of Decision and Approved Resource Management Plan. BLM-UT-PL-09-003-1610. UT-080-2005-71. Vernal Field Office. Vernal, UT. Prepared by United States Department of the Interior, Bureau of Land Management.
- Bureau of Land Management (BLM). 2013. Programmatic Environmental Impact Statement for Oil Shale and Tar Sands. April 2013.
- Bureau of Land Management (BLM). 2020a. BLM Utah Interactive Map. Last revised: 2020. Available: <https://blm-egis.maps.arcgis.com/apps/webappviewer/index.html?id=6be0174d44f04f1c853197cadcfa89f0>. Accessed: February 10, 2020.
- Bureau of Land Management (BLM). 2020b. Rangeland Administration System Reports. Available: <https://reports.blm.gov/reports/RAS/>. Accessed: April 17, 2020.
- Bureau of Land Management (BLM). 2020c. Oil and Gas Leases. Available: <https://www.blm.gov/services/geospatial/GISData/utah>. Accessed: March 27, 2020.
- Bureau of Land Management (BLM). 2020d. Adjacent ROWs. Personnel communication between Mary Higgins (BLM) and Josh Wayland (OEA) regarding BLM rights-of-way.

- Carbon County. 1997. Carbon County Master Plan. October 1997. Prepared by Bear West Co.
- Carbon County. 2010. Carbon County Natural Resource Use and Management Plan Amending the Carbon County Master Plan. February 2, 2010.
- Duchesne County. 2012. Duchesne County Zoning Ordinance. Last updated by ordinance 12-297 passed February 27, 2012. Duchesne County, Utah. Available: http://sterlingcodifiers.com/codebook/index.php?book_id=861. Accessed: February 14, 2020.
- Duchesne County. 2017. Duchesne County, General Plan: County Policies, Objectives and Action Steps. Spring 1997, Amended Winter 1998, Winter 2005, June 2007, April 2012, August 2013, and July 2017.
- Federal Railroad Administration (FRA). 2005. High-Speed Ground Transportation Noise and Vibration Impact Assessment. Final Report. HMMH Report No. 293630-4. October. U.S. Department of Transportation. Washington, DC. Prepared by Harris Miller & Hanson Inc.
- Remund-Kaminski, Sandra. Forest Service. August 17, 2020—Personal communication with Alex Bartlett, ICF.
- School and Institutional Trust Lands Administration (SITLA). 2020. UT SITLA Ownership Land Ownership Dataset. Available: <https://data-sitla.opendata.arcgis.com/datasets/ut-sitla-ownership-landownership>. Accessed: September 5, 2020.
- State of Utah. 2020. Utah Automated Geographic Reference Center. Available: <https://gis.utah.gov/data/planning/>. Accessed: February 14, 2020.
- Uintah County. 2005. Uintah County Code of Ordinances: Title 17: Zoning. 2005. Available: <http://library.municode.com/index.aspx?clientId=16079&stateID=44&statename=Utah>. Accessed: February 14, 2020.
- [Uintah County. 2005. Uintah County General Plan. Last amended: February 27, 2012. Available: \[http://co.uitah.ut.us/document_center/CommunityDevelopment/General Plan for Uintah County 2012.pdf\]\(http://co.uitah.ut.us/document_center/CommunityDevelopment/GeneralPlanforUintahCounty2012.pdf\). Accessed: February 26, 2020.](http://co.uitah.ut.us/document_center/CommunityDevelopment/GeneralPlanforUintahCounty2012.pdf)
- Uintah County. 2011. Uintah County Land Use Plan. Uintah County, Utah. Prepared by Berg Engineering and Uintah County. Amended 2011.
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS). 2018. Farmland Class. Gridded Soil Survey Geographic (gSSURGO) Database for Utah. Published September 15, 2018. Available: <http://datagateway.nrcs.usda.gov/>. Accessed: June 4, 2020.
- U.S. Geological Survey (USGS). 2011. Gap Analysis Program, May 2011. National Land Cover, Version 2.
- [U.S. Forest Service \(Forest Service\). 1979. Final Environmental Statement, Roadless Area Review and Evaluation \(RARE II\). U.S. Department of Agriculture, Forest Service FS-325. Available: \[https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5116928.pdf\]\(https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5116928.pdf\). Accessed: June 23, 2021.](https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5116928.pdf)

- U.S. Forest Service (Forest Service). 1986. Land Resource Management Plan for the Ashley National Forest. Available:
<https://www.fs.usda.gov/detail/ashley/landmanagement/planning/?cid=stelprdb5277265>.
Accessed: February 12, 2020.
- U.S. Forest Service (Forest Service). 2000. Forest Service Roadless Area Conservation. Final Environmental Impact Statement – Volume 3 – Agency Responses to Public Comments. November. United States Department of Agriculture, Forest Service, Washington Office.
- U.S. Forest Service (Forest Service). 2020a. Livestock Grazing Allotments. Available:
<https://data.fs.usda.gov/geodata/edw/datasets.php?xmlKeyword=Range>. Accessed: February 11, 2020.
- U.S. Forest Service (Forest Service). 2020b. Ashley National Forest Recreational Opportunities. Available: <https://www.fs.usda.gov/recmain/ashley/recreation>. Accessed: February 13, 2020.
- U.S. Forest Service (Forest Service). 2020c. Avintaquin Campground. Available:
<https://www.fs.usda.gov/recarea/ashley/recarea/?recid=72171>.
- [U.S. Forest Service \(Forest Service\). 2021. Uintah Railroad Inventoried Roadless Area Report. Prepared by Ryan Buerkle, Recreation, Cultural Resources, and Lands Staff Officer. Prepared for Ashley National Forest. July 22, 2021.](#)
- [Utah County. 2007. Utah County General Plan. Prepared by the Utah County Community Development Department and recommended by the Utah County Planning Commission. Adopted by The County Legislative Body of Utah County, Utah on October 17, 2006 by Ordinance No. 2006—33. Amended: March 20, 2007 by Ordinance No. 2007-08.](#)
- Utah County. 2011. Utah County Land Use Ordinance. Amended in book form in accordance with Utah County Ordinance Nos. 2011-9 and 2011-10 Published: May 7, 2011.
- [Utah County. 2014. Utah County General Plan. Adopted: October 17, 2006. Last amended: December 2, 2014. Provo, UT.](#)
- Utah Department of Natural Resources. 2018. Water Related Land Use. Published November 1, 2018. Available: <https://gis.utah.gov/data/planning/water-related-land/>. Accessed: February 18, 2020.
- Utah Department of Natural Resources and the Utah Division of Parks and Recreation. 2019. Utah’s Outdoor Recreation Plan—2019. Utah’s Statewide Comprehensive Outdoor Recreation Plan 2019–2023. Available: <https://site.utah.gov/stateparks/wp-content/uploads/sites/13/2019/01/UtahsOutdoorRecreationPlanSCORP2019.pdf>. Accessed: February 14, 2020.
- Utah Division of Indian Affairs. 2019. Ute Indian Tribe of the Uintah and Ouray Reservation. Last updated 2019. Available: <https://indian.utah.gov/ute-indian-tribe-of-the-uintah-ouray-reservation/>. Accessed: July 28, 2020.
- Utah Division of Parks and Recreation. 2016. Land and Water Conservation Grant Program. Available: <https://stateparks.utah.gov/resources/grants/land-and-water-conservation-fund/>. Accessed: March 5, 2020.

Utah Division of Wildlife Resources (UDWR). 2020. Cooperative Wildlife Management Units. Available: <https://wildlife.utah.gov/cwmu.html>. Accessed: April 16, 2020.

Ute Indian Tribe. 2013. About the Utes. Published June 25, 2013. Available: <http://www.utetribe.com/>. Accessed: July 28, 2020.

9.2.12 Visual Resources

Bacon, Warren R. 1979. The visual management system of the Forest Service, USDA. In: Elsner, Gary H., and Richard C. Smardon, technical coordinators. 1979. Proceedings of our national landscape: a conference on applied techniques for analysis and management of the visual resource [Incline Village, Nev., April 23-25, 1979]. Available: https://www.fs.fed.us/psw/publications/documents/psw_gtr035/psw_gtr035_15_bacon.pdf.

~~[Bureau of Land Management \(BLM\). 1986. Manual H-8410-1 Visual Resource Inventory. Release 8-28. January 17, 1986.](#)~~

Bureau of Land Management (BLM). 2008. Vernal Field Office – Record of Decision and Approved Resource Management Plan. October 2008. Vernal, UT.

~~[Carbon County. 1997. Carbon County Master Plan. Adopted: October 1, 1997. Price, UT.](#)~~

~~[Duchesne County. 2019. Duchesne County General Plan: County Policies, Objectives, Action Steps & Resource Management Plan. Adopted: Spring 1997. Last amended: November 18, 2019. Duchesne, UT.](#)~~

Federal Highway Administration (FHWA). 2015. Guidelines for the Visual Impact Assessment of Highway Projects. (FHWA-HEP-15-029.) USDOT (US Department of Transportation). Washington, DC. January 2015.

Litton, R. Burton, Jr. 1968. Forest Landscape Description and Inventories – A Basis for Land Planning and Design. (U.S. Department of Agriculture Forest Service Research Paper PSW-49) Pacific Southwest Forest and Range Experiment Station. Berkeley, CA. 1968.

~~[Uintah County. 2012. Uintah County General Plan. Adopted: 2005. Last amended: February 27, 2012. Vernal, UT.](#)~~

U.S. Forest Service (Forest Service). 2017a. Ashley National Forest Land Management Plan. Adopted: 1986. Last Amended: August 2017. Ashley National Forest. Nevada City, CA.

U.S. Forest Service (Forest Service). 2017b. Ashley National Forest Assessment, Scenery Report. May 2017. Ashley National Forest. Nevada City, CA. Available: https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd548542.pdf.

~~[Utah County. 2014. Utah County General Plan. Adopted: October 17, 2006. Last amended: December 2, 2014. Provo, UT.](#)~~

9.2.13 Socioeconomics

Carbon County. 2020. Parcels Layer. Carbon County GIS Data Download. Available: <https://www.carbon.utah.gov/Services/GIS/Download-Data>. Accessed: March 31, 2020.

- Carbon County School District. 2020. Carbon School District Boundaries. Available: <https://maps.carbon.utah.gov/CarbonSchoolDistrictBoundaries/?extent=-12452240.7731%2C4743730.5054%2C-12158722.5845%2C4882693.0228%2C102100>. Accessed: February 12, 2020.
- [Duchesne County. 2017. General Plan and Resource Management Plan. Available: https://www.duchesne.utah.gov/wp-content/uploads/2017/06/General-Plan-June-2017-Draft.pdf. Accessed: April 26, 2021.](https://www.duchesne.utah.gov/wp-content/uploads/2017/06/General-Plan-June-2017-Draft.pdf)
- Duchesne County. 2019. Duchesne County Sherriff. Available: <https://www.duchesne.utah.gov/your-government-2/elected-officials/sheriff/>. Accessed: February 24, 2020.
- Duchesne County. 2020a. Volunteer Firefighter Service. Available: <https://www.duchesne.utah.gov/county-services/public-safety/volunteer-firefighter-service/>. Accessed: February 12, 2020.
- Duchesne County. 2020b. Duchesne County Parcels. Received by email from Sunrise Engineering on April 3, 2020.
- [Duchesne County. 2021. Comment Number UBR-DEIS-00436-40 from Mike Hyde, AICP Community Development Director. Received January 25, 2021.](#)
- Duchesne County School District. 2020. Schools. Available: <http://www.dcsd.org/schools>. Accessed: February 12, 2020.
- Firedepartment.net. 2020. Carbon County, UT Fire Departments. Available: <https://www.firedepartment.net/directory/utah/carbon-county>. Accessed: February 12, 2020.
- ICF. 2020. Review and Compilation of Temporary Accommodations within Commuting Distance of the Action Alternatives. Table generated by ICF from various sources cited.
- Seven County Infrastructure Coalition (Coalition). 2019. Uinta Basin Railway Project - Response to Information Request No 3.
- [State of Utah. 2018. Resource Management Plan. Available: https://rmp.utah.gov/wp-content/uploads/SRMP_Web.pdf. Accessed: April 26, 2021.](https://rmp.utah.gov/wp-content/uploads/SRMP_Web.pdf)
- State of Utah School and Institutional Trust Lands Administration (SITLA). 2020. Available: <https://trustlands.utah.gov/our-agency/sitla-and-trust-lands-explained>. Accessed: May 18, 2020.
- [Uintah County. 2017. Resource Management Plan. Available: https://rmp.utah.gov/wp-content/uploads/Uintah-CRMP-w-Appendix.pdf. Accessed: April 26, 2021.](https://rmp.utah.gov/wp-content/uploads/Uintah-CRMP-w-Appendix.pdf)
- Uintah County Fire District. 2020. Fire Departments. Available: <https://www.uintahfire.com/index.php?page=dept>. Accessed: February 12, 2020.
- [Uintah County School District. 2020. Schools. Available: http://uintah.ss12.sharpschool.com/schools. Accessed: February 12, 2020.](http://uintah.ss12.sharpschool.com/schools)
- U.S. Census Bureau. 2012. Utah: 2010 Population and Housing Unit Counts. Available: <https://www.census.gov/prod/cen2010/cph-2-46.pdf>. Accessed: February 17, 2020.

- U.S. Census Bureau. 2017a. Housing Units, Tenure, and Vacancy Status. American Community Survey 5-Year Estimates (2013 to 2017), Tables B25001, B25003, and B25004. TIGER/Line Shapefile, 2017, state, Utah, Current Block Group State-based. Available: http://www2.census.gov/geo/tiger/TIGER2017/BG/tl_2017_49_bg.zip. Accessed: December 31, 2019.
- U.S. Census Bureau. 2017b. Total Population. American Community Survey 5-Year Estimates (2013 to 2017), Table B01002. TIGER/Line Shapefile, 2017, state, Utah, Current Block Group State-based. Available: http://www2.census.gov/geo/tiger/TIGER2017/BG/tl_2017_49_bg.zip. Accessed: December 31, 2019.
- U.S. Census Bureau. 2017c. Employment Status for the Population 16 Years and Over in the Civilian Labor Force. American Community Survey 5-Year Estimates (2013 to 2017), Table B23025. TIGER/Line Shapefile, 2017, state, Utah, Current Block Group State-based. Available: http://www2.census.gov/geo/tiger/TIGER2017/BG/tl_2017_49_bg.zip. Accessed: December 31, 2019.
- U.S. Census Bureau. 2017d. Employment by Industry for the Civilian Employed Population 16 Years and Over. American Community Survey 5-Year Estimates (2013 to 2017), Table C24030. TIGER/Line Shapefile, 2017, state, Utah, Current Block Group State-based. Available: http://www2.census.gov/geo/tiger/TIGER2017/BG/tl_2017_49_bg.zip. Accessed: December 31, 2019.
- U.S. Census Bureau. 2017e. Industry by Median Earnings in the Past 12 Months (in 2017 Inflation-Adjusted Dollars) for the Civilian Employed Population 16 Years and Over. American Community Survey 5-Year Estimates (2013 to 2017), Table B24031. TIGER/Line Shapefile, 2017, state, Utah, Current Block Group State-based. Available: http://www2.census.gov/geo/tiger/TIGER2017/BG/tl_2017_49_bg.zip. Accessed: December 31, 2019.
- U.S. Department of Agriculture. 2017a. National Agricultural Statistics Service. County Profiles for Utah, Carbon, Duchesne, and Uintah Counties. Available: <https://quickstats.nass.usda.gov/>. Accessed: February 19, 2020.
- [U.S. Department of Agriculture. 2017b. 2017 Utah Agriculture Statistics and Utah Department of Agriculture and Food Annual Report.](#)
- Utah County. 2020. Tax Parcels. Utah County GIS Data Layers. Available: <http://www.utahcounty.gov/OnlineServices/maps/DataLayers.asp>. Accessed: February 13, 2020.
- Utah Department of Education. 2020. Student-Teacher Ratios Fiscal Year 2018-2019. Available: <https://www.schools.utah.gov/file/f583d23a-9bb1-427e-8144-e32a09122646>. Accessed: September 15, 2020.
- Utah State Tax Commission. 2020. Utah Sales and Use Tax Rates. Available: <https://tax.utah.gov/sales/rates>. Accessed: February 17, 2020.
- Ute Indian Tribe. 2020. Emergency Phone Numbers. Available: <http://www.utetribe.com/emergency-phone-numbers.html>. Accessed: July 29, 2020.

9.2.14 Environmental Justice

[Carbon County. 2020. Parcels Layer. Carbon County GIS Data Download. Available: https://www.carbon.utah.gov/Services/GIS/Download-Data. Accessed: March 31, 2020.](https://www.carbon.utah.gov/Services/GIS/Download-Data)

[Duchesne County. 2020. Duchesne County Parcels. Received by email from Sunrise Engineering on April 3, 2020.](#)

U.S. Census Bureau. 2017. Total Population. American Community Survey 5-Year Estimates (2013 to 2017), Table B01002. TIGER/Line Shapefile, 2017, state, Utah, Current Block Group State-based. Available: http://www2.census.gov/geo/tiger/TIGER2017/BG/tl_2017_49_bg.zip. Accessed: December 31, 2019.

[U.S. Fish and Wildlife Service \(USFWS\). 2011. Sclerocactus Core 1 and Core 2 conservation area GIS data.](#)

[U.S. Fish and Wildlife Service \(USFWS\). 2019. Pariette Cactus \(Sclerocactus brevispinus\) and Uinta Basin Hookless Cactus \(Sclerocactus wetlandicus\) Suitable habitat GIS data.](#)

[Utah County. 2020. Tax Parcels. Utah County GIS Data Layers. Available: http://www.utahcounty.gov/OnlineServices/maps/DataLayers.asp. Accessed: February 13, 2020.](http://www.utahcounty.gov/OnlineServices/maps/DataLayers.asp)

9.2.15 Cumulative Impacts

Bureau of Land Management (BLM). 2014. Utah Air Resource Management Strategy Modeling Project Impact Assessment Report. Available: https://www.blm.gov/sites/blm.gov/files/program_natural%20resources_soil%20air%20water_airut_quick%20links_ImpactsRpt.pdf. Accessed: December 26, 2019.

[Bureau of Land Management \(BLM\). 2015. Utah-Greater Sage-Grouse Approved Resource Management Plan Amendment. Available: https://eplanning.blm.gov/epl-front-office/projects/lup/68351/87600/104856/Utah_ARMPA.pdf. Accessed: May 15, 2020.](https://eplanning.blm.gov/epl-front-office/projects/lup/68351/87600/104856/Utah_ARMPA.pdf)

Bureau of Land Management (BLM). 2016. Final Environmental Impact Statement for Newfield Exploration Corporation Monument Butte Oil and Gas Development Project in Uintah and Duchesne Counties, Utah. UT-G010-2009-0217. Vernal Field Office, Vernal. UT. Available: https://eplanning.blm.gov/epl-front-office/projects/nepa/62904/75396/83267/FEIS_3_Appendix_A_-_Appendix_K.pdf. Accessed: February 18, 2020.

Council on Environmental Quality (CEQ). 1997. Considering Cumulative Effects Under the National Environmental Policy Act. January. Available: https://ceq.doe.gov/publications/cumulative_effects.html. Accessed: April 29, 2020.

[Gibson, D., E.I. Blomberg, M.T. Atamian, S.P. Espinosa, J.S. Sedinger. 2018. Effects of Power Lines on Habitat Use and Demography of Greater Sage-Grouse. *Wildlife Monographs*. 200:1-41. Available: https://wgfd.wyo.gov/WGFD/media/content/PDF/Habitat/Sage%20Grouse/Gibson et al-2018-Wildlife Monographs Powerline-impacts.pdf. Accessed: June 17, 2021.](https://wgfd.wyo.gov/WGFD/media/content/PDF/Habitat/Sage%20Grouse/Gibson%20et%20al-2018-Wildlife%20Monographs%20Powerline-impacts.pdf)

[Intergovernmental Panel on Climate Change \(IPCC\). 2014. Climate Change Synthesis Report. Available: https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_full.pdf](https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_full.pdf)
[Accessed: July 17, 2020.](#)

Natural Resources Conservation Service, Utah. 2020. Duchesne County Watershed Plan. Available: <https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ut/programs/planning/wpfp/?cid=nrcsep rd1497629>. Accessed: April 29, 2020.

Opendatasoft. 2019. Crude Oil Rail Terminals. Available: <https://public.opendatasoft.com/explore/dataset/crude-oil-rail-terminals/table/>. Accessed: December 9, 2019.

Rocky Mountain Power. 2020. Gateway South Transmission Project Industrial Siting Permit Application filed July 28, 2020. Available: <http://deq.wyoming.gov/isd/application-permits/resources/gateway-south-transmission-project/>. Accessed: August 6, 2020.

[Sawyer, H., M.S. Lambert, and J.A. Merkle. 2020. Migratory Disturbance Thresholds with Mule Deer and Energy Development. *The Journal of Wildlife Management* 84\(5\): 930–937.](#)

[Seven County Infrastructure Coalition \(Coalition\). 2020a. Biological Resources Baseline Environment Technical Memorandum. April 3.](#)

[State of Utah. 2019. Utah Conservation Plan for Greater Sage-Grouse. January. Available: https://wildlife.utah.gov/sage-grouse/Utah_Greater_Sage-grouse_Plan.pdf. Accessed: February 25, 2020.](#)

U.S. Environmental Protection Agency (USEPA). 2020. Summary of Input on Oil and Gas Extraction Wastewater Management Practices Under the Clean Water Act. EPA-821-S19-001. Engineering and Analysis Division, Office of Water. May. Washington, D.C.

U.S. Fish and Wildlife Service (USFWS). 2009. Managing Invasive Plants: Concepts, Principles, and Practices. Available: <https://www.fws.gov/invasives/staffTrainingModule/methods/grazing/impacts.html>. Accessed: September 1, 2020.

U.S. Forest Service (Forest Service). 2000. Rocky Mountain Region. Screening Methodology for Calculating ANC Change to High Elevation Lakes. December 2000. Available: http://www.fs.fed.us/air/documents/anc_scre.pdf. Accessed: May 5, 2020.

U.S. Forest Service (Forest Service). 2017a. Ashley National Forest Land Management Plan. Adopted: 1986. Last Amended: August 2017. Ashley National Forest. Nevada City, CA.

U.S. Forest Service (Forest Service). 2017b. Ashley National Forest Assessment, Scenery Report. May 2017. Ashley National Forest. Nevada City, CA. Available: https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fseprd548542.pdf.

[U.S. Forest Service \(Forest Service\). 2020a. Wildfire Hazard Potential for the United States, version 2020 \(270m\). 3rd Edition. Fort Collins, CO: Forest Service Research Data Archive. Available: https://www.firelab.org/project/wildfire-hazard-potential. Accessed: April 2, 2021.](#)

Utah Department of Environmental Quality (DEQ). 2015. Approval Order: New Oil Transloading Facility. Division of Air Quality. Permit number DAQE-AN148620001-15.

Utah Division of Oil, Gas, and Mining (UDOGM). 2020. Live Data Search – Online Oil and Gas Information System. Available: <https://oilgas.ogm.utah.gov/oilgasweb/live-data-search/lds-main.xhtml>. Accessed: October 9, 2020.

[Utah Division of Wildlife Resources \(UDWR\). 2015. Utah Statewide Elk Management Plan. Available: https://wildlife.utah.gov/pdf/bg/elk_plan.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/elk_plan.pdf)

[Utah Division of Wildlife Resources \(UDWR\). 2017a. Utah Moose State Management Plan. Available: https://wildlife.utah.gov/pdf/bg/moose_plan.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/moose_plan.pdf)

[Utah Division of Wildlife Resources \(UDWR\). 2017b. Utah Pronghorn Statewide Management Plan. Available: https://wildlife.utah.gov/pdf/bg/pronghorn_plan.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/pronghorn_plan.pdf)

[Utah Division of Wildlife Resources \(UDWR\). 2018. Utah Bighorn Sheep Statewide Management Plan. Available: https://wildlife.utah.gov/pdf/bg/bighorn-plan.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/bighorn-plan.pdf)

[Utah Division of Wildlife Resources \(UDWR\). 2019b. Index of Available GIS Data. Available: https://dwrcdc.nr.utah.gov/ucdc/DownloadGIS/disclaim.htm.](https://dwrcdc.nr.utah.gov/ucdc/DownloadGIS/disclaim.htm)

[Utah Division of Wildlife Resources \(UDWR\). 2019d. Utah Mule Deer Statewide Management Plan. Available: https://wildlife.utah.gov/pdf/bg/mule_deer_plan_2019.pdf. Accessed: April 9, 2021.](https://wildlife.utah.gov/pdf/bg/mule_deer_plan_2019.pdf)

[Utah Division of Wildlife Resources \(UDWR\). 2021. Utah Division of Wildlife Resources Index of Available GIS data: UDWR Hunt Boundaries. Available: https://dwrcdc.nr.utah.gov/ucdc/DownloadGIS/disclaim.htm. Accessed: April 9, 2021.](https://dwrcdc.nr.utah.gov/ucdc/DownloadGIS/disclaim.htm)

Utah Geological Survey (UGS). 2017. Produced Water in the Uinta Basin, Utah: Evaluation of Reservoirs, Water Storage Aquifers, and Management Options. Bulletin 138.

Utah Geological Survey (UGS). 2018. Oil and Gas in the Uinta Basin, Utah – What To Do with the Produced Water. Available: <https://geology.utah.gov/map-pub/survey-notes/uinta-basin-produced-water/>. Accessed: June 20, 2020.

Utah Geological Survey (UGS). 2019. The Basin that Keeps on Giving: The Successes and Challenges of Horizontal Drilling in the Uinta Basin, Utah.

Vanden Berg, Michael. Energy and Minerals Program Manager, Senior Geologist. Utah Geological Survey. October 2, 2020—Email to Joshua Wayland, Surface Transportation Board, Office of Environmental Analysis.

9.3 Mitigation

U.S. Fish and Wildlife Service (USFWS). 2007. National Bald Eagle Management Guidelines. May. Available: <https://www.fws.gov/southdakotafieldoffice/NationalBaldEagleManagementGuidelines.pdf>. Accessed: April 2, 2020.

U.S. Fish and Wildlife Service (USFWS). 2018. Recommended Best Practices for Communication Tower Design, Siting, Construction, Operation, Maintenance, and Decommissioning. Migratory Bird Program. Falls Church, Virginia. April.

U.S. Occupational Safety & Health Administration (OSHA). 2003. Underground Construction (Tunneling). Available: <https://www.osha.gov/Publications/osha3115.html>. Accessed: July 15, 2020.

Utah Department of Transportation (UDOT). 2020. Roadway Design Manual. Available: <https://drive.google.com/file/d/1tz6gCuriPX0mfr6FeTZ6k7AmbNu3Iikh/view>. Accessed: April 6, 2020.