

## **CONSULTATION AND COORDINATION**

### **Consultation**

The Bishop Field Office has consulted with Tribes of the Eastern Sierra regarding the Proposed Action since the beginning of project development. There have been multiple opportunities for Tribes to raise concerns regarding any potential for affects to their cultural values including multiple field trips to the project site. These field trips included visits to sites treated with the same methods as proposed here to demonstrate the potential effects. The Field Office has incorporated the feedback received in consultation and does not believe that there will be negative impacts to Native American Cultural Values. See also the analysis of effects to Cultural and Historic Resources on pg. 229 above.

### **Environmental Assessment Preparers**

Joy Fahtoo	Wildlife biologist/Visual Resource Specialist
Kirstin Heins	Outdoor Recreation Planner/Wilderness Specialist
Dale Johnson	Vegetation Management Officer
William Kerwin	Archeologist
Sherri Lisius	Wildlife Biologist
Bernadette Lovato	Field Manager
Steve Nelson	Supervisory Wildlife Specialist
Martin Oliver	Botanist
Larry Primosch	Lands Specialist
Jeff Starosta	Rangeland Management Specialist
Heather Stone	Vegetation Management Specialist and NEPA Planner
Rich Williams	Recreation Specialist

## APPENDICES

### A. Glossary and List of Acronyms

**ACEC:** Area of Critical Environmental Concern.

**BIFO:** Bureau of Land Management Bishop Field Office.

**BLM:** Bureau of Land Management.

**CDFG:** California Department of Fish and Game (Now California Department of Fish and Wildlife).

**Desired Plant Community (DPC):** A vegetation association as defined in the Bishop RMP with associated goals for management.

**EA:** Environmental Assessment (NEPA document).

**Ecological Departure:** The departure of vegetation states from the Natural Range of Variability (See Natural Range of Variability).

**Ecological resilience:** Properties of an ecosystem that allow it to withstand disturbance without changes in processes and structures occurring that are of sufficient magnitude to result in new alternative states.

**Ecological system:** Recurring groups of biological communities that are found in similar physical environments and are influenced by similar dynamic ecological processes, such as fire or flooding. They are intended to provide a classification unit that is readily mappable, often from remote imagery, and readily identifiable by conservation and resource managers in the field (NatureServe).

**FRCC:** Fire Regime Condition Class. A metric for describing ecological departure that is the percentage departure from the modeled distribution of seral classes under the natural range of variability.

**GIS:** Geographic Information System.

**Go-No-Go Checklist:** Prescribed fire Burn Boss checklist to identify all agency contacts, and to ensure that resource concerns and objectives are addressed prior to ignition.

**Invasive plants:** Non-native plants whose introduction does or is likely to cause economic or environmental harm or harm to human health. (Based on the definition provided in Executive Order 131121). Non-native annual grasses such as cheatgrass (*Bromus tectorum*) or red brome (*Bromus madritensis*) are also included in this definition.

**Key Observation Point (KOP):** A viewpoint from which observers are likely to view the project or treatment which is used in analysis of potential visual impacts.

**Management Area (MA):** A planning unit defined in the Bishop Resource Management Plan.

**MIST:** Minimum impact suppression techniques for controlling fire used in sensitive areas such as WSAs.

**Natural Range of Variability (NRV):** The variation of vegetation states across the landscape due to the natural biotic or abiotic processes without intervention from industrial societies.

**Non-native plants:** Refers to plants introduced to North America or more specifically the Great Basin region from other parts of the world or from a different geographic region. Non-native plants are not necessarily an invasive plant.

**NEPA:** National Environmental Policy Act.

**NRV:** Natural Range of Variability.

**NRCS:** Natural Resource Conservation Service.

## Appendix A: Glossary and List of Acronyms

**RMP:** Resource Management Plan.

**Seral class or stage:** The series of plant communities that develop during ecological succession.

**Surface disturbance:** In reference to management of WSAs, surface disturbance is defined as new disruption of the rock, soil, or vegetation, including vegetative trampling, that would necessitate reclamation, rehabilitation, or restoration in order for the site to appear and function as it did prior to the disturbance (BLM Manual 6330 1.6.C).

**TNC:** The Nature Conservancy.

**Uncharacteristic vegetation state:** A vegetation condition that would not have occurred under natural conditions such as invasion by non-native plants or vegetation resulting from an altered or missing disturbance regime.

**USGS:** United States Geological Survey.

**VDDT:** Vegetation Dynamics Development Tool. A computer program for modeling the change over time of seral classes. Used to calculate FRCC under different scenarios. See Provencher 2009.

**VRM Class:** (Visual Resource Management Class) Standards defined in the Bishop Resource Management Plan for maintenance of visual resources.

**WNV:** West Nile Virus.

**WSA:** Wilderness Study Area.

**WSR:** California Statewide Wilderness Study Report, 1990, Part 4, Volume One.

## **B. Ecological System Descriptions**

Definitions of the vegetation classes for the target ecological systems in the Bodie Hills as described in Provencher et al, 2009.

### **1. Basin Wildrye-Basin Big Sagebrush**

A *Early*: 0-20% cover of basin wildrye

B *Mid-Closed*: 21-80% cover of basin wildrye

C na

D *Late-open*: 11-20% cover of big sagebrush; <75% cover of basin wildrye

E na

U *ShAG*: Shrub-Annual-Grass; 11-20% cover of big sage; 11-30% basin wildrye; <30% cover of cheatgrass

U *AG*: Annual-Grass; 10-40% cover of cheatgrass

U *TrEnc*: Tree-Encroached; 10-40% cover of pinyon/juniper; <10% herbaceous cover

U *TrAG*: Tree-Annual-Grass; 10-40% cover of pinyon/juniper; 5-20% cover annual grasses

U *EXF*: Exotic-Forbs; 20-100% exotic forbs (knapweed, tall whitetop, purple loosetrife)

U *ESH*: *Early*-Shrub; 0-40% cover of rabbitbrush species

### **2. Low Sagebrush**

A *Early*: 0-10% herbaceous cover; 0-10% cover of rabbitbrush

B *Mid1-open*: 11-20% cover of low sage <0.5m; 10-20% herbaceous cover

C na

D na

E *Late1-open*: cover of trees 0-10% <5m; 15-25% cover of low sage; 5-20% herbaceous cover

U *ShAP*: Shrub-Annual-Grass-Perennial-Grass; 5-20% cover of low sage <0.5m; 5-20% native herbaceous cover; 5-15% cheatgrass cover

U *AG*: Annual-Grasses; 5-20% cheatgrass cover

U *TrEnc*: Tree-Encroached; 10-30% cover of trees; <5% herbaceous cover

### **3. Montane Sagebrush Steppe**

A *Early*: 0-10% canopy of mountain sage/mountain brush; >50% grass/forb cover

B *Mid-open*: 11-30% cover of mountain sage/mountain shrub; >50% herbaceous cover

C *Mid-closed*; 31-50% cover of mountain sage/mountain brush; 25-50% herbaceous cover, <10% pinyon/juniper sapling cover

D *Late-open*: 10-30% cover pinyon/juniper <10m; 25-40% cover of mountain sage/mountain brush; <30% herbaceous cover

E *Late-closed*: 31-80% pinyon/juniper cover 10-25m; 6-20% shrub cover; <20% herbaceous cover

U *ESH*: *Early*-Shrub; 0-40% cover rabbitbrush species

U *TrEnc*: Tree-Encroached; 31-80% pinyon/juniper cover 10-25m; <5% shrub cover; <5% herbaceous cover

U *DPL*: Depleted; 31-50% cover of mountain sage/mountain brush; <5% herbaceous cover; <10% pinyon/juniper sapling cover

U *ShAG*: Shrub-Annual-Grass; 31-50% cover of mountain sage/mountain brush; 5-40%

## Appendix B: Ecological System Descriptions

cheatgrass cover; <10% pinyon/juniper sapling cover

U *ShAP*: Shrub-Annual-Grass-Perennial-Grass; 31-50% cover of mountain sage/mountain brush; 5-30% cover of native grass; 5-10% cheatgrass cover; <10% pinyon/juniper sapling cover

U *AG*: Annual-Grass; 10-30% cover of cheatgrass

### 4. Mountain Shrub

A *Early*: 0-40% shrubs <0.5m tall

B *Mid1 –closed*: 10-30% cover shrubs 0.5-2.9m tall

C *Late1 –closed*: 30-60% cover shrubs 0.5-2.9m tall

D *Late1 –open*: 5-15% cover pinyon/juniper 5-24m tall

U *TrEnc*: Tree-Encroached; 31-80% pinyon/juniper cover 10-25m, <5% shrub cover, <5% herbaceous cover

U *ESH*: *Early*-Shrub; 0-40% cover rabbitbrush species

### 5. Wyoming Big Sagebrush: loamy

A *Early*: 20-40% herbaceous cover, <10% cover of rabbitbrush species and Wyoming big sage

B *Mid1-open*: 11-20% cover Wyoming big sagebrush; 10-40% herbaceous cover

C *Late1-closed*: 20-40% cover of Wyoming big sage; <20% native herbaceous cover

D *Late2-open*: 0-10% pinyon or juniper <5m tall, 20-30% cover of Wyoming big sage; <10% native herbaceous cover

E *Late2-closed*: 11-60% pinyon or juniper <10m tall, 10% cover of Wyoming big sage; <10% native herbaceous cover

U *ShAP*: Shrub-Annual-Grass-Perennial Grass; 10-30% Wyoming big sage <0.5m, 5-20% native grass cover; 5-20% cover cheatgrass

U *ShAG*: Shrub-Annual-Grass; 10-30% Wyoming big sage <0.5m; 10-30% cover cheatgrass

U *DPL*: Depleted; 10-40% Wyoming big sage <1.0m; herbaceous cover <5%

U *AG*: Annual-Grass; 10-40% cover of cheatgrass

U *ESH*: *Early*-Shrub; >10% cover of rabbitbrush; native grass cover variable

U *TrEnc*: Tree-Encroached; 11-60% cover of trees 5-9m; <5% cover of cheatgrass; <5% cover of native grass

U *TrAG*: Tree-Annual-Grass; 11-60% cover of trees 5-9m; 5-20% cheatgrass cover

### 6. Wyoming Big Sagebrush: sandy

A *Early*: 10-25% herbaceous cover, <10% cover of rabbitbrush species and Wyoming big sage

B *Mid–open*: 11-20% cover Wyoming big sagebrush; 10-25% herbaceous cover

C *Late–closed*: 20-40% cover of Wyoming big sage; <15% native herbaceous cover

D *Late2-open*: 0-10% pinyon or juniper <5m tall, 20-30% cover of Wyoming big sage; <10% native herbaceous cover

E *Late2-closed*: 11-60% pinyon or juniper <10m tall, 10% cover of Wyoming big sage; <10% native herbaceous cover

U *DPL*: Depleted; 10-40% Wyoming big sage <1.0m; herbaceous cover <5%

U *DPL*: Depleted; 10-40% Wyoming big sage <1.0m; herbaceous cover <5%

U *TrEnc*: Tree-Encroached; 10-40% cover of pinyon or juniper

### 7. Montane-Subalpine Riparian

## Appendix B: Ecological System Descriptions

A *Early*; 0-50% cover of riparian shrubs (willow, cottonwood, buffaloberry); <3m

B na

C *Mid1-open*; 31-100% cover of riparian trees <10m

D na

E *Late1-closed*; 31-100% cover of riparian trees 10-24m

U *SFEnc*: Shrub-Forb-Encroached; 0-30% cover of shrubs and trees >3m

U *EXF*: Exotic-Forbs; 20-100% cover of exotic forbs (knapweed, tall whitetop, purple loosetrife), salt cedar, or Russian olive

U *DES*: Desertification; Entrenched river/creek with 10-50% cover of upland shrubs (e.g., big sage)

### 8. Stable Aspen

A *Early*; 0-100% cover of aspen <5m tall

B *Mid1-closed*; 40-99% cover of aspen <5-10m

C Na

D *Late1-open*; 0-39% cover of aspen 10-25 m; 0-25% conifer cover 10-25 m

E *Late1-closed*; 40-99% cover of aspen 10-25m; few conifer in mid-story

U *DPL-Open*: 10-50% cover of older aspen 10-25m; no or little aspen regeneration; few conifer in mid-story

U *NAS-all*: No Aspen; dead clone of aspen; 5-50% cover of mountain sagebrush/mountain shrub; <50% herbaceous cover

U *Uncharacteristic*: includes several uncharacteristic NAS classes as observed in montane sagebrush steppe biophysical setting

### 9. Wet Meadow

A *Early-open*: 0-60% herbaceous cover

B *Mid--closed*: 61-100% herbaceous cover

C Na

D *Late-open*: 0-10% tree-shrub cover; 60-80% herbaceous cover

E Na

U *SFEnc-All*: Shrub-Forb-Encroached; 0-10% cover of less palatable grasses and forbs; Bare ground cover 10-30% cover

U *EXF*: Exotic-Forbs; 20-100% exotic forbs (knapweed, tall whitetop, purple loosetrife)

U *DES*: Desertification; Entrenched water table with 10-50% cover of sagebrush

U *AG*: Annual-Grass; 10-30% cover of cheatgrass; < 10% shrub cover

U *TrEnc*: Tree-Encroached; 31-80% conifer cover 10-25m; <5% shrub cover; <5% herbaceous cover

### **C. References**

- Abatzoglou, J. T. and C. A. Kolden. 2011. Climate Change in Western US Deserts: Potential for Increased Wildfire and Invasive Annual Grasses. *Rangeland Ecology & Management* 64(5): 471-478.
- Ackerly, D. D., S. R. Loarie, W. K. Cornwell, S. B. Weiss, H. Hamilton, R. Branciforte and N. J. B. Kraft. 2010. The geography of climate change: implications for conservation biogeography. *Diversity and Distributions* 16(3): 476-487.
- Aldrich, J. M. 1921. *Coloradia Pandora* Blake: A Moth of Which the Caterpillar is Used as Food by the Mono Lake Indians. *Entomological Society of America*. 14(1):36-38
- Allen, Elizabeth, Robert Nowak. 2008. Effect of Pinyon-Juniper Tree Cover on the Soil Seed Bank. *Rangeland Ecology & Management* 61 (1): 63-73.
- Anderson, Kat M. 1993b. Indian Fire-based Management in the Sequoia-Mixed Conifer Forests of the Central and Southern Sierra Nevada. Final Report to the Yosemite Research Center, Yosemite National Park. U.S. Department of the Interior, National Park Service, Western Region. Cooperative Agreement Order No. 8027-002.
- Anderson, Kat M. 2006. *Tending the Wild, Native American Knowledge and the Management of California's Natural Resources*. University of California Press, Ltd.
- Andrews, Raymond. 2012. Personal communications regarding Mono Lake Kuzedikaa Federal recognition status, and ethnographic information regarding inhabitants of the Bridgeport Valley.
- Andrews, Raymond. 2013. Personal communications regarding Mono Lake Kuzedikaa ethnographic names and tribal affinity to the Bodie Hills.
- Aplet, G. H. and B. Wilmer. 2005. The wildland fire challenge: protecting communities and restoring ecosystems. *The George Wright Forum* 22(4): 32-44.
- Arkush, Brooke S. 1995. *The Archaeology of CA-MNO-2122: A Study of Pre-Contact and Post-contact Lifeways Among the Mono Basin Paiute*. University of California Publications Anthropological Records; Vol. 31. University of California Riverside, California.
- Bartos, D.L., and R. B. Campbell. 1998. Decline of quaking aspen in the interior west—examples from Utah. *Rangelands* 20:17–25.
- Bates, J. D., R. F. Miller and K. W. Davies. 2006. Restoration of quaking aspen woodlands invaded by western juniper. *Rangeland Ecology & Management* 59(1): 88-97.
- Bates, Jon, Richard Miller, Tony Svejcar. 2005. Long-term Successional Trends Following Western Juniper Cutting. *Rangeland Ecology & Management*, 58 (5): 533–541.

## Appendix B: Ecological System Descriptions

- Bates, Jon, Tony Svejcar. 2009. Herbaceous Succession After Burning of Cut Western Juniper Trees. *Western North American Naturalist*, 69 (1): 9-25.
- Bates, Jonathan, Richard Miller, Kirk Davies. 2006. Restoration of Quaking Aspen Woodlands Invaded by Western Juniper. *Rangeland Ecology & Management*, 59: 88-97
- Bauer, J. M. and P. J. Weisberg. 2009. Fire history of a central Nevada pinyon-juniper woodland. *Canadian Journal of Forest Research-Revue Canadienne De Recherche Forestiere* 39(8): 1589-1599.
- Baughman, Carson, Tara A. Forbis, Louis Provencher. 2010. Response of Two Sagebrush Sites to Low-Disturbance, Mechanical Removal of Pinyon and Juniper. *Invasive Plant Science and Management* 3, April – June: 122 – 129.
- Benedict, N.G., S.J. Oyler-McCance, S.E. Taylor, C.E. Braun & T.W. Quinn. 2003. Evaluation of the eastern (*Centrocercus urophasianus urophasianus*) and western (*Centrocercus urophasianus phaios*) subspecies of Sage-grouse using mitochondrial control-region sequence data. *Conservation Genetics* 4: 301-310.
- Bestelmeyer, B., J. Herrick, J. Brown, D. Trujillo and K. Havstad. 2004. Land management in the American Southwest: A state-and-transition approach to ecosystem complexity." *Environmental Management* 34(1): 38-51.
- Billeb, E.W., 1968. *Mining Camp Days*. Howell-North Books, Berkeley, CA 229 pgs.
- Bi-State Technical Advisory Team. 2012a. Bi-State Action Plan. Past, Present and Future Actions for Conservation of the Greater Sage-grouse Bi-State Distinct Population Segment.
- Bi-State Technical Advisory Team. 2012b. Bi-State Sage-Grouse Preliminary Priority Habitat Map. White paper. 3pgs.
- Board, David I., Jeanne Chambers, Joan Wright. 2011. Effects of Spring Prescribed Fire in Expanding Pinyon-Juniper Woodlands on Seedling Establishment of Sagebrush Species. *Natural Resources and Environmental Issues: Vol 16, Article 20*.
- BLM- Bishop Field Office. Bodie PMU (Population Management Unit). 2003. Draft PMU sections for Nevada Sage-grouse Conservation Plan, Bi-State Planning Area.
- Bradley, B. A. 2009. Regional analysis of the impacts of climate change on cheatgrass invasion shows potential risk and opportunity. *Global Change Biology* 15(1): 196-208.
- Brooks, M. L., C. M. D'Antonio, D. M. Richardson, J. B. Grace, J. E. Keeley, J. M. DiTomaso, R. J. Hobbs, M. Pellant and D. Pyke. 2004. Effects of invasive alien plants on fire regimes. *Bioscience* 54(7): 677-688.

## Appendix B: Ecological System Descriptions

- Brooks, Matthew L., Richard A. Minnich. 2006. Southeastern Deserts Bioregion. in N.G Siguahara et al. (ed.), *Fire in California's Ecosystems*. Pages 391-414. University of California Press.
- Brown, James K. *Fire Effects and Application of Prescribed Fire in Aspen in Rangeland Fire Effects*, A Symposium edited by Ken Sanders, Jack Durham. 1985. USDI-Bureau of Land Management, Boise Idaho.
- Burcham, L.T. 1982. *California Range Land*. Center for Archaeological Research at Davis Publication No.7. University of California Davis.
- Bureau of Land Management (BLM), *Permanent Wilderness Inventory*. Files. 1976-2012. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management (BLM), *Stream Inventory*. Files. 1978-79. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management (BLM). *Intensive Stream Monitoring*. Files. 1988-1994. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management (BLM). *Spring Inventory*. Files. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management (BLM). *Stream Inventory*. Files. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management (BLM). *Fire Patrol Log*. 2012. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management (BLM). *Manual 6310, Conducting Wilderness Characteristics Inventory on BLM Lands*, Release 6-129, March 15, 2012. US Department of the Interior, Bureau of Land Management Washington, D.C.
- Bureau of Land Management (BLM). *Manual 6320, Considering Lands with Wilderness Characteristics in the BLM Land Use Planning Process*, Release 6-130, March 15, 2012. US Department of the Interior, Bureau of Land Management Washington, D.C.
- Bureau of Land Management (BLM). *Manual 6330, Management of Wilderness Study Areas*, Release 9-395, July 13, 2012. US Department of the Interior, Bureau of Land Management Washington, D.C.
- Bureau of Land Management (BLM). *Manual 6400 – Wild and Scenic Rivers – Policy and Program Direction for Identification, Evaluation, Planning, and Management*, Release 6-136, July 13, 2012. US Department of the Interior, Bureau of Land Management Washington, D.C.

## Appendix B: Ecological System Descriptions

- Bureau of Land Management (BLM). Process for assessing proper functioning condition : Riparian area management. Technical Reference 1737-9. 1998. U.S. Department of the Interior, Bureau of Land Management, Denver, CO.
- Bureau of Land Management (BLM). Riparian area management: a user guide to assessing proper functioning condition and the supporting science for lotic areas. Technical Reference 1737-15. 1998. U.S. Department of the Interior, Bureau of Land Management, Denver, CO.
- Bureau of Land Management (BLM). Results of water quality monitoring in the Bodie Planning Area, memorandum. Files. 1986a. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management, (BLM).. Spring Inventory. Files. 1986b. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management, (BLM). Assessment of Functional Condition on Streams. Files. 199. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Bureau of Land Management, (BLM). Bodie Hills sage-grouse population and habitat characteristics: Preliminary comparison with management guidelines. Report to the Bi-State Sage-grouse Local Area Conservation Planning Group. 2003. US Department of the Interior, Bureau of Land Management Bishop Field office.
- Burwell, T. 1998. Successional patterns of the lower montane treeline, Eastern California. *Madrono* 45(1): 12-16.
- California Department of Fish and Game (CDFG). 2012. Excel spreadsheet of lek count data for 2012.
- California Department of Fish and Game (CDFG). 1998. An Assessment of Mule and Black-tailed Deer Habitats and Populations in California.
- California Department of Fish and Game (CDFG). 2011. Public Notice for Consideration of the Petition to list the American Pika (*Ochotona princeps*) as threatened.
- California Environmental Protection Agency, Air Resources Board (2009). California Regional Haze Plan: 486.
- California Invasive Plant Council (Cal-IPC). 2012. Report created using calweedmapper.org.
- CalPIF (California Partners in Flight). 2002. The draft coniferous forest bird conservation plan: a strategy for protecting and managing coniferous forest habitats and associated birds in California. (J. Robinson and J. Alexander, lead authors.) Point Reyes Bird Observatory, Stinson Beach, CA. Available online @ <http://www.prbo.org/calpif/pdfs/plans.html>.

## Appendix B: Ecological System Descriptions

- Casazza, M. L., P. S. Coates, and C. T. Overton. 2011. Linking habitat selection and brood success in Greater Sage-Grouse. Pp. 151–167 in B. K. Sandercock, K. Martin, and G. Segelbacher (editors). Ecology, conservation, and management of grouse. Studies in Avian Biology (no. 39), University of California Press, Berkeley, CA.
- Casazza, M.L., Overton, C.T., Farinha, M.A., Torregrosa, Alicia, Fleskes, J.P., Miller, M.R., Sedinger, J.S., and Kolada, Eric. 2009, Ecology of greater sage-grouse in the Bi-State Planning Area Final Report, September 2007: U.S. Geological Survey Open-File Report 2009-1113, 50 p.
- Centennial/Dressler Ranch website: [http://www.rangelandtrust.org/conservation-centennial\\_dressler\\_ranch.php](http://www.rangelandtrust.org/conservation-centennial_dressler_ranch.php) (accessed on 10/01/12)
- Chambers, J. C. 2004. Fire related restoration issues in woodland and rangeland ecosystems. In L. Taylor, J. Zelnik, S. Cadwallader, and B. Hughes (compiler). Mixed Fire Regimes Conference. 17-19 November, Spokane, WA.
- Chambers, J. C. 2012. The Importance of Resilience and Resistance to the Restoration of Sagebrush Rangelands. SageSTEP News, 18:4–6.
- Chambers, Jeanne C., Bruce A. Roundy, Robert R. Blank, Susan S. Meyer, A. Whittaker, 2007. What Makes Great Basin Sagebrush Ecosystems Invasible By *Bromus Tectorum*? Ecological Monographs 77(1): 177-145.
- Connelly, J. W., S. T. Knick, M. A. Schroeder, and S. J. Stiver. 2004. Conservation Assessment of Greater Sage-grouse and Sagebrush Habitats. Western Association of Fish and Wildlife Agencies. Unpublished Report. Cheyenne, Wyoming.
- Connelly, J.W., M.A. Schroeder, A. R. Sands, and C.E. Braun. 2000. Guidelines to manage sage grouse populations and their habitats. Wildlife Society Bulletin 2000, 28 (4): 967-985
- Connolly, J. W., M. A. Schroeder, A. R. Sands and C. E. Brown (2000). Guidelines to manage sage grouse populations and their habitats. Wildlife Society Bulletin 28(4): 967-985.
- Cook, John G., Terry J. Hershey and Larry L. Irwin. Vegetative Response to Burning on Wyoming Mountain-Shrub Big Game Ranges. Journal of Range Management , Vol. 47, No. 4 (Jul., 1994), pp. 296-302
- Crawford, J.A., R.A. Olson, N.E. West, J.C. Mosley, M.A. Schroeder, T.D. Whitson, R.F. Miller, M.A. Gregg, and C.S. Boyd. 2004. Synthesis paper: Ecology and management of sage-grouse and sage-grouse habitat. Journal of Range Management 57(1):2-19
- Dahlgren, D.K., R. Chi and T.A. Messmer. 2006. Greater Sage-Grouse Response to Sagebrush Management in Utah. Wildlife Society Bulletin 34:975-985.
- D'Antonio, C. M. and P. M. Vitousek. 1992. Biological invasions by exotic grasses, the grass/fire cycle, and global change. Annual Review of Ecology and Systematics 23: 63-87.

## Appendix B: Ecological System Descriptions

- 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. *Biological Conservation* 144(11): 2573-2584.
- Davies, K. W., J. D. Bates and A. M. Nafus. 2012. Mowing Wyoming Big Sagebrush Communities With Degraded Herbaceous Understories: Has a Threshold Been Crossed? *Rangeland Ecology & Management* 65(5): 498-505.
- Davies, K. W., J. D. Bates and A. M. Nafus. 2012. Vegetation Response to Mowing Dense Mountain Big Sagebrush Stands. *Rangeland Ecology & Management* 65(3): 268-276.
- Davies, Kirk W., Roger L. Sheley, Jonathan D. Bates. 2008. Does fall prescribed burning *Artemisia tridentata* steppe promote invasion or resistance to invasion after a recovery period?, *Journal of Arid Environments*, Volume 72, Issue 6, June 2008, Pages 1076-1085.
- Davis, E.L. 1965 An Ethnography of the Kuzedikaa Paiute of Mono Lake, Mono County, California. *Miscellaneous Paper 8, University of Utah Anthropological Papers* 2:53-75.
- Davis, M. A., Grime, J. P. and Thompson, K. 2000. Fluctuating resources in plant communities: a general theory of invasibility. *Journal of Ecology*, 88: 528–534. doi: 10.1046/j.1365-2745.2000.00473.x
- Davis, O. K. 1999. Pollen analysis of a late-glacial and Holocene sediment core from Mono Lake, Mono County, California. *Quaternary Research* 52(2): 243-249.
- Deal, Krista. 2006. Fire Effects on Flaked Stone, Ground Stone, and other Stone Artifacts; Wildland fire in ecosystems: effects of fire on cultural resources and archaeology. Gen. Tech. Rep. RMRS-GTR-42-vol. 3. Pp. 93-111. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 224 p
- Eldredge, I.F. 1923. Caterpillars a la Paiute. *American Forestry* 29(354): 330-332
- Ellsworth, L.M., and J.B. Kauffman. 2010. Native bunchgrass response to prescribed fire in ungrazed mountain big sagebrush ecosystems. *Fire Ecology* 6(3): 86-96. Doi 10.4996/fireecology.0603086
- Erickson, Heather, E., Rachel White. 2008. Soils Under Fire: Soils Research and the Joint Fire Science Program. USDA, Forest Service, Pacific Northwest Research Station, Portland Oregon.
- Finch, D. M., Ed. 2012. Climate change in grasslands, shrublands, and deserts of the interior American west: A review and needs assessment. Rocky Mountain Research Station, Fort Collins, CO, US Forest Service.
- Finney, M. A., R. C. Selia, C. W. McHugh, A. A. Ager, B. Bahro and J. K. Agee. 2007. Simulation of long-term landscape-level fuel treatment effects on large wildfires. *International Journal of Wildland Fire* 16(6): 712-727.

## Appendix B: Ecological System Descriptions

- Fletcher, Thomas C. 1987 *Paiute, Prospector, Pioneer: A History of the Bodie-Mono Lake Area in the Nineteenth Century*. Lee Vining, Calif.: Artemisia Press
- Forbis, T. A., L. Provencher, L. Turner, G. Medlyn, J. Thompson and G. Jones. 2007. A method for landscape-scale vegetation assessment: Application to great basin rangeland ecosystems. *Rangeland Ecology & Management* 60(3): 209-217.
- Fowler, C. 1996. Historical Perspectives on Timbisha-Shoshone land management practices, Death Valley, California. In *Case Studies in Environmental Archaeology*, ed. E.J. Reitz, L.A. Newsom, and S.J. Scudder, 87-101. New York: Plenum Press
- Fowler, Catherine S. and Sven Liljebblad. 1986. Northern Paiute . *Handbook of North American Indians, Great Basin*, Vol. 11, edited by Warren L. d' Azevedo, pp. 435-465. Smithsonian Institution. Washington, DC.
- Franklin, A. B., B. R. Noon and T. L. George. 2002. What is habitat fragmentation? *Studies in Avian Biology* 25: 20-29.
- Garton, E. O., J. W. Connelly, J.S. Horne, C. A. Hagen, A. Moser, and M. A. Schroeder. 2011. Greater Sage-Grouse Population Dynamics and Probability of Persistence. Pp. 293-381 in S. T. Knick and J. W. Connelly (editors). *Greater Sage-Grouse: Ecology and Conservation of a Landscape Species and its Habitats*. *Studies in Avian Biology* (vol. 38), University of California Press, Berkeley, CA.
- GBBO (Great Basin Bird Observatory). 2010. Nevada Comprehensive Bird Conservation Plan, ver. 1.0. Great Basin Bird Observatory, Reno, NV. Available online at [http://www.gbbo.org/bird\\_conservation\\_plan.html](http://www.gbbo.org/bird_conservation_plan.html)
- Gordon, Nancy D., McMahon, Thomas A., Finlayson, Brian L., Gippel, Christopher J., and Nathan, Rory J. 2004. *Stream Hydrology (Second Edition)*. John Wiley & Sons Ltd, West Sussex, England. Pg. 49.
- Great Basin Unified Air Pollution Control District. 2010. Reasonable further progress report for the Mono Basin PM-10 State Implementation Plan: 17.
- Great Basin Unified Air Pollution Control District. 1995. Mono Basin Planning Area PM-10 State Implementation Plan -Final-: 263.
- Green, Jeffrey S. and Jerran T. Flinders 1980. *Brachylagus idahoensis*. *Mammalian Species* No. 125 pp. 1-4. April 1980, Available online at <http://www.science.smith.edu/departments/Biology/VHAYSSSEN/msi/pdf/i0076-3519-125-01-0001.pdf>
- Halford, F.K. 2008. The Coleville and Bodie Hills NRCS Soil Inventory, Mono County, California: A Revaluation of the Bodie Hills Obsidian Source (CA-MNO-4527) and its Spatial and Chronological Use. Report prepared by Bureau of Land Management, Bishop Field Office. BLM Report no. CA-170-07-08.

## Appendix B: Ecological System Descriptions

- Hall, M. 1980. Surface Archaeology of the Bodie Hills Geothermal Area, Mono County, California. United States Department of the Interior, Bureau of Land Management, Bakersfield District.
- Heath, S.K. and G. Ballard. 2003. Patterns of breeding songbird diversity and occurrence in riparian habitats of the eastern Sierra Nevada. in California Riparian Systems: Processes and Floodplain Management, Ecology, and Restoration (2003), P. M. Faber (Ed.), Riparian Habitat and Floodplains Conference Proceedings, Riparian Habitat Joint Venture, Sacramento, CA.
- Heath, S.K., C. McCreedy and G. Ballard. 2001. Eastern Sierra Riparian Songbird Conservation 2001 Progress Report. Point Reyes Bird Observatory, Contribution No.1010. Stinson Beach, CA.
- Hemstrom, M. A., M. J. Wisdom, W. J. Hann, M. M. Rowland, B. C. Wales and R. A. Gravenmier. 2002. Sagebrush-steppe vegetation dynamics and restoration potential in the interior Columbia Basin, USA. *Conservation Biology* 16(5): 1243-1255.
- Hessl, Amy, Susan Spackman. 1995. Effects of fire on threatened and endangered plants: An annotated bibliography. Volume 2 of Information and Technology Report. National Biological Service, U.S. Department of the Interior, Washington, D.C.
- Hobbs, R. J. 1998. Managing Ecological Systems and Processes. Ecological scale: Theory and applications. D. L. Peterson and T. Parker. New York, Columbia University Press: 485-498.
- Hunewill ranch: <http://www.hunewillranch.com/2012%20NewsletterEmail.pdf> (accessed on 10/01/12)
- Intergovernmental Panel on Climate Change (IPCC). 2007. 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. R. K. Pachauri and A. Reisinger, Eds. Geneva, Switzerland, IPCC: 73.
- Invasive Alien Plants on Fire Regimes. *BioScience*. 54(7): 677-688
- Jackson, D., and M.L. Spence. 1970. The Expeditions of John Charles Fremont. Vol.1: Travels from 1838 to 1844. Chicago: University of Illinois Press
- Jennings, S. A. 1995. Late quaternary changes in pinyon & juniper distributions in the White Mountain-region of California & Nevada. *Physical Geography* 16(4): 276-288.
- Jennings, S. A. and D. L. Elliottfisk. 1993. Pack-rat midden evidence of late quaternary vegetation change in the White Mountains, California-Nevada. *Quaternary Research* 39(2): 214-221.

## Appendix B: Ecological System Descriptions

- Johnson, D. D. and R. F. Miller. 2008. Intermountain presettlement juniper: Distribution, abundance, and influence on postsettlement expansion. *Rangeland Ecology & Management* 61(1): 82-92.
- Keane, R. E., J. K. Agee, P. Fule, J. E. Keeley, C. Key, S. G. Kitchen, R. Miller and L. A. Schulte . 2008. Ecological effects of large fires on US landscapes: benefit or catastrophe? *International Journal of Wildland Fire* 17(6): 696-712.
- Keane, R. E., P. F. Hessburg, P. B. Landres and F. J. Swanson. 2009. The use of historical range and variability (HRV) in landscape management. *Forest Ecology and Management* 258(7): 1025-1037.
- King, Jerome, M.A. 2008 Archaeological Survey of Habitat Restoration Units in the Bodie Hills, Mono County, California BLM Project No. CA-170-08-37 on File at Bishop BLM Field Office. Far Western Anthropological Research Group, Inc. Davis, California
- Kobori, Larry S., Busby, Colin I., Bard, James C., Findlay, John M., Liversidge, John R. 1980 Class II Cultural Resources Inventory of the Bureau of Land Management's Bodie and Colville Planning Units, California. Contract No. YA-512-CT9-188. Bureau of Land Management Cultural Resources Publications, Anthropology-History. Bakersfield District, California.
- Kolada, E. J., J. S. Sedinger and M. L. Casazza. 2009b. Nest Site Selection by Greater Sage-Grouse in Mono County, California. *Journal of Wildlife Management* 73 (8): 1333-1340.
- Kolada, E. J., M. L. Casazza and J. S. Sedinger. 2009a. Ecological Factors Influencing Nest Survival of Greater Sage-Grouse in Mono County, California. *Journal of Wildlife Management* 73 (8): 1341-1347.
- Krasnow, K. D., A. S. Halford, S. L. Stephens. 2012. Aspen restoration in the eastern Sierra Nevada: effectiveness of prescribed fire and conifer removal. *Fire Ecology* 8(3): 104-118. doi: 10.4996/fireecology.0803104.
- Landres, P. B., P. Morgan and F. J. Swanson. 1999. Overview of the use of natural variability concepts in managing ecological systems. *Ecological Applications* 9(4): 1179-1188.
- Larrucea, E. S., and P. F. Brussard. 2008a. Habitat Selection and Current Distribution of the Pygmy Rabbit in Nevada and California, USA. *Journal of Mammalogy* 89:691-699.
- Larrucea, E. S., and P. F. Brussard. 2008b. Shift in location of pygmy rabbit (*Brachylagus idahoensis*) habitat in response to changing environments. *Journal of Arid Environments* 72:1636-1643.
- Lenihan, J. M., D. Bachelet, R. P. Neilson and R. Drapek. 2008. Response of vegetation distribution, ecosystem productivity, and fire to climate change scenarios for California. *Climatic Change* 87: S215-S230.

## Appendix B: Ecological System Descriptions

- Liljeblad, Sven and Catherine S. Fowler. 1986. Owens Valley Paiute. In *Handbook of North American Indians, Great Basin*, Vol. 11, edited by Warren L. d'Azevedo, pp. 412-434. Smithsonian Institution. Washington, DC.
- Littell, J., D. McKenzie, D. Peterson and A. Westerling. 2009. Climate and wildfire area burned in western U. S. ecoprovinces, 1916-2003. *Ecological applications* 19(4): 1003-1021.
- Magee, P. A., J. Brooks, N. Hirsch and T. L. Hicks. 2011. Response of Obligate Birds to Mechanical Manipulations in a Sagebrush Ecosystem Near Gunnison, Colorado. *Shrublands: Wildlands and Wildlife Habitats* (16) 1: 33-43.
- Mallek, C. and H. Safford. 2011. A summary of current trends and probable future trends in climate and climate-driven processes in the Inyo National Forest and adjacent lands., USDA Forest Service, Pacific Southwest Regional Ecology Program: 21.
- Matchett, J. R., M. Brooks, A. Halford, D. Johnson and H. Smith. 2010. Evaluating the effects of pinyon thinning treatments at a wildland urban interface. Report prepared for The Joint Fire Science Program. U. S. G. Survey. Reston, Virginia, USGS: 28.
- Matchett, J.R., M. Brooks, A. Halford, D. Johnson, and H. Smith. 2010. Evaluating the effects of pinyon thinning treatments at wildland urban interface: El Portal, CA., 28 pp.
- Melillo, J. M., A.D. McGuire, K.W. Kicklighter, B. Moore III, C.J. Vorosmarty, A.L. Schloss. 1993. Global Climate Change and Terrestrial Net Primary Production. *Nature* 363: 234-240.
- Millar, C. I. and R. D. Westfall. 2010. Distribution and Climatic Relationships of the American Pika (*Ochotona princeps*) in the Sierra Nevada and Western Great Basin, U.S. A; Periglacial Landforms as Refugia in Warming Climates. *Arctic, Antarctic and Alpine Research* (42) 1:76-88.
- Millar, C. I. and W. B. Woolfenden. 1999. The role of climate change in interpreting historical variability. *Ecological Applications* 9(4): 1207-1216.
- Millar, C. I., N. L. Stephenson and S. L. Stephens. 2007. Climate change and forests of the future: Managing in the face of uncertainty. *Ecological Applications* 17(8): 2145-2151.
- Miller, J. D., H. D. Safford, M. Crimmins and A. E. Thode. 2009. Quantitative Evidence for Increasing Forest Fire Severity in the Sierra Nevada and Southern Cascade Mountains, California and Nevada, USA. *Ecosystems* 12(1): 16-32.
- Miller, R. F. and P. E. Wigand. 1994. Holocene changes in semiarid pinyon-juniper woodlands. *Bioscience* 44(7): 465-474.

## Appendix B: Ecological System Descriptions

- Miller, R. F. and R. J. Tausch. 2001. The role of fire in juniper and pinyon woodlands: A descriptive analysis. Proceedings of the invasive species workshop: The role of fire in the control and spread of invasive species. Fire Conference 2000: The first national congress on fire ecology, prevention and management, Tall Timbers Research Station, Tallahassee, FL.
- Miller, R. F., R. J. Tausch, E. D. McArthur, D. D. Johnson and S. C. Sanderson. 2008. Age structure and expansion of pinon-juniper woodlands: a regional perspective in the Intermountain West., Rocky Mountain Research Station. RMRS-RP-69: 15.
- Miller, Richard F. and Lee E. Eddleman. 2000. Spatial and temporal changes of sage-grouse habitat in the sagebrush biome. Agricultural Experiment Station, Oregon State University Technical Bulletin No. 151.
- Miller, Richard, Jon Bates, Tony Svejcar, Pierson, Fred Pierson, Leo Eddleman. 2005. Biology, ecology, and management of western juniper. Technical Bulletin 152, Oregon State University, Agricultural Experimental Station. Corvallis.
- Miller, Richard, Robin Tausch, Durant McArthur, Dustin Johnson, Stewart Sanderson. 2008. Age structure and expansion of pinon-juniper woodlands: a regional perspective in the Intermountain West. Res. Pap. RMRS-RP-69. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 15 p..
- Miller, Richard, Tony Svejcar, Jeffery Rose. 2000. Impacts of western juniper on plant community composition and structure. Journal of Range Management, 53 (6): 574–585
- Mono Basin Watershed Assessment. March 2007. Mono County Community Development Department. Planning Division. Bridgeport, CA 93517.
- Mono County, CA .2009. Community Wildfire Protection Plan, Mono County, CA. Boulder, CO, Anchor Point Group.
- National Interagency Fuels, F. a. V. T. T. F. 2010. Interagency fire regime conditions class (FRCC) guidebook version 3.0: 126.
- National Register of Historic Places listings in Mono County, California  
<http://en.wikipedia.org/wiki/NationalRegisterofHistoricPlaceslistingsinMonoCountyCalifornia> – (accessed 09/28/12)  
<http://nrhp.focus.nps.gov/natreghome.do?searchtype=natreghome>,  
<http://www.nps.gov/history/nhl/designations/Lists/CA01.pdf>
- NatureServe. 2007. NatureServe Explorer: An online encyclopedia of life [web application]. Version 6.2. NatureServe, Arlington, Virginia. Available  
<http://www.natureserve.org/explorer>. (Accessed: January 2, 2008).
- Nevada Department of Wildlife (NDOW). 2004. Greater Sage-Grouse Conservation Plan for Nevada and Eastern California.  
<http://www.ndow.org/wild/conservation/sg/plan/index.shtm>

## Appendix B: Ecological System Descriptions

- Nichols, L. B. 2011. Unpublished Summary of Recent Work. Recent Extinctions and Declines of American Pika (*Ochotona princeps*) populations in the Bodie Hills of Eastern California.
- Noson, A. C., R. A. Schmitz and R. F. Miller. 2006. Influence of fire and Juniper encroachment on birds in high-elevation sagebrush steppe. *Western North American Naturalist* 66(3): 343-353.
- Nowak, C. L., R. S. Nowak, R. J. Tausch and P. E. Wigand. 1994. A 30000 year record of the vegetation dynamics at a semiarid locale in the great- basin. *Journal of Vegetation Science* 5(4): 579-590.
- Nowak, C. L., R. S. Nowak, R. J. Tausch and P. E. Wigand. 1994. Tree and shrub dynamics in the northwestern great- basin woodland and shrub steppe during the late-pleistocene and holocene. *American Journal of Botany* 81(3): 265-277.
- Oyler-McCance, S. J., S. E. Taylor and T. W. Quinn. 2005. A multilocus population genetic survey of the greater sage-grouse across their range. *Molecular Ecology* 2005, 14: 1293–1310.
- Paige, C., and S.A. Ritter. 1999. Birds in a sagebrush sea: managing sagebrush habitats for bird communities. Partners in Flight Western Working Group, Boise, ID. in the Bodie/Coleville region. Bishop Field Office files.
- Pan, L. L., S. H. Chen, D. Cayan, M. Y. Lin, Q. Hart, M. H. Zhang, Y. B. Liu and J. Z. Wang 2011. Influences of climate change on California and Nevada regions revealed by a high-resolution dynamical downscaling study. *Climate Dynamics* 37(9-10): 2005-2020.
- Petersen K. L. and L. B. Best. 1987. Effects of Prescribed Burning on Nongame Birds in a Sagebrush Community. *Wildlife Society Bulletin* (15): 317-329.
- Provencher, L., G. Low and S. Ablele. 2009. Bodie Hills Conservation Action Planning. Final Report to the Bureau of Land Management Bishop Field Office. Reno, NV, The Nature Conservancy: 369.
- Provencher, L., J. Campbell and J. Nachlinger. 2008. Implementation of mid-scale fire regime condition class mapping. *International Journal of Wildland Fire* 17(3): 390-406.
- Pyke, D. A. 2011. Restoring and rehabilitating sagebrush habitats. Greater sage-grouse: ecology and conservation of a landscape species and its habitats. S. T. Knick and J. W. Connelly. Berkely, CA, University of California Press. 38.
- Rau, B. M., R. Tausch, A. Reiner, D. W. Johnson, J. C. Chambers and R. R. Blank. 2012. Developing a model framework for predicting effects of woody expansion and fire on ecosystem carbon and nitrogen in a pinyon-juniper woodland. *Journal of Arid Environments* 76: 97-104.

## Appendix B: Ecological System Descriptions

- Rau, Benjamin M.; Chambers, Jeanne C.; Blank, Robert R.; Johnson, Dale W. 2008. Prescribed fire, soil, and plants: burn effects and interactions in the central Great Basin. *Rangeland Ecology and Management*. 61(2): 169-181..
- Reese, K. P. and J. W. Connelly. 2011. Harvest Management for Greater Sage-Grouse: A Changing Paradigm for Game Bird Management. Pp. 101-111 in S. T. Knick and J. W. Connelly (editors). *Greater Sage-Grouse: Ecology and Conservation of a Landscape Species and its Habitats*. Studies in Avian Biology (vol. 38), University of California Press, Berkeley, CA.
- Ritter, Dale F., Kochel, R. Craig., and Miller, Jerry R. 2002. *Process Geomorphology* (Fourth Edition). Waveland Press, Inc., Long Grove, IL. Pg 135.
- Rollins, M. G. 2009. Landfire: a nationally consistent vegetation, wildland fire, and fuel assessment. *International Journal of Wildland Fire* 18(3): 235-249.
- Romme, W. H., C. D. Allen, J. D. Balley, W. L. Baker, B. T. Bestelmeyer, P. M. Brown, K. S. Eisenhart, M. L. Floyd, D. W. Huffman, B. F. Jacobs, R. F. Miller, E. H. Muldavin, T. W. Swetnam, R. J. Tausch and P. J. Weisberg. 2009. Historical and Modern Disturbance Regimes, Stand Structures, and Landscape Dynamics in Pinon-Juniper Vegetation of the Western United States. *Rangeland Ecology & Management* 62(3): 203-222.
- Ross, M.R., S.C. Castle, N.N. Barger. 2012. Effects of fuels reductions on plant communities and soils in a Piñon-juniper woodland, *Journal of Arid Environments*, Volume 79, April 2012, Pages 84-92, ISSN 0140-1963, 10.1016/j.jaridenv.2011.11.019.
- Schlaepfer, D. R., W. K. Lauenroth and J. B. Bradford. 2012. Effects of ecohydrological variables on current and future ranges, local suitability patterns, and model accuracy in big sagebrush. *Ecography* 35(4): 374-384.
- Schmidt, K. M., J. P. Menakis, C. C. Hardy, W. J. Hann and D. L. Bunnell. 2002. Development of coarse-scale spatial data for wildland fire and fuel management. Fort Collins, CO, USDA Forest Service, Rocky Mountain Research Station. RMRS-GTR-87: 41.
- Schroeder, M.A. et al. 1999. Sage-grouse. *The Birds of North America*. No. 425. <http://bna.birds.cornell.edu/bna/species/425/articles/introduction>
- Smith, A. T. 1974. The Distribution and Dispersal of Pikas: Consequences of Insular Population Structure. *Ecology* (55) 5: 1112-1119.
- Smith, Stanley D., Travis E Huxman, Stephen F. Zitzer, Therese N. Charlet, David G. Housman, James S. Coleman, Lynn K. Fenstermaker, Jeffery R. Seemann, and Robert S. Nowak. 2000. Elevated CO<sub>2</sub> increase productivity and invasive species success in an arid ecosystem. *Nature* 408: 79-81.
- State of California. 2010. Fish and Game Commission Final Statement of Reasons for Regulatory Action. Amend Section 300. Title 14, California Code of Regulations (CCR) Re: Upland Game Birds.

## Appendix B: Ecological System Descriptions

- Stephens, S. L. 2005. Forest fire causes and extent on United States Forest Service lands. *International Journal of Wildland Fire* 14(3): 213-222.
- Steward, Julian H. 1933 *Ethnography of The Owens Valley Paiute*. University of California Publications in American Archaeology and Ethnology 33(3):233-350.
- Strand, E. K., L. A. Vierling, A. M. S. Smith and S. C. Bunting. 2008. Net changes in aboveground woody carbon stock in western juniper woodlands, 1946-1998. *Journal of Geophysical Research-Biogeosciences* 113(G1).
- Syphard, A. D., R. M. Scheller, B. C. Ward, W. D. Spencer and J. R. Strittholt. 2011. Simulating landscape-scale effects of fuels treatments in the Sierra Nevada, California, USA. *International Journal of Wildland Fire* 20(3): 364-383.
- Tausch, R. J., C. L. Nowak and S. A. Mensing. 2004. Climate change and associated vegetation dynamics during the Holocene: The paleoecological record. Great Basin riparian areas: Ecology, management, and restoration. J. C. Chambers and J. R. Miller. Washington, Island Press.
- U.S. Department of the Interior, Bureau of Land Management (BLM). 1990a. California Statewide Wilderness Study Report. Part 4, Volume 1.
- U.S. Department of the Interior, Bureau of Land Management (BLM). 1990b. Draft Bishop Resource Management Plan and Environmental Impact Statement. Bishop, California.
- United States Department of Agriculture, Natural Resources Conservation Service. 1996. In Press: Soil Inventory for the Benton-Owens Valley. University of California, Davis, CA.
- United States Department of the Interior, Bureau of Land Management, California 2012 State Protocol Agreement (SPA) between The California State Director of the Bureau of Land Management and The California State Historic Preservation Officer regarding the manner in which the Bureau of Land Management will meet its Responsibilities under the National Historic Preservation Act and the National Programmatic Agreement among the BLM, Advisory Council on Historic Preservation, and the National Conference of State Historic Preservation Officers.
- United States Department of the Interior, Bureau of Land Management, California 2008 Supplemental Procedures for Protection of Cultural Resources from Prescribed Fire Effects, a Cultural Resources Amendment to The State Protocol Agreement between California Bureau of Land Management and The California State Historic Preservation Officer and The Nevada State Historic Preservation Officer.
- United States Department of the Interior, Bureau of Land Management, California 2008 Supplemental Procedures for Sage Step Ecosystem Restoration, a Cultural Resources Amendment to The State Protocol Agreement among California Bureau of Land Management and The California State Historic Preservation Officer and The Nevada State Historic Preservation Officer.

## Appendix B: Ecological System Descriptions

- US Department of the Interior, Bureau of Land Management, 1995. H-8550-1 Interim management policy for lands under wilderness review.
- US Department of the Interior, Bureau of Land Management, Bishop Field Office. 1993. Bishop Resource Management Plan and Record of Decision. Bishop, CA: 63.
- US Department of the Interior, Bureau of Land Management, Bishop Field Office. 2004. Amendment to the Bishop Resource Management Plan to Incorporate Fire Management Plan Strategies and Objectives. Bishop, CA.
- US Department of the Interior, Bureau of Land Management, Bishop Field Office, 1993. Bishop Resource Management Plan and Record of Decision. Bishop, California.
- US Department of the Interior, Bureau of Land Management. 1979. Final Intensive Inventory of Public Lands Administered by BLM California Outside the California Desert Conservation Area.
- USDI, BLM, Bishop Field Office, (1991). Bishop Resource Management Plan and Environmental Impact Statement. Bishop Field Office.
- USDI, BLM, Bishop Field Office. 1993. Bishop Resource Management Plan and Record of Decision. Bishop, CA: 63.
- USDI, BLM, Bishop Field Office. 2004. Amendment to the Bishop Resource Management Plan to Incorporate Fire Management Plan Strategies and Objectives. Bishop, CA.
- USDI, Bureau of Land Management. 2012. Addition of the Bi-State DPS of the Greater Sage-Grouse to the California-BLM Sensitive Species List.
- USDI, US Fish and Wildlife Service. 2010a. February 9. 50 CFR Part 17 Endangered and Threatened Wildlife and Plants; 12-month Finding on a Petition to List the American Pika as Threatened or Endangered; Proposed Rule.
- USDI, US Fish and Wildlife Service. 2010b. March 23. 50 CFR Part 17 Endangered and Threatened Wildlife and Plants; 12-month Finding on a Petition to List the Greater Sage-Grouse (*Centrocercus urophasianus*) as Threatened or Endangered; Proposed Rule.
- USDI, US Fish and Wildlife Service. 2010c. September 30. 50 CFR Part 17 Endangered and Threatened Wildlife and Plants; 12-month Finding on a Petition to List the Pygmy Rabbit as Threatened or Endangered; Proposed Rule.
- Walker River Chronology. January 1996. Nevada Division of Environmental Protection. Bureau of Water Quality Planning. Carson City, Nevada 89706.
- Weisberg, P. J., E. Lingua and R. B. Pillai. 2007. Spatial patterns of pinyon-juniper woodland expansion in central Nevada. *Rangeland Ecology & Management* 60(2): 115-124.

## Appendix B: Ecological System Descriptions

- Welch, B. L. and C. Criddle. 2003. Countering misinformation concerning big sagebrush. U. S. F. S. Rocky Mountain Research Station. RMRS-RP-40.
- Westerling, A. L., B. P. Bryant, H. K. Preisler, T. P. Holmes, H. G. Hidalgo, T. Das and S. R. Shrestha. 2011. Climate change and growth scenarios for California wildfire. *Climatic Change* 109: 445-463.
- Westerling, A. L., H. G. Hidalgo, D. R. Cayan and T. W. Swetnam. 2006. Warming and earlier spring increase western US forest wildfire activity. *Science* 313(5789): 940-943.
- Westoby, M., B. Walker and I. Noymeir. 1989. Opportunistic management for rangelands not at equilibrium. *Journal of Range Management* 42(4): 266-274.
- Weston, Henry G. Jr. and David Johnston. 1980. Summer and fall censoring of bird populations
- Whisenant, S.G. 1990. Changing fire frequencies on Idaho's Snake River Plains: ecological and management implications. Pages 4-10 In: McArthur, E.D., E.M. Romney, E.M. Smith and P.T. Tueller, Compilers. *Proceedings: Symposium on Cheatgrass Invasion, Shrub Die-Off, and Other Aspects of Shrub Biology and Management*, Las Vegas, NV, April 5-7, 1989. U.S. Forest Service, Intermountain Research Station, GTR INT-276, Ogden, UT.
- Whittaker, Alison; Roundy, Bruce; Chambers, Jeanne; Meyer, Susan; Blank, Robert; Kitchen, Stanley; Korfmacher, John. 2008. The effect of herbaceous species removal, fire and cheatgrass (*Bromus tectorum*) on soil water availability in sagebrush steppe. In: Kitchen, Stanley G.; Pendleton, Rosemary L.; Monaco, Thomas A.; Vernon, Jason, comps. 2008. *Proceedings-Shrublands under fire: disturbance and recovery in a changing world; 2006 June 6-8; Cedar City, UT. Proc. RMRS-P-52*. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. p. 49-56.
- Willms, W., and A. McLean. 1978. Spring forage selection by tame mule deer on big sagebrush range, British Columbia. *Journal of Range Management* 31:192-199.
- Wilson, T. L., F. P. Howe and T. C. Edwards. 2011. Effects of Sagebrush Treatments on Multi-Scale Resource Selection by Pygmy Rabbits. *Journal of Wildlife Management* 75 (2):393-398.
- Winthrop, K. 2004 *Bare Bones Guide to Fire Effects on Cultural Resources For Cultural Resource Specialists*. Bureau of Land Management, Washington Office.
- Wisdom, M. J. and J. C. Chambers. 2009. A Landscape Approach for Ecologically Based Management of Great Basin Shrublands. *Restoration Ecology* 17(5): 740-749.
- Ziska, L.H., J.B. Reeves, B. Blank. 2005. The impact of recent increases in atmospheric CO<sub>2</sub> on biomass production and vegetative retention of Cheatgrass (*Bromus tectorum*): implications for fire disturbance. *Global Change Biology*, 11, 1325 – 1332