

Appendix E: References

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E-1 References

This appendix compiles several “references” lists or lookup tables. First is provided a listing of reference materials relevant to the REA (Table E - 1), including published papers, reports, theses, dissertations, and other documents. Many of them have URLs referenced within the citation.

Other sections of the appendix provide a short section of useful URLs for websites, but this is not comprehensive by any means. This appendix also has the project glossary (Table E - 2) and list of acronyms (Table E - 3).

One request from AMT members was for a cross-walk of the scientific names used for plant species in the terrestrial coarse-filter conceptual models; Table E - 4 provides this list, with the taxonomic standard NatureServe uses in our descriptive materials, the common name for the plants, and the name used in the NRCS PLANTS database. The sort order is alphabetical by scientific name.

The last section of this appendix is the list of management questions addressed in the REA, both those initially proposed by BLM and the AMT, and those answered by the assessments. Also provided are comments relevant to why the MQ was not answered, the original MQ, and the final MQ. These are provided in Table E - 5.

E-1.1 Master Reference List

Below are provided full citations for many reports, published papers and gray literature that is relevant to this REA. Many of these have been cited in either the report chapters or one of the appendices. Many others have not and are provided for reference. PDFs are not necessarily provided for all them, although many were delivered to BLM in PDF format. Many of them are copyrighted material, and hence cannot be wholesale provided. They are sorted alphabetically by the first author's last name. In addition a “short citation” is provided for many of them which cross-references to the text citations of these references.

Table E - 1. Citations for references used in the REA.

Full Citation	Short Citation (used in text)
Abatzoglou, J. T., and C. A. Kolden. 2011. Climate change in western U.S. deserts: Potential for increased wildfire and invasive annual grasses. <i>Rangeland Ecology and Management</i> 64:471-478.	Abatzoglou and Kolden 2011
Abbott, M.L. 2005. Atmospheric Mercury Concentrations Near Salmon Falls Creek Reservoir – Phase 1. Idaho National Laboratory Report INL/EXT-05-00767, October 2005.	
Abele, S. L., editor. 2011. Nevada Springs Conservation Plan. Springs Conservation Plan Working Group, The Nature Conservancy, Reno, NV.	Abele 2011
Adams, J. C., and S. F. McCool. 2009. Finite recreation opportunities: The Forest Service, the Bureau of Land Management, and off-road vehicle management. <i>Natural Resources Journal</i> 49:45-116.	Adams and McCool 2009
ADoT [Arizona Department of Transportation]. 2010. Natural Resources Management Group priority weed list. [http://www.azdot.gov/Highways/Natural_Resources/PriorityWeedList.asp] (accessed 8-26-2010).	ADoT 2010

ADWR [Arizona Department of Water Resources]. 2009. Arizona Water Atlas, Volume 7, Lower Colorado River Planning Area. Arizona Department of Water Resources, November 2009.	ADWR 2009
Agee, J. K. 1998. The landscape ecology of western fire regimes. <i>Northwest Science</i> 72(4):24-34.	Agee 1998
AGFD [Arizona Game and Fish Department]. 2006. Arizona's comprehensive wildlife conservation strategy: 2005-2015. Draft report. Arizona Game and Fish Department, Phoenix, AZ.	AGFD 2006
Aldridge, C.L., S. E. Nielsen, H. L. Beyer, M. S. Boyce, J.W. Connelly, S. T. Knick, and M. A. Schroeder. 2008. Range-wide patterns of greater sage-grouse persistence. <i>Diversity and Distribution</i> 14:983-994.	Aldridge et al. 2008
Allan, J. D. 2004. Landscape and riverscapes: The influence of land use on stream ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> 35:257-284.	Allan 2004
Allen, E.B. L.E. Rao, G. Tonnesen, M.E. Fenn, and A. Bytnerowicz. 2009a. Empirical and Modeling Approaches to Setting Critical Loads for N Deposition in Southern California Shrublands. Poster Presentation, American Geophysical Union, Fall 2009 Workshop: Nitrogen Deposition, Critical Loads and Biodiversity, Edinburgh, Scotland, UK - 16-18 November, 2009. Online: http://ontality.com/fileadmin/user_upload/2009_edinburgh/ .	
Allen, E.B., L.E. Rao, R.J. Steers, A. Bytnerowicz, and M.E. Fenn. 2009b. Impacts of atmospheric nitrogen deposition on vegetation and soils in Joshua Tree National Park. In: R.H. Webb, L.F. Fenstermaker, J.S. Heaton, D.L. Hughson, E.V. McDonald, and D.M. Miller, editors, <i>The Mojave Desert: Ecosystem Processes and Sustainability</i> . University of Nevada Press, Las Vegas.	
Anderson, L. E. 1990. A checklist of <i>Sphagnum</i> in North America north of Mexico. <i>The Bryologist</i> 93:500-501.	
Anderson, L. E., H. A. Crum, and W. R. Buck. 1990. List of mosses of North America north of Mexico. <i>The Bryologist</i> 93:448-499.	
Anderson, M. D. 2001. <i>Coleogyne ramosissima</i> . In: Fire Effects Information System [Online]. USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). [http://www.fs.fed.us/database/feis/] (accessed 2 January 2011).	Anderson 2001
Anderson, R. A. 1994. Functional and population responses of the lizard <i>Cnemidophorus tigris</i> to environmental conditions. <i>American Zoologist</i> 34:409-421.	Anderson 1994
Anning, D. W., S. A. Thiros, L. M. Bexfield, T. S. McKinney, and J. M. Green. 2009. Southwest principal aquifers regional ground-water quality assessment. USDI U.S. Geological Survey Fact Sheet 2009-3015 March 2009. [http://water.usgs.gov/nawqa/studies/praq/swpa]	Anning et al. 2009
ANSTF [Aquatic Nuisance Species Task Force]. 2011. Aquatic Nuisance Species Task Force documents. [http://anstaskforce.gov/documents.php] (Accessed 1 February 2011).	ANSTF 2011
Apitz, S. E., J. W. Davis, K. Finkelstein, D. W. Hohreiter, R. Hoke, R. H. Jensen, J. Jersak, V. J. Kirtay, E. E. Mack, V. S. Magar, D. Moore, D. Reible, and R. G. Stahl, Jr. 2005. Assessing and managing contaminated sediments: Part II, Evaluating risk and monitoring sediment remedy effectiveness. <i>Integrated Environmental Assessment and Management</i> 1(1):1-14.	Apitz et al. 2005

Archer, S. A., and K. I. Predick. 2008. Climate change and ecosystems of the Southwestern United States. <i>Rangelands</i> 30(3):23-38.	Archer and Predick 2008
Arredondo, J. T., T. A. Jones, and D. A. Johnson. 1998. Seedling growth of Intermountain perennial and weedy annual grasses. <i>Journal of Range Management</i> 51(5):584-589.	Arredondo et al. 1998
Artz, M. C. 1989. Impacts of linear corridors on perennial vegetation in the East Mojave Desert: Implications for environmental management and planning. <i>Natural Areas Journal</i> 9:117-129.	Artz 1989
Ashton, I. W., L. A. Hyatt, K. M. Howe, J. Gurevitch, and M. T. Lerdau. 2005. Invasive species accelerate decomposition and litter nitrogen loss in a mixed deciduous forest. <i>Ecological Applications</i> 15(4):1263-1272.	
AWS Truewind & NREL [AWS Truewind & National Renewable Energy Laboratory]. 2003. Predicted mean annual wind speeds at 50-m height. AWS Truewind & National Renewable Energy Laboratory. http://www.windpoweringamerica.gov/index.asp	
AWS Truewind & NREL [AWS Truewind & National Renewable Energy Laboratory]. 2009. Predicted mean annual wind speeds at 80-m height. AWS Truewind & National Renewable Energy Laboratory. [http://www.windpoweringamerica.gov/index.asp]	AWS Truewind & NREL 2009
AZ-WIPWG [Arizona Wildlands Invasive Plant Working Group]. 2010. Arizona wildlands invasive plants. [http://sbsc.wr.usgs.gov/research/projects/swepic/SWVMA/sbscmain.asp] (accessed on 8-26-2010).	AZ-WIPWG 2010
Ballinger, R. E. 1977. Reproductive strategies: Food availability as a source of proximal variation in a lizard. <i>Ecology</i> 58:628-635.	Ballinger 1977
Ballinger, R. E. 1984. Survivorship of the tree lizard, <i>Urosaurus ornatus linearis</i> , in New Mexico. <i>Journal of Herpetology</i> 18:480-481.	Ballinger 1984
Banta, B. H. 1961. Herbivorous feeding of <i>Phrynosoma platyrhinos</i> in southern Nevada. <i>Herpetologica</i> 17:136-137.	Banta 1961
Barbour, M. G., and J. Major, editors. 1977. <i>Terrestrial vegetation of California</i> . John Wiley and Sons, New York. 1002 pp.	Barbour and Major 1977
Barbour, M. G., and W. D. Billings, editors. 1988. <i>North American terrestrial vegetation</i> . Cambridge University Press, New York. 434 pp.	Barbour and Billings 1988
Barbour, M. G., T. Keeler-Wolf, and A. A. Schoenherr, editors. 2007. <i>Terrestrial vegetation of California</i> . Third edition. University of California Press, Berkeley.	Barbour et al. 2007
Barney, J. N., and T. H. Whitlow. 2008. A unifying framework for biological invasions: The state factor model. <i>Biological Invasions</i> 10:259-272.	Barney and Whitlow 2008
Baron, J. S. 2006. Hindcasting nitrogen deposition to determine an ecological critical load. <i>Ecological Applications</i> 16(2):433-439.	
Baron, J. S., H. M. Rueth, and A. M. Wolfe. 2000. Ecosystem responses to nitrogen deposition in the Colorado Front Range. <i>Ecosystems</i> 3:352-368. DOI 10.1007/s100210000032.	
Barrios, L., and A. Rodriguez. 2004. Behavioural and environmental correlates of soaring-bird mortality at on-shore wind turbines. <i>Journal of Applied Ecology</i> 41:72-81.	Barrios and Rodriguez 2004
Bateman, H. L., A. Chung-MacCoubrey, and H. L. Snell. 2008. Impact of non-native plant removal on lizards in riparian habitats in the southwestern United States. <i>Restoration Ecology</i> 16(1):180-190.	

Bates, J. W., and M. O. Moretti. 1994. Golden eagle (<i>Aquila chrysaetos</i>) population ecology in eastern Utah. <i>Great Basin Naturalist</i> 54(3):248-255.	Bates and Moretti 1994
Bauman, J. 2004. Is Dugway's expansion an alien concept? <i>Deseret News</i> , Salt Lake City, UT. [http://www.deseretnews.com/article/1,5143,595102911,00.html?pg=3] (accessed Nov. 4, 2004).	Bauman 2004
Beamish, R. 2009. Desert clash in West over solar potential, water. <i>U.S. News & World Report</i> . April 18, 2009.	Beamish 2009
Beatley, J. C. 1966. Ecological status of introduced brome grasses (<i>Bromus</i> spp.) in desert vegetation of southern Nevada. <i>Ecology</i> 47(4):548-554.	Beatley 1966
Beatley, J. C. 1976. Vascular plants of the Nevada Test Site and central-southern Nevada: Ecological and geographic distributions. Technical Information Center, Energy Research and Development Administration. TID-26881. Prepared for Division of Biomedical and Environmental Research. 297 pp.	Beatley 1976
Beaumont, L. J., A. Pitman, M. Poulsen, and L. Hughes. 2007. Where will species go? Incorporating new advances in climate modeling into projections of species distributions. <i>Global Change Biology</i> 13:1368-1385.	Beaumont et al. 2007
Beever, E. A., and P. F. Brussard. 2000. Examining ecological consequences of feral horse grazing using exclosures. <i>Great Basin Naturalist</i> 60(3):236-254.	Beever and Brussard 2000
Belnap, J., J. H. Kaltenecker, R. Rosentreter, J. Williams, S. Leonard, and D. Eldridge. 2001. Biological soil crusts: Ecology and management. In: P. Peterson, editor. January 2001. USDI Bureau of Land Management, U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center, Denver, CO. Technical Reference 1730-2.	Belnap et al. 2001
Belsky, A. J., A. Matzke, and S. Uselman. 1999. Survey of livestock influences on stream and riparian ecosystems in the western United States. <i>Journal of Soil and Water Conservation</i> 54(1): 419-431.	Belsky et al. 1999
Bender, D. J., L. Tischendorf, and L. Fahrig. 2003. Using patch isolation indicators to predict animal movement in landscapes. <i>Landscape Ecology</i> 18:17-39.	Bender et al. 2003
Benson, A. J. 2010. <i>Melanoides tuberculatus</i> . USGS Nonindigenous Aquatic Species Database, Gainesville, FL. [http://nas.er.usgs.gov/queries/FactSheet.aspx?speciesID=1037] (Revision Date: 4/24/2006).	Benson 2010
Berger, J. 1985. Interspecific interactions and dominance among wild Great Basin ungulates. <i>Journal of Mammology</i> 66(3):571-573	Berger 1985
Berry, K. H., T. Y. Bailey, and K. M. Anderson. 2006. Attributes of desert tortoise populations at the National Training Center, Central Mojave Desert, California, USA. <i>Journal of Arid Environments</i> 67:165-191.	Berry et al. 2006
Bestelmeyer, B. T., J. E. Herrick, J. R. Brown, D. A. Trujillo, and K. M. Havstad. 2004. Land management in the American Southwest: A state-and-transition approach to ecosystem complexity. <i>Environmental Management</i> 34:38-51.	Bestelmeyer et al. 2004
Betencourt, J. L., T. R. Van Devender, and P. Martin. 1990. <i>Packrat Middens. The Last 40,000 Years of Biotic Change</i> . University of Arizona Press, Tucson.	Betencourt et al. 1990
Bevans, H.E., M.S. Lico, and S.J. Lawrence. 1998. Water Quality in the Las Vegas Valley Area and the Carson and Truckee River Basins, Nevada and California, 1992–96. U.S. Department of the Interior, U.S. Geological Survey, Circular 1170. Reston, Virginia.	

Bierwagen, B., D. M. Theobald, C. R. Pyke, A. Choate, P. Groth, J. V. Thomas, and P. Morefield. 2009. Land-use scenarios: National-scale housing-density scenarios consistent with climate change storylines. EPA/600/R-08/076F. U.S. Environmental Protection Agency, Global Change Research Program, National Center for Environmental Assessment, Washington, DC.	Bierwagen et al. 2009
Bierwagen, B., D.M. Theobald, C.R. Pyke, A. Choate, P. Groth, J.V. Thomas, and P. Morefield. (In press, accepted 12 October 2010). Land-Use Scenarios: National-Scale Housing-Density Scenarios Consistent with Climate Change Storylines. Proceedings of the National Academy of Sciences.	Bierwagen et al. 2010
Billings, W. D. 1990. Bromus tectorum, a biotic cause of ecosystem impoverishment in the Great Basin. Pages 301-322 in: G. M. Woodwell, editor. The earth in transition: Patterns and processes of biotic impoverishment. Cambridge University Press, New York.	Billings 1990
Blackburn, W. H., and P. T. Tueller. 1970. Pinyon and juniper invasion in black sagebrush communities in east-central Nevada. Ecology 51(5):841-848.	Blackburn and Tueller 1970
Blackburn, W. H., P. T. Tueller, and R. E. Eckert, Jr. 1968. Vegetation and soils of the Mill Creek watershed. Nevada Agricultural Experiment Station Bulletin R-43. University of Nevada, Reno. 69 pp. In cooperation with USDI Bureau of Land Management.	Blackburn et al. 1968
Blackburn, W. H., P. T. Tueller, and R. E. Eckert, Jr. 1969c. Vegetation and soils of the Churchill Canyon watershed. Nevada Agricultural Experiment Station Bulletin R-45. University of Nevada, Reno. 155 pp. In cooperation with USDI Bureau of Land Management.	Blackburn et al. 1969c
Blackburn, W. H., P. T. Tueller, and R. E. Eckert, Jr. 1969d. Vegetation and soils of the Pine and Mathews Canyon watersheds. Agricultural Experiment Station, University of Nevada, Reno. 109 pp. In cooperation with USDI Bureau of Land Management.	Blackburn et al. 1969d
Blackburn, W. H., R. E. Eckert, Jr., and P. T. Tueller. 1969a. Vegetation and soils of the Coils Creek watershed. Nevada Agricultural Experiment Station Bulletin R-48. University of Nevada, Reno. 80 pp. In cooperation with USDI Bureau of Land Management.	Blackburn et al. 1969a
Blackburn, W. H., R. E. Eckert, Jr., and P. T. Tueller. 1969b. Vegetation and soils of the Crane Springs watershed. Nevada Agricultural Experiment Station Bulletin R-55. University of Nevada, Reno. 65 pp. In cooperation with USDI Bureau of Land Management.	Blackburn et al. 1969b
Blaisdell, J. P., and R. C. Holmgren. 1984. Managing intermountain rangelands-salt-desert shrub ranges. General Technical Report INT-163. USDA Forest Service, Intermountain Forest and Range Experiment Station, Ogden, UT. 52 pp.	Blaisdell and Holmgren 1984
Blank R. R., J. A. Young, and F. L. Allen. 1999. Aeolian dust in a saline playa environment, Nevada, USA. Journal of Arid Environments 4:365-81.	Blank et al. 1999
BLM [Bureau of Land Management]. 2004. Santa Rosa and Santa Jacinto National Mountains final management plan and record of decision. [http://www.blm.gov/ca/st/en/fo/palmsprings/santarosa/management_plan.html] (accessed May 2009)	BLM 2004
BLM [Bureau of Land Management]. 2009. Secretary Salazar, Senator Reid announce 'fast-track' initiatives for solar energy development on western lands. [http://www.doi.gov/news/pressreleases/2009_06_29_release.cfm] (Press Release: 06/29/2009).	BLM 2009

BLM [Bureau of Land Management]. 2010a. Biomass. USDI Bureau of Land Management California. [http://www.blm.gov/ca/st/en/prog/energy/biomass.html]	BLM 2010a
BLM [Bureau of Land Management]. 2010b. Fast facts about fast-track renewable energy projects. USDI Bureau of Land Management Nevada State Office. [http://www.blm.gov/nv/st/en/prog/energy/fast-track_renewable.html]	BLM 2010b
BLM [Bureau of Land Management]. 2010c. Solar energy projects. USDI Bureau of Land Management California Desert District. [http://www.blm.gov/ca/st/en/fo/cdd/alternative_energy/SolarEnergy.html]	BLM 2010c
BLM [Bureau of Land Management]. 2010d. Renewable energy: Helping to energize California. USDI Bureau of Land Management California. [http://www.blm.gov/pgdata/etc/medialib/blm/ca/pdf/caso/publications.Par.66433.File.dat/SinglePages.pdf]	BLM 2010d
BLM [Bureau of Land Management]. 2010e. Record of decision for Ruby Pipeline project. News Release No. 2010-023. USDI Bureau of Land Management Nevada State Office. [http://www.blm.gov/nv/st/en/info/newsroom/2010/july/record_of_decision.html]	BLM 2010e
BLM [Bureau of Land Management]. 2010f. Wind energy projects. USDI Bureau of Land Management California Desert District. [http://www.blm.gov/ca/st/en/fo/cdd/alternative_energy/WindEnergy.html]	BLM 2010f
BLM [Bureau of Land Management]. 2011. Clark, Lincoln, and White Pine counties Groundwater Development Project Draft Environmental Impact Statement, Volume 1-A. DES 11-18.	BLM 2011
Bossenbroek, J. M., C. E. Kraft, and J. C. Nekola. 2001. Prediction of long-distance dispersal using gravity models: zebra mussel invasion of inland lakes. <i>Ecological Applications</i> 11:1778-1788.	
Bowman, W. D., J. R. Gartner, K. Holland, and M. Wiedermann. 2006. Nitrogen critical loads for alpine vegetation and terrestrial ecosystem response: Are we there yet? <i>Ecological Applications</i> 16(3): 1183-1193.	
Bradley, B. A. 2008. Regional analysis of impacts of climate change on cheatgrass invasion shows potential risk and opportunity. <i>Global Change Biology</i> 12:1815-1822.	Bradley 2008
Bradley, B. A. 2009. Regional analysis of the impacts of climate change on cheatgrass invasion shows potential risk and opportunity. <i>Global Change Biology</i> 15:196-208.	Bradley 2009
Bradley, B. A. 2010. Assessing ecosystem threats from global and regional change: Hierarchical modeling of risk to sagebrush ecosystems from climate change, land use and invasive species in Nevada, USA. <i>Ecography</i> 33:198-208.	Bradley 2010
Bradley, B. A., and J. F. Mustard. 2005. Identifying land cover variability distinct from land cover change: Cheatgrass in the Great Basin. <i>Remote Sensing of the Environment</i> 94:204-213.	Bradley and Mustard 2005
Bradley, B. A., and J. F. Mustard. 2006. Characterizing the landscape dynamics of an invasive plant and risk of invasion using remote sensing. <i>Ecological Applications</i> 16:1132-1147.	Bradley and Mustard 2006
Bradley, P. V., M. J. O'Farrell, J. A. Williams, and J. E. Newmark. Editors. 2006. The Revised Nevada Bat Conservation Plan. Nevada Bat Working Group. Reno, Nevada. 216 pp. Available online at http://www.wbwg.org/conservation/conservationplans/NVconservationplan.pdf .	

Branson, F. A., R. F. Miller, and I. S. McQueen. 1967. Geographic distribution and factors affecting the distribution of salt desert shrubs in the United States. <i>Journal of Range Management</i> 29(5):287-296.	Branson et al. 1967
Branson, F. A., R. F. Miller, and I. S. McQueen. 1976. Moisture relationships in twelve northern desert shrub communities near Grand Junction, Colorado. <i>Ecology</i> 57:1104-1124.	Branson et al. 1976
Braun, C. E. 1998. Sage-grouse declines in western North America: What are the problems? <i>Proceedings of the Western Association of State Fish and Wildlife Agencies</i> 78:139-156.	Braun 1998
Braun, C. E., O. Oedekoven, and C. L. Aldridge. 2002. Oil and gas development in western North America: Effects of sagebrush steppe avifauna with particular emphasis on sage-grouse. <i>Transactions of the North American Wildlife and Natural Resources Conferences</i> 67:337-349.	Braun et al. 2002
Brennan, T. C., and A. T. Holycross. 2006. A field guide to amphibians and reptiles in Arizona. Arizona Game and Fish Department, Phoenix, AZ.	Brennan and Holycross 2006
Brooks, M. L. 1999. Alien annual grasses and fire in the Mojave Desert. <i>Madroño</i> 46:13-19.	Brooks 1999
Brooks, M. L. 2008. Plant invasions and fire regimes. Pages 33-46 in: K. Zouhar, J. Kapler Smith, S. Sutherland, and M. L. Brooks. <i>Wildland fire in ecosystems: Fire and non-native invasive plants</i> . General Technical Report RMRS-GTR-42-volume 6. USDA Forest Service, Rocky Mountain Research Station, Ogden, UT. 355 pp.	Brooks 2008
Brooks, M. L., and J. C. Chambers. 2011. Resistance to invasion and resilience to fire in desert shrublands of North America. <i>Rangeland Ecology and Management</i> 64(5):431-438.	Brooks and Chambers 2011
Brooks, M. L., C. M. D'Antonio, D. M. Richardson, J. M. DiTomaso, J. B. Grace, R. J. Hobbs, J. E. Keeley, M. Pellant, and D. Pyke. 2004. Effects of invasive alien plants on fire regimes. <i>BioScience</i> 54:677-688.	Brooks et al. 2004
Brooks, M. L., T. C. Esque, and T. Duck. 2007. Creosotebush, blackbrush, and interior chaparral shrublands. Chapter 6 in: <i>General Technical Report RMRS-GTR-202</i> . USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO.	Brooks et al. 2007
Brooks, P. D., and M. W. Williams. 1999. Snowpack controls on nitrogen cycling and export in seasonally snow-covered catchments. <i>Hydrological Processes</i> 13:2177-2190.	
Brown, D. E., editor. 1982. Biotic communities of the American Southwest-United States and Mexico. <i>Desert Plants Special Issue</i> 4(1-4):1-342.	Brown 1982
Brown, J., L. Bach, A. Aldous, A. Wyers, and J. DeGagné. 2011. Groundwater-dependent ecosystems in Oregon: An assessment of their distribution and associated threats. <i>Frontiers in Ecology and the Environment</i> 9:97-102. http://dx.doi.org/10.1890/090108	Brown et al. 2011
Brown, M. T., and M. B. Vivas. 2005. Landscape development intensity index. <i>Environmental Monitoring and Assessment</i> 101:289-309.	Brown and Vivas 2005
Brown, R. D., and P. W. Mote. 2009. The response of Northern Hemisphere snow cover to a changing climate. <i>Journal of Climate</i> 22:2124-2145.	Brown and Mote 2009
Brown, T. J., B. L. Hall, and A. L. Westerling. 2004. The impact of twenty-first century climate change on wildland fire danger in the western United States: An applications perspective. <i>Climatic Change</i> 62:365-388.	Brown et al. 2004

Brown, W. S., and W. S. Parker. 1984. Growth, reproduction and demography of the racer, <i>Coluber constrictor mormon</i> , in northern Utah. Pages 13-40 in: R. A. Seigel et al., editors. Vertebrate ecology and systematics: A tribute to Henry S. Fitch. University of Kansas Museum of Natural History Special Publication (10):i-viii, 1-278.	Brown and Parker 1984
Buckley, Y. M., P. Downey, S. V. Fowler, R. Hill, J. Memmot, H. Norambuena, M. Pitcairn, R. Shaw, A. W. Sheppard, C. Winks, R. Wittenberg, and M. Rees. 2003. Are invasives bigger? A global study of seed size variation in two invasive shrubs. <i>Ecology</i> 84(6):1434-1440.	
Burke, M.P., T.S. Hogue, M. Ferreira, C.B. Mendez, B. Navarro, Sonya Lopez, and Jennifer A. Jay. 2010. The Effect of Wildfire on Soil Mercury Concentrations in Southern California Watersheds. <i>Water, Air, & Soil Pollution</i> 212:369-385. DOI 10.1007/s11270-010-0351-y.	
Burkhardt, J. W., and E. W. Tisdale. 1976. Causes of juniper invasion in southwestern Idaho. <i>Ecology</i> 57:472-484.	Burkhardt and Tisdale 1976
Burns, A.G., Drici, W., Dixon, G.L., and Rowley, P.O. 2011. Cave, Dry Lake, and Delamar Valleys Hydrogeologic Rebuttal Report in Response to Myers 2011. Presentation to the Office of the Nevada State Engineer for the Southern Nevada Water Authority, Las Vegas, Nevada.	
Burns, D. A. 2003. Atmospheric nitrogen deposition in the Rocky Mountains of Colorado and southern Wyoming: A review and new analysis of past study results. <i>Atmospheric Environment</i> 37:921-932. DOI 10.1016/S1352-2310(02)00993-7.	
Burns, D. A. 2004. The effects of atmospheric nitrogen deposition in the Rocky Mountains of Colorado and southern Wyoming, USA: A critical review. <i>Environmental Pollution</i> 127:257-269. DOI 10.1016/S0269-7491(03)00264-1.	
Busack, S. D., and R. B. Bury. 1974. Some effects of off-road vehicles and sheep grazing on lizard populations in the Mojave Desert. <i>Biological Conservation</i> 6:179-183.	Busack and Bury 1974
Bytnerowicz, A., P.E. Padgett, S.D. Parry, M.E. Fenn, and M.J. Arbaugh. 2001. Concentrations, Deposition, and Effects of Nitrogenous Pollutants in Selected California Ecosystems. In: <i>Optimizing Nitrogen Management in Food and Energy Production and Environmental Protection: Proceedings of the 2nd International Nitrogen Conference on Science and Policy</i> . The Scientific World 1(S2):304-311.	
Calabrese, J. M., and W. F. Fagan. 2004. A comparison-shopper's guide to connectivity indicators. <i>Frontier of Ecology and Evolution</i> 2(10):529-536.	Calabrese and Fagan 2004
California Office of Environmental Health Hazard Assessment (OEHHA). 2012. Methylmercury in Sport Fish-Information for Fish Consumers. Online: http://oehha.ca.gov/fish/pdf/HGfacts.pdf .	
CAL-IPC [California Invasive Plant Council]. 2010. California Invasive Plant Council (Mojave Desert Floristic Province filter) [http://www.cal-ipc.org/ip/inventory/weedlist.php?region=DMoj] (accessed 8-26-2010).	CAL-IPC 2010
Campbell, V. O. 1977. Certain edaphic and biotic factors affecting vegetation in the shadscale community of the Kaiparowitz area. Unpublished thesis, Brigham Young University, Provo, UT. 59 pp.	Campbell 1977
Caro, T. M., and G. O'Doherty. 1999. On the use of surrogate species in conservation biology. <i>Conservation Biology</i> 13:805-814.	Caro and O'Doherty 1999

Carroll, C., R. F. Noss, and P. C. Paquet. 2001. Carnivores as focal species for conservation planning in the Rocky Mountain region. <i>Ecological Applications</i> 11:961-980.	Carroll et al. 2001
Carpenter, S., B. Walker, J. M. Anderies, and N. Abel. 2001. From metaphor to measurement: Resilience of what to what? <i>Ecosystems</i> 4:765-781.	
Cayan, D. R., T. Das, D. W. Pierce, T. P. Barnett, M. Tyree, and A. Gershunov. 2010. Future dryness in the southwest U.S. and the hydrology of the early 21st century drought. <i>Proceedings of the National Academy of Sciences</i> 107(50):21271-21276. Online: www.pnas.org/cgi/doi/10.1073/pnas.0912391107	Cayan et al. 2010
CDWR [California Department of Water Resources]. 2003. California's groundwater. Bulletin 118 Update 2003. California Department of Water Resources, Sacramento, CA. [http://www.water.ca.gov/groundwater/bulletin118/update2003.cfm]	CDWR 2003
CEC [California Environmental Commission]. 2010a. Geothermal energy in California. California Environmental Commission. [http://www.energy.ca.gov/geothermal/]	CEC 2010a
CEC [California Environmental Commission]. 2010b. Large solar energy projects. [http://www.energy.ca.gov/siting/solar/index.html]	CEC 2010b
CEC [California Environmental Commission]. 2010c. Wind energy in California. [http://www.energy.ca.gov/wind/index.html]	CEC 2010c
CEC [Commission for Environmental Cooperation]. 1997. Ecological regions of North America: Toward a common perspective. Commission for Environmental Cooperation, Montreal, Quebec, Canada. 71pp. Map (scale 1:12,500,000).	CEC 1997
Chalmers, A.T., D. M. Argue, D. A. Gay, M. E. Brigham, C. J. Schmitt, and D. L. Lorenz. 2010. Mercury Trends in Fish from Rivers and Lakes in the United States, 1969–2005. <i>Environmental Monitoring and Assessment</i> 2010, Online: DOI 10.1007/s10661-010-1504-6.	
Chambers, J. C. 2005. Fire related restoration issues in woodland and rangeland ecosystems. In J. Agee, compiler. <i>Mixed Fire Regimes Conference</i> . 17-19 November, Spokane, WA.	Chambers 2005
Chambers, J. C., and M. Pellant. 2008. Climate change impacts on northwestern and intermountain United States. <i>Rangelands</i> :29-33.	Chambers and Pellant 2008
Chambers, J. C., and M. J. Wisdom. 2009. Priority research and management issues for the imperiled Great Basin of the western United States. <i>Restoration Ecology</i> 17(5):707-714.	Chambers and Wisdom 2009
Chambers, J. C., B. A. Roundy, R. R. Blank, S. E. Meyer and A. Whittaker. 2007. What makes Great Basin sagebrush ecosystems invasible by <i>Bromus tectorum</i> ? <i>Ecological Monographs</i> 77:117-145.	Chambers et al. 2007
Chambers, J. C., B. Bradley, M. Germino, and C. Brown. 2011. Understanding, predicting and managing species invasions in a changing environment – the case of annual brome grasses. Great Basin Consortium Workshop. November 7-9, 2011, Reno, NV.	Chambers et al. 2011
Chambers, J. C., and J. R. Miller, editors. 2004. <i>Great Basin riparian ecosystems</i> . Island Press, Washington, DC. 303 pp.	Chambers and Miller 2004
Chambers, J. C., E. D. McArthur, S. B. Monson, S. E. Meyer, N. L. Shaw, R. J. Tausch, R. R. Blank, S. Bunting, R. R. Miller, M. Pellant, B. A. Roundy, S. C. Walker, and A. Whittaker. 2005. Sagebrush Steppe and Pinyon-Juniper Ecosystems - Effects of Changing Fire Regimes, Increased Fuel Loads, and Invasive Species. Joint Fire Sciences Report Project #00-1-1-03.	Chambers et al. 2005

Chapin, F. S., III, B. H. Walker, R. J. Hobbs, D. U. Hooper, J. H. Lawton, O. E. Sala, and D. Tilman. 1997. Biotic control over the functioning of ecosystems. <i>Science</i> 277:500-504.	Chapin et al. 1997
Chapman, D. W. 1988. Critical review of variables used to define effects of fines in redds of large salmonids. <i>Transactions of the American Fisheries Society</i> 117:1-21.	
Chardon, J. P., F. Adriaensen, and E. Matthysen. 2003. Incorporating landscape elements into a connectivity measure study for the speckled wood butterfly (<i>Pararge aegeria</i> L.). <i>Landscape Ecology</i> 18:561-573.	Chardon et al. 2003
Choi, Y. D. 2007. Restoration ecology to the future: A call for new paradigm. <i>Restoration Ecology</i> 15:351-353.	
Chornesky, E. A., and J. M. Randall. 2003. The threat of invasive alien species to biological diversity: Setting a future course. <i>Annals of the Missouri Botanical Garden</i> 90(1):67-76. URL: http://www.jstor.org/stable/3298527 .	Chornesky and Randall 2003
Christensen, N. S., and D. P. Lettenmaier. 2007. A multimodel ensemble approach to assessment of climate change impacts on the hydrology and water resources of the Colorado River Basin. <i>Hydrology and Earth System Sciences</i> 11:1417-1434.	Christensen and Lettenmaier 2007
Chung-MacCoubrey, A. L., R. E. Truitt, C. C. Caudill, T. J. Rodhouse, K. M. Irvine, J. R. Siderius, and V. K. Chang. 2008. Mojave Desert Network vital signs monitoring plan. NPS/MOJN/NRR-2008/057. National Park Service, Fort Collins, CO. 146 pp. [http://science.nature.nps.gov/im/monitor/plans/MOJN_MonitoringPlan.pdf]	Chung-MacCoubrey et al. 2008
Clark, D. R., Jr., and R. L. Hothem. 1991. Mammal mortality at Arizona, California, and Nevada gold mines using cyanide extraction. <i>California Fish and Game</i> 77:61-69.	Clark and Hothem 1991
CNHP [Colorado Natural Heritage Program]. 2005. Ecological system descriptions and viability guidelines for Colorado. Colorado Natural Heritage Program, Colorado State University, Fort Collins.	CNHP 2005
Coats, R.N. and C.R. Goldman. 2001. Patterns of Nitrogen Transport in Streams of the Lake Tahoe Basin, California-Nevada. <i>Water Resources Research</i> 37(2): 405–415.	
Colautti, R. I., I. A. Grigorovich, and H. J. MacIsaac. 2007. Propagule pressure: A null hypothesis for biological invasions. <i>Biological Invasions</i> 8:1023-1037.	Colautti et al. 2007
Cole, K., K. Ironside, J. Eischeid, and G. Garfin. 2009. Past and ongoing shifts in Joshua tree support future modeled range contraction. [in press]	Cole et al. 2009
Collier, M., R.H. Webb, and J.C. Schmidt. 2000. Dams and Rivers: A Primer on the Downstream Effects of Dams. U.S. Department of the Interior, U.S. Geological Survey, Circular 1126, Second Revised Printing.	
Collins, J.N. et al. (2008) California rapid assessment method (CRAM) for wetlands. Version 5.0.2. San Francisco Estuary Institute. San Francisco, California. Available online at: http://www.cramwetlands.org/	
Comer, P. J., and J. Hak. 2009a. NatureServe landscape condition model. Technical documentation for NatureServe Vista decision support software engineering. NatureServe, Boulder, CO.	Comer and Hak 2009a
Comer, P. J., and J. Hak. 2009b. NatureServe landscape condition model. Internal documentation for NatureServe Vista decision support software engineering, prepared by NatureServe, Boulder, CO.	Comer and Hak 2009b
Comer, P., and J. Hak. [2012]. Landscape condition model of the western United States. NatureServe, Boulder, CO. In preparation.	Comer and Hak in prep.

Comer, P. J., J. Hak, and G. Mendiguran. 2009. Alternative methods for mapping terrestrial ecosystems in the Great Basin of the western United States. Report to the U.S. Geological Survey, Biological Resources Division. 37 pp.	Comer et al. 2009
Comer, P., and K. Schulz. 2007. Standardized ecological classification for meso-scale mapping in southwest United States. <i>Rangeland Ecology and Management</i> 60 (3):324-335.	Comer and Schulz 2007
Comer, P., D. Faber-Langendoen, R. Evans, S. Gawler, C. Josse, G. Kittel, S. Menard, M. Pyne, M. Reid, K. Schulz, K. Snow, and J. Teague. 2003. Ecological systems of the United States: A working classification of U.S. terrestrial systems. NatureServe, Arlington, VA.	Comer et al. 2003
Concannon, D. 1978. Plant succession on burned areas of the <i>Artemisia tridentata/Agropyron spicatum</i> habitat type in southeastern Oregon. Master's thesis, Humbolt State University, Arcata, CA. 101 pp.	Concannon 1978
Constantz, J. 1998. Interaction between stream temperature, streamflow, and groundwater exchanges in alpine streams. <i>Water Resources Research</i> 34(7):1609-1615.	Constantz 1998
Coolbaugh, M. et al., 2005. Geothermal Potential Map of the Great Basin, Western United States. Nevada Bureau of Mines and Geology Map 151.	
Coppolillo, P., H. Gomez, F. Maisels, and R. Wallace. 2004. Selection criteria for suites of landscape species as a basis for site-based conservation. <i>Biological Conservation</i> 115:419-430.	Coppolillo et al. 2004
Cordell et al. 2008. Off-highway vehicle recreation in the US (IRIS).	
Courtney, P. A., and M. B. Fenton. 1976. The effects of a small rural garbage dump on populations of <i>Peromyscus leucopus</i> Rafinesque and other small mammals. <i>Journal of Applied Ecology</i> 13(2):413-422.	Courtney and Fenton 1976
Covich, A. P. 2009. Emerging Climate Change Impacts on Freshwater Resources: A Perspective on Transformed Watersheds. A Resources for the Future (RFF) Report, June 2009. Online: www.rff.org/rff/documents/RFF-Rpt-Adaptation-Covich.pdf .	Covich 2009
Cress, J., R. Sayre, P. Comer, and H. Warner. 2008. Terrestrial ecosystems - bioclimate. U.S. Geological Survey. Scale 1:7,000,000.	Cress et al. 2008
Crother, B. I., J. Boundy, J. A. Campbell, K. de Queiroz, D. R. Frost, R. Highton, J. B. Iverson, P. A. Meylan, T. W. Reeder, M. E. Seidel, J. W. Sites, Jr., T. W. Taggart, S. G. Tilley, and D. B. Wake. 2000 [2001]. Scientific and standard English names of amphibians and reptiles of North America north of Mexico, with comments regarding confidence in our understanding. Society for the Study of Amphibians and Reptiles, Herpetological Circular No. 29. 82 pp.	Crother et al. 2000
Culp, J. M., F. J. Wrona, and R. W. Davies. 1986. Response of stream benthos and drift to fine sediment deposition versus transport. <i>Canadian Journal of Zoology</i> 64:1345-1351.	
Curry, R. A., and W. S. MacNeill. 2004. Population-level responses to sediment during early life in brook trout <i>Journal of the North American Benthological Society</i> 23(1):140-150.	
Dakheel, A. J., S. R. Radosevich, and M. G. Barbour. 1993. Effect of nitrogen and phosphorus on growth and interference between <i>Bromus tectorum</i> and <i>Taeniatherum asperum</i> . <i>Weed Research</i> 33(5):415-422.	Dakheel et al. 1993
Daly, C., W. P. Gibson, G. H. Taylor, G. L. Johnson, and P. Pasteris. 2002. A knowledge-based approach to the statistical mapping of climate. <i>Climate Research</i> 22:99-113.	Daly et al. 2002

Danelski, D. 2008. Marines eye 400,000 acres for training expansion at Twentynine Palms. The Press Enterprise. Riverside, CA. September 18, 2008 [http://www.pe.com/localnews/inland/stories/PE_News_Local_S_marineland19.1cec211.html]	Danelski 2008
Danelski, D. 2010. Wind farms could interfere with flight patterns, radar systems, military says. The Press Enterprise. Riverside, CA. September 18, 2008 [http://www.pe.com/localnews/stories/PE_News_Local_D_wind01.1d3f22e.html]	Danelski 2010
Daniel, L. 2010. Officials work to resolve wind energy, radar dilemma. American Forces Press Service. July 2, 2010. [http://www.defense.gov/news/newsarticle.aspx?id=59879]	Daniel 2010
Danz, N. P., G. J. Niemi, R. R. Regal, T. Hollenhorst, L. B. Johnson, J. M. Hanowski, R. P. Axler, J. H. Ciborowski, T. Hrabik, V. J. Brady, J. R. Kelly, J. C. Brazner, R. W. Howe, C. A. Johnston, and G. E. Host. 2007. Integrated measures of anthropogenic stress in the U.S. Great Lakes basin. <i>Environmental Management</i> 39:631-647.	Danz et al. 2007
Darnall, N. L., and A. K. Miles. 2009. Dynamics of mercury in eared grebes on Great Salt Lake. <i>Natural Resources and Environmental Issues</i> Volume 15, Article 6. Available at: http://digitalcommons.usu.edu/nrei/vol15/iss1/6 .	Darnall and Miles 2009
Das, T., H. G. Hidalgo, M. D. Dettinger, D. R. Cayan, D. W. Pierce, C. Bonfils, T. P. Barnett, G. Bala, and A. Mirin. 2009. Structure and detectability of trends in hydrological measures over the western United States. <i>Journal of Hydrometeorology</i> 10:871:892.	Das et al. 2009
Daubenmire, R. F. 1970. Steppe vegetation of Washington. Technical Bulletin 62. Washington Agricultural Experiment Station, College of Agriculture, Washington State University, Pullman. 131 pp.	Daubenmire 1970
Davies, K. W., T. J. Svejcar, and J. D. Bates. 2009. Interaction of historical and nonhistorical disturbances maintains native plant communities. <i>Ecological Applications</i> 19(6):1536-1545.	Davies et al. 2009
Davies, K. W., C. S. Boyd, J. L. Beck, J. D. Bates, T. J. Svejcar, and M. A. Gregg. 2011. Saving the sagebrush sea: An ecosystem conservation plan for big sagebrush plant communities. <i>Biological Conservation</i> (144):2573-2584.	Davies et al. 2011
Davies, S. P., and S. K. Jackson. 2006. The biological condition gradient: A descriptive model for interpreting change in aquatic ecosystems. <i>Ecological Applications</i> 16(4):1251-1266.	Davies and Jackson 2006
Deacon, J. E., A. E. Williams, C. Deacon Williams, and J. E. Williams. 2007. Fueling population growth in Las Vegas: How large-scale groundwater withdrawal could burn regional biodiversity. <i>BioScience</i> 57(8):688-698.	Deacon et al. 2007
Demarais, S., D. J. Tazik, P. J. Guertin, and E. E. Jorgensen. 1999. Disturbance associated with military exercises. Pages 385-396 in: L. R. Walker, editor. <i>Ecosystems of disturbed ground</i> . Elsevier Science, New York.	Demarais et al. 1999
Dettinger, M. 2006. A component-resampling approach for estimating probability distributions from small forecast ensembles. <i>Climatic Change</i> 76:149-168.	Dettinger 2006
Dettinger, M., H. Hidalgo, T. Das, D. Cayan, and N. Knowles. 2009. Projections of potential flood regime changes in California. Report CEC-500-2009-050-F by the California Climate Change Center for the California Energy Commission (CEC) and the California Environmental Protection Agency (Cal/EPA).	Dettinger et al. 2009

DOE and BLM [U.S. Department of Energy & Bureau of Land Management]. 2008. Programmatic Environmental Impact Statement, designation of energy corridors on Federal land in the 11 western states. U.S. Department of Energy and Bureau of Land Management. DOE/EIS-0386. [http://corridoreis.anl.gov/documents/fpeis/index.cfm]	DOE and BLM 2008
DOE [U.S. Department of Energy]. 1996. Final Environmental Impact Statement for the Nevada Test Site and off-site location in the State of Nevada. U.S. Department of Energy. DOE/EIS-0243. [http://www.globalsecurity.org/wmd/library/report/enviro/eis-0243/index.html]	DOE 1996
Doescher, P. S., R. F. Miller, S. R. Swanson, and A. H. Winward. 1986. Identification of the <i>Artemisia tridentata</i> ssp. <i>wyomingensis</i> / <i>Festuca idahoensis</i> habitat type in eastern Oregon. Northwest Science 60(1):55-60.	Doescher et al. 1986
Doherty, K. E., J. D. Tack, J. S. Evans, and D. E. Naugle. 2010. Mapping breeding densities of greater sage-grouse: A tool for rangewide conservation planning. Prepared for the Bureau of Land Management. Interagency Agreement #L10PG00911.	
DOI [Department of Interior]. 2008. Inventory of Onshore Federal Oil and Natural Gas Resources and Restrictions to Their Development. Prepared by the U.S. Departments of the Interior, Agriculture and Energy. http://www.blm.gov/wo/st/en/prog/energy/oil_and_gas/EPCA_III.html	
Drevnick, P.E., A.L.C. Shinneman, C.H. Lamborg, D.R. Engstrom, M.H. Bothner, and J.T. Oris. 2010. Mercury Flux to Sediments of Lake Tahoe, California–Nevada. Water, Air, & Soil Pollution 210: 399-407. DOI 10.1007/s11270-009-0262-y.	
Drewitt, A. L., and R. H. W. Langston. 2006. Assessing the impacts of wind farms on birds. Ibis 148:29-42.	Drewitt and Langston 2006
Dunham, A. E. 1981. Populations in a fluctuating environment: The comparative population ecology of the iguanid lizards <i>Sceloporus merriami</i> and <i>Urosaurus ornatus</i> . University of Michigan Museum of Zoology Miscellaneous Publications (158):1-62.	Dunham 1981
Egan, R. S. 1987. A fifth checklist of the lichen-forming, lichenicolous and allied fungi of the continental United States and Canada. The Bryologist 90:77-173.	
Egan, R. S. 1989. Changes to the "Fifth checklist of the lichen-forming, lichenicolous and allied fungi of the continental United States and Canada," edition I. The Bryologist 92:68-72.	
Elith, J., and C. Graham. 2009. How do they? Why do they differ? On finding reasons for differing performances of species distribution models. Ecography 32:66-77.	
Elith, J., C. H. Graham, R. P. Anderson, M. Dudík, S. Ferrier, A. Guisan, R. J. Hijmans, F. Huettmann, J. R. Leathwick, and A. Lehmann. 2006. Novel methods improve prediction of species' distributions from occurrence data. Ecography 29:129-151.	Elith et al. 2006
Elith, J., S. J. Phillips, T. Hastie, M. Dudík, Y. E. Chee, and C. J. Yates. 2011. A statistical explanation of MaxEnt for ecologists. Diversity and Distributions 17:43-57.	Elith et al. 2011
Elith, J., and J. Leathwick. 2009. Species distribution models: ecological explanation and prediction across space and time. Annual Review Ecology Evolution and Systematics 40:677-697.	Elith and Leathwick 2009
Elith, J., Phillips, S., Hastie, T., Dudík, M., Chee, Y.E., Yates, C., 2011. A statistical explanation of MaxEnt for ecologists. Ecology 45, 1372-1381.	Elith et al. 2011
Ellis, D. H., C. H. Ellis, and D. P. Mindell. 1991. Raptor responses to low-level jet aircraft and sonic booms. Environmental Pollution 74(1):53-83.	Ellis et al. 1991
Ellis, K. L. 1984. Behavior of lekking sage-grouse in response to a perched golden eagle. Western Birds 15:37-38.	Ellis 1984

Elton, C. S. 1958. The ecology of invasions by plants and animals. Methuen and Co., London.	Elton 1958
Enserink, M. 1999. Biological invaders sweep in. <i>Science</i> 285(5435):1834-1836.	Enserink 1999
Environmental Systems Research Institute. 2008. ArcGIS 1999-2008.	Environmental Systems Research Institute 2008
Epps, C. W., D. McCullough, J. D. Wehausen, V. C. Bleich, and J. L. Rechel. 2004. Effects of climate change on population persistence of desert-dwelling mountain sheep in California. <i>Conservation Biology</i> 18:102-113.	Epps et al. 2004
Erman, N. A. 2002. Lessons from a long-term study of springs and spring invertebrates (Sierra Nevada, California, USA) and implications for conservation and management. In: D. W. Sada and S. E. Sharpe, editors. Proceedings of the meeting on spring-fed wetlands: Important scientific and cultural resources of the intermountain region, May 2002, Las Vegas, NV. Desert Research Institute, Reno, NV.	Erman 2002
Eslinger, David L., H. Jamieson Carter, Ed Dempsey, Margaret VanderWilt, Beverly Wilson, and Andrew Meredith. 2005. "The Nonpoint-Source Pollution and Erosion Comparison Tool." NOAA Coastal Services Center, Charleston, South Carolina. Accessed Nov 2011 at http://www.csc.noaa.gov/nspect/ .	
Esslinger, T. L., and R. S. Egan. 1995. A sixth checklist of the lichen-forming, lichenicolous, and allied fungi of the continental United States and Canada. <i>The Bryologist</i> 98:467-549.	
Faber-Langendoen, D., G. Kudray, C. Nordman, L. Sneddon, L. Vance, E. Byers, J. Rocchio, S. Gawler, G. Kittel, S. Menard, P. Comer, E. Muldavin, M. Schafale, T. Foti, C. Josse, J. Christy. 2008. Ecological Performance Standards for Wetland Mitigation: An Approach Based on Ecological Integrity Assessments. NatureServe, Arlington, VA. + Appendices.	
Faber-Langendoen, D., J. Rocchio, M. Schafale, C. Nordman, M. Pyne, J. Teague, T. Foti, and P. Comer. 2006. Ecological integrity assessment and performance measures for wetland mitigation. Final Report to USEPA, Office of Water and Wetlands. NatureServe, Arlington, VA.	Faber-Langendoen et al. 2006
Faber-Langendoen, D., C. Hedge, M. Kost, S. Thomas, L. Smart, R. Smyth, J. Drake, and S. Menard. 2012. Assessment of wetland ecosystem condition across landscape regions: A multi-metric approach. Part A. Ecological Integrity Assessment overview and field study in Michigan and Indiana. EPA/600/R-12/021a. U.S. Environmental Protection Agency Office of Research and Development, Washington, DC.	Faber-Langendoen et al. 2012
Fagan, W. F., C. M. Kennedy, and P. J. Unmack. 2005. Quantifying rarity, losses, and risks for native fishes of the Lower Colorado River Basin: Implications for conservation listing. <i>Conservation Biology</i> 19(6):1872-1882.	Fagan et al. 2005
Fagre D. B., C. W. Charles, C. D. Allen, C. Birkeland, F. S. Chapin III, P. M. Groffman, G. R. Guntenspergen, A. K. Knapp, A. D. McGuire, P. J. Mulholland, D. P. C. Peters, D. D. Roby, and G. Sugihara. 2009. Thresholds of Climate Change in Ecosystems. A report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. U.S. Geological Survey, Department of the Interior, Washington, DC, USA.	Fagre et al. 2009
Farig, L. 2003. Effects of habitat fragmentation on biodiversity. <i>Annual Review of Ecology, Evolution, and Systematics</i> 34:487-515.	Farig 2003

Feinsinger, P., E. Spears, and R. Poole. 1981. A simple measure of niche breadth. <i>Ecology</i> 62:27-32.	Feinsinger et al. 1981
Fenn, M. E., R. Haeuber, G. Tonnesen, J. Baron, S. Grossman-Clarke, D. Hope, D. A. Jaffe, S. Copland, L. Geiser, H. M. Rueth, and J. O. Sickman. 2003. Nitrogen emissions, deposition, and monitoring in the western United States. <i>BioScience</i> 53:391-403.	Fenn et al. 2003
Fenn, M.E., E.B. Allen, S.B. Weiss, S. Jovan, L.H. Geiser, G.S. Tonnesen, R.F. Johnson, L.E. Rao, B.S. Gimeno, F. Yuan, T. Meixner, and A. Bytnerowicz. 2010. Nitrogen Critical Loads and Management Alternatives for N-Impacted Ecosystems in California. <i>Journal of Environmental Management</i> 91:2404–2423. DOI 10.1016/j.jenvman.2010.07.034.	
Fenn, M. E., J. S. Baron, E. B. Allen, H. M. Rueth, K. R. Nydick, L. Geiser, W. D. Bowman, J. O. Sickman, T. Meixner, D. W. Johnson, and P. Neitlich. 2003a. Ecological effects of nitrogen deposition in the Western United States. <i>BioScience</i> 53(4):404-420.	Fenn et al. 2003a
Fenn, M. E., R. Haeuber, G. S. Tonnesen, J. S. Baron, S. Grossman-Clarke, D. Hope, D. A. Jaffe, S. Copeland, L. Geiser, H. M. Rueth, and J. O. Sickman. 2003b. Nitrogen emissions, deposition, and monitoring in the western United States. <i>BioScience</i> 53(4):391-403.	Fenn et al. 2003b
Fenn, M.E., S. Jovan, F. Yuan, L. Geiser, T. Meixner, and B.S. Gimeno. 2008. Empirical and Simulated Critical Loads for Nitrogen Deposition in California Mixed Conifer Forests. <i>Environmental Pollution</i> 155:492-511. DOI 10.1016/j.envpol.2008.03.019.	
Field, C. B., G. C. Daily, F. W. Davis, S. Gaines, P. A. Matson, J. Melack, and N. L. Miller. 1999. <i>Confronting Climate Change in California: Ecological Impacts on the Golden State</i> . Union of Concerned Scientists, Cambridge, MA, and Ecological Society of America, Washington, DC.	Field et al. 1999
Fielding, A. H., and J. F. Bell. 1997. A review of methods for the assessment of prediction errors in conservation presence/absence models. <i>Environmental Conservation</i> 24:38-49.	Fielding and Bell 1997
Fiero, W. 1986. <i>Geology of the Great Basin</i> . University of Nevada Press, Reno, NV. 356 pp.	Fiero 1986
Finch, D. 2012. <i>Climate change in grasslands, shrublands, and deserts of the interior American West: A review and needs assessment</i> . General Technical Report RMRS-GTR-285. USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO. 139 pp.	Finch 2012
Fisher, J. C., Jr. 1978. <i>Studies relating to the accelerated mortality of Atriplex hymenelytra in Death Valley National Monument</i> . Unpublished Masters thesis, University of California, Riverside.	Fisher 1978
Fleishman, E., R. B. Blair, and D. D. Murphy. 2001. Empirical validation of a method for umbrella species selection. <i>Ecological Applications</i> 11(5):1489-1501.	Fleishman et al. 2001
Flint, A. L., and L. E. Flint. 2007. Application of the basin characterization model to estimate in-place recharge and runoff potential in the Basin and Range carbonate-rock aquifer system, White Pine County, Nevada, and adjacent areas in Nevada and Utah. U.S. Geological Survey Scientific Investigations Report 2007-5099.	Flint and Flint 2007
Floyd, T., C. S. Elphick, G. Chisholm, K. Mack, R. G. Elston, E. M. Ammon, and J. D. Boone. 2007. <i>Atlas of the Breeding Birds of Nevada</i> . Reno: University of Nevada Press.	
Fordham, D. A., T. M. L. Wigley, and B. W. Brook. 2011. Multimodel climate projections for biodiversity risk assessments. <i>Ecological Applications</i> 21(8):3317-3331.	
Forman, R. T. T., and L. E. Alexander. 1998. Roads and their major ecological effects. <i>Annual Review of Ecology and Systematics</i> 8:629-644.	Forman and Alexander 1998

Franklin, J. F. 1993. Preserving biodiversity: Species, ecosystems, or landscapes? <i>Ecological Applications</i> 3:202-205.	Franklin 1993
Fry, J., G. Xian, S. Jin, J. Dewitz, C. Homer, L. Yang, C. Barnes, N. Herold, and J. Wickham. 2011. Completion of the 2006 National Land Cover Database for the Conterminous United States. <i>Photogrammetric Engineering and Remote Sensing</i> 77(9):858-864.	Fry et al. 2011
Garland, T. J., and W. G. Bradley. 1984. Effects of a highway on Mojave Desert rodent populations. <i>American Midland Naturalist</i> 111:47-56.	Garland and Bradley 1984
GBBO (Great Basin Bird Observatory). 2010. Nevada Comprehensive Bird Conservation Plan, ver. 1.0. Great Basin Bird Observatory, Reno, NV. Available online at www.gbbo.org/bird_conservation_plan.html	
Gelbard, J. L., and J. Belnap. 2003. Roads as conduits for exotic plants in a semi-arid landscape. <i>Conservation Biology</i> 17:420-432.	Gelbard and Belnap 2003
Germano, D. J., and D. N. Lawhead. 1986. Species diversity and habitat complexity: Does vegetation organize vertebrate communities in the Great Basin? <i>Great Basin Naturalist</i> 46:711-719.	Germano and Lawhead 1986
Germano, D. J., R. Hungerford, and M. S. Clark. 1983. Responses of selected wildlife species to the removal of mesquite from desert grassland. <i>Journal of Range Management</i> 36:309-311.	Germano et al. 1983
Germano, D., and C. R. Hungerford. 1981. Reptile population changes with manipulation of Sonoran Desert shrub. <i>Great Basin Naturalist</i> 41(1):129-138.	Germano and Hungerford 1981
Gibson, W. P., C. Daly, T. Kittel, D. Nychka, C. Johns, N. Rosenbloom, A. McNab, and G. Taylor. 2002. Development of a 103-year high-resolution climate data set for the conterminous United States. Pages 181-183 in: <i>Proceedings of the 13th AMS Conference on Applied Climatology</i> , American Meteorological Society, Portland, OR.	Gibson et al. 2002
Gleason, H. A. 1926. The individualistic concept of the plant association. <i>Bulletin of the Torrey Botanical Club</i> 53:7-26.	Gleason 1926
Gleick, P. H. 2010. Roadmap for sustainable water resources in southwestern North America. <i>PNAS</i> 107 (50): 21300–21305. Online: www.pnas.org/cgi/doi/10.1073/pnas.1005473107 .	
Glick, P., B. A. Stein, and N. A. Edelson, editors. 2011. <i>Scanning the Conservation Horizon: A Guide to Climate Change Vulnerability Assessment</i> . National Wildlife Federation, Washington, DC.	Glick et al. 2011
Gontier, M., U. Mörtberg, and B. Balfors. 2010. Comparing GIS-based habitat models for applications in EIA and SEA. <i>Environmental Impact Assessment Review</i> 30:8-18.	Gontier et al. 2010
González, C., Wang, O., Strutz, S.E., González-Salazar, C., Sánchez-Cordero, V., Sarkar, S., 2010. Climate change and risk of Leishmaniasis in North America: predictions from ecological niche models of vector and reservoir species. <i>PLoS neglected tropical diseases</i> 4, 1169-1180.	
Gonzalez, P., R. P. Neilson, J. M. Lenihan, and R. J. Drapek. 2010. Global patterns in the vulnerability of ecosystems to vegetation shifts due to climate change. <i>Global Ecology and Biogeography</i> 19:755-768.	

Goodrich, S. 1999. Multiple use management based on diversity of capabilities and values within pinyon-juniper woodlands. Pages 164-171 in: S. B. Monsen and R. Stevens, compilers. Proceedings RMRS-P-9. Ecology and management of pinyon-juniper communities within the Interior West: Sustaining and restoring a diverse ecosystem, 1997 September 15-18, Provo, UT. USDA Forest Service, Rocky Mountain Research Station, Ogden, UT.	Goodrich 1999
Goodrich, S., and D. Rooks. 1999. Control of weeds at a pinyon-juniper site by seeding grasses. Pages 403-407 in: S. B. Monsen and R. Stevens, compilers. Proceedings RMRS-P-9. Ecology and management of pinyon-juniper communities within the Interior West: Sustaining and restoring a diverse ecosystem, 1997 September 15-18, Provo, UT. USDA Forest Service, Rocky Mountain Research Station, Ogden, UT.	Goodrich and Rooks 1999
Gottfried, G. J., T. W. Swetnam, C. D. Allen, et al. 1995. Pinyon-juniper woodlands. Pages 95-132 in: D. M. Finch and J. A. Tainter, editors. Ecology, diversity, and sustainability of the Middle Rio Grande Basin. General Technical Report RM-GTR-268. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO.	Gottfried et al. 1995
Graf, W. G. 1999. Dam nation: A geographic census of American dams and their large-scale hydrologic impacts. <i>Water Resources Research</i> 35:1305-1311.	Graf 1999
Graf, W. G. 2006. Downstream Hydrologic and Geomorphic Effects of Large Dams on American Rivers. <i>Geomorphology</i> 79 (2006):336-360. DOI 10.1016/j.geomorph.2006.06.022.	
Grayson, D. K. 1993. <i>The desert's past: A natural prehistory of the Great Basin</i> . Smithsonian Institution Press, Washington, DC. 356 pp.	Grayson 1993
Great Basin Water Network (GBWN). 2011. Response to the Clark, Lincoln and White Pine Counties Groundwater Development Project DEIS.	
Gregory, S.V., F.J. Swanson, W.A. McKee, and K.W. Cummins. 1991. An Ecosystem Perspective of Riparian Zones. <i>BioScience</i> 41(8): 540-551.	
Grismer, L. L. 2002. <i>Amphibians and reptiles of Baja California including its Pacific islands and islands in the Sea of Cortes</i> . University of California Press, Berkeley. xiii + 399 pp.	Grismer 2002
Gross, J. E. 2005. Developing conceptual models for monitoring programs. National Park Service, Inventory and Monitoring Program, Fort Collins, CO. [http://science.nature.nps.gov/im/monitor/docs/Conceptual_Modelling.pdf]	Gross 2005
Groves, C. R. 2003. <i>Drafting a conservation blueprint: A practitioner's guide to planning for biodiversity</i> . Island Press, Washington, DC.	Groves 2003
Gucker, C. L. 2006. <i>Yucca brevifolia</i> . In: Fire Effects Information System [Online]. USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). [http://www.fs.fed.us/database/feis/] (accessed 2 January 2011).	Gucker 2006
Guisan, A., and W. Thuiller. 2005. Predicting species distribution: Offering more than simple habitat models. <i>Ecology Letters</i> 8:993-1009.	Guisan and Thuiller 2005
Hageman, K. J., S. L. Simonich, D. H. Campbell, G. R. Wilson, and D. H. Landers. 2006. Atmospheric deposition of current-use and historic-use pesticides in snow at national parks in the western United States. <i>Environmental Science & Technology</i> 40(10):3174-3180.	Hageman et al. 2006
Hagen, C. A., B. E. Jamison, K. M. Giesen, and T. Z. Riley. 2004. Guidelines for managing lesser prairie-chicken populations and their habitats. <i>Wildlife Society Bulletin</i> 32(1):69-82.	Hagen et al. 2004

Hak, J., and P. Comer. 2009. Great Basin Integrated Landscape Monitoring Analysis: 30 Years of Change. Report to U.S. Geological Survey, Biological Resources Division 19 p.	
Hall, R. O., M. F. Dybdahl, and M. C. Vander Loop. 2006. Extremely high secondary production of introduced snails in rivers. <i>Ecological Applications</i> 16(3):1121-1131.	Hall et al. 2006
Hamerlynck, E. P., J. R. McAuliffe, E. V. McDonald, and S. D. Smith. 2002. Ecological response of two Mojave Desert shrubs to soil horizon development and soil water dynamics. <i>Ecology</i> 83:768-779.	Hamerlynck et al. 2002
Hamilton, H., S. Auer, M. Padron, M. Fernandez, O. Alvarez, and S. Christensen. In prep. Climate space trends in the Greater Yellowstone Ecosystem: Implications for climate adaptation planning.	Hamilton et al. in prep
Hansen, A. J., R. L. Knight, J. M. Marzluff, S. Powell, K. Brown, P. H. Gude, and K. Jones. 2005. Impacts of exurban development on biodiversity: Patterns, mechanisms, and research needs. <i>Ecological Applications</i> 15:1893-1905.	Hansen et al. 2005
Harju, T. K. 2007. Modeling regional distribution and local food web dynamics of the New Zealand mud snail (<i>Potamopyrgus antipodarum</i>). M.S. thesis, Utah State University, Logan. 88 pp.	Harju 2007
Harper, M. P., and B. L. Peckarsky. 2006. Emergence cues of a mayfly in a high-altitude stream ecosystem: Potential response to climate change. <i>Ecological Applications</i> 16(2):612-621.	Harper and Peckarsky 2006
Harris, G. A. 1967. Some competitive relationships between <i>Agropyron spicatum</i> and <i>Bromus tectorum</i> . <i>Ecological Monographs</i> 37(2):89-111.	Harris 1967
Harris, G. A., and C. J. Goebel. 1976. Factors of plant competition in seeding Pacific Northwest bunchgrass ranges. Bulletin 820. Washington State University, College of Agriculture Research Center, Pullman, WA. 27 pp.	Harris and Goebel 1976
Hauer, F. R., B. J. Cook, M. C. Gilbert, E. J. Clairain Jr., and R. D. Smith. 2002. A regional guidebook for applying the hydrogeomorphic approach to assessing wetland functions of riverine floodplains in the northern Rocky Mountains. ERDC/EL TR-02-21. U.S. Army Corps of Engineers, Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS.	Hauer et al. 2002
He, Z., Z. Wang, C. J. Suen, and X. Ma. 2009. Climate change impacts on water availability in the Upper San Joaquin River watershed, California. [in review] [http://www.csufresno.edu/ees/Faculty&Staff/Wang/CV_Zhi_Wang.pdf]	He et al. 2009
Heath, J. E. 1965. Temperature regulation and diurnal activity in horned lizards. <i>University of California Publications in Zoology</i> 64 (3):97-136.	Heath 1965
Heilweil, V. M., and L. E. Brooks, L.E., editors. 2011. Conceptual Model of the Great Basin Carbonate and Alluvial Aquifer System. U.S. Department of the Interior, U.S. Geological Survey, Scientific Investigations Report 2010-5193.	
Heimann, D. C., and M. J. Roell. 2000 Sediment loads and accumulation in a small riparian wetland system in northern Missouri. <i>Wetlands</i> 20(2):219-231.	
Henny, C. J., R. J. Hallock, and E. F. Hill. 1994. Cyanide and migratory birds at gold mines in Nevada, USA. <i>Ecotoxicology</i> 3:45-58.	Henny et al. 1994
Henshaw, P.C. and Booth, D.B., 2000. Natural Restabilization of Stream Channels in Urban Watersheds. <i>Journal of the American Water Resources Association</i> 36(6):1219-1236.	
Hershler, R., and D. W. Sada. 2002. Biogeography of Great Basin aquatic snails of the genus <i>Pyrgulopsis</i> . <i>Smithsonian Contributions to the Earth Sciences</i> 33:255-276.	Hershler and Sada 2002

Hidy, G. M., and H. E. Klieforth. 1990. Atmospheric processes affecting the climate of the Great Basin. Pages 17-46 in: C. B. Osmond, L. F. Pitelka, and G. M. Hidy, editors. Plant biology of the Basin and Range. Springer-Verlag, New York, NY. 375 pp.	Hidy and Klieforth 1990
Hironaka, M., M. A. Fosberg, and A. H. Winward. 1983. Sagebrush-grass habitat types of southern Idaho. Forestry, Wildlife, and Range Experiment Station Bulletin No. 15, University of Idaho, Moscow. 44 pp.	Hironaka et al. 1983
Holland, V. L., and D. J. Keil. 1995. California vegetation. Kendall/Hunt Publishing Company, Dubuque, IA. 516 pp.	Holland and Keil 1995
Hostetler, S. W., J. R. Alder, A. M. and Allan. 2011. Dynamically downscaled climate simulations over North America: Methods, evaluation and supporting documentation for users: U.S. Geological Survey Open-File Report 2011-1238. 64 pp.	Hostetler et al. 2011
Houlahan, Jeff E. and Findlay, C. Scott. 2004. Effect of Invasive Plant Species on Temperate Wetland Plant Diversity. Conservation Biology v18, n4, pp. 1132-1138	
Hull, A. C., Jr., and J. F. Pechanec. 1947. Cheatgrass--a challenge to range research. Journal of Forestry 45(8):555-564.	Hull and Pechanec 1947
Hultine, K. R., S. E. Bush, A. G. West, and J. R. Ehleringer. 2007. Population structure, physiology and ecohydrological impacts of dioecious riparian tree species of western North America. Oecologia 154(1):85-93. Online: DOI 10.1007/s00442-007-0813-0.	Hultine et al. 2007
Hunsaker, C. A. Bytnerowicz, J. Auman, and R. Cisneros. 2007. Air Pollution and Watershed Research in the Central Sierra Nevada of California: Nitrogen and Ozone. Proceedings: Impacts of Air Pollution and Climate Change on Forest Ecosystems. The Scientific World 7(S1), 206–221. DOI 10.1100/tsw.2007.82.	
Hunter, M. L., Jr. 1990. Wildlife, forests, and forestry: Principles of managing forests for biological diversity. Prentice Hall Career & Technology, Englewood Cliffs, NJ. 370 pp.	Hunter 1990
Hunter, R. 1991. Bromus invasions on the Nevada Test Site: Present status of Bromus rubens and Bromus tectorum with notes on their relationship to disturbance and altitude. Great Basin Naturalist 51:176-182.	Hunter 1991
Hunter, R., F. B. Turner, R. G. Lindberg, and K.-B. Hunter. 1987. Effects of land clearing on bordering winter annual populations in the Mohave Desert. Great Basin Naturalist 47:234-238.	Hunter et al. 1987
Ingelfinger, F., and S. Anderson. 2004. Passerine response to roads associated with natural gas extraction in a sagebrush steppe habitat. Western North American Naturalist 64(3):385-395.	Ingelfinger and Anderson 2004
Ingersoll, G.P., M.A. Mast, D.H. Campbell, D.W. Clow, L. Nanus, and J.T. Turk. 2008. Trends in Snowpack Chemistry and Comparison to National Atmospheric Deposition Program Results for the Rocky Mountains, U.S., 1993–2004. Atmospheric Environment 42: 6098–6113. DOI 10.1016/j.atmosenv.2008.02.030	
IPCC [Intergovernmental Panel on Climate Change]. 2000. Emissions Scenarios. A Special Report of Working Group II of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge.	IPCC 2000
IPCC [Intergovernmental Panel on Climate Change]. 2007a. Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team: R. K. Pachauri and A. Reisinger, editors]. IPCC, Geneva, Switzerland. 104 pp.	IPCC 2007a

IPCC [Intergovernmental Panel on Climate Change]. 2007b. Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental. Panel on Climate Change, Cambridge University Press, Cambridge, UK.	IPCC 2007b
Isaak, D. J., C. H. Luce, B. E. Rieman, D. E. Nagel, E. E. Peterson, D. L. Horan, S. Parkes, and G. L. Chandler. 2010. Effects of climate change and wildfire on stream temperatures and salmonid thermal habitat in a mountain river network. <i>Ecological Applications</i> 20(5):1350-1371.	Isaak et al. 2010
Isaak, D. J., S. Wollrab, D. Horan, and G. Chandler. 2011. Climate change effects on stream and river temperatures across the northwest U.S. from 1980-2009 and implications for salmonid fishes. <i>Climatic Change</i> 0165-0009:1-26. DOI 10.1007/s10584-011-0326-z.	Isaak et al. 2011
Ito, T. Y., N. Miura, B. Lhagvasuren, D. Enkhbileg, S. Takatsuki, A. Tsunekawa, and Z. Jiang. 2005. Preliminary evidence of barrier effect of a railroad on the migration of Mongolian gazelles. <i>Conservation Biology</i> 19(3):945-948.	Ito et al. 2005
Jackson, S. T., J. L. Betancourt, R. K. Booth, and S. T. Gray. 2009. Ecology and the ratchet of events: Climate variability, niche dimensions, and species distributions. <i>Proceedings of the National Academy of Sciences</i> 106, supplement 2:19685-19692. Online: www.pnas.org/cgi/doi/10.1073/pnas.0901644106 .	Jackson et al. 2009
Jager, H. I., W. Van Winkle, and B. D. Holcomb. 1999. Would hydrologic climate changes in Sierra Nevada streams influence trout persistence? <i>Transactions of the American Fisheries Society</i> 128:222-240.	Jager et al. 1999
Janicki, A. 2008. Estimates Of Total Nitrogen, Total Phosphorus, Total Suspended Solids, And Biochemical Oxygen Demand Loadings To Tampa Bay, Florida: 2004-2007. Prepared for: Florida Department of Environmental Protection 2600 Blair Stone Road, MS 3500 Tallahassee, FL 32399	
Jenkins, R. E. 1976. Maintenance of natural diversity: Approach and recommendations. Pages 441-451 in: K. Sabol, editor. <i>Transactions of the forty-first North American Wildlife and Natural Resources conference</i> . March 21-25, 1976. Washington, DC.	Jenkins 1976
Jennings, B. W. 1991. Desert tortoise carcass surveys along State Highways 58 and 395, San Bernardino Co., California. Prepared for the USDI Bureau of Land Management, Riverside, CA.	Jennings 1991
Jiguet, F., Brotons, L., Devictor, V., 2011. Community responses to extreme climatic conditions. <i>Current Zoology</i> 57, 406-413.	Jiguet et al. 2011
Jimenez-Valverde, A., Lobo, J.M., 2007. Threshold criteria for conversion of probability of species presence to either-or presence-absence. <i>Acta Oecologica</i> 31, 361-369.	Jimenez-Valverde and Lobo 2007
Johansen, J. R., and L. St. Clair. 1986. Cryptogamic soil crusts: Recovery from grazing near Camp Floyd State Park, Utah. <i>Great Basin Naturalist</i> 45(4):632-640.	Johansen and St. Clair 1986
Johnson, K. A. 2000. <i>Artemisia tridentata ssp. vaseyana</i> . In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). [http://www.fs.fed.us/database/feis/] (accessed 2 January 2011).	Johnson 1999
Johnson, K. N., and M. Herring. 1999. Understanding bioregional assessments. In: K. N. Johnson, F. Swanson, M. Herring, and S. Greene, editors. <i>Bioregional assessments: Science at the crossroads of management and policy</i> . Island Press, Washington, DC.	Johnson and Herring 1999

Johnson, T. D., T. E. Kolb, and A. L. Medina. 2009. Do riparian plant community characteristics differ between <i>Tamarix</i> (L.) invaded and non-invaded sites on the upper Verde River, Arizona? <i>Biological Invasions</i> 12(8):2487-2497. DOI 10.1007/s10530-009-9658-2.	Johnson et al. 2009
Jones, B. F., D. L. Naftz, R. J. Spencer, and C. G. Oviatt. 2009. Geochemical evolution of Great Salt Lake, Utah, USA. <i>Aquatic Geochemistry</i> 15:95-121. DOI 10.1007/s10498-008-9047-y.	Jones et al. 2009
Jones, M. E., T. D. Paine, M. E. Fenn, and M. A. Poth. 2004. Influence of ozone and nitrogen deposition on bark beetle activity under drought conditions. <i>Forest Ecology and Management</i> 200:67-76. DOI 10.1016/j.foreco.2004.06.003.	
Karr, J. R., K. D. Fausch, P. L. Angermeier, P. R. Yant, and I. J. Schlosser. 1986. Assessment of biological integrity in running waters: A method and its rationale. <i>Illinois Natural History Survey Special Publication</i> 5.	Karr et al. 1986
Kartesz, J. T. 1999. A synonymized checklist and atlas with biological attributes for the vascular flora of the United States, Canada, and Greenland. First edition. In: J. T. Kartesz and C. A. Meacham. <i>Synthesis of the North American Flora, Version 1.0</i> . North Carolina Botanical Garden, Chapel Hill, NC.	
Keane, R. E., T. L. Frescino, M. C. Reeves, and J. Long. 2006. Mapping wildland fuels across large regions for the LANDFIRE prototype project. Pages 367-396 in: M. G. Rollins and C. Frame, editors. <i>The LANDFIRE Prototype Project: Nationally consistent and locally relevant geospatial data for wildland fire management</i> . General Technical Report RMRS-GTR-175. USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO.	Keane et al. 2006
Keeler-Wolf, T. 2007. Mojave Desert scrub vegetation. Pages 609-656 in: M. G. Barbour, T. Keeler-Wolf, and A. A. Schoenherr, editors. 2007. <i>Terrestrial vegetation of California</i> . Third edition. University of California Press, Berkeley.	Keeler-Wolf 2007
Keller, R., M. J. Drake, and D. M. Lodge. 2007. Fecundity as a basis for risk assessment of nonindigenous freshwater molluscs. <i>Conservation Biology</i> 21(1):191-200.	Keller et al. 2007
Kintsch, J. A., and D. L. Urban. 2002. Focal species, community representation, and physical proxies as conservation strategies: A case study in the Amphibolite Mountains, North Carolina, U.S.A. <i>Conservation Biology</i> 16:936-947.	Kintsch and Urban 2002
Knapp, P. A. 1992. Soil loosening process following the abandonment of two arid western Nevada townsites. <i>Great Basin Naturalist</i> 52(2):149-154.	Knapp 1992
Knapp, P. A. 1996. Cheatgrass (<i>Bromus tectorum</i> L.) dominance in the Great Basin Desert. <i>Global Environmental Change</i> 6:37-52.	Knapp 1996
Knick, S. T., and J. T. Rotenberry. 1995. Landscape characteristics of fragmented shrub steppe habitats and breeding passerine birds. <i>Conservation Biology</i> 9:1059-1071.	Knick and Rotenberry 1995
Knick, S. T., and S. E. Hanser. 2011. Connecting pattern and process in greater sage-grouse populations and sagebrush landscapes. In S. T. Knick and J. W. Connelly, editors. <i>Greater sage-grouse: Ecology and conservation of a landscape species and its habitats</i> . <i>Studies in Avian Biology Series</i> (volume 38), University of California Press, Berkeley.	Knick and Hanser 2011
Knick, S.T., D.S. Dobkin, J.T. Rotenberry, M.A. Schroeder, W.M. Vander Haegen, and C. van Riper III. 2003. Teetering on the edge or too late? Conservation and research issues for avifauna of sagebrush habitats. <i>Condor</i> 105:611-634.	Knick et al. 2003
Knight, D. H. 1994. <i>Mountains and plains: Ecology of Wyoming landscapes</i> . Yale University Press, New Haven, MA. 338 pp.	Knight 1994

Knight, D. H., G. P. Jones, Y. Akashi, and R. W. Myers. 1987. Vegetation ecology in the Bighorn Canyon National Recreation Area. Unpublished report prepared for the USDI National Park Service and University of Wyoming-National Park Service Research.	Knight et al. 1987
Knight, R. L., H. A. Knight, and R. J. Camp. 1993. Raven populations and land-use patterns in the Mojave Desert, California. <i>Wildlife Society Bulletin</i> 21:469-471.	
Komarkova, V., R. R. Alexander, and B. C. Johnston. 1988. Forest vegetation of the Gunnison and parts of the Uncompahgre national forests: A preliminary habitat type classification. General Technical Report RM-163. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO. 65 pp.	Komarkova et al. 1988
Krausman, P. R., M. C. Wallace, C. L. Hayes, and D. W. DeYoung. 1998. Effects of jet aircraft on mountain sheep. <i>The Journal of Wildlife Management</i> 62(4):1246-1254.	Krausman et al. 1998
Kremen, C., A. Cameron, A. Moilanen, S. J. Phillips, C. D. Thomas, H. Beentje, J. Dransfield, B. L. Fisher, F. Glaw, T. C. Good, G. J. Harper, R. J. Hijmans, D. C. Lees, E. Louis, Jr., R. A. Nussbaum, C. J. Raxworthy, A. Razafimpahanana, G. E. Schatz, M. Vences, D. R. Vieites, P. C. Wright, and M. L. Zjhra. 2008. Aligning conservation priorities across taxa in Madagascar with high-resolution planning tools. <i>Science</i> 320:222-226.	Kremen et al. 2008
Krzysik, A. J. 1997. Desert tortoise populations in the Mojave Desert and a half-century of military training activities. <i>Proceedings of the Conservation, Restoration, and Management of Tortoises and Turtles - An International Conference</i> . 1997:61-73.	Krzysik 1997
Lambeck, R. J. 1997. Focal species: A multi-species umbrella for nature conservation. <i>Conservation Biology</i> 11:849-856.	Lambeck 1997
Lawler, J. J., D. White, J. C. Sifneos, and L. L. Master. 2003. Rare species and the use of indicator groups for conservation planning. <i>Conservation Biology</i> 17:875-882.	Lawler et al. 2003
Lee, G. F., and A. Jones-Lee. 2005a. Municipal solid waste landfills - water quality issues. Pages 63-169 in: <i>Water Encyclopedia: Water Quality and Resource Development</i> . Wiley, Hoboken, NJ.	Lee and Jones-Lee 2005a
Lee, G. F., and A. Jones-Lee. 2005b. Monitoring the impacts of landfills during their active life. Report of G. Fred Lee & Associates, El Macero, CA.	Lee and Jones-Lee 2005b
Lee, G. F., and A. Jones-Lee. 2010. Flawed technology of landfill of municipal solid waste. [http://www.gfredlee.com/Landfills/SubtitleDFlawedTechnPap.pdf]	Lee and Jones-Lee 2010
Lee, T. C. K., F. Zwiers, X. Zhang, and M. Tsao. 2006. Evidence of decadal climate prediction skill resulting from changes in anthropogenic forcing. <i>Journal of Climate</i> 19:5305-5318.	Lee et al. 2006
Leu, M., S. E. Hanser, and S. T. Knick. 2008. The human footprint in the West: A large-scale analysis of anthropogenic impacts. <i>Ecological Applications</i> 18(5):1119-1139.	Leu et al. 2008
Lewis, M. E. 1971. Flora and major plant communities of the Ruby-East Humboldt Mountains with special emphasis on Lamoille Canyon. Unpublished report compiled for USDA Forest Service, Region IV, Ogden, UT. 62 pp.	Lewis 1971
Lin, Jeff P. 2004. Review of Published Export Coefficient and Event Mean Concentration (EMC) Data. Wetlands Regulatory Assistance Program ERDC TN-WRAP-04-3	
Link, S. O., W. J. Waugh, J. L. Downs, et al. 1994. Effects of coppice dune topography and vegetation on soil water dynamics in a cold-desert ecosystem. <i>Journal of Arid Environments</i> 27:265-278.	Link et al. 1994
Linsdale, J. M. 1938. Environmental responses of vertebrates in the Great Basin. <i>American Midland Naturalist</i> 19:1-206.	Linsdale 1938

Linsdale, J. M. 1940. Amphibians and reptiles in Nevada. Proceedings of the American Academy of Arts and Sciences 73:197-257.	Linsdale 1940
Liu, C., P. M. Berry, T. P. Dawson, and R. G. Pearson. 2005. Selecting thresholds of occurrence in the prediction of species distributions. <i>Ecography</i> 28:385-393.	Liu et al. 2005
Lobo, J.M., Baselga, A., Hortal, J., Jiménez-Valverde, A., Gómez, J.F., 2007. How does the knowledge about the spatial distribution of Iberian dung beetle species accumulate over time? <i>Diversity and Distributions</i> 13, 772-780.	Lobo et al. 2007
Lockwood, J. L., and M. L. McKinney. 2001. Biotic homogenization. Dordrecht, The Netherlands: Kluwer.	Lockwood and McKinney 2001
Lockwood, J. L., P. Cassey, and T. Blackburn. 2005. The role of propagule pressure in explaining species invasions. <i>Trends in Ecology and Evolution</i> 20:223-228.	Lockwood et al. 2005
Lodge, D. M. 2001. Responses of lake biodiversity to global changes. In: O. E. Sala, F. S. Chapin, and E. Huber-Sannwald, editors. <i>Future scenarios of global change</i> . Springer-Verlag, Berlin.	Lodge 2001
Lovich, J. E., and D. Bainbridge. 1999. Anthropogenic degradation of the southern California desert ecosystem and prospects for natural recovery and restoration. <i>Environmental Management</i> 24:309-326.	Lovich and Bainbridge 1999
Lowe, P. N., W. K. Lauenroth, and I. C. Burke. 2002. Effects of nitrogen availability on the growth of native grasses exotic weeds. <i>Journal of Range Management</i> 55(1):94-98.	Lowe et al. 2002
Lowry, J., R. D. Ramsey, K. Thomas, D. Schrupp, T. Sajwaj, J. Kirby, E. Waller, S. Schrader, S. Falzarano, L. Langs, G. Manis, C. Wallace, K. Schulz, P. Comer, K. Pohns, W. Rieth, C. Velasquez, B. Wolk, W. Kepner, K. Boykin, L. O'Brian, D. Bradford, B. Thompson, and J. Prior-Magee. 2007. Mapping moderate-scale land-cover over very large geographic areas within a collaborative framework: A case study of the Southwest Regional Gap Analysis Project (SWReGAP). <i>Remote Sensing and Environment</i> 108:59-73.	Lowry et al. 2007
Lyman, S.N. and M.S. Gustin. 2008. Speciation of Atmospheric Mercury at Two Sites in Northern Nevada, USA. <i>Atmospheric Environment</i> 42: 927–939. DOI 10.1016/j.atmosenv.2007.10.012.	
Lyman, S.N., M.S. Gustin, E.M. Prestbo, and F.J. Marsik. 2007. Estimation of Dry Deposition of Atmospheric Mercury in Nevada by Direct and Indirect Methods. <i>Environmental Science & Technology</i> 41: 1970-1976. DOI 10.1021/es062323m.	
MacArthur, R. H. and E. O. Wilson. 1967. <i>The Theory of Island Biogeography</i> . Princeton University Press. 203 pp.	
Mack, R. N. 1981. Invasion of <i>Bromus tectorum</i> L. into western North America: An ecological chronicle. <i>Agro-Ecosystems</i> 7:145-165.	Mack 1981
Mack, R., D. Simberloff, W. M. Lonsdale, H. Evans, M. Clout, and F. Bazzaz. 2000. Biotic invasions: Causes, epidemiology, global consequences and control. <i>Ecological Applications</i> 10(3):689-710.	Mack et al. 2000
MacMahon, J. A. 1988. Warm deserts. Pages 232-264 in M. G. Barbour and W. D. Billings, editors. <i>North American terrestrial vegetation</i> . Cambridge University Press, New York.	MacMahon 1988
Major, R. E., and H. Parsons. 2010. What do museum specimens tell us about the impact of urbanisation? A comparison of the recent and historical bird communities of Sydney. <i>Emu</i> 110(1):92-103.	Major and Parsons 2010

Manning, S. J. 1999. The effects of water table decline on groundwater-dependent Great Basin plant communities in the Owens Valley, CA. Pages 231-237 in: E. D. McArthur, W. K. Ostler, and C. L. Wambolt, compilers. Proceedings: Shrubland Ecotones; 1998 August 12-14; Ephraim, UT. USDA Forest Service Proceedings RMRS-P-11. USDA Forest Service, Rocky Mountain Research Station, For Collins, CO.	Manning 1999
Margules, C. R., and R. L. Pressey. 2000. Systematic conservation planning. <i>Nature</i> 405:243- 253.	Margules and Pressey 2000
Marmion, M., Parviainen, M., Luoto, M., Heikkinen, R.K., Thuiller, W., 2009. Evaluation of consensus methods in predictive species distribution modelling. <i>Diversity and Distributions</i> 15, 59-69.	Marmion et al. 2009
Marshall, K. A. 1995. <i>Larrea tridentata</i> . In: Fire Effects Information System [Online]. USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). [http://www.fs.fed.us/database/feis/] (accessed 2 January 2011).	Marshall 1995
Martin, J., M. C. Runge, J. D. Nichols, B. C. Lubow, and W. L. Kendall. 2009. Structured decision making as a conceptual framework to identify thresholds for conservation and management. <i>Ecological Applications</i> 19(5):1079-1090.	Martin et al. 2009
Martin, T. E. 2007. Climate correlates of 20 years of trophic changes in a high-elevation riparian system. <i>Ecology</i> 88(2):367-380.	Martin 2007
Martinez-Meyer, E. 2005. Climate change and biodiversity: Some considerations in forecasting shifts in species' potential distributions. <i>Biodiversity Informatics</i> 2:42-55.	Martinez-Meyer 2005
Mast, M. A., D. J. Manthorne, and D. A. Roth. 2010. Historical deposition of mercury and selected trace elements to high-elevation national parks in the western U.S. inferred from lake-sediment cores. <i>Atmospheric Environment</i> 44:2577-2586. DOI 10.1016/j.atmosenv.2010.04.024.	
Maurer, E. P., L. Brekke, T. Pruitt, and P. B. Duffy. 2007. Fine-resolution climate projections enhance regional climate change impact studies. <i>Eos, Transactions, American Geophysical Union</i> 88(47):504. [http://www.agu.org/eos_elec/2007/47-504.html]	Maurer et al. 2007
McCabe, G. J., and D. M. Wolock. 2009. Recent declines in western U.S. snowpack in the context of twentieth-century climate variability. <i>Earth Interactions</i> 13(12):1-15.	McCabe and Wolock 2009
McKinney, M. L., and J. L. Lockwood. 1999. Biotic homogenization: A few winners replacing many losers in the next mass extinction. <i>Trends in Ecology & Evolution</i> 14:450-453.	McKinney and Lockwood 1999
McKinney, T. S., and D. W. Anning. 2009. Geospatial data to support analysis of water-quality conditions in basin-fill aquifers in the southwestern United States. U.S. Geological Survey Scientific Investigations Report 2008-5239. [http://pubs.er.usgs.gov/sir/2008/5239]	McKinney and Anning 2009
McNab, W. H., D. T. Cleland, J. A. Freeouf, J. E. Keys, Jr., G. J. Nowacki, and C. A. Carpenter, compilers. 2007. Description of ecological subregions: Sections of the conterminous United States [CD-ROM]. General Technical Report WO-76B. USDA Forest Service, Washington, DC. 80 pp.	McNab et al. 2007
McNaughton, C. 2008. Mercury Concentrations in Fish: Implications of Dissolved Organic Matter (DOM) on Methylation Rates in Aquatic Systems. Utah Department of Health, Mercury Workgroup Meeting Presentation, January 31, 2008.	
McRae, B. H. 2006. Isolation by resistance. <i>Evolution</i> 60:1551-1561.	McRae 2006

McRae, B. H., and P. Beier. 2007. Circuit theory predicts gene flow in plant and animal populations. <i>Proceedings of the National Academy of Sciences of the USA</i> 104(50):19885-19890.	McRae and Beier 2007
McRae, B. H., and V. B. Shah. 2009. Circuitscape user's guide. The University of California, Santa Barbara. [http://www.circuitscape.org]	McRae and Shah 2009
McRae, B. H., B. G. Dickson, T. H. Keitt, and V. B. Shah. 2008. Using circuit theory to model connectivity in ecology and conservation. <i>Ecology</i> 10:2712-2724.	McRae et al. 2008
McRae, B. H. 2006. Isolation by resistance. <i>Evolution</i> 60:1551-1561	
Medica, P. A., F. B. Turner, and D. D. Smith. 1973. Effects of radiation on a fenced population of horned lizards (<i>Phrynosoma platyrhinos</i>) in southern Nevada. <i>Journal of Herpetology</i> 7:79-85.	Medica et al. 1973
Medina, A., and A. C. Martin. 1988. Stream channel and vegetation changes in section of McKnight Creek, New Mexico. <i>Great Basin Naturalist</i> 48(3):373-381.	Medina and Martin 1988
Meinke, C. W., S. T. Knick, and D. A. Pyke. 2009. A spatial model to prioritize sagebrush landscapes in the Intermountain West (U.S.A.) for restoration. <i>Restoration Ecology</i> 17:652-659	Meinke et al. 2009
Meinzer, F. C., C. S. Wisdom, A. Gonzales-Coloma, P. W. Rundel, and L. M. Shultz. 1990. Effects of leaf resin on stomatal behavior and gas exchange of <i>Larrea tridentata</i> . <i>Functional Ecology</i> 4:579-584.	Meinzer et al. 1990
Melack, J. M., J. Dozier, C. R. Goldman, D. Greenland, A. M. Milner, and R. J. Naiman. 1997. Effects of climate change on inland waters of the Pacific coastal mountains and western Great Basin of North America. <i>Hydrological Processes</i> 11:971-992.	Melack et al. 1997
Mensing, S., S. Livingston, and P. Barker. 2006. Long-term fire history in great basin sagebrush reconstructed from macroscopic charcoal in spring sediments, Newark Valley, Nevada. <i>Western North American Naturalist</i> 66:64-77.	
Merritt, D.M., M.L. Scott, N.L. Poff, G.T. Auble, and D.A. Lytle. 2010. Theory, Methods and Tools for Determining Environmental Flows for Riparian Vegetation: Riparian Vegetation-Flow Response Guilds. <i>Freshwater Biology</i> 55:206-225. DOI 10.1111/j.1365-2427.2009.02206.x.	
Middendorf, G. A., III, and W. C. Sherbrooke. 1992. Canid elicitation of blood-squirting in a horned lizard (<i>Phrynosoma cornutum</i>). <i>Copea</i> 1992:519-527.	Middendorf and Sherbrooke 1992
Mihlmester, P. E., J. B. Thomasian, and M. R. Riches. 1980. Environmental and health safety issues. Pages 731-762 in: W. C. Dickinson and P. N. Cheremisinoff, editors. <i>Solar Energy Technology Handbook</i> . Marcel Dekker, New York	Mihlmester et al. 1980
Milchunas, D. G., K. A. Schulz, and R. B. Shaw. 2000. Plant community structure in relation to long-term disturbance by mechanized military maneuvers in a semiarid region. <i>Environmental Management</i> 25:525-539.	Milchunas et al. 2000
Millar, C. I., and W. Wolfenden. 1999. The role of climate change in interpreting historic variability. <i>Ecological Applications</i> 9:1207-1216.	
Miller, D. M., S. P. Finn, A. Woodward, A. Torregrosa, M. E. Miller, D. R. Bedford, and A. M. Brasher. 2010. Conceptual ecological models to guide integrated landscape monitoring of the Great Basin. U.S. Geological Survey, Scientific Investigations Report 2010-5133. Reston, VA.	Miller et al. 2010

Miller, M. E. 2005. The structure and functioning of dryland ecosystems: Conceptual models to inform long-term ecological monitoring. U.S. Geological Survey, Scientific Investigations Report 2005-5197. 73 pp.	Miller 2005
Miller, R. F., and J. A. Rose. 1999. Fire history and western juniper encroachment in sagebrush steppe. <i>Journal of Range Management</i> 52:550-559.	
Miller, R. F., and P. E. Wiegand. 1994. Holocene changes in Pinyon-juniper woodlands. <i>Bioscience</i> 44:465-474.	Miller and Wiegand 1994
Miller, R. F., S. T. Knick, D. A. Pyke, C. W. Meinke, S. E. Hanser, M. J. Wisdom, and A. L. Hild. 2011. Characteristics of sagebrush habitats and limitations to long-term conservation. Pages 145-184 in: S. T. Knick and J. W. Connelly, editors. <i>Greater sage-grouse: Ecology and conservation of a landscape species and its habitats. Studies in Avian Biology (Volume 38)</i> , University of California Press, Berkeley.	Miller et al. 2011
Milly, P. C. D., J. Betencourt, M. Falkenmark, R. M. Hirsch, Z. W. Kundzewicz, D. P. Lettenmair, and R. J. Stouffer. 2008. Stationarity is dead: Whither water management? <i>Science</i> 319:573-574.	
Milstead, W. W. 1965. Changes in competing populations of whiptail lizards (<i>Cnemidophorus</i>) in southwestern Texas. <i>American Midland Naturalist</i> 73:75-80.	Milstead 1965
Minckley, W. L., P. C. Marsh, J. E. Deacon, T. E. Dowling, P. W. Hedrick, W. J. Matthews, and G. Mueller. 2003. A conservation plan for native fishes of the Lower Colorado River. <i>BioScience</i> 53(3):219-234.	Minckley et al. 2003
Minnich, R. A. 2007. Southern California conifers. Pages 502-538 in: M. G. Barbour, T. Keeler-Wolf, and A. A. Schoenherr, editors. <i>Terrestrial vegetation of California. Third edition</i> . University of California Press, Berkeley.	Minnich 2007
Moline, A. B., and N. L. Poff. 2008. Growth of an invertebrate shredder on native (<i>Populus</i>) and non-native (<i>Tamarix</i> , <i>Elaeagnus</i>) leaf litter. <i>Freshwater Biology</i> 53(5):1012-1020. DOI: 10.1111/j.1365-2427.2008.01960.x	
Moore, J., C. Rumsey, T. Knight, J. Nachlinger, P. Comer, D. Dorfman, and J. Humke. 2001. Mojave Desert: An ecoregion-based conservation blueprint. <i>The Nature Conservancy</i> , Las Vegas, NV. 150 pp. plus appendices.	Moore et al. 2001
Moritz, C., J. L. Patton, C. J. Conroy, J. L. Parra, G. C. White, and S. R. Beissinger. 2008. Impact of a century of climate change on small-mammal communities in Yosemite National Park, USA. <i>Science</i> 322:261-264.	Moritz et al. 2008
Morrison, M., and S. Fox. 2009. Bats associated with inactive mines in the Great Basin. <i>Western North American Naturalist</i> 69(1):6912.	Morrison and Fox 2009
Mosely, J. C., S. C. Bunting, and M. E. Manoukian. 1999. Cheatgrass. Pages 175-188 in: R. L. Sheley and J. K. Petroff, editors. <i>Biology and management of noxious rangeland weeds</i> . Oregon State University Press, Corvallis.	Mosely et al. 1999
Mote, P. W. 2006. Climate-driven variability and trends in mountain snowpack in western North America. <i>Journal of Climate</i> 19:6209-6220.	Mote 2006
Mulcahy, D. G., A. W. Spaulding, J. R. Mendelson, III, and E. D. Brodie, Jr. 2006. Phylogeography of the flat-tailed horned lizard (<i>Phrynosoma mcallii</i>) and systematics of the <i>P. mcallii-platyrhinus</i> mtDNA complex. <i>Molecular Ecology</i> 15(7):1807-1826.	Mulcahy et al. 2006
Nachlinger, J., K. Sochi, P. Comer, G. Kittel, and D. Dorfman. 2001. Great Basin: An ecoregion-based conservation blueprint. <i>The Nature Conservancy</i> , Reno, NV. 160 pp. plus appendices.	Nachlinger et al. 2001

Naftz, D., C. Fuller, J. Cederberg, D. Krabbenhoft, J. Whitehead, J. Garberg, and K. Beisner. 2009. Mercury Inputs to Great Salt Lake, Utah: Reconnaissance-Phase Results. <i>Natural Resources and Environmental Issues</i> 15, Issue 1, Saline Lakes Around the World: Unique Systems with Unique Values, Article 5. Online: http://digitalcommons.usu.edu/nrei/vol15/iss1/5 .	Naftz et al. 2009
Naphan E. A. 1966. Soils of the salt desert shrub areas and their productive capabilities. Pages 44-68 in: <i>Proceeding: Salt desert shrub symposium</i> . USDI, Bureau of Land Management. Cedar City, UT.	Naphan 1966
National Atmospheric Deposition Program (NADP). 2012. National Atmospheric Deposition Program Website, http://nadp.sws.uiuc.edu/ .	
NPCA [National Parks Conservation Association]. 2008. Dark Horizons: 10 National Parks Most Threatened by New Coal-Fired Power Plants. National Parks Conservation Association, Washington, DC. Online: http://www.npca.org/protecting-our-parks/air-land-water/clean-air/ .	NPCA 2008
NatureServe Explorer. 2007. Descriptions of Ecological Systems for the State of Washington. Data current as of October 06, 2007. NatureServe, Arlington, VA. [http://www.natureserve.org/explorer/index.htm]	
NatureServe Explorer. 2009. Descriptions of ecological systems for the state of Washington. Data current as of February 02, 2009. NatureServe, Arlington, VA. [http://www.natureserve.org/explorer/index.htm]	NatureServe Explorer 2009
NatureServe. 2009. Terrestrial ecological systems of the conterminous United States. Version 2.7. Completed in cooperation with USGS Gap Analysis Program and inter-agency LANDFIRE. MMU approx. 2 hectares. NatureServe, Arlington, VA. Digital map.	NatureServe 2009
Neff, J. C., A. P. Ballantyne, G. L. Farmer, N. M. Mahowald, J. L. Conroy, C. C. Landry, J. T. Overpeck, T. H. Painter, C. R. Lawrence, and R. L. Reynolds. 2008. Increasing eolian dust deposition in the western United States linked to human activity. <i>Nature</i> 1:189-195.	Neff et al. 2008
Neilson, R. P., J. M. Lenihan, D. Bachelet, and R. J. Drapek. 2005. Climate change implications for sagebrush ecosystems. In: <i>Transactions of the 70th North American Wildlife and Natural Resources Conference</i> (R. D. Sparrowe and L. H. Carpenter, co-chairs). Wildlife Management Institute.	Neilson et al. 2005
NDEP [Nevada Division of Environmental Protection]. 2005. Air Quality Permitted Coal-Fired Power Plants in Nevada. Nevada Division of Environmental Protection, Bureau of Air Quality Control. Online: http://ndep.nv.gov/docs_04/power_plants05.pdf .	NDEP 2005
NDEP [Nevada Division of Environmental Protection]. 2012 Mercury in Water. Online: http://ndep.nv.gov/mercury/water_monitoring.htm .	
Newbold, T. A. S. 2005. Desert horned lizard (<i>Phrynosoma platyrhinos</i>) locomotor performance: The influence of cheatgrass (<i>Bromus tectorum</i>). <i>Southwestern Naturalist</i> 50:17-23.	Newbold 2005
Newbold, T. A. S., and J. A. MacMahon. 2008. Consequences of cattle introduction in a shrubsteppe ecosystem: Indirect effects on desert horned lizards (<i>Phrynosoma platyrhinos</i>). <i>Western North American Naturalist</i> 68:291-302.	Newbold and MacMahon 2008
Newbold, T. A. S., and J. A. MacMahon. 2009. Spatial and seasonal dietary patterns of the desert horned lizard (<i>Phrynosoma platyrhinos</i>): Harvester ant specialist or generalist ant feeder? <i>Canadian Journal of Zoology</i> 87:112-123.	Newbold and MacMahon 2009

Newbold, T.A.S. 2005. Desert horned lizard (<i>Phrynosoma platyrhinos</i>) locomotor performance: the influence of cheatgrass (<i>Bromus tectorum</i>). <i>Southwestern Naturalist</i> 50:17-23.	
Nicholson, L. 1978. The effects of roads on desert tortoise populations. Pages 127-129 in: M. Trotter, editor. Proceedings of the 1978 symposium of the Desert Tortoise Council.	Nicholson 1978
Noss, R. F. 1987. From plant communities to landscapes in conservation inventories: A look at The Nature Conservancy (USA). <i>Biological Conservation</i> 41:11-37.	Noss 1987
Noss, R. F., C. Carroll, K. Vance-Borland, and G. Wuerthner. 2002. A multicriteria assessment of the irreplaceability and vulnerability of sites in the Greater Yellowstone Ecosystem. <i>Conservation Biology</i> 16(4):895-908.	Noss et al. 2002
Noss, R. F., E. T. LaRoe III, and J. M. Scott. 1995. Endangered ecosystems of the United States: A preliminary assessment of loss and degradation. USDI National Biological Service, Washington, DC (USA).	Noss et al. 1995
NRCS [USDA Natural Resources Conservation Service]. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. 663 pp.	NRCS 2006
NREL [National Renewable Energy Laboratory]. 1986. Wind energy resource atlas of the United States. National Renewable Energy Laboratory. [http://rredc.nrel.gov/wind/pubs/atlas/]	NREL 1986
NREL [National Renewable Energy Laboratory]. 2005. A geographic perspective on the current biomass resource availability in the United States. National Renewable Energy Laboratory. [http://www.nrel.gov/docs/fy06osti/39181.pdf]	NREL 2005
NREL [National Renewable Energy Laboratory]. 2005b. Southwest US DNI Filtered 5-percent High Resolution. National Renewable Energy Laboratory. http://www.nrel.gov/gis/data_solar.html	
NREL [National Renewable Energy Laboratory]. 2008a. Photovoltaic solar resource map of the United States. National Renewable Energy Laboratory. [http://www.nrel.gov/gis/data_analysis.html]	NREL 2008a
NREL [National Renewable Energy Laboratory]. 2008b. Biomass resources in the United States. National Renewable Energy Laboratory. [http://www.nrel.gov/docs/fy06osti/39181.pdf]	NREL 2008b
NREL [National Renewable Energy Laboratory]. 2010. Concentrating solar power resource maps. National Renewable Energy Laboratory. [http://www.nrel.gov/csp/maps.html]	NREL 2010
NSPECT [Nonpoint Source Pollution and Erosion Comparison Tool]. 2004. Nonpoint Source Pollution and Erosion Comparison Tool (NSPECT) User's Manual. Coastal Services Center National Oceanic and Atmospheric Administration. Version 8.x.	NSPECT 2004
Nussbaum, R. A., E. D. Brodie, Jr., and R. M. Storm. 1983. Amphibians and reptiles of the Pacific Northwest. University Press of Idaho, Moscow. 332 pp.	Nussbaum et al. 1983
Nydick, K. and K. Williams. 2010. Pilot Study of the Ecological Effects of Mercury Deposition in Mesa Verde National Park, Colorado. Mountain Studies Institute, Report 2010-01.	
Obrist, D., D. W. Johnson, and S. E. Lindberg. 2009. Mercury Concentrations and Pools in Four Sierra Nevada Forest Sites, and Relationships to Organic Carbon and Nitrogen. <i>Biogeosciences Discussions</i> 6:1777-1809. Online: www.biogeosciences-discuss.net/6/1777/2009/ .	

Obrist, D., D. W. Johnson, S. E. Lindberg, Y. Luo, O. Hararuk, R. Bracho, J. J. Battles, D. B. Dail, R. L. Edmonds, R. K. Monson, S. V. Ollinger, S. G. Pallardy, K. S. Pregitzer, and D. E. Todd. 2011. Mercury distribution across 14 U.S. forests, Part I: Spatial patterns of concentrations in biomass, litter, and soils. <i>Environmental Science & Technology</i> 45:3974-3981. DOI 10.1021/es104384m.	
Ode, P. R., C. P. Hawkins, and R. D. Mazor. 2008. Comparability of biological assessments derived from predictive models and multiindicator indices of increasing geographic scope. <i>Journal of the North American Benthological Society</i> 27(4):967-985.	Ode et al. 2008
Omernik, J. M. 1987. Ecoregions of the conterminous United States. <i>Annals of the Association of American Geographers</i> 77:118-125.	Omernik 1987
Omernik, J. M., and R. G. Bailey. 1997. Distinguishing between watersheds and ecoregions. <i>Journal of the American Water Resources Association</i> 33(5): 935-949.	Omernik and Bailey 1997
Opdam, P., J. Verboom, and R. Pouwels. 2003. Landscape cohesion: An index for the conservation potential of landscapes for biodiversity. <i>Landscape Ecology</i> 18:113-126.	Opdam et al. 2003
Orloff, S., and A. Flannery. 1992. Wind turbine effects on avian activity, habitat use, and mortality in Altamont Pass and Solano County Wind Resource Areas, 1989-1991. Final report to the California Energy Commission, Sacramento, CA. 150 pp.	Orloff and Flannery 1992
Orwell, G. 1951. <i>Animal Farm</i> .	Orwell 1951
Osborn, R. G., K. F. Higgins, R. E. Usgaard, C. D. Dieter, and R. D. Neiger. 2000. Bird mortality associated with wind turbines at the Buffalo Ridge Wind Resource Area, Minnesota. <i>The American Midland Naturalist</i> 143:41-52.	Osborn et al. 2000
Osborne, P. E., J. C. Alonso, and R. G. Bryant. 2001. Modelling landscape-scale habitat use using GIS and remote sensing: a case study with great bustards. <i>Journal of Applied Ecology</i> 38:458-471.	Osborn et al. 2001
Ostler, W. K., D. J. Hansen, D. C. Anderson, and D. B. Hall. 2000. Classification of vegetation on the Nevada Test Site. U.S. Department of Energy, DOE/NV/11718-477. Bechtel Nevada Ecological Services, Las Vegas, NV. 102 pp.	Ostler et al. 2000
Owens, P. N., K. A. Caley, S. Campbell, A. J. Koiter, I. G. Droppo, and Kevin G. Taylor. 2011. Total and size-fractionated mass of road-deposited sediment in the city of Prince George, British Columbia, Canada: Implications for air and water quality in an urban environment. <i>Journal of Soils Sediments</i> 11:1040-1051.	
Painter, T. H., A. P. Barrett, C. C. Landry, J. C. Neff, M. P. Cassidy, C. R. Lawrence, K. E. McBride, and G. L. Farmer. 2007. Impact of disturbed desert soils on duration of mountain snowcover. <i>Geophysical Research Letters</i> 34:L12502. 6 pp.	Painter et al. 2007
Parker, I. M., D. Simberloff, W. M. Lonsdale, K. Goodell, M. Wonham, P. M. Kareiva, M. H. Williamson, B. Von Holle, P. B. Moyle, J. E. Byers, and L. Goldwasser. 1999. Impact: Toward a framework for understanding the ecological effects of invaders. <i>Biological Invasions</i> 1:3-19.	Parker et al. 1999
Parmesan, C., and G. Yohe. 2003. A globally coherent fingerprint of climate change impacts across natural systems. <i>Nature</i> 421:37-42.	Parmesan and Yohe 2003
Parrish, J. D., D. P. Braun, and R. S. Unnasch. 2003. Are we conserving what we say we are? Measuring ecological integrity within protected areas. <i>BioScience</i> 53(9):851-860.	Parrish et al. 2003
Patten, D. T., L. Rouse, and J. C. Stromberg. 2007. Isolated spring wetlands in the Great Basin and Mojave deserts, USA: Potential response of vegetation to groundwater withdrawal. <i>Environmental Management</i> 41(3):398-413. Online: DOI 10.1007/s00267-007-9035-9.	Patten et al. 2007

Paysen, T. E., R. J. Ansley, J. K. Brown, et al. 2000. Fire in western shrubland, woodland, and grassland ecosystems. Pages 121-159 in: J. K. Brown and J. K. Smith, editors. Wildland fire in ecosystems: Effects of fire on flora. General Technical Report RMRS-GTR-42-volume 2. USDA Forest Service, Rocky Mountain Research Station, Ogden, UT.	Paysen et al. 2000
Pearson, R. G., W. Thuiller, M. B. Araújo, E. Martinez-Meyer, L. Brotons, C. McClean, L. Miles, P. Segurado, T. P. Dawson, and D. Lees. 2006. Model-based uncertainty in species' range prediction. <i>Journal of Biogeography</i> 33:1704-1711.	Pearson et al. 2006
Pellant, M. 1990. The cheatgrass wildfire cycle – are there any solutions? Pages 11-18 in E.D. McArthur, E.M. Romney, S.D. Smith, and P.T. Tueller, compilers. Proceedings – symposium on cheatgrass invasion, shrub die-off and other aspects of shrub biology and management. USDA Forest Service General Technical Report INT-276, Ogden, Utah, USA.	
Pellant, M. 1996. Cheatgrass: The invader that won the west. Interior Columbia Basin Ecosystem Management Project. 22 pp.	
Pellant, M., and C. Hall. 1994. Distribution of two exotic grasses on Intermountain rangelands: Status in 1992. Pages 109-112 in: S. B. Monsen and S. G. Kitchen, compilers. Proceedings--ecology and management of annual rangelands, 1992 May 18-22, Boise, ID. General Technical Report INT-GTR-313. USDA Forest Service, Intermountain Research Station, Ogden, UT.	Pellant and Hall 1994
Pellant, M., B. Abbey, and S. Karl. 2004. Restoring the Great Basin desert, USA: integrating science, management, and people. <i>Environmental Monitoring and Assessment</i> 99:169–179.	Pellant et al. 2004
Pellant, M., P. Shaver, D. A. Pyke and J. E. Herrick. 2005. Interpreting indicators of rangeland health, Version 4. Technical Reference 1734-6. U.S. Department of the Interior, Bureau of Land Management, National Science and Technology Center, Denver, CO. BLM/WO/ST-00.001+1734/REV05. 122 pp.	Pellant et al. 2005
Pepper, C. B., M. A. Nascarella, and R. A. Kendall. 2003. A review of the effects of aircraft noise on wildlife and humans, current control mechanisms and the need for further study. <i>Environmental Management</i> 32:418-432.	Pepper et al. 2003
Perry, C. H., M. C. Amacher, W. Cannon, R. K. Kolka, and L. Woodruff. 2009. The distribution of mercury in a forest floor transect across the central United States. Pages 103-108 in R. E. McRoberts, G. A. Reams, P. C. Van Deusen, and W. H. McWilliams, editors. Proceedings of the Eighth Annual Forest Inventory and Analysis Symposium, 2006. General Technical Report WO-79. USDA Forest Service, Research and Development, Washington, DC.	
Peters, E. F., and S. C. Bunting. 1994. Fire conditions pre- and postoccurrence of annual grasses on the Snake River Plain. Pages 31-36 in: S. B. Monsen and S. G. Kitchen, compilers. Proceedings--ecology and management of annual rangelands, 1992 May 18-22, Boise, ID. General Technical Report INT-GTR-313. USDA Forest Service, Intermountain Research Station, Ogden, UT.	Peters and Bunting 1994
Peterson, C., and M. Gustin. 2008. Mercury in the air, water and biota at the Great Salt Lake (Utah, USA). <i>Science of the Total Environment</i> 405:255-268. DOI 10.1016/j.scitotenv.2008.06.046.	
Peterson, C., M. Gustin, and S. Lyman. 2009. Atmospheric mercury concentrations and speciation measured from 2004 to 2007 in Reno, Nevada, USA. <i>Atmospheric Environment</i> 43:4646-4654. DOI 10.1016/j.atmosenv.2009.04.053.	Peterson et al. 2009

Peterson, E. B. 2005. Estimating cover of an invasive grass (<i>Bromus tectorum</i>) using tobit regression and phenology derived from two dates of Landsat ETM+ data. <i>International Journal of Remote Sensing</i> 26:2491-2507.	Peterson 2005
Peterson, E. B. 2006. A map of invasive annual grasses in Nevada derived from multitemporal Landsat 5 TM imagery. Report for the USDI Bureau of Land Management, Nevada State Office, Reno, by the Nevada Natural Heritage Program, Carson City, NV.	Peterson 2006
Phillips, S. J., M. Dudik, and R. E. Schapire. 2004. A maximum entropy approach to species distribution modeling. Pages 655-662 in: <i>Proceedings of the Twenty-First International Conference on Machine Learning</i> .	Phillips et al. 2004
Phillips, S. J., R. P. Anderson, and R. E. Schapire. 2006. Maximum entropy modeling of species geographic distributions. <i>Ecological Modelling</i> 190:231-259.	Phillips et al. 2006
Phillips, S. J., and M. Dudik. 2008. Modeling of species distributions with Maxent: New extensions and a comprehensive evaluation. <i>Ecography</i> 31:161-175.	Phillips and Dudik 2008
Pianka, E. R. 1991. <i>Phrynosoma platyrhinos</i> . <i>Catalogue of American Amphibians and Reptiles</i> 517.1-517.4.	Pianka 1991
Pianka, E. R., and W. S. Parker. 1975. Ecology of horned lizards: A review with special reference to <i>Phrynosoma platyrhinos</i> . <i>Copeia</i> 1975(1):141-162.	Pianka and Parker 1975
Pickford, G. D. 1932. The influence of continued heavy grazing and of promiscuous burning on spring-fall ranges in Utah. <i>Ecology</i> 13(2):159-171.	Pickford 1932
Pierce, J. 2012. Personal communication. Western Governors Association Landscape Working Group, State of Washington.	Pierce pers. comm. 2012
Pimm, S. L. 1989. Theories of predicting success and impact of introduced species. Pages 351-367 in: J. A. Drake, H. A. Mooney, F. diCastri, R. H. Groves, F. J. Kruger, M. Rejmànek, and M. Williamson, editors. <i>Biological invasions: A global perspective</i> . SCOPE 37, John Wiley and Sons, New York.	Pimm 1989
PLOAD. 2001. An ArcView GIS Tool to Calculate Nonpoint Sources of Pollution in Watershed and Stormwater Projects: User's manual v3.0.	
Poff, N. L., B. Richter, A. H. Arthington, S. E. Bunn, R. J. Naiman, E. Kendy, M. Acreman, C. Apse, B. P. Bledsoe, M. Freeman, J. Henriksen, R. B. Jacobson, J. Kennen, D. M. Merritt, J. O'Keefe, J. D. Olden, K. Rogers, R. E. Tharme, and A. Warner. 2010. The ecological limits of hydrologic alteration (ELOHA): A new framework for developing regional environmental flow standards. <i>Freshwater Biology</i> 55:147-170.	Poff et al. 2010
Poff, N., D. Allan, M. Bain, J. Karr, K. Prestegard, B. Richter, R. Sparks, and J. Stromberg. 1997. The natural flow regime: A paradigm for river conservation and restoration. <i>BioScience</i> 47(11):769-784.	Poff et al. 1997
Poff, N. L., and D. D. Hart. 2002. How dams vary and why it matters for the emerging science of dam removal. <i>BioScience</i> 52:659-738.	
Pringle, C. M. 2001. Hydrologic connectivity and the management of biological reserves: A global perspective. <i>Ecological Applications</i> 11:981-998.	Pringle 2001
Pringle, C. M., M. C. Freeman, and B. J. Freeman. 2000. Regional effects of hydrologic alterations on riverine macrobiota in the New World: Tropical-temperate comparisons. <i>BioScience</i> 50(9):807-823.	Pringle et al. 2000
Prose, D.V. 1985. Persisting effects of armored military maneuvers on some soils of the Mojave Desert. <i>Environmental Geology of Water Science</i> 7(3):163-170.	Prose 1985
Protected Areas Database of the United States (PADUS) version 1.2, April 2011. http://gapanalysis.usgs.gov/padus/	

Provencher, L., and T. Anderson. 2011. Climate Change Revisions to Nevada's Wildlife Action Plan: Vegetation Mapping and Modeling. Report to the Nevada Department of Wildlife	Provencher and Anderson 2011
Pruett, C. L., M. A. Patten, and D. H. Wolfe. 2009. Avoidance behavior by prairie grouse: Implications for wind energy development. <i>Conservation Biology</i> 23:1253-1259.	Pruett et al. 2009
Pryor, S. C., and T. E. Hoffer. 1991. A case study of pollutant transport from Los Angeles to the desert south-west. <i>Atmospheric Environment</i> 26A:243-250.	Pryor and Hoffer 1991
Pyke, D. A., and S. J. Novak. 1994. Cheatgrass demography--establishment attributes, recruitment, ecotypes, and genetic variability. Pages 12-21 in: S. B. Monsen and S. G. Kitchen, compilers. Proceedings--ecology and management of annual rangelands, 1992 May 18-22, Boise, ID. General Technical Report INT-GTR-313. USDA Forest Service, Intermountain Research Station, Ogden, UT.	Pyke and Novak 1994
Quinn, M. A. 2004. Influence of habitat fragmentation and crop system on Colombia Basin shrubsteppe communities. <i>Ecological Applications</i> 14:1634-1655.	Quinn 2004
Raffa, K. F., B. H. Aukema, B. J. Bentz, A. L. Carroll, J. A. Hicke, M. G. Turner, and W. H. Romme. 2008. Cross-scale drivers of natural disturbances prone to anthropogenic amplification: Dynamics of biome-wide bark beetle eruptions. <i>BioScience</i> 58:501-517.	Raffa et al. 2008
Ranalli, A. J., and D. L. Macalady. 2010. The importance of the riparian zone and in-stream processes in nitrate attenuation in undisturbed and agricultural watersheds: A review of the scientific literature. <i>Journal of Hydrology</i> 389:406-415	
Randall, J. M., S. S. Parker, J. Moore, B. Cohen, L. Crane, B. Christian, D. Cameron, J. MacKenzie, K. Klausmeyer, and S. Morrison. 2010. Mojave Desert ecoregional assessment. Unpublished report. The Nature Conservancy, San Francisco, CA. 106 pages plus appendices. [http://conserveonline.org/workspaces/mojave/documents/mojave-desert-ecoregional-2010/@@view.html]	Randall et al. 2010
Rao, L. E., and E. B. Allen. 2010. Combined Effects of Precipitation and Nitrogen Deposition on Native and Invasive Winter Annual Production in California Deserts. <i>Oecologia</i> (2010) 162:1035-1046. DOI 10.1007/s00442-009-1516-5.	
Rao, L. E., E. B. Allen, and T. Meixner. 2010. Risk-based determination of critical nitrogen deposition loads for fire spread in southern California deserts. <i>Ecological Applications</i> 20(5):1320-1335.	
Redford, K. H., E. W. Sanderson, J. G. Robinson, and A. Vedder. 2000. Landscape species and their conservation: Report from a WCS meeting, May 2000. Wildlife Conservation Society, Bronx, NY.	Redford et al. 2000
Reed, S. E., and A. M. Merenlender. 2008. Quiet, nonconsumptive recreation reduces protected area effectiveness. <i>Conservation Letters</i> 1(3):146-154.	Reed and Merenlender 2008
Reeder, T. W., and R. R. Montanucci. 2001. Phylogenetic analysis of the horned lizards (Phrynosomatidae: <i>Phrynosoma</i>): Evidence from mitochondrial DNA and morphology. <i>Copeia</i> 2001:309-323.	Reeder and Montanucci 2001
Reheis, M. C. 1997. Dust deposition downwind of Owens (dry) Lake, 1991-1994: Preliminary findings. <i>Journal of Geophysical Research</i> 102(D22):25,999-26,008.	Reheis 1997
Rehfeldt, G. E., N. L. Crookston, M. V. Warwell, and J. S. Evans. 2006. Empirical analysis of plant-climate relationships for the western United States. <i>International Journal of Plant Sciences</i> 167(6):1123-1150.	Rehfeldt et al. 2006

Reid, C. R., S. Goodrich, and J. E. Bowns. 2008. Cheatgrass and red brome: History and biology of two invaders. USDA Forest Service Proceedings RMRS-P-52. 6 pp.	
Reid, M. S., K. A. Schulz, P. J. Comer, M. H. Schindel, D. R. Culver, D. A. Sarr, and M. C. Damm. 1999. An alliance level classification of vegetation of the coterminous western United States. Unpublished final report to the University of Idaho Cooperative Fish and Wildlife Research Unit and National Gap Analysis Program, in fulfillment of Cooperative Agreement 1434-HQ-97-AG-01779. The Nature Conservancy, Western Conservation Science Department, Boulder, CO.	Reid et al. 1999
Revkin, A. C. 2009. California utility looks to Mojave Desert project for solar power. The New York Times. [http://www.nytimes.com/2009/02/12/science/earth/12solar.html]	Revkin 2009
Richards, D. C. Personal communication. EcoAnalysts, Inc., Bozeman, MT.	Richards pers. comm.
Richter, B. D., D. P. Braun, M. A. Mendelson, and L. L. Master. 1997. Threats to imperiled freshwater fauna. <i>Conservation Biology</i> 11:1081-1095.	Richter et al. 1997
Richter, B. D., J. V. Baumgartner, J. Powell, and D. P. Braun. 1996. A method for assessing hydrologic alteration within ecosystems. <i>Conservation Biology</i> 10:1163-1174.	
Rieman, B., D. Lee, D. Burns, R. Gresswell, M. Young, R. Stowell, J. Rinne, and P. Howell. 2003. Status of native fishes in the western United States and issues of fire and fuels management. <i>Forest Ecology and Management</i> 178(1-2):197-211.	
Riitters, K. H., and J. D. Wickham. 2003. How far to the nearest road? <i>Frontiers in Ecology and the Environment</i> 1:125-129.	Riitters and Wickham 2003
Rivera, S., N. E. West, A. J. Hernandez, and R. D. Ramsey. 2011. Predicting the impact of climate change on cheat grass (<i>Bromus tectorum</i>) invasibility for northern Utah: A GIS and remote sensing approach. <i>Natural Resources and Environmental Issues</i> 17(13).	Rivera et al. 2011
Rocchio, F. J., and R. C. Crawford. 2009. Monitoring Desired Ecological Conditions on Washington State Wildlife Areas Using an Ecological Integrity Assessment Framework. Washington Natural Heritage Program, Washington Department of Natural Resources, Olympia, WA.	
Rocchio, F. J., and R. C. Crawford. 2011. Applying NatureServe's Ecological Integrity Assessment Methodology to Washington's Ecological Systems. Washington Natural Heritage Program, Washington Department of Natural Resources, Olympia, WA.	Rocchio and Crawford 2011
Rollins, M. G., and C. Frame. 2006. The LANDFIRE Prototype Project: Nationally consistent and locally relevant geospatial data for wildland fire management. General Technical Report RMRS-GTR-175. USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO.	Rollins and Frame 2006
Rollins, M. G., R. E. Keane, R. A. and Parsons. 2004. Mapping fuels and fire regimes using remote sensing, ecosystem simulation, and gradient modeling. <i>Ecological Applications</i> 14:75-95.	Rollins et al. 2004
Rosen, P. C., and C. H. Lowe. 1994. Highway mortality of snakes in the Sonoran Desert of southern Arizona. <i>Biological Conservation</i> 68:143-148.	Rosen and Lowe 1994
Rosentreter, R. A., and D. J. Eldridge. 2002. Monitoring biodiversity and ecosystem function: Grasslands, deserts, and steppe. Pages 199-233 in: P. L. Nimis, C. Scheidegger, and P. A. Wolseley, editors. <i>Monitoring with lichens: Monitoring lichens</i> . Dordrecht: Kluwer Academic Publishers.	Rosentreter and Eldridge 2002

Rosentreter, R., and M. Pellant. No date. Site potential for biological soil crusts crust development based on biological and physical factors. Internal draft BLM document. [in prep]	Rosentreter and Pellant
Rowe, R. J. 2007. Legacies of land use and recent climate change: The small mammal fauna in the mountains of Utah. <i>The American Naturalist</i> 170:242-257.	Rowe 2007
Rowland, E. L., J. E. Davison, and L. J. Graumlich. 2011. Approaches to evaluating climate change impacts on species: A guide to initiating the adaptation planning process. <i>Environmental Management</i> . DOI 10.1007/s00267-010-9608-x.	
Sada, D. 2001. Springsnails of Nevada. Unpublished draft manuscript. Desert Research Institute, Reno, NV. 17 pp.	Sada 2001
Sada, D. W., J. E. Williams, J. C. Silvey, A. Halford, J. Ramakka, P. Summers, and L. Lewis. 2001. A guide to managing, restoring, and conserving springs in the western United States. Technical Reference 1737-17. USDI Bureau of Land Management, Denver, CO. 70 pp.	Sada et al. 2001
Sala, O. E., F. Stuart Chapin, III, J. J. Armesto, E. Berlow, J. Bloomfield, R. Dirzo, E. Huber-Sanwald, L. F. Huenneke, R. B. Jackson, A. Kinzig, R. Leemans, D. M. Lodge, H. A. Mooney, M. Oesterheld, N. L. Poff, M. T. Sykes, B. H. Walker, M. Walker, and D. H. Wall. 2000. Global biodiversity scenarios for the year 2100. <i>Science</i> 287:1770-1774.	Sala et al. 2000
Salathé, Jr., E. P., P. W. Mote, and M. W. Wiley. 2007. Review of scenario selection and downscaling methods for the assessment of climate change impacts on hydrology in the United States pacific northwest. <i>International Journal of Climatology</i> 27:1611-1621.	Salathé et al. 2007
Salo, L. F. 2005. Red brome (<i>Bromus rubens subsp madritensis</i>) in North America: Possible modes for early introductions, subsequent spread. <i>Biological Invasions</i> 7:165-180.	Salo 2005
Salomons, W., N. M. de Rooij, H. Kerdijk, and J. Brils. 1987. Sediments as a source for contaminants? <i>Hydrobiologia</i> 149:13-30.	Salomons et al. 1987
Sanders, R.D., K.H. Coale, G.A. Gill, A.H. Andrews, and M. Stephenson. 2008. Recent Increase in Atmospheric Deposition of Mercury to California Aquatic Systems Inferred from a 300-Year Geochronological Assessment of Lake Sediments. <i>Applied Geochemistry</i> 23 (2008) 399-407.	
Sanderson, E. W., K. H. Redford, A. Vedder, S. E. Ward, and P. B. Coppolillo. 2002. A conceptual model for conservation planning based on landscape species requirements. <i>Landscape and Urban Planning</i> 58:41-56.	Sanderson et al. 2002
Sanderson, E. W., M. Jaiteh, M. A. Levy, K. H. Redford, A. V. Wannebo, and G. Woolmer. 2002. The human footprint and the last wild. <i>BioScience</i> 52:891-904.	Sanderson et al. 2002
Saros, J. E., D. W. Clow, T. Blett, and A. P. Wolfe. 2010. Critical nitrogen deposition loads in high-elevation lakes of the western U.S. inferred from paleolimnological records. <i>Water Air Soil Pollution</i> , DOI 10.1007/s11270-010-0526-6.	
Sawyer, J. O., and T. Keeler-Wolf. 1995. A manual of California vegetation. California Native Plant Society, Sacramento. 471 pp.	Sawyer and Keeler-Wolf 1995
Sawyer, J. O., T. Keeler-Wolf, and J. Evens. 2009. A manual of California vegetation. Second edition. California Native Plant Society, Sacramento CA. 1300 pp.	Sawyer et al. 2009
Sayre, R., P. Comer, H. Warner, and J. Cress. 2009. A new map of standardized terrestrial ecosystems of the conterminous United States: U.S. Geological Survey Professional Paper 1768. 17 pp.	Sayre et al. 2009

Scanlon, B.R., R.C. Reedy, D.A. Stonestrom, D.E. Prudicz and K.F. Dennehy. 2005. Impact of land use and land cover change on groundwater recharge and quality in the Southwestern US. <i>Global Change Biology</i> 11:1577–1593	
Schlatterer, E. F. 1972. A preliminary description of plant communities found on the Sawtooth, White Cloud, Boulder, and Pioneer mountains. Unpublished report prepared for USDA Forest Service, Intermountain Region, Ogden, UT. On file with USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory, Missoula, MT. 111 pp.	Schlatterer 1972
Schoenherr, A. A., and J. H. Burk. 2007. Colorado Desert vegetation. Pages 657-682 in: M. G. Barbour, T. Keeler-Wolf, and A. A. Schoenherr, editors. <i>Terrestrial vegetation of California</i> . Third edition. University of California Press, Berkeley.	Schoenherr and Burk 2007
Schumaker, N. H. 1996. Using landscape indicators to predict habitat connectivity. <i>Ecology</i> 77(4):1210-1225.	Schumaker 1996
Schwindt, A. R., J. W. Fournie, D. H. Landers, C. B. Schreck, and M .L. Kent. 2008. Mercury Concentrations in Salmonids from Western U.S. National Parks and Relationships with Age and Macrophage Aggregates. <i>Environmental Science and Technology</i> 42:1365-1370. DOI 10.1021/es702337m.	
Schwinning, S., B. I. Starr, and J. R. Ehleringer. 2003. Summer and winter drought in a cold desert ecosystem (Colorado Plateau). Part 1: Effects on soil water and plant water uptake. <i>Journal of Arid Environments</i> 60(4):547-566.	Schwinning et al. 2003
Science AGILE (Association of Geographic Information Labs Europe), Girona, Spain. 7	
Scott, N. A., S. Saggar, and P. D. McIntosh. 2001. Biogeochemical impact of Hieracium invasion in New Zealand's grazed tussock grasslands: Sustainability implications. <i>Ecological Applications</i> 11(5):1311-1322.	
Scudder, B.C., L.C. Chasar, D.A. Wentz, N.J. Bauch, M.E. Brigham, P.W. Moran, and D.P. Krabbenhoft. 2009. Mercury in Fish, Bed Sediment, and Water from Streams across the United States, 1998–2005. U.S. Department of the Interior, U.S. Geological Survey, Scientific Investigations Report 2009-5109. Reston, Virginia.	
Seager, R., M. Ting, I. Held, Y. Kushnir, J. Lu, G. Vecchi, H. P. Huang, N. Harnik, A. Leetmaa, N. C. Lau, C. Li, J. Velez, and N. Naik. 2007. Model projections of an imminent transition to a more arid climate in southwestern North America. <i>Science</i> 316:1181-1184.	Seager et al. 2007
Seavy, N. E., T. Gardali, G. H. Golet, F. T. Griggs, C. A. Howell, R. Kelsey, S. L. Small, J. H. Viers, and J. F. Weigand. 2009. Why climate change makes riparian restoration more important than ever: Recommendations for practice and research. <i>Ecological Restoration</i> 27(3):330-338.	Seavy et al. 2009
Seiler, A. 2001. Ecological Effects of Roads, A review. Introductory Research Essay No. 9. Department of Conservation Biology, Swedish University of Agricultural Science, Upsalla.	Seiler 2001
Selin, N. E. 2009. Global Biogeochemical Cycling of Mercury: A Review. <i>Annual Review of Environment and Resources</i> 34:43-63. DOI 10.1146/annurev.enviro.051308.084314.	
Shah, V. B. 2007. An interactive system for combinatorial scientific computing with an emphasis on on programmer productivity. PhD. thesis, University of California, Santa Barbara. 204 pp.	Shah 2007

Shah, V. B., and B. H. McRae. 2008. Circuitscape: A tool for landscape ecology. Pages 62-66 in: G. Varoquaux, T. Vaught, and J. Millman, editors. Proceedings of the 7th Python in Science Conference (SciPy 2008).	Shah and McRae 2008
Sharifi, M. R., A. C. Gibson, and P. W. Rundel. 1999. Phenological and physiological responses of heavily dusted creosote bush (<i>Larrea tridentata</i>) to summer irrigation in the Mojave Desert. <i>Flora</i> 194:369-378.	Sharifi et al. 1999
Shepard, W. D. 1993. Desert springs-both rare and endangered. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> 3(4):351-359.	Shepard 1993
Sherbrooke, W. C., and G. A. Middendorf, III. 2004. Responses of kit foxes (<i>Vulpes macrotis</i>) to antipredator blood-squirting and blood of Texas horned lizards (<i>Phrynosoma cornutum</i>). <i>Copeia</i> 2004:652-658.	Sherbrooke and Middendorf 2004
Shiflet, T. N., editor. 1994. Rangeland cover types of the United States. Society for Range Management. Denver, CO. 152 pp.	Shiflet 1994
Shigesada, N., and K. Kawasaki. 1997. Biological Invasions: Theory and Practice. Oxford University Press, New York, NY.	Shigesada and Kawasaki 1997
Shinneman, D. J., and W. L. Baker. 2009. Environmental and climate variables of potential drivers of post-fire cover of cheatgrass (<i>Bromus tectorum</i>) in seeded and unseeded semiarid ecosystems. <i>International Journal of Wildland Fire</i> 18:191-202.	Shinneman and Baker 2009
Shupe, J. B., and J. D. Brotherson. 1985. Differential effects of cattle and sheep grazing on high mountain meadows in the Strawberry Valley of central Utah. <i>Great Basin Naturalist</i> 45(1):141-149.	Shupe and Brotherson 1985
Smith, D. C., S. E. Meyer, and V. J. Anderson. 2008. Factors affecting <i>Bromus tectorum</i> seed bank carryover in western Utah. <i>Rangeland Ecology and Management</i> 61:430-436.	
Sogge, M. K., S. J. Sferra, and E. H. Paxton. 2008. Tamarix as habitat for birds: Implications for riparian restoration in the Southwestern United States. <i>Restoration Ecology</i> 16(1):146-154.	
Soller, D. R., M. C. Reheis, C. P. Garrity, and D. R. Van Sistine. 2009. Map database for surficial materials in the conterminous United States, 2009. Data Series, 425, scale 1:5,000,000.	Soller et al. 2009
Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K. B. Averyt, M. Tignor, and H. L. Miller, editors. 2007. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.	Solomon et al. 2007
Southern Nevada Water Authority (SNWA). 2011. Clark, Lincoln, and White Pine Counties Groundwater Development Project Conceptual Plan of Development. March 2011, Southern Nevada Water Authority, Las Vegas, Nevada.	
Spaulding, S. A., and L. Elwell. 2007. Increase in nuisance blooms and geographic expansion of the freshwater diatom <i>Didymosphenia geminata</i> . U.S. Geological Survey Open-File Report 2007-1425. 38 pp.	Spaulding and Elwell 2007
St. Amand, P., L. Mathews, C. Gaines, and R. Reinking. 1986. Dust storms from Owens and Mono lakes. TP. 6731. Naval Weapons Center, China Lake, CA.	St. Amand et al. 1986
St. John, A. 2002. Reptiles of the northwest. Lone Pine Publishing, Renton, WA. 272 pp.	St. John 2002
Stebbins, R. C. 2003. A field guide to western reptiles and amphibians. Third edition. Houghton Mifflin Company, Boston.	Stebbins 2003

Steiger, J. W., and R. H. Webb. 2000. Recovery of perennial vegetation in military target sites in the eastern Mojave Desert, Arizona. U.S. Geological Survey Open-File Report OF 00-355. [http://geology.usgs.gov/open-file]	Steiger and Webb 2000
Stephenson, N. 1998. Actual evapotranspiration and deficit: Biologically meaningful correlates of vegetation distribution across spatial scales. <i>Journal of Biogeography</i> 25:855-870.	Stephenson 1998
Stephenson, N. L. 1990. Climatic control of vegetation distribution: The role of the water balance. <i>The American Naturalist</i> 135(5):649-670.	Stephenson 1990
Stewart, G., and A. C. Hull, Jr. 1949. Cheatgrass (<i>Bromus tectorum</i> L.)--an ecologic intruder in southern Idaho. <i>Ecology</i> 30:58-74.	Stewart and Hull 1949
Stoms, D. M., P. J. Comer, P. J. Crist, and D. H. Grossman. 2005. Choosing surrogates for biodiversity conservation in complex planning environments. <i>Journal of Conservation Planning</i> 1:44-63.	Stoms et al. 2005
Stone, C. P., C. W. Smith, and J. T. Tunison, editors. 1992. Alien plant invasions in native ecosystems of Hawaii: Management and research. University of Hawaii Cooperative National Park Resources Studies Unit, Honolulu. ISBN:0-8248-1474-6.	Stone et al. 1992
Stotler, R., and B. Crandall-Stotler. 1977. A checklist of liverworts and hornworts of North America. <i>The Bryologist</i> 80:405-428.	
Stromberg, J., M. K. Chew, P. L. Nagler, and E. P. Glenn. 2009. Changing perceptions of change: The role of scientists in Tamarix and river management. <i>Restoration Ecology</i> 17(2):177-186.	Stromberg et al. 2009
Sutherland, R. A., and C. A. Tolosa. 2000. Variation in total and extractable elements with distance from roads in an urban watershed, Honolulu, Hawaii. <i>Water, Air, and Soil Pollution</i> 127:315-338.	
Swift, T. L., and S. J. Hannon. 2010. Critical thresholds associated with habitat loss: A review of the concepts, evidence and applications. <i>Biological Review</i> 85:35-53.	Swift and Hannon 2010
Tabor, K., and J. W. Williams. 2010. Globally downscaled climate projections for assessing the conservation impacts of climate change. <i>Ecological Applications</i> 20:554-565.	Tabor and Williams 2010
Tanner, W. W., and J. E. Krogh. 1973. Ecology of <i>Phrynosoma platyrhinos</i> at the Nevada Test Site, Nye County, Nevada. <i>Herpetologica</i> 29:327-342.	Tanner and Krogh 1973
Taylor, F. R., L. A. Gillman, and J. W. Pedretti. 1989. Impact of cattle on two isolated fish populations in Pahranaagat Valley, Nevada. <i>Great Basin Naturalist</i> 49(4):491-495.	Taylor et al. 1989
Tebaldi, C., J. M. Arblaster, and R. Knutti. 2011. Mapping model agreement on future climate projections. <i>Geophysical Research Letters</i> 38, L23701.	Tebaldi et al. 2011
Tebaldi, C., and R. Knutti. 2007. The use of the multi-model ensemble in probabilistic climate projections. <i>Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> 365:2053-2075.	Tebaldi and Knutti 2007
The Nature Conservancy Ecoregional Portfolio Sites, 1990s-2000. http://maps.tnc.org/files/metadata/ERA_STEWARD_TNC_Portfolio_Terr_Phase1.xml	
Theobald, D. M. 2001. Land-use dynamics beyond the American urban fringe. <i>Geographical Review</i> 91(3):544-564.	Theobald 2001
Theobald, D. M. 2005. Landscape patterns of exurban growth in the USA from 1980 to 2020. <i>Ecology and Society</i> 10(1):32. [http://www.ecologyandsociety.org/vol10/iss1/art32/]	Theobald 2005

Theobald, D. M. 2008. Network and accessibility methods to estimate the human use of ecosystems. Proceedings of the International Conference on Geographic Information Science AGILE (Association of Geographic Information Labs Europe), Girona, Spain. 7 pp.	Theobald 2008
Theobald, D. M. 2010. Estimating natural landscape changes from 1992 to 2030 in the conterminous US. <i>Landscape Ecology</i> 25:999-1011.	Theobald 2010
Theobald, D. M., D. L. Stevens, Jr., D. White, N. S. Urquhart, A. R. Olsen, and J. B. Norman. 2007. Using GIS to generate spatially-balanced random survey designs for natural resource applications. <i>Environmental Management</i> 40(1):134-146.	Theobald et al. 2007
Theobald, D. M., D. M. Merritt, and J. B. Norman, III. 2010a. Assessment of threats to riparian ecosystems in the western U.S. Prepared for the Western Environmental Threats Assessment Center, Prineville, OR. June 2010.	Theobald et al. 2010a
Theobald, D. M., J. B. Norman, III, and P. Newman. 2010b. Estimating visitor use of protected areas by modeling accessibility: A case study in Rocky Mountain National Park, Colorado, USA. <i>Journal of Conservation Planning</i> 6:1-20.	Theobald et al. 2010b
Thomas, K., T. K. Keeler-Wolf, J. Franklin, and P. Stine. 2004. Central Mojave vegetation database final report. Prepared for Mojave Desert Ecosystem Program, U.S. Geological Survey, Western Ecological Research Center & Southwest Biological Science Center. 251 pp.	Thomas et al. 2004
Thompson, B. C., P. L. Matusik-Rowan, and K. G. Boykin. 2002. Prioritizing conservation potential of arid-land montane natural springs and associated riparian areas. <i>Journal of Arid Environments</i> 50(4):527-547.	Thompson et al. 2002
Thompson, C. R. 1995. Air pollution effects on desert plants. Pages 481-488 in: J. Latting, and P. G. Rowlands, editors. <i>The California desert: An introduction to natural resources and man's impact</i> . Volume II. June Latting Books, Riverside, CA.	Thompson 1995
Thompson, C. R., G. Kats, and R. W. Lennox. 1980. Effects of SO ₂ and/or NO ₂ on native plants of the Mojave Desert and eastern Mojave-Colorado Desert. <i>Journal of the Air Pollution Control Association</i> 30:1304-1309.	Thompson et al. 1980
Thorne, R. F., A. A. Schoenherr, C. D. Clements, and J. A. Young. 2007. Transmontane coniferous vegetation. Pages 574-586 in: M. G. Barbour, T. Keeler-Wolf, and A. A. Schoenherr, editors. <i>Terrestrial vegetation of California</i> . Third edition. University of California Press, Berkeley.	Thorne et al. 2007
Tinkle, D. W., and A. E. Dunham. 1983. Demography of the tree lizard, <i>Urosaurus ornatus</i> , in central Arizona. <i>Copeia</i> 1983:585-598.	Tinkle and Dunham 1983
Tirmenstein, D. 1999. <i>Artemisia tridentata</i> ssp. <i>tridentata</i> . In: Fire Effects Information System [Online]. USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). [http://www.fs.fed.us/database/feis/] (accessed 2 January 2011).	Tirmenstein 1999
TNC [The Nature Conservancy]. 2001. Ecoregion-based conservation in the Mojave Desert. Mojave Desert Ecoregional Planning Team. Unpublished report by TNC California Field Office and TNC Nevada Field Office, Las Vegas, NV. 148 pp. plus appendices.	TNC 2001
Tobler, W. R. 1970. A computer movie simulating urban growth in the Detroit region. <i>Economic Geography</i> . 46: 234-240.	
Tonnesen, G., Z. Wang, M. Omary, and C. J. Chien. 2007. Assessment of Nitrogen Deposition: Modeling and Habitat Assessment. California Energy Commission, PIER Energy-Related Environmental Research. CEC-500-2005-032.	

Trimble, S. 1989. The sagebrush ocean: A natural history of the Great Basin. University of Nevada Press, Reno, NV. 248 pp.	Trimble 1989
Trombulak, S. C., and C. A. Frissel. 1999. Review of ecological effects of roads on terrestrial and aquatic communities. <i>Conservation Biology</i> 14:18-30.	Trombulak and Frissel 1999
Trzcinski, M. K., L. Fahrig, and G. Merriam. 1999. Independant effects of forest cover and fragmentation on the distribution of forest breeding birds. <i>Ecological Applications</i> 9(2):586-593.	Trzcinski et al. 1999
Tueller, P. T., and R. E. Eckert, Jr. 1987. Big sagebrush (<i>Artemisia tridentata vaseyana</i>) and longleaf snowberry (<i>Symphoricarpos oreophilus</i>) plant associations in northeastern Nevada. <i>Great Basin Naturalist</i> 47(1):117-131.	Tueller and Eckert 1987
Turnbull, L., J. Wainwright, and R. E. Brazier. 2008. A conceptual framework for understanding semi-arid land degradation: Ecohydrological interactions across multiple-space and time scales. <i>Ecohydrology</i> 1:23-34. DOI: 10.1002/eco.4.	
Turner, R. M. 1982. Mohave desertscrub. Pages 157-168 in: D. E. Brown, editor. <i>Biotic communities of the American Southwest-United States and Mexico</i> . Desert Plants Special Issue 4(1-4).	Turner 1982
Underwood, E. C., and B. L. Fisher. 2006. The role of ants in conservation monitoring: If, when, and how. <i>Biological Conservation</i> 132:166-182.	Underwood and Fisher 2006
University of Montana, Division of Biological Sciences. 2001. INVADERS Database System [Online]. [http://invader.dbs.umt.edu/]	University of Montana 2001
Unnasch, R. S., D. P. Braun, P. J. Comer, and G. E. Eckert. 2008. The Ecological Integrity Assessment Framework: A framework for assessing the ecological integrity of biological and ecological resources of the National Park System. Report to the National Park Service.	Unnasch et al. 2008
USACE [U.S. Army Corps of Engineers]. 2008. National inventory of dams. U.S. Army Engineer Research and Development Center, U.S. Army Corps of Engineers. [http://www.erdc.usace.army.mil/pls/erdcpub/docs/erdc/images/ERDC_FS_Product_NID.pdf]	USACE 2008
USBOR [U.S. Bureau of Reclamation]. 2011. Reclamation, SECURE Water Act Section 9503(c) - Reclamation Climate Change and Water, Report to Congress, 2011. Report prepared for the United States Congress by the U.S. Department of the Interior Bureau of Reclamation, April 2011.	USBOR 2011
USBOR [U.S. Bureau of Reclamation]. 2012. Lower Colorado River Multi-Species Conservation Program. U.S. Department of the Interior Bureau of Reclamation. [http://www.lcrmscp.gov/]	USBOR 2012
USDA [U.S. Department of Agriculture]. 2007. Agriculture census of the United States. U.S. Department of Agriculture, National Agricultural Statistics Service. [http://www.agcensus.usda.gov/]	USDA 2007
USDI [U.S. Departments of the Interior]. 2008. Inventory of onshore Federal oil and natural gas resources and restrictions to their development. Prepared by the U.S. Departments of the Interior, Agriculture and Energy. [http://www.blm.gov/wo/st/en/prog/energy/oil_and_gas/EPCA_III.html]	USDI 2008

USEPA [U.S. Environmental Protection Agency] (Bierwagen, B., D. M. Theobald, C. R. Pyke, A. Choate, P. Groth, J. V. Thomas, and P. Morefield). 2009. Land-use scenarios: National-scale housing-density scenarios consistent with climate change storylines. EPA/600/R-08/076F. Global Change Research Program, National Center for Environmental Assessment, Washington, DC. http://www.epa.gov/ncea .	USEPA 2009
USEPA [U.S. Environmental Protection Agency]. 2004. Overview of Current Total Maximum Daily Load - TMDL - Program and Regulations. Available at http://www.epa.gov/owow/tmdl.html . Accessed on August 23, 2012.	USEPA 2004
USEPA [U.S. Environmental Protection Agency]. 2005. Use of biological information to better define designated aquatic life uses in state and tribal water quality standards: Tiered aquatic life uses. EPA-822-R-05-001. Draft, August 10, 2005.	USEPA 2005
USEPA [U.S. Environmental Protection Agency]. 2007. Level III ecoregions of the conterminous United States. Map. [http://www.epa.gov/wed/pages/ecoregions/level_iii_iv.htm#Level III]	USEPA 2007
USEPA [U.S. Environmental Protection Agency]. 2009. The National Study of Chemical Residues in Lake Fish Tissue. U.S. Environmental Protection Agency, Office of Water, EPA-823-R-09-006. Washington, D.C.	
USEPA [U.S. Environmental Protection Agency]. 2010. ICLUS v1.3 User's Manual: ArcGIS Tools and Datasets for Modeling US Housing Density Growth. Global Change Research Program, National Center for Environmental Assessment, Washington, DC; EPA/600/R-09/143F. Available from the National Technical Information Service, Springfield, VA, and online at http://www.epa.gov/ncea/global .	USEPA 2010
USEPA [U.S. Environmental Protection Agency]. 2011. National Center for Environmental Research. [website: http://epa.gov/ncer] (accessed 2011).	USEPA 2011
USFWS [U.S. Fish & Wildlife Service]. 2003. Biological assessment for the proposed addition of maneuver training land at Fort Irwin, CA. Executive summary. U.S. Fish & Wildlife Service. [http://www.fortirwinlandexpansion.com/BA.htm]	USFWS 2003
USGCRP [U.S. Global Change Research Program]. 2009. Global climate change impacts in the United States. U.S. Global Change Research Program report. Cambridge University Press. 189 pp.	USGCRP 2009
USGS [U.S. Geological Survey]. 2006. National hydrography dataset. [http://nhd.usgs.gov/index.html]	USGS 2006
USGS [U.S. Geological Survey]. 2009. Nonindigenous aquatic species. [http://nas.er.usgs.gov/default.aspx]	USGS 2009
USGS [U.S. Geological Survey]. 2011. StreamStats. Online: http://water.usgs.gov/osw/streamstats/ .	
Utah Department of Environmental Quality (UDEQ). 2011. Utah Mercury Sampling Sites and Consumption Advisories, August 2011. Online: http://www.fishadvisories.utah.gov/map.htm .	
Utah Department of Environmental Quality (UDEQ). 2012. Mercury Information for the State of Utah. Online: http://www.mercury.utah.gov/ .	
Van Donk, S. J., X. Huang, E. L. Skidmore, A. B. Anderson, D. Gebhart, V. Prehoda, and E. M. Kellogg. 2003. Wind erosion from military training lands in the Mojave Desert, California, USA. <i>Journal of Arid Environments</i> 54(4):687-703.	Van Donk et al. 2003

Vander Haegen, W. M., S. M. McCorquodale, C. R. Pearson, G. A. Green, and E. Yensen. 2001. Wildlife of eastside shrubland and grassland habitats. Chapter 11, pages 317-341 in: D. H. Johnson and T. A. O'Neil. Wildlife-habitat relationships in Oregon and Washington. Oregon State University Press, Corvallis.	Vander Haegen et al. 2001
Vander Haegen, W. M., F. C. Dobler, and D. J. Pierce. 2000. Shrubsteppe bird response to habitat and landscape variables in eastern Washington, USA. <i>Conservation Biology</i> 14:1145-1160.	Vander Haegen et al. 2000
Vannote, R. L., G. W. Minshall, K. W. Cummins, J. R. Sedell, and C. E. Cushing. 1980. The river continuum concept. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> 37:130-137.	Vannote et al. 1980
Vasek, F. C. 1980. Creosote bush: Long-lived clones in the Mojave Desert. <i>American Journal of Botany</i> 67:246-255.	Vasek 1980
Vasek, F. C., H. B. Johnson, and D. H. Eslinger. 1975. Effects of pipeline construction on creosote bush scrub vegetation of the Mojave Desert. <i>Madrono</i> 23(1):1-13.	Vasek et al. 1975
VDDT [Vegetation Dynamics Development Tool]. (VDDT V.6) [http://www.essa.com/tools/vddt/download.html]	VDDT
Veltman, C. J., S. Nee, and M. J. Crawley. 1996. Correlates of introduction success in exotic New Zealand birds. <i>American Naturalist</i> 147:542-557.	Veltman et al. 1996
Vitousek, P. M., C. M. D'Antonio, L. L. Loope, and R. Westbrooks. 1996. Biological invasions as global environmental change. <i>American Scientist</i> 84:468-478.	Vitousek et al. 1996
Vogelmann, J. E., J. R. Kost, B. Tolk, S. Howard, K. Short, X. Chen, C. Huang, K. Pabst, and M. G. Rollins. 2011. Monitoring landscape change for LANDFIRE using multi-temporal satellite imagery and ancillary data. <i>Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> 4(2):252-264.	Vogelmann et al. 2011
Wade, A. A., and D. M. Theobald. 2010. Residential encroachment on U.S. protected areas. <i>Conservation Biology</i> 24(1):151-161.	Wade and Theobald 2010
Wainwright, J., A. J. Parsons, and A. D. Abrahams. 1999. Field and computer simulation experiments on the formation of desert pavement. <i>Earth Surface Processes and Landforms</i> (24):1025-1037.	Wainwright et al. 1999
Wang, U. 2009. The rush for gigawatts in the desert explodes. Green Tech Media, January 9, 2009. [http://www.greentechmedia.com/articles/read/the-rush-for-gigawatts-in-the-desert-explodes-5483/]	Wang 2009
Wangler, M. J., and R. A. Minnich. 2006. Fire succession in pinyon-juniper woodlands in the San Bernardino Mountains. <i>Madrono</i> 43:493-514.	Wangler and Minnich 2006
WAPT [Wildlife Action Plan Team]. 2006. Nevada wildlife action plan. Nevada Department of Wildlife, Reno, NV.	WAPT 2006
Ward, D. M., K. H. Nislow, and C. L. Folt. 2010. Bioaccumulation syndrome: Identifying factors that make some stream food webs prone to elevated mercury bioaccumulation. <i>Annals of the New York Academy of Science</i> 1195: 62-83. DOI 10.1111/j.1749-6632.2010.05456.x	
Ward, J. V., and J. A. Stanford. 1989. Riverine ecosystems: The influence of man on catchment dynamics and fish ecology. Pages 56-64 in D. P. Dodge, editor. <i>Proceedings of the International Large River Symposium</i> . Canadian Special Publication. Fisheries and Aquatic Science 106:56-64.	Ward and Stanford 1989

Warren, D., and S. Seifert. 2010. Environmental niche modeling in Maxent: The importance of model complexity and the performance of model selection criteria. <i>Ecological Applications</i> 21:335-342.	Warren and Seifert 2010
Webb, R. H., and S. S. Stielstra. 1979. Sheep grazing on Mojave Desert vegetation and soils. <i>Environmental Management</i> 3(6):517-529.	Webb and Stielstra 1979
Webb, R.H, S.A. Leake, and R.M. Turner. 2007. The ribbon of green: Change in riparian vegetation in the southwestern United States. University of Arizona Press. 462 pp.	Webb et al. 2007
Weisenberger, M. E., P. R. Krausman, M. C. Wallace, D. W. DeYoung, and O. E. Maughan. 1996. Effects of simulated jet aircraft noise on heart rate and behavior of desert ungulates. <i>The Journal of Wildlife Management</i> 60(1):52-61.	Weisenberger et al. 1996
Wells, P. V. 1983. Paleobiogeography of montane islands in the Great Basin since the last glaciopluvial. <i>Ecological Monographs</i> 53:341-382. Online: http://dx.doi.org/10.2307/1942644 .	Wells 1983
West, N. E. 1979. Survival patterns of major perennials in salt desert shrub communities of southwestern Utah. <i>Journal of Range Management</i> 32(6):442-445.	West 1979
West, N. E. 1982. Approaches to synecological characterization of wildlands in the Intermountain West. Pages 633-643 in: In-place resource inventories: Principles & practices. A national workshop, University of Maine, Orono. Society of American Foresters, McClean, VA. August 9-14, 1981.	West 1982
West, N. E. 1983a. Great Basin-Colorado Plateau sagebrush semi-desert. Pages 331-349 in: N. E. West, editor. Temperate deserts and semi-deserts. <i>Ecosystems of the world</i> , Volume 5. Elsevier Publishing Company, Amsterdam.	West 1983a
West, N. E. 1983b. Intermountain salt desert shrublands. Pages 375-397 in: N. E. West, editor. Temperate deserts and semi-deserts. <i>Ecosystems of the world</i> , Volume 5. Elsevier Publishing Company, Amsterdam.	West 1983b
West, N. E. 1983c. Western Intermountain sagebrush steppe. Pages 351-374 in: N. E. West, editor. Temperate deserts and semi-deserts. <i>Ecosystems of the world</i> , Volume 5. Elsevier Publishing Company, Amsterdam.	West 1983c
West, N. E. 1988. Intermountain deserts, shrub steppes, and woodlands. Pages 207-230 in: M. G. Barbour and W. D. Billings, editors. <i>North American terrestrial vegetation</i> . Cambridge University Press, New York.	West 1988
West, N. E., and J. A. Young. 2000. Intermountain valleys and lower mountain slopes. Pages 255-284 in: M. G. Barbour and W. D. Billings, editors. <i>North American Terrestrial Vegetation</i> , second edition. Cambridge University Press, Cambridge.	West and Young 2000
West, N. E., and K. I. Ibrahim. 1968. Soil-vegetation relationships in the shadscale zone of southeastern Utah. <i>Ecology</i> 49(3):445-456.	West and Ibrahim 1968
West, N. E. 1999. Synecology and disturbance regimes of sagebrush steppe ecosystems. In: Entwistle, P. G., A. M. DeBolt, J. H. Kaltenecker, and K. Steenhof, compilers. 2000. <i>Proceedings: Sagebrush Steppe Ecosystems Symposium</i> . Bureau of Land Management Publication No. BLM/ID/PT-001001+1150, Boise, Idaho, USA.	
Westerling, A. L., H. G. Hidalgo, D. R. Cayan, and T. W. Swetnam. 2006. Warming and earlier spring increase western U.S. wildfire activity. <i>Science</i> 313:940-943.	Westerling et al. 2006
Westerling, A. L., and B. P. Bryant. 2008. Climate change and wildfire in California. <i>Climatic Change</i> 87:231-249.	
Westoby, M., B. Walker, and I. Moy-Meir. 1989. Opportunistic Management for Rangelands Not at Equilibrium. <i>Journal of Range Management</i> 42:266-274.	Westoby et al. 1989

Whisenant, S. G. 1990. Changing fire frequencies on Idaho's Snake River Plains: Ecological and management implications. Pages 4-10 in: E. D. McArthur, E. M. Romney, S. D. Smith, and P. T. Tueller, compilers. Proceedings--symposium on cheatgrass invasion, shrub die-off, and other aspects of shrub biology and management, 1989 April 5-7, Las Vegas, NV. General Technical Report INT-276. USDA Forest Service, Intermountain Research Station, Ogden, UT.	Whisenant 1990
Whisenant, S. G., and F. J. Wagstaff. 1991. Successional trajectories of a grazed salt desert shrubland. <i>Vegetatio</i> 94:133-140.	Whisenant and Wagstaff 1991
Whitford, W. G., and M. Bryant. 1979. Behavior of a predator and its prey: The horned lizard (<i>Phrynosoma cornutum</i>) and harvester ants (<i>Pogonomyrmex</i> spp.). <i>Ecology</i> 60:686-694.	Whitford and Bryant 1979
Wiemeyer, S. N., J. F. Miesner, P. L. Tuttle, E. C. Murphy, L. Sileo, and D. Withers. 2007. Mercury and selenium in American White Pelicans breeding at Pyramid Lake, Nevada. <i>Waterbirds</i> 30(2):284-295.	Wiemeyer et al. 2007
Williams, M. W., and K. A. Tonnessen. 2000. Critical loads for inorganic nitrogen deposition in the Colorado Front Range, USA. <i>Ecological Applications</i> 10:1648-1665.	
Williamson, M. 1996. Biological invasions. Chapman & Hall, London.	Williamson 1996
Wilshire, H. G. 1983. The impact of vehicles on desert soil stabilizers. Pages 31-50 in: R. H. Webb and H. G. Wilshire, editors. <i>Environmental effects of off-road vehicles: Impacts and management in arid regions</i> . Springer-Verlag, New York.	Wilshire 1983
Wilshire, H., and D. Prose. 1987. Wind energy development in California, USA. <i>Environmental Management</i> 11:13.	Wilshire and Prose 1987
Winkler, D. W., editor. 1977. <i>An Ecological Study of Mono Lake, California</i> . Institute of Ecology Publication, No. 12, University of California, Davis.	Winkler 1977
Wisdom, M. J., C. W. Meinke, S. T. Knick, and M. A. Schroeder. 2011. Factors associated with extirpation of sage-grouse. In: S. T. Knick and J. W. Connelly, editors. <i>Greater sage-grouse: Ecology and conservation of a landscape species and its habitats</i> . Studies in Avian Biology Series (volume 38), University of California Press, Berkeley.	Wisdom et al. 2011
Wisdom, M. J., M. M. Rowland, and L. H. Suring, editors. 2005. <i>Habitat threats in the sagebrush ecosystem: Methods of regional assessment and applications in the Great Basin</i> . Alliance Communications Group, Allen Press, Lawrence, KS.	Wisdom et al. 2005
Wisdom, M. J., and J. C. Chambers. 2009. A landscape approach to ecologically based management of Great Basin shrublands. <i>Restoration Ecology</i> 17(5):740-749.	
With, K. 1997. Application of neutral landscape models in conservation biology. <i>Conservation Biology</i> 11(5):1069-1080.	With 1997
Wolfe, A. P., A. C. Van Gorp, and J. S. Baron. 2003. Recent ecological and biogeochemical changes in alpine lakes of Rocky Mountain National Park (Colorado, USA): A response to anthropogenic nitrogen deposition. <i>Geobiology</i> 1:153-168.	
Wolfe, A. P., J. S. Baron, and R. J. Cornett. 2001. Anthropogenic Nitrogen Deposition Induces Rapid Ecological Changes in Alpine Lakes of the Colorado Front Range (USA). <i>Journal of Paleolimnology</i> 25:1-7.	
Worthington, R. D. 1982. Dry and wet year comparisons of clutch and adult body sizes of <i>Uta stansburiana stejnegeri</i> . <i>Journal of Herpetology</i> 16:332-334.	Worthington 1982

Wurtsbaugh, W. A., J. Gardberg, and C. Izdepski. 2011. Biostrome communities and mercury and selenium bioaccumulation in the Great Salt Lake (Utah, USA). <i>Science of the Total Environment</i> 409:4425-4434.	Wurtsbaugh et al. 2011
Young, B. E., K. R. Hall, E. Byers, K. Gravuer, G. Hammerson, A. Redder, and K. Szabo. In press. Rapid assessment of plant and animal vulnerability to climate change. In <i>Conserving Wildlife Populations in a Changing Climate</i> , edited by J. Brodie, E. Post, and D. Doak. University of Chicago Press, Chicago, IL.	
Young, B., E. Byers, K. Gravuer, K. Hall, G. Hammerson, and A. Redder with input from J. Cordeiro and K. Szabo. 2011. The NatureServe Climate Change Vulnerability Index Release 2.1. NatureServe, Arlington, VA. Spreadsheet and guidelines (58 pp.) available for download at: http://www.natureserve.org/prodServices/climatechange/ccvi.jsp .	
Young, J. 2000. <i>Bromus tectorum</i> L. In: C. C. Bossard, J. M. Randall, and M. C. Hoshovsky, editors. <i>Invasive plants of California's wildlands</i> . University of California Press, Berkeley.	Young 2000
Young, J. A., and D. E. Palmquist. 1992. Plant age/size distributions in black sagebrush (<i>Artemisia nova</i>): Effects on community structure. <i>The Great Basin Naturalist</i> 52(4):313-320.	Young and Palmquist 1992
Young, J. A., and F. L. Allen. 1997. Cheatgrass and range science: 1930-1950. <i>Journal of Range Management</i> 50(5):530-535.	Young and Allen 1997
Young, J. A., R. A. Evans, R. E. Eckert, Jr., and B. L. Kay. 1987. Cheatgrass. <i>Rangelands</i> 9(6):266-270.	Young et al. 1987
Zamora, B., and P. T. Tueller. 1973. <i>Artemisia arbuscula</i> , <i>A. longiloba</i> , and <i>A. nova</i> habitat types in northern Nevada. <i>Great Basin Naturalist</i> 33(4):225-242.	Zamora and Tueller 1973
Zehner, R., M. Coolbaugh, and L. Shevenell. 2009. Preliminary geothermal potential and exploration in the Great Basin. Nevada Bureau of Mines and Geology Open-File Report 09-1, University of Nevada, Reno. 5 pp.	Zehner et al. 2009
Ziegler, A. D., and R. A. Sutherland. 2006. Effectiveness of a coral-derived surfacing material for reducing sediment production on unpaved roads, Schofield Barracks, Oahu, Hawaii. <i>Environmental Management</i> 37(1):98-110.	
Zink, T. A., M. F. Allen, B. Heindl-Tenburen, and E. B. Allen. 1995. The effect of a disturbance corridor on an ecological reserve. <i>Restoration Ecology</i> 3:304-310.	Zink et al. 1995
Zouhar, K. L. 2001. <i>Pinus monophylla</i> . In: <i>Fire Effects Information System</i> [Online]. USDA Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). [http://www.fs.fed.us/database/feis/] (accessed 2 January 2011).	Zouhar 2001
Zouhar, K. 2003. <i>Bromus tectorum</i> . In: <i>Fire Effects Information System</i> , [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). Available: http://www.fs.fed.us/database/feis/ [2009, November 20].	Zouhar 2003

E-1.2 Other Sources: Websites

Listed here are websites cited in the reports, and some additional sites.

There are many dozens more that could be added; we have not attempted to be comprehensive; the references cited above often have URLs listed as well.

NatureServe websites

<http://www.natureserve.org/>

<http://www.natureserve.org/explorer/>

<http://www.natureserve.org/explorer/ranking.htm>
<http://www.natureserve.org/prodServices/heritagemethodology.jsp>

Federal Agency Websites

http://plants.usda.gov/dl_all.html
<http://soils.usda.gov/>
<http://soils.usda.gov/use/hydric/intro.html>
<http://fishadvisories.utah.gov/advisories.htm#utah>
<http://www.cec.org/Page.asp?PageID=122&ContentID=1329&SiteNodeID=498>
http://www.gap.uidaho.edu/padus/State_Standard2011_May24.pdf
<http://www.mojavedata.gov/mdi.html>
<http://www.landfire.gov/index.php>
<http://sagemap.wr.usgs.gov/>

Natural Heritage Programs and Conservation Data Centers

http://www.azgfd.gov/w_c/edits/species_concern.shtml
<http://www.dfg.ca.gov/biogeodata/>
<http://heritage.nv.gov/index.htm>
<http://dwrcdc.nr.utah.gov/ucdc/>

Miscellaneous software, University, and NGO Websites

<http://www.circuitscape.org>
<http://essa.com/tools/vddt/>
<http://www.drecp.org/about/index.html>
<http://www.usu.edu/buglab/>
<http://www.gbfiresci.org/>

E-2 Glossaries

E-2.1 Project glossary

Table E - 2. Glossary of terms used in the REA.

Term	Definition
Areas of Critical Environmental Concern (ACEC)	Areas within the public lands where special management attention is required to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources or other natural systems or processes, or to protect life and safety from natural hazards (FLPMA 1976).
Aridisols	The central concept of Aridisols is that of soils that are too dry for mesophytic plants to grow. They have either: (1) an aridic moisture regime and an ochric or anthropic epipedon and one or more of the following with an upper boundary within 100 cm of the soil surface: a calcic, cambic, gypsic, natric, petrocalcic petrogypsic, or a salic horizon or a duripan or an argillic horizon, or (2) A salic horizon and saturation with water within 100 cm of the soil surface for one month or more in normal years. An aridic moisture regime is one that in normal years has no water available for plants for more than half the cumulative time that the soil temperature at 50 cm below the surface is >5° C. and has no period as long as 90 consecutive days when there is water available for plants while the soil temperature at 50 cm is continuously >8° C.
Assessment Management Team (AMT)	BLM's team that provides overall direction and guidance to the REA and makes decisions regarding ecoregional goals, resources of concern, conservation elements, change agents, management questions, tools, methodologies, models, and output work products. The team generally consists of State Resources Branch Managers from the ecoregion, a POC, and possibly agency partners.
Attribute	A defined characteristic of a geographic feature or entity.
Biophysical Setting (BpS)	As developed for LANDFIRE aims to depict the potential distribution of the ecosystem, given natural landscape disturbance regimes like wildfire. As used by LANDFIRE, the biophysical setting equates to the historic distribution of the ecosystem type, prior to alterations by European settlement and current human activities.
Change Agent	An environmental phenomenon or human activity that can alter/influence the future status of resource condition. Some change agents (e.g., roads) are the result of direct human actions or influence. Others (e.g., climate change, wildland fire, and invasive species) may involve natural phenomena or be partially or indirectly related to human activities.

Coarse Filter	A focus of ecoregional analysis that is based upon conserving resource elements that occur at coarse scales, such as ecosystems, rather than upon finer scale elements, such as specific species. The concept behind a coarse filter approach is that preserving coarse-scale conservation elements will preserve elements occurring at finer spatial scales.
Community	Interacting assemblage of species that co-occur with some degree of predictability and consistency.
Conservation Element	A renewable resource object of high conservation interest often called a conservation target by others. For purposes of this TO, conservation elements will likely be types or categories of areas and/or resources including ecological communities or larger ecological assemblages.
Core Conservation Elements	The set of conservation elements that has been reduced from the complete set of conservation elements identified during the assessment initiation and pre-assessment phases.
Data Management Plan (DMP)	The assessment's plan for managing data, provided by the BLM, describing data standards, responsibilities, security, and other requirements for data management.
Dataset	A collection of related data.
Deductive models	Using existing mapped information, and then recombine them according to a set of rules determined by the modeler; typically working within ArcGIS, ModelBuilder™ was used to describe interactions among spatial datasets.
Development	A type of change (change agent) resulting from urbanization, industrialization, transportation, mineral extraction, water development, or other non-agricultural/silvicultural human activities that occupy or fragment the landscape or that develops renewable or non-renewable resources.
Didymo	<i>Didymosphenia geminate</i> , a species of diatom considered to be a nuisance species
Distribution (as in <i>species distribution</i>)	In this REA the spatial methods employed was mapping of actual distribution as best possible, whether current known occupied habitat or predicted habitat. (see <i>Range Mapping</i>)
Ecological Integrity	The ability of an ecological system to support and maintain a community of organisms that have the species composition, diversity, and functional organization comparable to those of natural habitats within the ecoregion.
Ecological Status	The condition of a criterion (biological or socio-economic resource values or conditions) within a geographic area (e.g., watershed, grid). A rating (e.g., low, medium, or high) or ranking (numeric) is assigned to specific criteria to describe status. The rating or ranking will be relative, either to the historical range of variability for that criterion (e.g., a wildland fire regime criterion) or relative to a time period when the criterion did not exist (e.g., an external partnerships/collaboration criterion). (also see <i>Status</i>)

Ecoregion	An ecological region or ecoregion is defined as an area with relative homogeneity in ecosystems. Ecoregions depict areas within which the mosaic of ecosystem components (biotic and abiotic as well as terrestrial and aquatic) differs from those of adjacent regions (Omernik and Bailey 1997).
Ecosystem	The interactions of communities of native fish, wildlife, and plants with the abiotic or physical environment.
Element Occurrence	A term used by Natural Heritage Programs. An element occurrence generally delineates the location and extent of a species population or ecological community stand, and represents the geo-referenced biological feature that is of conservation or management interest. Element occurrences are documented by voucher specimens (where appropriate) or other forms of observations. A single element occurrence may be documented by multiple specimens or observations taken from different parts of the same population, or from the same population over multiple years.
Extent	The total area under consideration for an ecoregional assessment. For the BLM, this is a CEC Level III ecoregion or combination of several such ecoregions plus the buffer area surrounding the ecoregion. (see <i>Grain</i>).
Fine Filter	A focus of ecoregional analyses that is based upon conserving resource elements that occur at fine scale, such as specific species. A fine-filter approach is often used in conjunction with a coarse-filter approach (i.e., a coarse-filter/fine-filter framework) because coarse filters do not always capture some concerns, such as when a T&E species is a conservation element.
Fire Regime	Description of the patterns of fire occurrences, frequency, size, severity, and sometimes vegetation and fire effects as well, in a given area or ecosystem. A fire regime is a generalization based on fire histories at individual sites. Fire regimes can often be described as cycles because some parts of the histories usually get repeated, and the repetitions can be counted and measured, such as fire return interval (NWCG 2006).
Forecast; Forecasted	referring to future predicted distributions or future conditions, such as climate change, future development, or future ecological status of CEs. In some places “projections” is a term used interchangeably with forecasts.
Fragmentation	The process of dividing habitats into smaller and smaller units until their utility as habitat is lost (BLM 1997).
Geographic Information System (GIS)	A computer system designed to collect, manage, manipulate, analyze, and display spatially referenced data and associated attributes.

Grain	Grain is the spatial unit of analysis for ecoregional assessment and is the smallest area analyzed and used for regional planning purposes. The many data and model outputs incorporated into an ecoregional analysis are usually upscaled or downscaled to grain scale. The grain for ecoregional analysis may be a regular size and shape (e.g., square, hexagon) but also may be defined by a particular level of hydrologic unit or similar geographic feature.
Grid Cell	When used in reference to raster data, a grid cell is equivalent to a pixel (also see <i>pixel</i>). When a raster data layer is converted to a vector format, the pixels may instead be referred to as grid cells.
Habitat	A place where an animal or plant normally lives for a substantial part of its life, often characterized by dominant plant forms and/or physical characteristics (BLM 1990).
Heritage	See <i>Natural Heritage Program</i> .
Heritage Program	See <i>Natural Heritage Program</i> .
Hydrologic Unit	An identified area of surface drainage within the U.S. system for cataloging drainage areas, which was developed in the mid-1970s under the sponsorship of the Water Resources Council and includes drainage-basin boundaries, codes, and names. The drainage areas are delineated to nest in a multilevel, hierarchical arrangement. The hydrologic unit hierarchical system has four levels and is the theoretical basis for further subdivisions that form the <i>watershed boundary dataset</i> 5th and 6th levels. (USGS 2009).
Indicator	Components of a system whose characteristics (e.g., presence or absence, quantity, distribution) are used as an index of an attribute (e.g., land health) that are too difficult, inconvenient, or expensive to measure (USDA et al. 2005).
Inductive models	Geo-referenced observations (e.g., known observations of a given species) are combined with maps of potential explanatory variables (climate, elevation, landform, soil variables, etc.). Statistical relationships between dependent variables (observations) and independent explanatory variables are used to derive a new spatial model.
Information Platform	Information Technology infrastructure used to support communication and collaboration of BLM's Ecoregional Assessments. Platform includes GIS hardware and software tools to manage, store, archive, and share data within the BLM and with our partners.
Invasive Species	Species that are not part of (if exotic non-natives), or are a minor component of (if native), an original community that have the potential to become a dominant or co-dominant species if their future establishment and growth are not actively controlled by management interventions, or that are classified as exotic or noxious under state or federal law. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasives (Modified from BLM Handbook 1740-2, Integrated Vegetation Handbook).

Key Ecological Attribute	An attribute, feature, or process that defines and characterizes an ecological community or system or entity; in conjunction with other key ecological attributes, the condition or function of this attribute or process is considered critical to the integrity of the ecological community or system in question. In the BLM REAs, various analyses were conducted to calculate scores or indexes indicating the status of key ecological attributes for various Conservation Elements (CEs).
Land Health	Degree to which the integrity of the soil and the ecological processes of ecosystems are sustained (BLM Handbook H-4180-1).
Landscape Species	Biological species that use large, ecologically diverse areas and often have significant impacts on the structure and function of natural ecosystems (Redford et al. 2000).
Landscape Unit	Because an REA considers a variety of phenomena, there will be many phenomena and process (or intrinsic) grain sizes. These will necessarily be scaled to a uniform support unit, which herein is called a <i>landscape unit</i> . This landscape unit will be the analysis scale used for reporting and displaying ecoregional analyses.
Land-Use Plan (LUP)	A set of decisions that establishes management direction for land within an administrative area, as prescribed under the planning provisions of FLPMA; an assimilation of land-use-plan-level decisions developed through the planning process outlined in 43 CFR 1600, regardless of the scale at which the decisions were developed. The term includes both resource management plans and management framework plans (BLM 2007).
Management Questions	Questions from decision-makers that usually identify problems and request how to fix or solve those problems.
Metadata	The description and documentation of the content, quality, condition, and other characteristics of geospatial data.
Model	Any representation, whether verbal, diagrammatic, or mathematical, of an object or phenomenon. Natural resource models typically characterize resource systems in terms of their status and change through time. Models imbed hypotheses about resource structures and functions, and they generate predictions about the effects of management actions. (Adaptive Management: DOI Technical Guide).
Mollisols	The central concept of Mollisols is that of soils that have a dark colored surface horizon and are base rich; they are typically formed in grasslands. Nearly all have a mollic epipedon. Many also have an argillic or natric horizon or a calcic horizon. A few have an albic horizon. Some also have a duripan or a petrocalcic horizon.
Native Plant and Animal Populations and Communities	Populations and communities of all species of plants and animals naturally occurring, other than as a result of an introduction, either presently or historically in an ecosystem. (BLM Manual H-4180-1).
Native Species	Species that historically occurred or currently occur in a particular ecosystem and were not introduced (BLM 2007b).
Natural Community	An assemblage of organisms indigenous to an area that is characterized by distinct combinations of species occupying a common ecological zone and interacting with one another (BLM 2007b).

Natural Heritage Program	An agency or organization, usually based within a state or provincial natural resource agency, whose mission is to collect, document, and analyze data on the location and condition of biological and other natural features (such as geologic or aquatic features) of the state or province. These programs typically have particular responsibility for documenting at-risk species and threatened ecosystems. (See natureserve.org/ for additional information on these programs.)
Occurrence	See <i>Element Occurrence</i> .
Pixel	A pixel is a cell or spatial unit comprising a raster data layer; within a single raster data layer, the pixels are consistently sized; a common pixel size is 30 x 30 meters square. Pixels are usually referenced in relation to spatial data that are in raster format. In this REA, some pixels sizes included 90 x 90 m, 4 x 4 km, and 15 x 15 km (also see <i>Grid Cell</i>).
Population	Individuals of the same species that live, interact, and migrate through the same niche and habitat.
Projection	referring to future predicted distributions or future conditions, such as climate change, future development, or future ecological status of CEs. In most places “forecast” is the term used interchangeably with projection.
Range Mapping (as in <i>Species Range</i>)	A spatially coarse depiction; the generalized area of possible occurrence of a species or ecosystem, such as one might find in a wildlife field guide; was not utilized in this REA.
Rapid Ecoregional Assessment (REA)	The methodology used by the BLM to assemble and synthesize that regional-scale resource information, which provides the fundamental knowledge base for devising regional resource goals, priorities, and focal areas, on a relatively short time frame (less than 2 years).
Rapid Ecoregional Assessment Work Plan (REAWP)	The work plan (scope of services) that guides the Phase II Assessment component of a REA. This document fully establishes the design of the Phase II effort, and is essentially the ‘blueprint’ for that work effort and resulting products.
Regionally-Significant Resource	A native plant, wildlife, or fish resource or other ecosystem resource or service that has more than locally significant qualities, which give it special worth, consequence, meaning, distinctiveness, or cause for concern, especially compared to other similar resources. Generally, regionally-significant resources within a specific ecoregion occur in two or more field offices.
Resource Value	An ecological value, as opposed to a cultural value. Examples of resource values are those species, habitats, communities, features, functions, or services associated with areas with abundant native species and few non-natives, having intact, connected habitats, and that help maintain landscape hydrologic function. Resource values of concern to the BLM can be classified into three categories: native fish, wildlife, or plants of conservation concern; regionally-important terrestrial ecological features, functions, and services; and regionally-important aquatic ecological features, functions, and services.

Scale	Refers to the characteristic time or length of a process, observation, model, or analysis. Intrinsic scale refers to the scale at which a pattern or process actually operates. Because nature phenomena range over at least nine orders of magnitude, the intrinsic scale has wide variation. This is significant for ecoregional assessment, where multiple resources and their phenomena are being assessed. Observation scale , often referred to as sampling or measurement scale, is the scale at which sampling is undertaken. Note that once data are observed at a particular scale, that scale becomes the limit of analysis, not the phenomenon scale. Analysis or modeling scale refers to the resolution and extent in space and time of statistical analyses or simulation modeling. Policy scale is the scale at which policies are implemented and is influenced by social, political, and economic policies.
Scaling	The transfer of information across spatial scales. Upscaling is the process of transferring information from a smaller to a larger scale. Downscaling is the process of transferring information to a smaller scale.
Special Status Species (SSS)	Plant and animal species that are federally listed as threatened or endangered; proposed threatened or endangered; candidate species; state listed as threatened or endangered or listed by a BLM state director as sensitive (BLM 2001b).
Status	The condition of a criterion (biological or socio-economic resource values or conditions) within a geographic area (e.g., watershed, grid). A rating (e.g., low, medium, or high) or ranking (numeric) is assigned to specific criteria to describe status. The rating or ranking will be relative, either to the historical range of variability for that criterion (e.g., a wildland fire regime criterion) or relative to a time period when the criterion did not exist (e.g., an external partnerships/collaboration criterion).
Step-Down	A step-down is any action related to regionally-defined goals and priorities discussed in the REA that are acted upon through actions by specific State and/or Field Offices. These step-down actions can be additional inventory, a finer-grained analysis, or a specific management activity.
Stressor	A factor causing negative impacts to the biological health or ecological integrity of a Conservation Element. Factors causing such impacts may or may not have anthropogenic origins. In the context of the REAs, these factors are generally anthropogenic in origin.
Subwatershed	A subdivision of a <i>watershed</i> . A <i>subwatershed</i> is the 6th-level, 12-digit unit and smallest of the hydrologic unit hierarchy. Subwatersheds generally range in size from 10,000 to 40,000 acres. (USGS 2009).
Value	See <i>Resource Value</i> .
Watershed	A watershed is the 5th-level, 10-digit unit of the hydrologic unit hierarchy. Watersheds range in size from 40,000 to 250,000 acres. Also used as a generic term representing a drainage basin or combination of hydrologic units of any size (USGS 2009).

Watershed Boundary Dataset (WBD)	A National geospatial database of drainage areas consisting of the 1st through 6th hierarchical hydrologic unit levels. The WBD is an ongoing multiagency effort to create hierarchical, and integrated hydrologic units across the Nation (USGS 2009).
Wildland Fire	Any non-structure fire that occurs in the wildland. Three distinct types of wildland fire have been defined and include wildfire, wildland fire use, and prescribed fire (NWCG 2006).

E-2.2 Acronym List

Table E - 3. List of acronyms used in the REA.

Acronym	Definition
AADT	Annual Average Daily Traffic
ACEC	Area of Critical Environmental Concern
AFB	Air Force Base
AGI	Annual Grasses Index
AML	Appropriate Management Level
AMT	Assessment Management Team
AR4	Intergovernmental Panel on Climate Change - Fourth Assessment Report
ArcGIS	Arc Geographic Information System
ARRA	American Recovery and Reinvestment Act
AUC	Area Under the (ROC) Curve
AUM	Animal Unit Month
AWC	Available Water Capacity
AWS	Associate Weather Services
BCM	Basin Characterization Model
BLM	Bureau of Land Management
BpS	Biophysical Settings
CA	Change Agent
CA GAP	California Gap Analysis Project
CA ReGAP	California Regional Gap Analysis Project
CART	Classification and Regression Tree
CBR	Central Basin and Range
CCVI	Climate Change Vulnerability Index
CD	Compact Disc
CE	Conservation Element
CEC	Commission for Environmental Cooperation
CO	Contracting Officer
COR	Contracting Officer's Representative
CVS	Conservation Value Summary
DCMP	Desert Conservation Management Plan
DDTF	Data Delivery Tracking Form
DEM	Digital Elevation Model
DMP	Data Management Plan
DOD	Department of Defense
DOE	Department of Energy
DOI	Department of Interior
DQE	Data Quality Evaluation
DRECP	Desert Renewable Energy Conservation Plan
DRI	Desert Research Institute

Acronym	Definition
DRS	Division of Resource Services
DSS	Decision Support System
DVD	Digital Versatile Disc
EFC	Environmental Flow Components
EIA	Ecological Integrity Assessment
EIS	Environmental Impact Statement
ENSO	El Nino Southern Oscillation
EO	Element Occurrence
EPA	Environmental Protection Agency
EPCA	Energy Policy and Conservation Act
ERA	Ecoregional Assessment
ESA	Endangered Species Act
ESD	Ecological Site Description
ESRI [®]	Environmental Systems Research Institute, Inc.
ET	Evapotranspiration
EVT	Existing Vegetation Type
FAO	Food and Agriculture Organization
FCC	Federal Communications Commission
FGDC	Federal Geographic Data Committee
FLPMA	Federal Land Policy and Management Act
FO	Field Office
FRCC	Fire Regime Condition Class
FRI	Fire Return Interval
FTP	File Transfer Protocol
G-1, G-3	Globally Imperiled-Globally Vulnerable
GA	Grazing Allotment
GAP	Gap Analysis Project
GBPJW	Great Basin Pinyon-Juniper Woodland
GCM	General Circulation Model
GFDL	Geophysical Fluid Dynamics Laboratory
GFF	government-furnished facilities
GFM	government-furnished material
GFP	government-furnished property
GIS	Geographic Information System
GSG	Greate
HA	Herd Area
HMA	Herd Management Area
HMA's	Herd Management Areas
HRV	Historic Range of Variation
HU	Hydrologic Unit
HUC	Hydrologic Unit Code
IBA	Important Bird Areas

Acronym	Definition
ICLUS	Integrated Climate and Land Use Scenarios
IDIQ	Indefinite Delivery/Indefinite Quantity
IPCC	Intergovernmental Panel on Climate Change
ISO	International Organization for Standardization
JPEG	Joint Photographic Experts Group
KEA	Key Ecological Attribute
Kw	K factor (soil erodibility)
LANDFIRE	Landscape Fire and Resource Management Planning Tools Project
LCM	Landscape Condition Model
LF	LANDFIRE
LFRDB	LANDFIRE Reference Database
LRU	Landscape Reporting Unit
LU/LC	Land Use/Land Cover
LUP	Land Use Plan
MaxEnt	Maximum Entropy (modeling software)
MBR	Mojave Basin and Range
MDI	Mojave Desert Initiative
MQ	Management Question
MRDS	USGS Mineral Resource Data System
MRLA	Multiple Resource Land Area
NADP	National Atmospheric Deposition Program
NAMC	National Aquatic Monitoring Center
NAS	USGS Nonindigenous Aquatic Species
NCAR	National Center for Atmospheric Research
NCEP	National Centers for Environmental Prediction
NED	National Elevation Dataset
NEPA	National Environmental Policy Act
NGO	Non-Governmental Organization
NHD	National Hydrography Dataset
NHD Plus	National Hydrography Dataset Plus
NID	National Inventory of Dams
NL	Natural Landscapes
NLCD	National Land Cover Dataset
NOC	BLM National Operations Center
NPMS	National Pipeline Mapping System
NRCS	Natural Resource Conservation Service
NREL	National Renewable Energy Laboratory
NRV	Natural Range of Variability
NTAD	National Transportation Atlas Database
NVDEP	Nevada Department Environmental Protection
NWI	National Wetland Inventory
OHV	Off-Highway Vehicles

Acronym	Definition
ORV	Off-road Vehicle
PADUS	Protected Area Database of the U.S. (<i>see USPAD</i>)
PCM	Parallel Climate Model
PEIS	Programmatic Environmental Impact Statement
PET	Potential Evapotranspiration
PJ	Pinyon-Juniper
PL	Place
PLSS	Public Land Survey System
POC	Point-of-Contact
PRISM	Parameter-elevation Regressions on Independent Slopes Model
PWS	Public Water Supply
QA/QC	Quality Assurance/Quality Control
QC	Quality Control
RAS	Rangeland Administration System
REA	Rapid Ecoregional Assessment
REAWP	Rapid Ecoregional Assessment Work Plan
ReGAP	Regional Gap Analysis Project
RegCM	International Centre for Theoretical Physics Regional Climate Model
RETI	Renewable Energy Transmission Initiative
RMP	Resource Management Plan
ROC	Receiver Operating Characteristic
SAGEMAP	Sagebrush and Grassland Ecosystem Map Assessment Project
SAR	Sodium Adsorption Ratio
SClass	Succession Class
SDM	Species Distribution Model
SERGoM	Spatially Explicit Regional Growth Model
SMA	Surface Management Agency
SO	State Office
SOW	Statement of Work
SSURGO	Soil Survey Geographic Database
STATSGO	State Soil Geographic Database
STDV (stdv)	Standard Deviation (also <i>stdev</i>)
SUNY	State University of New York
SW ReGAP	Southwest Regional Gap Analysis Project
SWAP	State Wildlife Action Plan
SWEMP	Southwest Exotic Plant Mapping Program
SWPA	Southwest Principal Aquifer study
T&E	Threatened and Endangered
TNC	The Nature Conservancy
TO	Task Order
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture

Acronym	Definition
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
USGS-CD	USGS 15km dynamically downscaled climate model outputs
USPAD	U.S. Protected Areas Database (<i>see PADUS</i>)
VDDT	Vegetation Dynamics Development Tool
WAFWA	Western Associations of Fish and Wildlife Agencies
WBD	Watershed Boundary Dataset
WGA	Western Governors' Association
WHB	Wild Horse and Burro
WMC	Western Center for Monitoring and Assessment of Freshwater Ecosystems

E-2.3 Scientific-common name master list for plants

Many hundreds of plant species are listed in the coarse filter conceptual models. At the request of AMT reviewers, the below crosswalk from the Contractor's taxonomy to the USDA Natural Resources Conservation Service (NRCS) PLANTS Database is provided (**Error! Reference source not found.**). Readers of the conceptual models can look up plant scientific names to find the common name and NRCS PLANTS scientific name (if different). The NRCS PLANTS names were downloaded from http://plants.usda.gov/dl_all.html in January 2011.

Table E - 4. Plant scientific names used in the coarse-filter conceptual models , with NRCS PLANTS common name and scientific name (if different) . The USDA Natural Resources Conservation Service (NRCS) PLANTS Database checklist used here was downloaded in January 2011 from http://plants.usda.gov/dl_all.html.

Scientific Name	PLANTS Common Name	PLANTS Scientific Name
<i>Abies concolor</i>	white fir	
<i>Abies grandis</i>	grand fir	
<i>Abies lasiocarpa</i>	subalpine fir	
<i>Acacia greggii</i>	catclaw acacia	
<i>Acacia neovernicosa</i>	viscid acacia	
<i>Acamptopappus sphaerocephalus</i>	rayless goldenhead	
<i>Acer glabrum</i>	Rocky Mountain maple	
<i>Acer grandidentatum</i>	bigtooth maple	
<i>Acer negundo</i>	boxelder	
<i>Achillea millefolium</i>	common yarrow	
<i>Achnatherum</i>	needlegrass	
<i>Achnatherum hymenoides</i>	Indian ricegrass	
<i>Achnatherum nelsonii ssp. dorei</i>	Dore's needlegrass	
<i>Achnatherum nelsonii ssp. nelsonii</i>	Columbia needlegrass	
<i>Achnatherum occidentale</i>	western needlegrass	
<i>Achnatherum speciosum</i>	desert needlegrass	

Scientific Name	PLANTS Common Name	PLANTS Scientific Name
<i>Achnatherum thurberianum</i>	Thurber's needlegrass	
<i>Agrostis stolonifera</i>	creeping bentgrass	
<i>Allenrolfea occidentalis</i>	iodinebush	
<i>Alnus incana</i>	gray alder	
<i>Alnus oblongifolia</i>	Arizona alder	
<i>Ambrosia deltoidea</i>	triangle bur ragweed	
<i>Ambrosia dumosa</i>	burrobush	
<i>Amelanchier</i>	serviceberry	
<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	
<i>Amelanchier utahensis</i>	Utah serviceberry	
<i>Antennaria rosea</i>	rosy pussytoes	
<i>Aquilegia scopulorum</i>	Utah columbine	
<i>Arabis drummondii</i>	Drummond's rockcress	
<i>Arceuthobium campylopodum</i>	western dwarf mistletoe	
<i>Arctostaphylos</i>	manzanita	
<i>Arctostaphylos glauca</i>	bigberry manzanita	
<i>Arctostaphylos patula</i>	greenleaf manzanita	
<i>Arctostaphylos pringlei</i>	Pringle manzanita	
<i>Arctostaphylos pungens</i>	pointleaf manzanita	
<i>Arctostaphylos uva-ursi</i>	kinnikinnick	
<i>Arenaria</i>	sandwort	
<i>Arenaria congesta</i>	ballhead sandwort	
<i>Arenaria kingii</i>	King's sandwort	
<i>Aristida</i>	threeawn	
<i>Aristida purpurea</i>	purple threeawn	
<i>Aristida purpurea var. fendleriana</i>	Fendler's threeawn	
<i>Aristida ternipes</i>	spidergrass	
<i>Arnica cordifolia</i>	heartleaf arnica	
<i>Artemisia</i>	sagebrush	
<i>Artemisia arbuscula</i>	little sagebrush	
<i>Artemisia arbuscula ssp. arbuscula</i>	little sagebrush	
<i>Artemisia arbuscula ssp. longicaulis</i>	little sagebrush	
<i>Artemisia arbuscula ssp. longiloba</i>	little sagebrush	
<i>Artemisia arctica</i>	boreal sagebrush	
<i>Artemisia bigelovii</i>	Bigelow sage	
<i>Artemisia cana</i>	silver sagebrush	
<i>Artemisia cana ssp. cana</i>	silver sagebrush	
<i>Artemisia cana ssp. viscidula</i>	silver sagebrush	
<i>Artemisia filifolia</i>	sand sagebrush	
<i>Artemisia frigida</i>	prairie sagewort	
<i>Artemisia ludoviciana</i>	white sagebrush	
<i>Artemisia nova</i>	black sagebrush	
<i>Artemisia tridentata</i>	big sagebrush	
<i>Artemisia tridentata ssp. spiciformis</i>	big sagebrush	
<i>Artemisia tridentata ssp. tridentata</i>	basin big sagebrush	

Scientific Name	PLANTS Common Name	PLANTS Scientific Name
<i>Artemisia tridentata ssp. vaseyana</i>	mountain big sagebrush	
<i>Artemisia tridentata ssp. wyomingensis</i>	Wyoming big sagebrush	
<i>Artemisia tridentata ssp. xericensis</i>	big sagebrush	
<i>Artemisia tripartita ssp. tripartita</i>	threetip sagebrush	
<i>Astragalus</i>	milkvetch	
<i>Astragalus kentrophyta</i>	spiny milkvetch	
<i>Astragalus lentiginosus</i>	freckled milkvetch	
<i>Astragalus platytropis</i>	broadkeel milkvetch	
<i>Atriplex</i>	saltbush	
<i>Atriplex canescens</i>	fourwing saltbush	
<i>Atriplex confertifolia</i>	shadscale saltbush	
<i>Atriplex gardneri</i>	Gardner's saltbush	
<i>Atriplex hymenelytra</i>	desertholly	
<i>Atriplex lentiformis</i>	big saltbush	
<i>Atriplex parryi</i>	Parry's saltbush	
<i>Atriplex polycarpa</i>	cattle saltbush	
<i>Atriplex spinifera</i>	spinescale saltbush	
<i>Baccharis salicifolia</i>	mule-fat	
<i>Baccharis sarothroides</i>	desertbroom	
<i>Balsamorhiza</i>	balsamroot	
<i>Balsamorhiza sagittata</i>	arrowleaf balsamroot	
<i>Bebbia juncea</i>	sweetbush	
<i>Betula glandulosa</i>	resin birch	
<i>Betula occidentalis</i>	water birch	
<i>Boerhavia</i>	spiderling	
<i>Bothriochloa barbinodis</i>	cane bluestem	
<i>Bouteloua breviseta</i>	gypsum grama	
<i>Bouteloua curtipendula</i>	sideoats grama	
<i>Bouteloua eriopoda</i>	black grama	
<i>Bouteloua gracilis</i>	blue grama	
<i>Bouteloua hirsuta</i>	hairy grama	
<i>Brassica tournefortii</i>	Asian mustard	
<i>Brickellia laciniata</i>	splitleaf brickellbush	
<i>Bromus carinatus</i>	California brome	
<i>Bromus inermis</i>	smooth brome	
<i>Bromus japonicus</i>	field brome	Bromus arvensis
<i>Bromus madritensis</i>	compact brome	
<i>Bromus rubens</i>	red brome	
<i>Bromus tectorum</i>	cheatgrass	
<i>Bursera microphylla</i>	elephant tree	
<i>Calamagrostis montanensis</i>	plains reedgrass	
<i>Calamagrostis purpurascens</i>	purple reedgrass	
<i>Calamagrostis rubescens</i>	pinegrass	
<i>Calamovilfa longifolia</i>	prairie sandreed	
<i>Canotia holacantha</i>	crucifixion thorn	

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<i>Carex</i>	sedge	
<i>Carex duriuscula</i>	needleleaf sedge	
<i>Carex elynoides</i>	blackroot sedge	
<i>Carex filifolia</i>	threadleaf sedge	
<i>Carex geyeri</i>	Geyer's sedge	
<i>Carex haydeniana</i>	cloud sedge	
<i>Carex nardina</i>	spike sedge	
<i>Carex rossii</i>	Ross' sedge	
<i>Carex rupestris</i>	curly sedge	
<i>Carex scirpoidea</i>	northern singlespike sedge	
<i>Carex siccata</i>	dryspike sedge	
<i>Carnegia gigantea</i>	saguaro	<i>Carnegiea gigantea</i>
<i>Castilleja</i>	Indian paintbrush	
<i>Ceanothus greggii</i>	desert ceanothus	
<i>Ceanothus leucodermis</i>	chaparral whitethorn	
<i>Ceanothus martinii</i>	Martin's ceanothus	
<i>Ceanothus prostratus</i>	prostrate ceanothus	
<i>Ceanothus velutinus</i>	snowbrush ceanothus	
<i>Celtis laevigata</i> var. <i>reticulata</i>	netleaf hackberry	
<i>Cercocarpus intricatus</i>	littleleaf mountain mahogany	
<i>Cercocarpus ledifolius</i>	curl-leaf mountain mahogany	
<i>Cercocarpus ledifolius</i> var. <i>intercedens</i>	curl-leaf mountain mahogany	
<i>Cercocarpus ledifolius</i> var. <i>ledifolius</i>	curl-leaf mountain mahogany	
<i>Cercocarpus montanus</i>	alderleaf mountain mahogany	
<i>Cercocarpus montanus</i> var. <i>glaber</i>	birchleaf mountain mahogany	
<i>Chamaebatiaria millefolium</i>	desert sweet	
<i>Chamaesyce</i>	sandmat	
<i>Chilopsis linearis</i>	desert willow	
<i>Chorizanthe rigida</i>	devil's spineflower	
<i>Chrysolepis sempervirens</i>	bush chinquapin	
<i>Chrysothamnus</i>	rabbitbrush	
<i>Chrysothamnus viscidiflorus</i>	yellow rabbitbrush	
<i>Chrysothamnus viscidiflorus</i> ssp. <i>lanceolatus</i>	yellow rabbitbrush	
<i>Chrysothamnus viscidiflorus</i> ssp. <i>puberulus</i>	yellow rabbitbrush	
<i>Cirsium eatonii</i>	Eaton's thistle	
<i>Cleome isomeris</i>	bladderpod spiderflower	
<i>Coleogyne</i>	coleogyne	
<i>Coleogyne ramosissima</i>	blackbrush	
<i>Collinsia parviflora</i>	maiden blue eyed Mary	
<i>Cornus sericea</i>	redosier dogwood	
<i>Crataegus rivularis</i>	river hawthorn	
<i>Croton californicus</i>	California croton	
<i>Croton wigginsii</i>	Wiggins' croton	
<i>Cryptantha</i>	cryptantha	

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<i>Cymopterus cinerarius</i>	gray springparsley	
<i>Cymopterus nivalis</i>	snowline springparsley	
<i>Dactylis glomerata</i>	orchardgrass	
<i>Dalea</i>	prairie clover	
<i>Dalea purpurea</i>	purple prairie clover	
<i>Danthonia intermedia</i>	timber oatgrass	
<i>Danthonia parryi</i>	Parry's oatgrass	
<i>Dasyochloa pulchella</i>	low woollygrass	
<i>Delphinium</i>	larkspur	
<i>Deschampsia caespitosa</i>	tufted hairgrass	Deschampsia caespitosa
<i>Descurainia</i>	tansymustard	
<i>Dicoria canescens</i>	desert twinbugs	
<i>Digitaria californica</i>	Arizona cottontop	
<i>Distichlis spicata</i>	saltgrass	
<i>Dryas octopetala</i>	eightpetal mountain-avens	
<i>Echinocactus polycephalus</i>	cottontop cactus	
<i>Elaeagnus angustifolia</i>	Russian olive	
<i>Eleocharis palustris</i>	common spikerush	
<i>Elymus elymoides</i>	squirreltail	
<i>Elymus glaucus</i>	blue wildrye	
<i>Elymus lanceolatus</i>	thickspike wheatgrass	
<i>Elymus lanceolatus ssp. lanceolatus</i>	thickspike wheatgrass	
<i>Elymus trachycaulus</i>	slender wheatgrass	
<i>Encelia</i>	brittlebush	
<i>Encelia farinosa</i>	brittlebush	
<i>Ephedra</i>	jointfir	
<i>Ephedra californica</i>	California jointfir	
<i>Ephedra cutleri</i>	Cutler's jointfir	
<i>Ephedra funerea</i>	Death Valley jointfir	
<i>Ephedra nevadensis</i>	Nevada jointfir	
<i>Ephedra torreyana</i>	Torrey's jointfir	
<i>Ephedra viridis</i>	mormon tea	
<i>Eragrostis intermedia</i>	plains lovegrass	
<i>Ericameria</i>	goldenbush	
<i>Ericameria discoidea</i>	whitestem goldenbush	
<i>Ericameria linearifolia</i>	narrowleaf goldenbush	
<i>Ericameria nauseosa</i>	rubber rabbitbrush	
<i>Ericameria nauseosa var. hololeuca</i>	rubber rabbitbrush	
<i>Ericameria nauseosa var. salicifolia</i>	rubber rabbitbrush	
<i>Ericameria nauseosa var. speciosa</i>	rubber rabbitbrush	
<i>Ericameria parryi</i>	Parry's rabbitbrush	
<i>Ericameria teretifolia</i>	green rabbitbrush	
<i>Erigeron</i>	fleabane	
<i>Erigeron compositus</i>	cutleaf daisy	
<i>Erigeron pygmaeus</i>	pygmy fleabane	

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<i>Erigeron speciosus</i>	aspen fleabane	
<i>Erigeron tener</i>	slender fleabane	
<i>Eriogonum</i>	buckwheat	
<i>Eriogonum deserticola</i>	Colorado Desert buckwheat	
<i>Eriogonum fasciculatum</i>	Eastern Mojave buckwheat	
<i>Eriogonum gracilipes</i>	White Mountain buckwheat	
<i>Eriogonum holmgrenii</i>	Snake Range buckwheat	
<i>Eriogonum inflatum</i>	desert trumpet	
<i>Eriogonum ovalifolium</i>	cushion buckwheat	
<i>Eriogonum umbellatum</i>	sulphur-flower buckwheat	
<i>Eucephalus engelmannii</i>	Engelmann's aster	
<i>Fallugia paradoxa</i>	Apache plume	
<i>Ferocactus</i>	barrel cactus	
<i>Festuca</i>	fescue	
<i>Festuca arizonica</i>	Arizona fescue	
<i>Festuca brachyphylla</i>	alpine fescue	
<i>Festuca campestris</i>	rough fescue	
<i>Festuca idahoensis</i>	Idaho fescue	
<i>Festuca thurberi</i>	Thurber's fescue	
<i>Forestiera pubescens</i>	stretchberry	
<i>Fouquieria splendens</i>	ocotillo	
<i>Fragaria vesca</i>	woodland strawberry	
<i>Fragaria virginiana</i>	Virginia strawberry	
<i>Fraxinus velutina</i>	velvet ash	
<i>Fremontodendron californicum</i>	California flannelbush	
<i>Galium boreale</i>	northern bedstraw	
<i>Garrya flavescens</i>	ashy silktassel	
<i>Garrya wrightii</i>	Wright's silktassel	
<i>Geraea canescens</i>	hairy desertsunflower	
<i>Geranium viscosissimum</i>	sticky purple geranium	
<i>Geum</i>	avens	
<i>Geum rossii</i>	Ross' avens	
<i>Glossopetalon spinescens</i>	spiny greasebush	
<i>Glyceria striata</i>	fowl mannagrass	
<i>Grayia spinosa</i>	spiny hopsage	
<i>Gutierrezia sarothrae</i>	broom snakeweed	
<i>Halogeton glomeratus</i>	saltlover	
<i>Helianthus annuus</i>	common sunflower	
<i>Heracleum sphondylium</i>	eltrot	
<i>Hesperostipa</i>	needle and thread	
<i>Hesperostipa comata</i>	needle and thread	
<i>Heterotheca</i>	false goldenaster	
<i>Holodiscus</i>	oceanspray	
<i>Holodiscus discolor</i>	oceanspray	
<i>Hymenoclea monogyra</i>	singlewhorl burrobrush	

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<i>Hymenoclea salsola</i>	burrobrush	
<i>Hymenoxys hoopesii</i>	owl's-claws	
<i>Iris missouriensis</i>	Rocky Mountain iris	
<i>Jatropha dioica</i> var. <i>graminea</i>	leatherstem	
<i>Juglans major</i>	Arizona walnut	
<i>Juglans microcarpa</i>	little walnut	
<i>Juncus</i>	rush	
<i>Juniperus</i>	juniper	
<i>Juniperus californica</i>	California juniper	
<i>Juniperus communis</i>	common juniper	
<i>Juniperus deppeana</i>	alligator juniper	
<i>Juniperus monosperma</i>	oneseed juniper	
<i>Juniperus occidentalis</i>	western juniper	
<i>Juniperus occidentalis</i> var. <i>australis</i>	western juniper	
<i>Juniperus osteosperma</i>	Utah juniper	
<i>Juniperus scopulorum</i>	Rocky Mountain juniper	
<i>Kobresia myosuroides</i>	Bellardi bog sedge	
<i>Kochia americana</i>	green molly	Bassia americana
<i>Koeleria macrantha</i>	prairie Junegrass	
<i>Krameria</i>	ratany	
<i>Krameria erecta</i>	littleleaf ratany	
<i>Krameria grayi</i>	white ratany	
<i>Krascheninnikovia lanata</i>	winterfat	
<i>Lactuca serriola</i>	prickly lettuce	
<i>Larrea tridentata</i>	creosote bush	
<i>Lathyrus</i>	pea	
<i>Lepidium perfoliatum</i>	clasping pepperweed	
<i>Leptochloa dubia</i>	green sprangletop	
<i>Leptodactylon pungens</i>	granite prickly phlox	Linanthus pungens
<i>Leucopoa kingii</i>	spike fescue	
<i>Leymus cinereus</i>	basin wildrye	
<i>Leymus flavescens</i>	yellow wildrye	
<i>Leymus salinus</i>	saline wildrye	
<i>Liatris punctata</i>	dotted blazing star	
<i>Ligusticum filicinum</i>	fernleaf licorice-root	
<i>Lupinus</i>	lupine	
<i>Lupinus argenteus</i>	silvery lupine	
<i>Lycium</i>	desert-thorn	
<i>Lycium andersonii</i>	water jacket	
<i>Lycium shockleyi</i>	Shockley's desert-thorn	
<i>Lycurus phleoides</i>	common wolfstail	
<i>Mahonia repens</i>	creeping barberry	
<i>Maianthemum stellatum</i>	starry false lily of the valley	
<i>Menodora spinescens</i>	spiny menodora	
<i>Mertensia arizonica</i>	aspen bluebells	

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<i>Mertensia lanceolata</i>	prairie bluebells	
<i>Muhlenbergia</i>	muhly	
<i>Muhlenbergia montana</i>	mountain muhly	
<i>Muhlenbergia porteri</i>	bush muhly	
<i>Muhlenbergia pungens</i>	sandhill muhly	
<i>Muhlenbergia richardsonis</i>	mat muhly	
<i>Nama</i>	fiddleleaf	
<i>Nassella</i>	needlegrass	
<i>Nassella viridula</i>	green needlegrass	
<i>Nolina</i>	beargrass	
<i>Nolina bigelovii</i>	Bigelow's nolina	
<i>Nolina parryi</i>	Parry's beargrass	
<i>Oenothera</i>	evening primrose	
<i>Olneya tesota</i>	desert ironwood	
<i>Opuntia</i>	pricklypear	
<i>Opuntia acanthocarpa</i>	buckhorn cholla	<i>Cylindropuntia acanthocarpa</i>
<i>Opuntia basilaris</i>	beavertail pricklypear	
<i>Opuntia bigelovii</i>	teddybear cholla	<i>Cylindropuntia bigelovii</i>
<i>Opuntia schottii</i>	Big Bend pricklypear	<i>Grusonia schottii</i>
<i>Oryzopsis</i>	ricegrass	
<i>Osmorhiza berteroi</i>	sweetcicely	
<i>Packera wernerifolia</i>	hoary groundsel	
<i>Palafoxia arida var. gigantea</i>	giant Spanish needle	
<i>Palafoxia arida var. gigantea</i>		<i>Palafoxia linearis</i>
<i>Panicum urvilleanum</i>	desert panicgrass	
<i>Parkinsonia florida</i>	blue paloverde	
<i>Parkinsonia microphylla</i>	yellow paloverde	
<i>Parthenium incanum</i>	mariola	
<i>Pascopyrum smithii</i>	western wheatgrass	
<i>Paxistima myrsinites</i>	Oregon boxleaf	
<i>Penstemon</i>	beardtongue	
<i>Penstemon caespitosus</i>	mat penstemon	
<i>Penstemon leiophyllus</i>	smoothleaf beardtongue	
<i>Penstemon thurberi</i>	Thurber's penstemon	
<i>Peraphyllum ramosissimum</i>	wild crab apple	
<i>Petalonyx thurberi</i>	Thurber's sandpaper plant	
<i>Petrophyton caespitosum</i>	mat rockspirea	<i>Petrophyton caespitosum</i>
<i>Peucephyllum schottii</i>	Schott's pygmycedar	
<i>Phacelia</i>	phacelia	
<i>Phleum pratense</i>	timothy	
<i>Phlox</i>	phlox	
<i>Phlox hoodii</i>	spiny phlox	
<i>Phlox pulvinata</i>	cushion phlox	
<i>Physocarpus malvaceus</i>	mallow ninebark	
<i>Physocarpus monogynus</i>	mountain ninebark	

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<i>Picea engelmannii</i>	Engelmann spruce	
<i>Picea engelmannii X glauca</i>		
<i>Picea pungens</i>	blue spruce	
<i>Picrothamnus desertorum</i>	bud sagebrush	
<i>Pinus</i>	pine	
<i>Pinus albicaulis</i>	whitebark pine	
<i>Pinus balfouriana</i>	foxtail pine	
<i>Pinus contorta</i>	lodgepole pine	
<i>Pinus contorta var. murrayana</i>	Sierra lodgepole pine	
<i>Pinus edulis</i>	twoneedle pinyon	
<i>Pinus flexilis</i>	limber pine	
<i>Pinus jeffreyi</i>	Jeffrey pine	
<i>Pinus longaeva</i>	Great Basin bristlecone pine	
<i>Pinus monophylla</i>	singleleaf pinyon	
<i>Pinus ponderosa</i>	ponderosa pine	
<i>Piptochaetium</i>	speargrass	
<i>Platanus racemosa</i>	California sycamore	
<i>Platanus wrightii</i>	Arizona sycamore	
<i>Pleuraphis jamesii</i>	James' galleta	
<i>Pleuraphis rigida</i>	big galleta	
<i>Pluchea sericea</i>	arrowweed	
<i>Poa</i>	bluegrass	
<i>Poa arctica</i>	arctic bluegrass	
<i>Poa cusickii</i>	Cusick's bluegrass	
<i>Poa fendleriana</i>	muttongrass	
<i>Poa fendleriana ssp. longiligula</i>	muttongrass	
<i>Poa lettermanii</i>	Letterman's bluegrass	
<i>Poa pratensis</i>	Kentucky bluegrass	
<i>Poa secunda</i>	Sandberg bluegrass	
<i>Polemonium viscosum</i>	sticky polemonium	
<i>Poliomintha incana</i>	frosted mint	
<i>Polygonum bistortoides</i>	American bistort	
<i>Populus angustifolia</i>	narrowleaf cottonwood	
<i>Populus balsamifera ssp. trichocarpa</i>	black cottonwood	
<i>Populus deltoides</i>	eastern cottonwood	
<i>Populus deltoides ssp. wislizeni</i>	Rio Grande cottonwood	
<i>Populus fremontii</i>	Fremont cottonwood	
<i>Populus tremuloides</i>	quaking aspen	
<i>Potentilla</i>	cinquefoil	
<i>Potentilla diversifolia</i>	varileaf cinquefoil	
<i>Prosopis</i>	mesquite	
<i>Prosopis glandulosa</i>	honey mesquite	
<i>Prosopis velutina</i>	velvet mesquite	
<i>Prunus</i>	plum	
<i>Prunus fasciculata</i>	desert almond	

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<i>Prunus virginiana</i>	chokecherry	
<i>Pseudoroegneria spicata</i>	bluebunch wheatgrass	
<i>Pseudotsuga menziesii</i>	Douglas-fir	
<i>Psoralidium lanceolatum</i>	lemon scurfpea	
<i>Psorothamnus arborescens</i>	Mojave indigobush	
<i>Psorothamnus emoryi</i>	dyebrush	
<i>Psorothamnus fremontii</i>	Fremont's dalea	
<i>Psorothamnus polydenius</i>	Nevada dalea	
<i>Psorothamnus spinosus</i>	smoketree	
<i>Pteridium aquilinum</i>	western brackenfern	
<i>Puccinellia lemmonii</i>	Lemmon's alkaligrass	
<i>Puccinellia nuttalliana</i>	Nuttall's alkaligrass	
<i>Purshia stansburiana</i>	Stansbury cliffrose	
<i>Purshia tridentata</i>	antelope bitterbrush	
<i>Quercus berberidifolia</i>	scrub oak	
<i>Quercus chrysolepis</i>	canyon live oak	
<i>Quercus cornelius-mulleri</i>	Muller oak	
<i>Quercus gambelii</i>	Gambel oak	
<i>Quercus john-tuckeri</i>	Tucker oak	
<i>Quercus toumeyi</i>	Toumey oak	
<i>Quercus turbinella</i>	Sonoran scrub oak	
<i>Redfieldia flexuosa</i>	blowout grass	
<i>Rhus microphylla</i>	littleleaf sumac	
<i>Rhus ovata</i>	sugar sumac	
<i>Rhus trilobata</i>	skunkbush sumac	
<i>Ribes</i>	currant	
<i>Ribes cereum</i>	wax currant	
<i>Ribes montigenum</i>	gooseberry currant	
<i>Robinia neomexicana</i>	New Mexico locust	
<i>Rosa woodsii</i>	Woods' rose	
<i>Rubus parviflorus</i>	thimbleberry	
<i>Rudbeckia occidentalis</i>	western coneflower	
<i>Salazaria mexicana</i>	Mexican bladdersage	
<i>Salicornia</i>	pickleweed	
<i>Salix amygdaloides</i>	peachleaf willow	
<i>Salix bebbiana</i>	Bebb willow	
<i>Salix boothii</i>	Booth's willow	
<i>Salix brachycarpa</i>	shortfruit willow	
<i>Salix drummondiana</i>	Drummond's willow	
<i>Salix eriocephala</i>	Missouri River willow	
<i>Salix exigua</i>	narrowleaf willow	
<i>Salix geyeriana</i>	Geyer willow	
<i>Salix gooddingii</i>	Goodding's willow	
<i>Salix irrorata</i>	dewystem willow	
<i>Salix laevigata</i>	red willow	

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<i>Salix lasiolepis</i>	arroyo willow	
<i>Salix lemmonii</i>	Lemmon's willow	
<i>Salix lucida</i>	shining willow	
<i>Salix lutea</i>	yellow willow	
<i>Salix monticola</i>	park willow	
<i>Salix planifolia</i>	diamondleaf willow	
<i>Salix scouleriana</i>	Scouler's willow	
<i>Salix wolfii</i>	Wolf's willow	
<i>Salsola tragus</i>	prickly Russian thistle	
<i>Sapindus saponaria</i>	wingleaf soapberry	
<i>Sarcobatus vermiculatus</i>	greasewood	
<i>Saxifraga</i>	saxifrage	
<i>Schismus</i>	Mediterranean grass	
<i>Scirpus</i>	bulrush	
<i>Selaginella densa</i>	lesser spikemoss	
<i>Selaginella watsonii</i>	Watson's spikemoss	
<i>Senecio</i>	ragwort	
<i>Senna armata</i>	desertsenna	
<i>Shepherdia argentea</i>	silver buffaloberry	
<i>Shepherdia canadensis</i>	russet buffaloberry	
<i>Sibbaldia procumbens</i>	creeping sibbaldia	
<i>Silene acaulis</i>	moss campion	
<i>Simmondsia chinensis</i>	jojoba	
<i>Solidago</i>	goldenrod	
<i>Sphaeralcea coccinea</i>	scarlet globemallow	
<i>Spiraea betulifolia</i>	white spirea	
<i>Sporobolus</i>	dropseed	
<i>Sporobolus airoides</i>	alkali sacaton	
<i>Sporobolus cryptandrus</i>	sand dropseed	
<i>Sporobolus flexuosus</i>	mesa dropseed	
<i>Suaeda</i>	seepweed	
<i>Symphoricarpos</i>	snowberry	
<i>Symphoricarpos albus</i>	common snowberry	
<i>Symphoricarpos oreophilus</i>	mountain snowberry	
<i>Symphyotrichum ascendens</i>	western aster	
<i>Tamarix</i>	tamarisk	
<i>Taraxacum officinale</i>	common dandelion	
<i>Tetradymia</i>	horsebrush	
<i>Tetradymia canescens</i>	spineless horsebrush	
<i>Tetradymia tetrameres</i>	fourpart horsebrush	
<i>Thalictrum fendleri</i>	Fendler's meadow-rue	
<i>Tiquilia</i>	crinklemat	
<i>Tiquilia hispidissima</i>	hairy crinklemat	
<i>Tiquilia palmeri</i>	Palmer's crinklemat	
<i>Tiquilia plicata</i>	fanleaf crinklemat	

Scientific Name	PLANTS Common Name	PLANTS Scientific Name
<i>Trifolium dasyphyllum</i>	alpine clover	
<i>Trifolium gymnocarpon</i>	hollyleaf clover	
<i>Trifolium nanum</i>	dwarf clover	
<i>Trifolium parryi</i>	Parry's clover	
<i>Trisetum spicatum</i>	spike trisetum	
<i>Typha</i>	cattail	
<i>Vaccinium</i>	blueberry	
<i>Valeriana occidentalis</i>	western valerian	
<i>Viguiera parishii</i>	Parish's goldeneye	
<i>Vulpia octoflora</i>	sixweeks fescue	
<i>Wyethia amplexicaulis</i>	mule-ears	
<i>Yucca</i>	yucca	
<i>Yucca baccata</i>	banana yucca	
<i>Yucca brevifolia</i>	Joshua tree	
<i>Yucca elata</i>	soaptree yucca	
<i>Yucca schidigera</i>	Mojave yucca	
<i>Zigadenus elegans</i>	mountain deathcamas	

E-3 Management Questions

The table provided here is a record of all the Management Questions proposed for this REA (discussed, revised, re-phrased, archived and answered) during the assessment. These MQs were managed for both CBR and MBR in a MS Excel workbook, and were combined into one list for both REAs after the Work Plans were completed. There are very few MQs that were answered for one but not the other REA. This table includes all the MQs that were not answered due to being out of scope, or unanswerable due to lack of data or other issues (MQ status = Inactive for dropped MQs). Only a sub-set of the columns in the workbook are presented here, however the entire workbook has been delivered to BLM separately with all of the additional information tracked by the Contractor for each MQ. Some final changes to MQs took place during Task 6, and are tracked in the "Final MQ" column with strikethrough or red font.

For each MQ, the original MQ, the final MQ and a rationale for archiving or dropping an MQ was tracked. Some MQs were duplicative with others and information is provided as to which MQ duplicates which or if 2 MQs were combined. Other fields in the workbook included (but are not provided here) discussions of feasibility, issues requiring AMT guidance, data proposed to answer the MQ, issues relating to lack of data or scientific justification for the MQ, and necessary clarifications. Most of these were provided in the Phase I Task Memoranda, and were presented at the AMT Workshops. Many of these were discussed during workshops or webinars.

The table is sorted by the final "active" MQs grouped by general subject; then the inactive or archived/dropped MQs are listed, in the same grouping by general subject.

Table E - 5. List of management questions addressed in this REA , with preliminary versions provided by BLM or the AMT, the final question; organized by general subjects. Also provided is a record of dropped management questions and reasons for dropping.

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
ACTIVE, ANSWERED MANAGEMENT QUESTIONS										
1	CBR, MBR	Active	Species	A	1. Where Are CEs and CAs?	Rephrased	What is the current distribution of potential habitat for each species CE?	What is the current distribution of occupied habitat for each CE, including seasonal habitat, and movement corridors?		Few landscape species and species assemblage CEs have data containing current locations of occupied habitat, and therefore this question may not be possible to answer for every landscape species and species assemblage. Current location data are primarily available for local species CEs. Seasonal habitat and movement corridors addressed through habitat modeling in MQ 3; data generally not available for current known locations of seasonal habitat and corridors.
2	CBR, MBR	Active	Species	A	3. Where Do CAs Intersect CEs?	Rephrased	Where are current locations of species CEs that are potentially affected by existing change agents (and thus potentially at risk)?	Where are species populations at risk?		This question addresses current known locations of CEs and existing distribution of CAs. Can mainly be answered for local species CEs due to data availability on known locations.
3	CBR, MBR	Active	Species	A	1. Where Are CEs and CAs?	Refined	What is the current distribution of suitable habitat, including seasonal habitat and movement corridors, for each landscape species and species assemblage CE?	What is the current distribution of suitable habitat for each CE?		
4	CBR, MBR	Active	Species	A	3. Where Do CAs Intersect CEs?	Accepted as originally proposed by BLM	Where are existing change agents potentially affecting this current habitat and/or movement corridors, for landscape species and species	Where are change agents potentially affecting this habitat and/or movement corridors?		This question addresses current suitable habitats for CEs and existing distribution of CAs. Can mainly be answered for local species CEs due to data availability on known locations.

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
							assemblage CEs?			
5	CBR, MBR	Active	Species	A	3. Where Do CAs Intersect CEs?	Reframed	Where are species CEs whose current locations or suitable habitats overlap with the potential future distribution of CAs (other than climate change)?	What/where is the potential for future change to this species?		This question addresses current suitable habitats and potential future distributions of CAs.
6	CBR, MBR	Active	Species	A	1. Where Are CEs and CAs?	Accepted as originally proposed by BLM	What is the relative survey intensity to date within the ecoregion for species CEs ?	What areas have been surveyed and what areas have not been surveyed (i.e., data gap locations)?		These will be ecoregion-level assessments of survey intensity for each CE, rather than detailed listing of specific areas that have and have not been surveyed.
7	CBR, MBR	Active	Species	A	5. Special Assessment	Reframed	Given current and anticipated future locations of change agents, which habitat areas remain as opportunities for habitat enhancement/restoration? MSR: 4/2012: will be addressed for a small subset of CEs as prototyping of possible ways to answer (GSG, DT, bighorn, one coarse-filter)	Where are potential habitat restoration areas?		For species CE habitats, ecological integrity scores will be calculated at the watershed level. The mid-level integrity ranking will be "Transitioning." Any areas for any CE identified as "Transitioning" will be considered a habitat restoration or enhancement opportunity, particularly in light of potential losses of high integrity examples due to CA expansion.
8	CBR, MBR	Active	Species	A	5. Special Assessment	Reframed; limited to Desert Tortoise and Sage Grouse	Where are potential areas to restore connectivity for landscape species and species assemblage CEs, based on current locations of change agents? MSR 4/2012- being answered for GSG and DT, rephrased to "Where are potential areas to restore connectivity or intact habitat for [greater sage grouse or desert tortoise] based on current locations of change agents?"	Where are potential areas to restore connectivity?		CircuitScape will identify "pinch points" in species habitat connectivity based on current CAs; these are potential areas for restoring connectivity. Forecasts for Change Agents vary in spatial resolution sufficiently to preclude use of CircuitScape in 2025 or 2060 forecast scenarios.
9	CBR, MBR	Active	Species	A	4. Relative Effects of CAs on CEs	Added	Where will landscape species and species assemblage CEs experience climate outside their current climate envelope? MSR 4/2012: climate envelope			addressed by Climate envelope models for species; assemblages would need intersect with climate space trends data

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
							models for species to answer this			
10	CBR, MBR	Active	Native Plant Communities	B	2. What is the Current Condition of CEs	Accepted as originally proposed by BLM	Where are intact CE vegetative communities located?	Where are intact CE vegetative communities located?		
11	CBR, MBR	Active	Native Plant Communities	B	2. What is the Current Condition of CEs	Reframed	Where are the likeliest current locations for high-integrity examples of each major terrestrial ecological system?			
12	CBR, MBR	Active	Native Plant Communities	B	3. Where Do CAs Intersect CEs?	Reframed	Where are existing and potential future CAs (aside from climate change) likeliest to affect current communities?	What/where is the potential for future change to the community?		Climate change is excluded because it is addressed in a separate MQ.
13	CBR, MBR	Active	Native Plant Communities	B	4. Relative Effects of CAs on CEs	Added	Where will current locations of these communities experience significant deviations from normal climate variation?			addressed by climate envelope models
14	CBR, MBR	Active	Terrestrial Sites of High Biodiversity	C	1. Where Are CEs and CAs?	Accepted as originally proposed by BLM	Where are sites identified (but not necessarily designated) for High Biodiversity?	Where are High Biodiversity sites?		Sites of (terrestrial) high biodiversity are defined as priority sites identified through previous planning efforts, including SWAPs, TNC ecoregional portfolio sites, and other selected efforts. They may or may not have formal management or protection designations.
15	CBR, MBR	Active	Terrestrial Sites of High Biodiversity	C	3. Where Do CAs Intersect CEs?	Reframed	Where will CAs (aside from climate change) potentially affect sites of high biodiversity?	"Potential for future change" should be framed from the CA list		Climate change is excluded because it is addressed in a subsequent MQ for terrestrial high biodiversity sites. NOTE: we are treating these sites as potential reporting units for this type of analysis. Current deliverables will focus on watershed reporting units.
16	CBR, MBR	Active	Terrestrial Sites of High Biodiversity	C	4. Relative Effects of CAs on CEs	Added	Where will locations of these High Biodiversity sites experience significant deviations from normal climate variation?			Climate space trends analyses will be reported by 4th level watershed; which may be subsequently combined with these sites as needed.

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
18	CBR, MBR	Active	Aquatic Sites of High Biodiversity	D	1. Where Are CEs and CAs?	Accepted as originally proposed by BLM	Where are Aquatic High Biodiversity sites?	Where are Aquatic High Biodiversity sites?		Taken from existing priority-setting efforts, same as for terrestrial.
19	CBR, MBR	Active	Aquatic Sites of High Biodiversity	D	3. Where Do CAs Intersect CEs?	Reframed	Where will these Aquatic High Biodiversity sites be potentially affected by Change Agents (aside from climate change)?	What/where is the potential for future change to these high-biodiversity sites?		Climate change is excluded because it is addressed in a subsequent MQ for aquatic high biodiversity sites.
20	CBR, MBR	Active	Aquatic Sites of High Biodiversity	D	4. Relative Effects of CAs on CEs	Added	Where will current locations of these Aquatic High Biodiversity sites experience significant deviations from normal climate variation?			
21	CBR, MBR	Active	Specially Designated Areas of Ecological Value	E	1. Where Are CEs and CAs?	Accepted as originally proposed by BLM	Where are specially designated areas of ecological or cultural value?	Where are specially designated areas of ecological value?		
28	CBR, MBR	Active	Soils	F	1. Where Are CEs and CAs?	Reframed	Where are sensitive soil types within the ecoregion?	Where are these areas within the ecoregion?		Sensitive soils are those soils that are extremely susceptible to impacts or that may be more difficult to restore or reclaim after disturbance: soils having high erosion potential, high salinity, high gypsum content, low water holding capacity, or hydric qualities
29	CBR, MBR	Active	Soils	F	3. Where Do CAs Intersect CEs?	Reframed	Where will target soil types overlap with CAs (aside from climate change) under each time scenario?	What/where is the potential for future change in conditions, such as due to climate change?		Climate change is excluded because it is addressed in a separate MQ for sensitive soils.
36	CBR, MBR	Active	Aquatic Ecological Function and Structure	G	2. What is the Current Condition of CEs	Rephrased	What is the condition (ecological integrity) of aquatic conservation elements?	What is the condition of target aquatic systems? OR What is the condition of target aquatic systems in terms of PFC?		
39	CBR, MBR	Active	Aquatic Ecological Function and Structure	G	2. What is the Current Condition of CEs	Rephrased	Where are the aquatic CE occurrences with the most degraded condition (ecological integrity)?	Where are the degraded aquatic systems (e.g., water quality)?		Rephrased to align with MBR MQ 39 [dpc 4/15/11]
23	CBR, MBR	Active	Grazing, Wild Horses and Burros	H	5. Special Assessment	Accepted as originally proposed by BLM	Where are the current Herd Management Areas (HMAs)?	Where are the current Herd Management Areas (HMAs)?		

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
26	CBR, MBR	Active	Grazing, Wild Horses and Burros	H	5. Special Assessment	Added/reframed	Where will CAs (excluding climate change) overlap HAs, HMAs, and GAs under each time scenario?			Climate change is excluded because it is addressed in a separate MQ for HAs, etc.
27	CBR, MBR	Active	Grazing, Wild Horses and Burros	H	5. Special Assessment	Added	Which HA's, HMA's and GA's will experience climate outside their current climate envelope?			Climate space trends analyses will be reported by 4th level watershed; which may be subsequently combined with these sites as needed.
40	CBR, MBR	Active	Fire History	I	1. Where Are CEs and CAs?	Reframed	Where have fires greater than 1000 acres occurred?	Where are the areas that have been changed from wildfire?		
42	CBR, MBR	Active	Fire Potential	J	1. Where Are CEs and CAs?	Reframed	What areas now have unprecedented fuels composition (invasive plants), and are therefore at high potential for fire?	Where are the areas of potential future change from predicted wildfire? (<i>BLM amendment</i>)		
43	CBR, MBR	Active	Fire Potential	J	4. Relative Effects of CAs on CEs	Deferred	Where are areas that in the future will have high potential for fire?	Where are the areas of potential future change from predicted wildfire? (<i>BLM amendment</i>)		
44	CBR, MBR	Active	Invasive Species	K	1. Where Are CEs and CAs?	Reframed	What is the current distribution of invasive species included as CAs?	Where are areas dominated by these invasive species?		
45	CBR, MBR	Active	Invasive Species	K	2. What is the Current Condition of CEs	Reframed	What areas are significantly ecologically affected by invasive species?	Where are areas dominated by these invasive species?		
47	CBR, MBR	Active	Invasive Species	K	1. Where Are CEs and CAs?	Reframed	Given current patterns of occurrence and expansion of the invasive species included as CAs, what is the potential future distribution of these invasive species?	Where are the areas of potential future encroachment from this invasive species?		bradley models for invasive plants will be clipped and used for this MQ
48	CBR, MBR	Active	Development	L	1. Where Are CEs and CAs?	Reframed	Where are current locations of development CAs?	Where are current locations of relevant development types?		
49	CBR, MBR	Active	Development	L	1. Where Are CEs and CAs?	Reframed	Where are areas of planned or potential development CAs?	Where are areas of planned or potential development (outside of current urban areas) (e.g., under lease, plans of operation, governmental planning), including transmission corridors?		

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
50	CBR, MBR	Active	Development	L	4. Relative Effects of CAs on CEs	Reframed	Where do development CAs cause significant loss of ecological integrity?	Where are the areas of significant ecological change from these anthropogenic activities?		In CBR, phrased as "Where are the areas of CEs that fall below their EI threshold due to development CAs?"
51	CBR, MBR	Active	Development	L	3. Where Do CAs Intersect CEs?	Added/ reframed	Where do current locations of CEs overlap with development CAs?			This development CA-specific MQ will be coordinated with previous MQs that address the intersection of multiple types of CAs with CEs (e.g., MQs 2, 4, 5, and 12).
52	CBR, MBR	Active	Development	L	3. Where Do CAs Intersect CEs?	Added; then rephrased (dropped "ecological areas" & "significant")	Where is recreational use? Where are ecological areas with significant recreational use?			3 proposed CEs from AMT5 workshop summary (desert tortoise, GSG, erodable soils); 3 days time to do
83	CBR, MBR	Active	Oil, Gas, and Mining Development	M	1. Where Are CEs and CAs?	Reframed	Where are the current locations of oil, gas, and mineral extraction?	Where are the current locations of Oil, Gas, and Mining (including gypsum) development?		
81	CBR, MBR	Active	Renewable Energy Development	N			Where will locations of renewable energy [development] potentially exist by 2025?			
87	CBR, MBR	Active	Renewable Energy Development	N	1. Where Are CEs and CAs?	Added	Where are the current locations of renewable energy development (solar, wind, geothermal, transmission)?			
88	CBR, MBR	Active	Renewable Energy Development	N	1. Where Are CEs and CAs?	Accepted as originally proposed by BLM	Where are the areas identified by NREL as potential locations for renewable energy development?	Where are the areas identified by NREL as potential and physically possible locations for renewable energy development?		
89	CBR, MBR	Active	Renewable Energy Development	N	1. Where Are CEs and CAs?	Added	Where are the areas of low renewable and non-renewable energy development that could potentially mitigate impacts to CEs from potential energy development?		answered	BLM to give direction on how to address this question.

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
90	CBR, MBR	Active	Renewable Energy Development	N	3. Where Do CAs Intersect CEs?	Added	Where do current locations of CEs overlap with areas of potential future locations of renewable energy development (MQ 65)?			
30	CBR, MBR	Active	Surface and Subsurface Water Availability	O	1. Where Are CEs and CAs?	Reframed	Where are current natural and man-made surface water resources?	Where are these aquatic areas?		
31	CBR, MBR	Active	Surface and Subsurface Water Availability	O	1. Where Are CEs and CAs?	Reframed	Of the current surface water resources (both natural and man-made), which are perennial, ephemeral, etc?	What is the persistence of the flow (e.g., perennial, ephemeral) of these systems?		
34	CBR, MBR	Active	Surface and Subsurface Water Availability	O	1. Where Are CEs and CAs?	Reframed	Where are the likely recharge areas within a HUC?	Where are the aquifers and their recharge areas?		
35	CBR, MBR	Active	Surface and Subsurface Water Availability	O	3. Where Do CAs Intersect CEs?	Reframed	Where will the likely recharge areas (relating to aquatic CEs) identified in MQ 37 potentially be affected by Change Agents? (rephrased 1/24/12)	What/where is the potential for future change in extent and flows from change agents?		Although this MQ will address both aquifers and recharge areas as identified in previous MQs, this MQ does not attempt to identify the linkages between aquifers and recharge areas because that is frequently unknown.
54	CBR, MBR	Active	Groundwater Extraction and Transportation	P	4. Relative Effects of CAs on CEs	Reframed	Where will change agents potentially impact groundwater-dependent aquatic CEs? [springs and seeps only]	Where are the areas of potential future change from groundwater extraction?		
56	CBR, MBR	Active	Groundwater Extraction and Transportation	P	1. Where Are CEs and CAs?	Reframed	What is the present distribution of municipal and agricultural water use of groundwater resources in relation to the distribution of aquatic CEs?			
57	CBR, MBR	Active	Groundwater Extraction and Transportation	P	1. Where Are CEs and CAs?	Reframed	Where are the aquatic CEs showing degraded ecological integrity from existing groundwater extraction? [only partially spatial otherwise narrative review]	Where are the areas showing effects from existing groundwater extraction?		We cannot go beyond the information generated for MQ# 33.
58	CBR, MBR	Active	Surface Water Consumption and Diversion	Q	1. Where Are CEs and CAs?	Accepted as originally proposed by BLM	Where are artificial water bodies including evaporation ponds, etc.? [duplicative with MQ31]	Where are artificial water bodies including evaporation ponds, etc.?		This is a subset of the information that will be generated to answer MQ 31. (Duplicative MQ 77 was removed.)
60	CBR, MBR	Active	Surface Water Consumption and Diversion	Q	1. Where Are CEs and CAs?	Added	Where are the areas of potential future change in surface water consumption and diversion?			This is a parallel question to MQ 69, the former focused on groundwater and this one (MQ 74) focused on surface water

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62	CBR, MBR	Active	Surface Water Consumption and Diversion	Q	2. What is the Current Condition of CEs	Added	Where are the CEs showing degraded ecological integrity from existing surface water diversion?			
80	CBR, MBR	Active	Atmospheric Deposition	R	1. Where Are CEs and CAs?	Added	Where are areas affected by atmospheric deposition of pollutants, as represented specifically by nitrogen deposition, acid deposition, and mercury deposition?			
65	CBR, MBR	Active	Climate Change: Terrestrial Resource Issues	S	4. Relative Effects of CAs on CEs	Reframed	Where will changes in climate be greatest relative to normal climate variability?	Where are the areas of potential future change from climate change?		
66	CBR, MBR	Active	Climate Change: Terrestrial Resource Issues	S	5. Special Assessment	Reframed	Given anticipated climate shifts and the direction shifts in climate envelopes for CEs, where are potential areas of significant change in extent?	Where are the areas of potential for fragmentation?		Climate envelopes for selected terrestrial coarse filter CEs and landscape species CEs will be addressed. Climate envelope shift models may show increased patchiness of a CE if its extent is reduced in an area due to climate change. But given the relative spatial resolution of forecasts, results should be interpreted as approximate change in extent, rather than as indications of habitat fragmentation.
67	CBR, MBR	Active	Climate Change: Terrestrial Resource Issues	S	4. Relative Effects of CAs on CEs	Reframed	Which native plant communities will experience climate completely outside their normal range?	How will the distributions of native plant communities change with climate change?		
68	CBR, MBR	Active	Climate Change: Terrestrial Resource Issues	S	4. Relative Effects of CAs on CEs	Reframed	Where will current wildlife habitats experience climate completely outside its normal range?	Where are the areas of potential of change of wildlife habitat?		
69	CBR, MBR	Active	Climate Change: Terrestrial Resource Issues	S	4. Relative Effects of CAs on CEs	Added	Where are wildlife species ranges (on the list of species CEs) that will experience significant deviations from normal climate variation?			

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
71	CBR, MBR	Active	Climate Change: Aquatic Resource Issues	T	4. Relative Effects of CAs on CEs	Reframed	Where will aquatic CEs experience significant deviations from historic climate variation that potentially could affect the hydrologic and temperature regimes of these aquatic CEs?	Where are the areas of potential future change from climate change?		This question was reframed to address climate-related drivers of hydrology, rather than changes in climate generically. Incorporates concerns of deleted MQs 86, 87, and 88 (CBR #s 72, 73, 74), to extent they can be addressed at REA scale.
76	MBR	Active	Military Constrained Areas	U	1. Where Are CEs and CAs?	Reframed	Where are areas of planned expansion of military use?	Where might these areas change in the future?	msr 4/12: added back, they want the 29 Palms expansion boundaries. We delivered 3 options	lack of data
INACTIVE, DROPPED, MERGED MANAGEMENT QUESTIONS										
78	CBR	Inactive	Species	A	1. Where Are CEs and CAs?	Integrated with other MQ	Where are active Bald Eagle nests?	Where are they?	Bald eagles will be addressed as part of Landscape Species CE MQs	
79	CBR	Inactive	Species	A	1. Where Are CEs and CAs?	Integrated with other MQ	Where are active Golden Eagle nests?	Where are they?	Golden eagles will be addressed as part of Landscape Species CE MQs	
XX	CBR, MBR	Inactive	Species	A		Research that is out of scope		Where are habitats that may be limiting species sustainability? Clarify "sustainability", but this concept is difficult and is a research question beyond the scope of the REA. Clarify the meaning of "habitats that limit"		
17	CBR	Inactive	Aquatic Sites of High Biodiversity	D	1. Where Are CEs and CAs?	Merged	What has been the general level of survey effort (ecoregion-wide, not site-specific) for spring snails and other species of concern?	What areas have been (and have not been) surveyed for spring snails and other species of concern?		merged with #6; we are not able to provide site-specific review of survey effort.
29.5	CBR, MBR	Inactive	Soils	F	4. Relative Effects of CAs on CEs	Added	Where will current sensitive soil types experience significant deviations from normal climate variation?		dropped, 4/12	Climate space trends analyses will be reported by 4th level watershed; which may be subsequently combined with these sites as needed.

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
N/A	MBR	Inactive	Soils	F		Deleted	Where are areas of nitrogen deposition beyond "normal" levels?	Where are areas of nitrogen deposition?	Duplicate	Can be addressed with MQ 92. [dpb 4/15/11]
21	CBR, MBR	Inactive	Grazing, Wild Horses and Burros	H		Deferred	Where are the current herds of wild horses?	Where are the current Herds of Wild Horses?	Data availability	
22	CBR, MBR	Inactive	Grazing, Wild Horses and Burros	H		Deferred	Where are the current herds of burros?	Where are the current Herds of Burros?	Data availability	
24	CBR, MBR	Inactive	Grazing, Wild Horses and Burros	H		Deferred	Which HMAs are exceeding AML?	Which HMAs are exceeding AML?	No data	
XX	CBR, MBR	Inactive	Grazing, Wild Horses and Burros	H		Deferred	Which current HMA will overlap with the distribution of Change Agents?		Duplicate of MQ 26	Duplicative with #26
XX	CBR, MBR	Inactive	Grazing, Wild Horses and Burros	H		Research that is out of scope		Are there sufficient forage, unrestricted space, and available surface water to sustain wild horse and burro herds for the long term in existing Herd Management Areas and Herd Areas?		
XX	CBR, MBR	Inactive	Grazing, Wild Horses and Burros	H		Research that is out of scope		Can the habitat sustain these populations across the landscape, while providing for both rangeland and herd health?		
41	CBR, MBR	Inactive	Fire History	I	3. Where Do CAs Intersect CEs?	Deferred	In places that have experienced fire, which sites have shifted to a vegetative state dominated by invasive plants and, without active restoration, will be unlikely to return to the previously occurring vegetative state?	What is the current status of these habitats?	Outside of scope	
46	CBR, MBR	Inactive	Invasive Species	K	2. What is the Current Condition of CEs	Reframed	Focusing on the distributions of terrestrial and aquatic CEs that are significantly affected by invasives, which areas have restoration potential?	Where are areas with restoration potential?	answered as part of MQ#7, using invasives along with climate & development	See notes in Data Sources

FINAL MQ Num	Which Ecoreg	MQ Status	MQ Group	Sort	Task 6 Assessment Type	Fate of Preliminary MQ	Final Management Question	Preliminary MQ Proposed by BLM	Rationale for Fate	Clarifications
50	CBR	Inactive	Development	L	2. Where Do CAs Intersect CEs?	Deleted	Where are the areas of CEs that fall below their EI threshold due to development CAs?	Where will these developments have the potential to affect water resources?	Duplicate with MBR 54	Incorporated into MBR 54. Original BLM MQs appeared to have a terrestrial / aquatic split
84	CBR, MBR	Inactive	Oil, Gas, and Mining Development	M	1. Where Are CEs and CAs?	Reframed and consolidated	Where will locations of oil, gas, and mineral extraction potentially exist by 2025?	Where are areas under plans of operation?	MSR 4/12: no future data available to answer this	only available data is in the Copeland dataset; email exchanges with Karl in ___ revealed no other future oil & gas data are available; Copeland shows very few minor areas in CBR and none in MBR
85	CBR, MBR	Inactive	Oil, Gas, and Mining Development	M	1. Where Are CEs and CAs?	Accepted as originally proposed by BLM	Where are the areas of potential future locations of Oil, Gas, and Mining (including gypsum) development (locatable, salable, and fluid and solid leasable minerals)?	Where are the areas of potential future locations of Oil, Gas, and Mining (including gypsum) development (locatable, salable, and fluid and solid leasable minerals)?	MSR 4/12: no future data available to answer this	lack of data for future extractive energy & mineral deposits.
86	CBR, MBR	Inactive	Oil, Gas, and Mining Development	M	3. Where Do CAs Intersect CEs?	Added	Where do locations of current CEs overlap with areas of potential future locations of non-renewable energy development?		MSR 4/12: no future data available to answer this	lack of data for the future energy development cannot intersect with CEs.
N/A	MBR	Inactive	Oil, Gas, and Mining Development	M	1. Where Are CEs and CAs?	Deleted	Where are areas under lease?	Where are areas under lease?	Integrated with MQ 58	
N/A	MBR	Inactive	Oil, Gas, and Mining Development	M	1. Where Are CEs and CAs?	Deleted	Where are areas with mineral deposits, free use permits, or community pits?	N/A	Integrated with MQ 57	
N/A	MBR	Inactive	Oil, Gas, and Mining Development	M	5. Special assessment	Deleted	Where are the areas of low non-renewable energy development that could potentially mitigate impacts to CEs from potential energy development?		Integrated with MQ 66	This is duplicated in MQ #66; MQ 66 was broadened to include both non-renewable and renewable energy.
N/A	MBR	Inactive	Oil, Gas, and Mining Development	M		Added, then Deleted	ADD: Prioritizing ecoregional sustainability. How many additional oil, gas, and mineral leases are feasible in the ecoregion?		No data	
N/A	MBR	Inactive	Renewable Energy Development	N		Deleted	BLM ADD: Prioritizing ecoregional sustainability. How many acres of renewable energy development are feasible in the ecoregion?		Duplicate	Redundant with MQ 65
N/A	MBR	Inactive	Renewable Energy Development	N		Out of scope	Where are areas suitable for development outside of study areas?			

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32	CBR, MBR	Inactive	Surface and Subsurface Water Availability	O	1. Where Are CEs and CAs?	Deferred	Of the current perennial surface water resources (both natural and man-made) contributing to aquatic CEs, which are likely supported by groundwater discharges and what aquifers most likely provide this groundwater support?	Of these water resources, what is their surface water/groundwater connectivity?		
33	CBR, MBR	Inactive	Surface and Subsurface Water Availability	O	1. Where Are CEs and CAs?	Deleted	What is the natural range of variation in high and low water levels or flows (e.g., frequency, timing, duration of high and low water levels or flows)?	What are the frequencies & magnitudes of flows?	Replaced with MQ 36	Deleted this in favor of MQ 36 [dpb 4/15/11]
82	CBR, MBR	Inactive	Surface and Subsurface Water Availability	O	1. Where Are CEs and CAs?	Reframed	What is the natural variation of monthly discharge and monthly base flow for streams and rivers? [made inactive 1/24/12]			Reframed from MBR MQ 35, CBR MQ 33
53	CBR, MBR	Inactive	Groundwater Extraction and Transportation	P		Deleted	Where are aquifers and their recharge zones?	Where are aquifers and their recharge zones?	Duplicate of MBR 37	
55	CBR, MBR	Inactive	Groundwater Extraction and Transportation	P		Deleted	Where are groundwater resources capable of meeting sustained water demand for renewable energy projects without degrading aquatic ecosystems that also depend on these groundwater resources?	Where are the areas of high and low groundwater potential in relation to supporting solar power, sustaining species, etc.?	Not feasible with REA-scale data	We cannot go beyond the information generated for MQ# 33. [MQ 33 is "Of the current water resources (both natural and man-made), what is their surface water/groundwater connectivity?"] There are two versions of this question: One for groundwater (MQ 70) and one for surface water (MQ 75)
59	CBR, MBR	Inactive	Groundwater Extraction and Transportation	P		Deleted	Where are the areas with groundwater basins in an overdraft condition?		Duplicate of MQ 71/57	Technically this is not the same as MQ 71, but MQ 71 is the one we need to answer. "Overdraft" means that withdrawals exceed recharge over the long-term. Such overdrafting is irrelevant for our REAs unless it affects or could affect a CE, which is why MQ 71 is the only question we need to answer w/r/t current conditions. Our CA assessment will address the "future" version of same. [dpb 4/15/11]

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58	CBR, MBR	Inactive	Surface Water Consumption and Diversion	Q	1. Where Are CEs and CAs?	Deleted	Where are artificial water bodies including evaporation ponds, etc.?		Duplicate	Same as MQ 72. [Question had been listed once under Surface Water Consumption and Diversion and once for Groundwater Extraction and Transportation.] MQ 72 really is just a subset of MQ 31, as noted above for MQ 72 [dpb 4/15/11]
61	CBR, MBR	Inactive	Surface Water Consumption and Diversion	Q		Deleted	Where are the areas with surface water resources available to sustain solar power, and other forms of development without degrading aquatic ecosystems that also depend on these surface water resources? DPB 4-15-11 If retained, this should be reframed as, "Where are the areas with surface water resources available to sustain solar power, and other forms of development without degrading aquatic ecosystems that also depend on these surface water resources?" However, best to delete it.		Out of scope or no data	There are two versions of this question: One for groundwater (MQ 70) and one for surface water (MQ 75)
64	CBR, MBR	Inactive	Surface Water Consumption and Diversion	Q		Deleted	Where are the areas with existing surface water extraction that has caused natural aquatic communities to become entirely dry, either seasonally or perennially?		Duplicate	See MQ 76. This is essentially the same question as the one about "areas showing effects from existing surface water exploitation." [MQ 71 is parallel question for groundwater resources.] Deleted because this is merely a rephrasing of MQ #76, except that it asks about where we have lost surface flow entirely, and that is not answerable with regional data at present. [dpb 4/15/11]
70	CBR, MBR	Inactive	Climate Change: Terrestrial Resource Issues	S		Deferred	Based on recent distributions and expansion patterns of insect pests and disease, what are expected distributions in the future?	How might climate change impact disease agents and vectors [strategy, future data/research need]?	Beyond scope	

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72	CBR, MBR	Inactive	Climate Change: Aquatic Resource Issues	T		Deleted	Where are aquatic resources that will experience significant deviations from normal flow regime or mean water levels?	Where are the areas of potential of flow change?	Out of scope or no data	This is not a matter of "merging" with MQ 85. The old MQ 86 contained the irrelevant term "abrupt," referred to "aquatic resources" instead of to "aquatic CEs," and asked to assess changes in stream hydrology rather than the climate drivers of that hydrology. We need to reframe MQ 85 so that it specifically addresses changes in climate drivers of hydrology rather than changes in climate generically.
73	CBR, MBR	Inactive	Climate Change: Aquatic Resource Issues	T		Deleted	Where will aquatic resources experience significant deviations from normal temperature regime?	Where are the areas of potential of temperature change?	Out of scope or no data	See MQ 85 And see comments for MQ 86 as well [dpb 4/15/11]
74	CBR, MBR	Inactive	Climate Change: Aquatic Resource Issues	T		Deleted	Where are aquatic resources that will experience additional effects on physical habitat such as channel morphology due to significant deviations in climate and hydrologic regimes?	Where are the areas of potential of change of aquatic habitat?	Out of scope or no data	Deleted because question is impossible to answer with REA-scale data and assessments. The proposed rephrasing of MQ 85 takes care of that. [dpb 4/15/11]
N/A	MBR	Inactive	Climate Change: Aquatic Resource Issues	T		Deleted; redundant with MQ others in this section	How will water availability change with climate change?			
75	CBR, MBR	Inactive	Military Constrained Areas	U	1. Where Are CEs and CAs?	Deferred	Where are military constrained areas?	Where are military constrained areas?		Data for this are inaccessible.

