

Conservation Measures List

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
A maximum of 15 pack or saddle stock will be permitted to use the trails in the Wilderness for organized trail rides.	X	Alpine plants, Mixed conifer plants, Butterflies	Trails
Abandoned mine entrances may be closed for public safety after surveys to determine the locations of biological and heritage resources have been conducted.	X	Bats	Caves
Achieve or maintain rangeland in satisfactory condition.	X	All	N/A
Acquire available land within the NRA on a willing seller basis to protect natural resources, provide public recreation opportunities, and increase efficiency of land management.	X	All	Private buildings, Private land
Address user conflicts on Bristlecone Trail through a site-specific planning involving U.S. Fish and Wildlife Service, trail users, and interested groups.	X	Mixed conifer plants, Butterflies	CUAs, Trails
Adhere to goals, objectives, standards and guidelines detailed in the Plan Amendment which promote protective management of the species of concern and other ecological resources.	X	All	N/A
All gates on caves and mines will be designed to provide for unrestricted access for bats. Temporary (test) gates of PVC or other light, impermanent material will be constructed first to determine bats' reaction to gate design, prior to final design and construction of permanent gates. (Standard)	X	Bats	Caves
All new administrative facilities will use drought tolerant landscaping with an emphasis on native species.	X	All	Current and Future FS structures
All species listed as candidates for the Federal threatened or endangered species list, all species listed as protected rare, endangered, and critically endangered by the State of Nevada, and all Forest Service sensitive species will be considered "species of concern," and treated as if they were on the Forest Service sensitive species list. (Standard)	X	All	N/A
All wildfires will receive suppression response (confine, contain, or control) for protection of property and life.	X	N/A	Fire history
Allow access to all caves only from the beginning of March through the end of May; and from the beginning of September through the end of October. Seasonal restrictions will remain in place until bat roosting/hibernating inventories have been completed. Long-term seasonal restrictions will be determined based on survey results. Allow year-round access to Robbers' Roost Cave. (Standard)		Bats	Caves
Allow bicycle use only on established and/or designated roads and trails.	X	All	Paved and Unpaved roads, Trails
Allow collection of butterflies in Lee Canyon, Cold Creek, Willow Creek, and upper Kyle Canyon only through permits.		Butterflies	N/A
Allow collection of snags only between the months of October and the end of February.	X	Birds, Bats	Fuelwood
Allow day-use only in the meadow area in Lee Canyon. Use temporary closures to allow for resource restoration/rehabilitation.	X	Mixed conifer plants, Butterflies	Future EEA
Allow development of low standard facilities (signs, trails, restrooms) and parking areas within the 50-year floodplain if no other alternative is available. Design these facilities to provide for public safety and to maintain floodplain function.	X	All	Future Trailheads and Trails
Allow development of new bolted climbing routes under a voluntary route registration system. After development of more than 5 routes, new climbing areas in Wilderness and WSAs will require site survey before additional routes are developed.	X (partially)	Cliff plants, Bats	Climbing
Allow expansion of existing administrative facilities in Kyle and Lee Canyons only within existing developed site boundaries and where consistent with their historic nature. Emphasize use of current disturbed areas (Standard).		All	FS structures
Allow for road widening to provide adequate lane widths or paved shoulders for bicycle and/or pedestrian traffic on Kyle Canyon Highway, Lee Canyon Highway, and Deer Creek Highway only if and where impacts to species of concern can be avoided or mitigated. Prohibit development of additional travel lanes. (Standard)		N/A	Roads

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Allow for treatment of exotic pests within the Wilderness when scientific evaluations indicate a need.		Alpine plants, Mixed conifer plants, Butterflies	CUAs, Horses and Burros, Current and Future Trails
Allow limited expansion of ski area in Lee Canyon and enhancement of skiing opportunities and facilities within the scope of an approved master development plan and under the following constraints: 1 Expansion occurs within the existing sub-basin; 2 Does not impact any threatened, endangered, or sensitive species or species of concern, or its habitat; 3 Expansion is commensurate with development of additional parking in the lower Lee Canyon area, and shuttle services; 4 Expansion incorporates defensible space design and fire safe facilities; and 5 Where consistent with other standards and guidelines.	X	Alpine, Cliff, and Mixed conifer plants, Butterflies, Birds, Palmer's chipmunk	Ski area
Allow managed public access to Soda Straw Cave if public safety is ensured, management of the site is provided, and resource values of the cave can be protected.		Bats	Caves
Allow motorized vehicle use only on designated roads and trails, except for snowmobile use in approved areas when practical. Close washes to motorized use.	X	All	Roads, Motorized trails, Snowplay
Allow natural disturbances (fire, flood, avalanche) in the Wilderness to achieve desired condition of vegetation mosaic.	X	Mixed conifer plants, Butterflies	N/A
Allow surface flows to return to ecosystem use in developed canyons.		All	N/A
Appropriate management levels (population size) for wild horses and burros will be based upon limiting factor: available water and forage; area sensitivity; and animal condition. Initial levels will be based upon 7% of available water.		All	Horses and burros
As existing appropriate permits expire, require permittee to provide for education and interpretation of natural resources.	X	All	Campgrounds, Picnic areas, Ski area
As possible, develop additional snowplay area in Kyle Canyon, within the area road and parking capacity, or if needed parking/transportation capacity is provided.		Mixed conifer plants, Butterflies, Palmer's chipmunk	Snowplay
Assert claims to water that benefit recreation development, in-stream flow, wildlife, threatened, endangered, and sensitive species, species of concern, and wild horse and burro populations.	X	Riparian plants, Wildlife	N/A
Assert federal reserved water rights for watershed management, fire protection.	X	Riparian plants, Wildlife	N/A
Avoid cutting fuelwood, or cutting trees for salvage or sanitation within 0.5 mile of active or recently active flammulated owl or goshawk nest.	X	Birds	Fuelwood
Avoid or improve stream channel changes contiguous to recreation areas.		Riparian plant species, some Mixed conifer plants, Springsnails, Butterflies, Birds	Campgrounds, Picnic areas
Avoid support of floodplain development whenever a practical alternative exists, and allow development of low standard facilities (signs, trails, restrooms) and parking areas to avoid activity within the 50-year floodplain.	X	All	Future Campgrounds, Picnic areas, Roads, Trailheads, Trails
Block vehicle access to the riparian area from spur roads leading to the old Kyle Canyon Ski Area.		Mixed conifer and Riparian plants, Butterflies, Birds, Palmer's chipmunk	Unpaved roads
Browse utilization by wild horses on key winter ranges will not exceed 30%.	X	All	Horses and burros
Camp stoves are not restricted within the Wilderness, but campfires of any kind are prohibited.		Alpine plants, butterflies	CUAs
Clearings in pinyon-juniper will generally be limited to fewer than 40 acres.		Mixed conifer plants, Wildlife	WUI
Close all livestock allotment on the NRA to grazing under term or temporary grazing permits. Livestock will only be permitted to graze to achieve specific desired ecological conditions.	X	All	N/A
Close all undesignated spur roads in riparian areas, close other spur roads on a case by case basis, after site specific analysis.	X (partially)	All	Motorized trails, Non system trails, Unpaved roads

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Close and rehabilitate trail to and 'Gary Abbot Campground* site. Close area to overnight use.	X	Mixed conifer plants, Butterflies, Palmer's chipmunk	Trails
Close unnumbered spur roads off Macks Canyon Road (FS 073) that are located in riparian areas. Limit expansion of other spur roads through placement of vehicle barriers or berm.		Riparian plants, Butterflies	Motorized trails, Unpaved roads
Collection of threatened, endangered, and sensitive plant species requires a permit from the Regional Forester, except for traditional use by American Indians.	X	Plants	N/A
Conduct annual briefings with FS, FWS, and State line officers (management) to update them on the status of CA implementation and to provide an assessment of future funding needs.	X	All	N/A
Conduct pre-activity surveys for the species of concern prior to any actions that may affect them, and design projects to minimize or avoid adverse effects. Ensure that surveys consider unique habitat components of the species of concern (e.g., mud and puddles for butterflies).	X	All	All
Conduct research on the species of concern and ecological communities of the Spring Mountains NRA by prioritizing research needs and identifying funding sources.	X	All	N/A
Consider disposal through exchange of land occupied by Special Use Permits or summer homes if it would result in ecosystem, administrative, and recreational benefits and where exchange will further the purposes of the Spring Mountains National Recreation Area Act.		All	FS structures, Ski area
Consider, and as appropriate, develop additional protective designations in the NRA to protect the species of concern and other ecological resources.	X	All	N/A
Construct additional restrooms in the Kyle and Lee Canyon, and Deer Creek areas, including at Macks Canyon, Cathedral Rock, and appropriate high use trailheads or climbing areas.		N/A	Climbing, Current and Future Trailheads and Trails
Construct any new roads outside riparian areas, washes, and the 50-year floodplain, and at least 100 yards away from existing water sources, except at crossings perpendicular to the water course.		All	Future Roads
Construct fences in strategic locations to keep wild horses out of Kyle and Lee canyons.	X	All (except low elevation plants)	Horses and burros
Construction above or in the vicinity of a cave will be designed in a way to insure protection of the cave resources. Diversion of surface drainage into caves is prohibited.		Bats	Caves
Continue to permit existing outfitter/guide opportunities, such as trail rides and carriage/sleigh rides. Require trail maintenance and clean-up as part of permit.	X	All	Trails
Continue to provide firewood and meet ecosystem health goals and objectives by allowing dead and down, and green fuelwood collection.	X	All	Fuelwood
Continue to provide firewood by designating fuelwood collection areas.	X	All	Fuelwood
Continue to provide rock climbing opportunities while protecting resource values.		Cliff plants, bats	Climbing
Cooperate with Clark County, Nye County, the BLM, Nevada Highway Patrol, Las Vegas Metropolitan Police Department, and the Nevada Department of Transportation on management of roads and traffic.	X	Low elevation and Mixed conifer plants, Wildlife (except springsnails)	Roads
Cooperate with federal, state, local agencies, and permittees to provide radio message or electronic information signs on lower Kyle Canyon Highway and lower Lee Canyon Highway to alert road users to highway conditions and parking restrictions in the upper canyons.		All	Roads
Cooperate with NDOW to reduce elk population when habitat capability is exceeded by 15%. If possible, reduce population size to 20% below.		All (except low elevation plants)	N/A

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Coordinate with county health department in management of disease transmittal by animals to humans (e.g., hanta virus, plague) to ensure that control methods do not have adverse effects on populations of Palmer's chipmunk or other species of concern.	X	Palmer's chipmunk	N/A
Coordinate with Nevada Department of Transportation and FS road crews to ensure that road maintenance activities (e.g., shoulder work, road salting) do not adversely affect the species of concern (in particular, Morand's checkerspot, acastus checkerspot, and rough angelica in Kyle Canyon, and acastus checkerspot along Deer Creek Highway).	X (partially)	All	Roads
Design and install information and educational signs in accordance with Appendix A of the Interagency Agreement # 14-48-0001-94605 between the USFS and USFWS for the Spring Mountains NRA. Signs will be located outside the Wilderness Area, at trailheads or near sensitive habitats, and will provide information on low impact recreation and ecological resource protection. Priorities include the following: Fused PVC color signs: Cathedral Rock, Mary Jane Falls Trailhead, Deer Creek Picnic Area, Bristlecone Trailhead, Robbers Roost Trailhead, Fletcher Canyon Trailhead, Trail Canyon Trailhead, North Loop Trailhead, Bonanza Trailhead, Harris Spring Trailhead, Carpenter Canyon Smaller signs: Mummy Springs, Stanley B Spring, CC Spring, Trough Spring, Cave Spring, Macks Canyon Spring.	X	All	Campgrounds, CUAs, Paved and Unpaved roads, Trailheads, Trails
Design and install signs specifically addressing Palmer's chipmunk conservation at all developed recreation sites located within its habitat.	X	Palmer's chipmunk	Campgrounds, Picnic areas
Design new roads and motorized trails to maintain a minimum 0.5 mile distance from active or recently active desert tortoise burrows.		Reptiles	Future Roads, Trails
Designate Macks Canyon Road as a snowmobile trail and close road seasonally to automobiles.	X (partially)	All	Unpaved roads, Trails
Designate specific camp and picnic sites in upper Macks Canyon and at the Archery Range (at Deer Creek) by using parking barriers, fencing, signing, and education. (a) Sign closure order allowing FS to prohibit camping within specific distance of water sources, based on species and habitat protection needs, (b) control dispersed, primitive camping in the NRA by enforcing the closure order.		All	CUAs, Campgrounds, Picnic areas
Designate specific primitive camp/picnic sites and parking areas in upper Macks Canyon by using parking barriers and signage.		All	CUAs
Develop a series of environmental education programs for presentation to schools, user groups, town board meetings, and other community events. Individual programs will highlight biodiversity, sensitive ecological resources, endemic butterflies and plants.	X (partially)	All	N/A
Develop additional snow play area in Kyle Canyon that can potentially be operated and managed by a concessionaire.		Mixed conifer plants, Butterflies, Palmer's chipmunk	Snowplay
Develop an information package identifying and promoting research opportunities in the Spring Mountains NRA and Carpenter Canyon RNA. Update and distribute to local researchers, universities, and other research entities.		All	N/A
Develop and begin implementing a comprehensive restoration plan for the Willow Creek area. This plan will include relocation of roads and campgrounds out of the riparian area, removal of unneeded spur roads, a walk-in day-use plan, protection and habitat enhancement for springsnails, butterflies (including mud), and phainopepla. The plan will emphasize opportunities for public participation.	X (partially)	Mixed conifer plants, Springsnails, Butterflies, Birds	CUAs, Roads, Trails
Develop and distribute a field guide for use by Spring Mountains NRA and Red Rock Canyon NCA staff and others in identifying species of concern and their habitats in the Spring Mountains.	X	All	N/A
Develop and distribute information and education materials, directed at specific user groups (climbers, cavers, mountain bikers, equestrians, off-highway vehicle users, etc.) and the public at large; emphasizing protection of riparian habitats, alpine areas, and other sensitive areas.	X (partially)	All	All
Develop and distribute information to equestrians on the importance of using palletized feed within the NRA, and develop and distribute a weed-free feed policy for equestrians on Federal lands.	X	Plants, Butterflies	Trails

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Develop and implement a climbing "self registration" process that encourages development of new routes away from ecologically sensitive areas.	X	Cliff plants, Bats	Climbing
Develop and implement a cumulative impact tally to monitor effects of NRA activities on the species of concern and their habitats. This program will provide sufficient information to trigger the need for quantitative monitoring or remedial actions to halt.		All	N/A
(a) Develop and (b) implement a fuelwood plan for the NRA which addresses and ameliorates potential impacts to the species of concern, in particular, Palmer's chipmunk, bats, and other species that may be affected by fuelwood cutting. The fuelwood plan will address concerns, and where feasible, implement recommendations for protection of Palmer's chipmunk (Tomlinson 1995), bats (Ramsey 1994, 1997), butterflies (Weiss et al. 1997), reptiles, overwintering pollinators, and other species.		All	Fuelwood
Develop and implement a monitoring program for assessing effects of recreational use on high elevation communities and the species that occur in these communities.	X	Alpine plants, Butterflies	N/A
Develop and implement a plan to inventory and map problem areas of non-native plants, and monitor encroachment over time.	X	All	All
Develop and implement a plan to protect bat roosts in mines and caves. The plan will address the following protective measures: Gating or closing mines and caves to protect bat roost sites, removing important bat roost mines and caves from future additions of NRA maps, avoiding identification of exact locations of maternity roosts, caves, and occupied mines to the general public, determining the need to close roads to mines and caves, and avoiding use of heavy equipment near mine and cave roosts.	X (partially)	Bats	Caves
Develop and implement a recreation monitoring strategy involving trail counters and wilderness rangers. This strategy will include development of methods resulting in collection of data to assess recreation trends and effects on the species of concern and ecological resources.	X (partially)	All	CUAs, Trails
Develop and implement a prescribed burn plan for the NRA, with emphasis on ecosystem health and enhancement of habitat for sensitive bats, endemic plants and butterflies, and other ecological resources. This plan will, at a minimum, determine the location, species, and habitats for enhancement, identify studies needed prior to implementation, outline a public information campaign, and identify the time frame in which the plan will be implemented. The prescribed burn plan will address concerns, and where feasible implement recommendations for protection of rare and sensitive flora and plant communities (Nachlinger and Reese 1996), overwintering pollinators, endemic butterflies and their host plants (Weiss et al. 1997), Palmer's chipmunk (Tomlinson 1995), bats (Ramsey 1994, 1997), and other species of concern. This plan will specifically address the issue of whether or not Clokey eggvetch may benefit from prescribed burns.		All	N/A
Develop and implement an overnight wilderness permitting process that provides visitor education on sensitive resource issues.		All	Trails
(a) Develop and implement memoranda of understanding with climbing and caving groups, and hold annual meetings emphasizing species conservation, identifying protective measures, and specifying surveys for the species of concern prior to establishment of new climbing or caving opportunities. Information derived from these programs will assist the Forest Service in determining future management actions for species protection. (b) Identify additional special interest groups and develop memoranda of understanding.	X	Cliff plants, Bats	Caves, Climbing
Develop and implement plan to collect seed for endowment and cultivation of sensitive and rare plants.	X	All	N/A
Develop and implement vegetation management and restoration plans for campgrounds and day use areas that enhance resources for Palmer's chipmunk, endemic butterflies, and rare plants. Priority areas include: (a) Deer Creek Picnic Area, (b) Lee Canyon campgrounds and picnic areas, (c) Kyle Canyon campgrounds and picnic areas, and (d) Gary Abbot Campground - Close campsite and restore area to enhance habitat of Clokey eggvetch and butterflies.		All (except low elevation plants)	Campgrounds, Picnic areas
Develop brochures for ten trailheads (North Loop, South Loop, Bonanza, Mary Jane Falls, Trail Canyon, Bristlecone, Big Falls, Little Falls, Robbers Roost, and Fletcher Canyon), highlighting the unique resources and biological diversity of the NRA.	X	All	Trailheads, Trails

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Develop cooperative management relationships with recreational residence associations in developed canyons.	X	Mixed conifer plants, Butterflies, Birds, Palmer's chipmunk	FS structures, Snowplay
Develop display materials highlighting the unique resources and biological diversity of the NRA for the NRA office, Kyle Canyon Guard Station, and for community events.	X	All	All
Develop driving tour programs using tapes or low frequency radio transmitters at selected locations to provide NRA information and highlight the unique resources and biological diversity of the NRA.		All	Roads
Develop interpretive signs and brochures to inform public to not pick flowers and trample vegetation along trails and within recreation developments.	X (partially)	All	Current and Future Campgrounds, Picnic areas, Trailheads, and Trails
Develop low standard recreation facilities, including small campsites or restrooms, in Carpenter Canyon as a resource protection measure. Close the last section of road to prevent vehicle access through stream and riparian area. Make campsites walk-in access only.		Cliff plants, Bats, Butterflies, Lahontan cutthroat trout	Unpaved roads
Develop native plant material and seed list for restoration projects by plant community. The list will specifically identify larval and nectar host plants for the endemic butterflies. Develop plan to collect local seed for restoration efforts.	X	All	N/A
Develop new perennial water sources, including guzzlers, only to benefit native species to improve distribution of non-native species, where historic water sources have disappeared, or where access is limited.	X	Butterflies, Birds	Horses and burros
Develop new relationships/partnerships and strengthen existing efforts with user groups, including hunters, trappers, rock climbers, cavers, trail users, summer home and special use permittees, and American Indians, to help manage the SMNRA and protect resources.	X (partially)	All	Caves, Climbing, FS structures
Develop new trails and discourage trail use inside of biodiversity hotspots to avoid further adverse effects on rare and sensitive species.	X	All	Current and Future Trails
Develop new trails and encourage trail use outside of biodiversity hotspots to avoid further adverse effects on rare and sensitive species.	X	All	Current and Future Trails
Develop or realign trails into climbing areas as appropriate to provide for public safety and resource protection.	X (partially)	All	Climbing, Current and Future Trails
Develop trails in Cottonwood valley in conjunction with BLM trail proposals. Coordinate with BLM and Clark County on consistent management of the trail system.		All	Trails
Discontinue equestrian use in the alpine if monitoring determines that equestrian use is having a negative impact on vegetation within the biodiversity hotspots.	X	Alpine plants, Butterflies	Trails
Discourage foot-traffic and camping at Mummy Spring by removing visitor-made trails, trail signage, and restoring native vegetation in riparian areas.	X	Riparian plants, Butterflies	Trail
Discourage or prohibit public uses that modify RNAs.	X	All	N/A
Discourage snow play, where possible, in unsafe and unmanaged areas.	X	All	Snowplay
Divert 25% or less of the surface flow from new developments at springs, seeps, and streams.		Riparian plants, Springsnails, Butterflies	N/A
Do not permit introduction of new non-native species of fish or wildlife.	X	All	N/A
Do not use bulldozers to create control lines for prescribed burns.	X	All	N/A
Educate the public to the sensitivity of endemic species of the Spring Mountains, the importance of diversity, the significance of the Spring Mountains' biodiversity, and how to recreate without impacting these resources.	X (partially)	All	N/A

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Eliminate vehicle access on the unnumbered spur road to Cave Spring off Lovell Summit Road (FS 536), in coordination with appropriate state and local authorities.	X	Riparian plants, Wildlife	Unpaved roads
Eliminate vehicle access on the unnumbered spur road to CC Spring (FS 538), in coordination with appropriate state and local authorities.	X	Riparian plants, Wildlife	Unpaved roads
Eliminate vehicle access on the unnumbered spur road to Ninety-nine Mine and Contact Mine, in coordination with appropriate state and local authorities.		Mixed conifer plants, Wildlife	Unpaved roads
Eliminate vehicle access to Willow Creek riparian area via the unnumbered spur roads off Forest Road 061 in and around Willow Creek and west towards Wheeler Pass that are located in or lead to the riparian area. Limit expansion of other spur roads through placement of vehicle barriers or berms.	X	Mixed conifer plants, Wildlife	Unpaved roads
Encourage partnerships and recruit volunteers to increase our ability to maintain and enhance natural resources in the NRA.	X	All	N/A
Encourage the use of weed-free feed.	X	All	Trails
Enhance developed sites where feasible to restore resource or wildlife values where recreation use has adversely affected resources.		All	Campgrounds, Picnic areas, Trailheads
Ensure consistent law enforcement and ranger presence on east and west side and Wilderness Area at appropriate times of year as needed to emphasize protection of species of concern and their habitats, especially high elevation forests and alpine areas and to inform visitors of species conservation needs, ecological resource sensitivity, and low impact recreation use practices.	X	All	Campgrounds, CUAs, Picnic areas, Trailheads, Trails
Ensure consistent law enforcement and ranger presence on the east side of the NRA, west side of the NRA, and in the Wilderness Area, a minimum of 4 days per week per area (including weekends and holidays) during the period April 15-October 15, and a minimum of 3 days per week (including weekends and holidays) during the period October 15 - April 15. Enforcement will emphasize protection of the species of concern and their habitats (e.g., peregrine falcon eyries, bat roosts, and alpine species). Increased wilderness ranger presence in high elevation forests and alpine areas will provide a means to distribute information on species conservation needs, ecological resource sensitivity, and low impact recreation use practices.	X	All	CUAs, Trails
Ensure NDOT and FS road crews to ensure that road maintenance activities (e.g., shoulder work, road salting) do not adversely affect the species of concern in Kyle Canyon.	X	Mixed conifer plants, Wildlife	Roads
Ensure NRA staff are familiar with the basic habitat elements of the species of concern, including requirements of endemic butterflies (larval host plants, nectar sources, puddles and mud) bats (open water, caves, mines, cliffs, crevices, and other roost sites), Palmer's chipmunk (shelter requirements), and rare plants (edaphic and other requirements).	X	All	N/A
Ensure that all NRA staff annually review a copy of this CA and are familiar with its intent and terms. This will provide the basis for informed decision making in providing for species and ecological resource protection during planning and implementation of new and ongoing projects.	X	All	N/A
Ensure that all NRA staff annually review species and ecosystem protection recommendations made by field researchers. This information is summarized in the document "Management Recommendations for Species and Ecosystem Management in the Spring Mountains National Recreation Area."	X	All	N/A
Ensure that restoration projects focus on protection and enhancement of the species of concern and do not inadvertently cause irretrievable damage to the habitats of the species of concern.	X	All	N/A
Ensure with NDOT and FS road crews to ensure that road maintenance activities (e.g., shoulder work, road salting) do not adversely affect the species of concern along Deer Creek Highway.	X	All	Roads
Equestrian use on Bristlecone Trail (Trail 148) is only allowed on the Scout Canyon portion of the trail.	X	Mixed conifer plants, Butterflies	Trails

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Establish a technical advisory group comprised of individuals with knowledge and expertise on conservation of the species of concern, and convene annual meetings to discuss conservation actions.	X	All	N/A
Establish partnerships with cavers and rock climbers for education, public use, and protection of unique resources.	X	Cliff plants, Bats	Caves, Climbing
Expand Carpenter Canyon Research Natural Area to help protect unique alpine biodiversity.	X	Alpine plants, Butterflies	N/A
Facilitate, with Clark County, enforcement of leash laws, and control of feral cats and dogs in areas where adverse effects on Palmer's chipmunk and other wildlife have occurred, particularly areas adjacent to the private developments of Mt. Charleston, Deer Creek, and Lee Canyon.	X	Palmer's chipmunk, Birds	N/A
First priority for utilities will be existing corridors.	X	All	FS structures
Focus new recreation development in the least sensitive areas at lower elevations, to lessen visitor impacts on the species of concern and other sensitive ecological resources.	X	All	All Future activities
For organized, motorized events on unpaved roads or trails within 0.5 mile of active desert tortoise burrows, require special permit provisions for desert tortoise protection.		Reptiles	Motorized trails, Unpaved roads
Forage utilization will be 30% or less on any area in the NRA (elk/horse management).	X	All	Horses and burros
Future trail alignments in the developed canyons will emphasize public safety, resource protection, and customer satisfaction.		All	Future Trails
Gate cave or mine openings where needed for public safety and resource protection.	X	Bats	Caves
Give preference to riparian area-dependent resources over other resources.	X	All	All
Green fuelwood area openings will not exceed 40 acres in size Design openings to optimize edge-effect and minimize visual impacts.		All	Fuelwood
Green fuelwood areas adjacent to or within the foreground view of sensitivity level 1 roads will be less than 3 acres in size and designed to mimic natural openings. Retain a 100 yard buffer zone of undisturbed vegetation for green fuelwood areas larger than 3 acres adjacent to sensitivity level 1 roads.		All	Fuelwood
Harden sites where occupancy is greater than 40% and resource damage is occurring.		All	Campground, CUAs
Identify and pursue purchases or exchanges of National Forest inholdings that will benefit the species of concern and other sensitive ecological resources.	X	All	Private land
Identify specific areas of exceptional sensitivity where conservation management will be emphasized over recreation.	X	Plants	Campgrounds, Picnic areas
If possible, move Big Timber Road (FS 553) out of wash (all sections) (see Map 8).		Mixed conifer plants, Butterflies	Unpaved roads
Implement BMPs for protection of water quality.	X	Riparian plants, Springsnails	N/A
Implement the principles of ecosystem management in the NRA.	X	All	N/A
In cooperation with climbing interest groups, develop brochures with interpretive and educational materials and make available at Kyle Canyon information center, at Red Rock Visitor Center, and at local climbing shops, gyms, and from local guides/outfitters.	X (partially)	Cliff plants, Bats	Climbing
Include BLM in project planning and implementation in conservation of the species of concern and other sensitive ecological resources within their purview, and work towards inclusion of BLM lands within the Spring Mountains ecosystem into this CA.	X	All	N/A
Increase cooperation with state and local agencies, permittees, and the public, for law enforcement, emergency services, and education in winter recreation sites.	X	Mixed conifer plants, Butterflies, Palmer's chipmunk	Snowplay

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Increase populations of threatened, endangered, and sensitive species, and species of concern, and their suitable habitat over the long term.	X	All	N/A
Initial Appropriate Management Level for Johnnie Territory: horses, 50; burros, 75.	X	All	Horses and burros
Integrate efforts in this CA with the Clark County Multi-species Planning effort to ensure that mutual goals to achieve species conservation are accomplished.	X	All	N/A
Issue no permits for new recreational residences located on national forest system lands.		All	N/A
Keep wild horses and burros out of the Wilderness.	X		Horses and burros
Limit impacts of new administrative facilities on natural and heritage resources, and visual quality.	X	Plants	FS structures
Limit negative impacts to all species of concern due to management activities.	X	All	N/A
Limit predator control to specific problem animals and/or areas.	X (limited)	Wildlife	N/A
Lower Deer Creek is removed from the Spring Mountains Wild Horse and Burro Territory due to danger posed by this herd to traffic on Kyle and Lee Canyon highways.	X	Low elevation and Mixed conifer plants, Butterflies	Horses and burros
Maintain a philosophy of adaptive management in implementing the CA which provides the basis for changes and mid-course corrections as determined to ensure species viability and habitat protection.	X	All	N/A
Maintain appropriate Management Level for wild horses and burros in Wheeler Pass, Wheeler/Wallace, and Red Rock territory.	X	All	Horses and burros
Maintain at least 90% natural bank stability where Lahontan cutthroat trout (LCT) present; 80% otherwise.	X	Lahontan cutthroat trout	N/A
Maintain historic conditions of water chemistry, temperature, clarity, and surface flow.	X	Riparian plants, Springsnails	N/A
Maintain historic/natural operation of floodplains, where possible.		All	N/A
Maintain large undisturbed blocks of vegetation in an unfragmented condition without new roads or motorized trails including: Lovell Wash/Younts/Rose Springs area.	X	All	Future Campgrounds, Picnic areas, Roads, Trailheads, and Trails
Maintain or enhance ecosystem health, function, sustainability, and diversity (plant, animal, and community).	X	All	N/A
Maintain or improve riparian areas to a "good" or "excellent" condition where Lahontan cutthroat trout are present.	X	Lahontan cutthroat trout	N/A
Maintain or restore the health and size of riparian areas at natural water sources, and at human-made water sources where native and desired non-native species have become accustomed to using them (e.g., broken pipelines).	X	Riparian plants, Springsnails	Horses and burros
Maintain roads to a standard necessary for public safety and as needed to respond to resource management objectives, including resource protection and recreation, through maintenance of road surfaces and minimizing erosion.	X	All	Roads
Maintain unfragmented blocks of land in the West Side management area.	X	All	Future West Side PO activities
Maintain, periodically update, and make accessible to NRA staff and other involved agencies and partners, a GIS, with locations of the species of concern and other sensitive ecological resources. This will provide baseline information useful for avoiding where feasible, or minimizing when necessary, adverse impacts on the species of concern and their habitats.	X (partially)	All	N/A

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Maintain/restore open pools of slow moving water at some historic water sources, well distributed throughout the range. Develop open pools of water at least 0.5 meter in diameter at newly developed/diverted water sources.	X (partially)	Bats	N/A
Manage 10% of mixed conifer as old-growth habitat.		Alpine plants, Bats, Birds, Butterflies, Palmer's chipmunk	Campgrounds, CUAs, FS structures, Fuelwood, Picnic Areas, Ski Area, Trailheads, WUI
Manage all active claims and abandoned mines to minimize effects on natural, visual, and heritage resources and provide protection for the public.	X	Bats	Caves
Manage and maintain existing informal use trails in the Macks Canyon area that are not causing resource damage.	X (partially)	All	Trails
Manage cave resources within the SMNRA to protect resources, provide for public safety, and provide recreational opportunities as set forth in the Federal Cave Resources Protection Act of 1988.	X	Bats	Caves
Manage designated and informal use (unnumbered) trails that are causing resource damage to reduce damage and restrict use to a single trail.	X	All	Trails
Manage ecosystems containing sensitive species to maintain or increase populations and achieve recovery.	X	All	N/A
Manage for endemic levels of native insects and diseases within the ecosystem.		All	N/A
Manage habitats to achieve recovery of listed species, and ensure that sensitive species do not become threatened or endangered.	X (partially)	All	N/A
Manage riparian areas to achieve or maintain medium or high ecological status.	X	Riparian plants, Springsnails, Butterflies, Birds	Horses and burros, Current and Future Picnic areas, Trailheads, Trails
Manage water systems to preserve water quality and protect public health.	X	N/A	N/A
Manage wild horses and burros in a thriving ecological balance with long-term ecosystem health.	X	All	Horses and burros
Manage wild horses and burros in the NRA to avoid damage to species of concern habitats, particularly in lower Lee Canyon, northwest Mt. Stirling, Wheeler Pass, Wheeler Wash, Wood Canyon, Carpenter Canyon, and lower Deer Creek, and continue to quickly remove any stray horses at upper elevations, particularly in upper Lee Canyon, Deer Creek, and Kyle Canyon.	X	All	Horses and burros
Manage wild horses, burros to populations compatible with resource capability.		All	Horses and burros
Meet or exceed state water quality standards.	X	Springsnails	N/A
Minimize need for access to mines, and close roads after use, unless needed.	X	Low elevation and Mixed conifer plants, Bats, Butterflies	Caves
Minimize adverse impacts to surface resources, and provide for reclamation at mines.	X	Low elevation and Mixed conifer plants, Bats, Butterflies	Caves
Minimize clearing of undergrowth during construction of new facilities.	X	All	Campgrounds, FS structures, Picnic areas, Trailheads
Minimize paving of existing unpaved forest system roads within the SMNRA, provided public safety and resource management objectives are met.	X	All	Unpaved roads
Monitor increase of exotic non-native plant populations in the alpine to identify the need for any trail closures and restrictions for equestrian use.	X	Alpine plants, butterflies	Trails

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
New administrative facilities will be located outside the 50-year floodplain, riparian areas, and avalanche hazard zones.	X	All	FS structures
New campgrounds and picnic areas will be located outside the 50-year floodplain, riparian areas, and avalanche hazard zones.	X	All	Future Campgrounds, Picnic areas
New facilities and roads will be sited so as to avoid vital populations or habitats of species of concern.	X	All	FS structures and Future Campgrounds, Picnic areas, Roads, Trailheads, Trails
New facilities, special uses, or private developments on National Forest System lands will be constructed or carried out using "defensible space," guidelines to limit the incidence, speed, and damage from wildfire, where consistent with maintaining habitat for species of concern.	X	All	FS structures, Private buildings and land, WUI, all Future activities
New roads, administrative facilities, and developed recreation sites other than low-impact facilities (trails, trailhead parking, signs, restrooms, etc.) will be outside a 100 yard buffer zone around known Clokey eggvetch and rough angelica populations or potential habitat, and outside biodiversity hotspots (defined as areas of particular diversity or sensitivity).	X	All	FS structures, Trailheads, Trails, Roads, all Future activities
No alteration of rock surfaces by gluing, chipping, or chiseling during climbing activities will be allowed.	X (partially)	Cliff plants, Bats	Climbing
No cleanup or reforestation following wildfires.	X	N/A	Fire history
No new recreation residence permits will be issued.	X	All	FS structures
No permanent fixed ropes or cables will be left in place for climbing or belaying purposes (not to include chain links used for belay/rappel/toprope anchors).		Cliff plants, Bats	Climbing
No sale of National Forest System land within the NRA.	X	All	N/A
In Wilderness areas, obliterate existing roads, except for maintenance of existing roads as trail alignments.	X	All	Roads, Trails
Only allow low standard recreation facilities, including small camping areas or restrooms to be developed in upper Kyle and Lee canyons west of State Highway 158 as a resource protection measure. Allow new campgrounds and picnic areas to be developed in lower Kyle and Lee canyons, east of State Highway 158. (Standard)	X	All	Future Campgrounds, Picnic areas, Trailheads
Openings in green fuelwood areas will be 8 acres or less in size and designed in a mosaic pattern optimizing edge effect.		All	Fuelwood
Organize volunteer work parties to manually remove exotic plants and noxious weeds along the ridgeline trail and other high elevation routes.	X	Alpine plants, Butterflies	Trails
Outfitter/guide horseback operators will only be allowed to use South Loop and Bonanza Trail.	X	Alpine plants, Butterflies	Trails
Outfitter/guide vehicle tours: Maximum group size = 5 vehicles (less than 9 passengers/vehicle); Maximum tours = 100 tours per year, 12 tours per day; Outfitter/guide vehicle tours are allowed on Jaybird Road (FS 552), Big Timber Road (FS 553 and 555), the unnumbered FS Road connecting Big Timber and Jaybird Roads via Gold Springs Road (FS 592), and Horseshutem Road (FS 551).	X	All	Roads
Pack and saddle stock are limited to day use on all of South Loop Trail and on North Loop Trail from Trail Canyon trail junction to Charleston Peak.		Alpine plants, Butterflies	Trails
Permit application of herbicides and insecticides only to avoid or control epidemic outbreaks of insect and plant diseases where there is a threat to public safety, private property, or extreme fire danger.		N/A	N/A
Permit only management practices necessary to preserve natural vegetation (in RNA).	X	All	All activities (except Horses and burros)

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Pipe water from Wheeler Well to an undisturbed area outside the existing dispersed recreation area. Restrict vehicle access to new trough while not inhibiting access by wild horses and wildlife. Bury pipeline. Use interpretive signing to educate public as to the sensitivity of water locations.		Mixed conifer plants	CUAs, Horses and burros
Prepare a fire rehabilitation plan for all fires larger than 300 acres.	X	All	Fire History
Prevent the destruction or adverse modification of critical threatened and endangered species habitat, recover populations of threatened and endangered species, and avoid the listing of additional species as threatened or endangered by maintaining populations.	X	All	N/A
Prior to use of pesticides and other chemicals, determine potential impacts to the species of concern and implement strategies to avoid impacts to those species.	X	Bats, Butterflies	Invasives
Prohibit alteration of cave and mine entrance (except for gating to protect cave resources) or their use as disposal sites for slash, spoils, or other refuse	X	Bats	Caves
Prohibit parking and camping within riparian areas.	X	Riparian plants, Wildlife	CUAs, Trailheads
Prohibit snowmobile use in upper Lee Canyon (west of Deer Creek Highway) except for administrative use, search and rescue, and operational use within or for the Las Vegas Ski and Snowboard Resort	X	Mixed conifer plants, Wildlife	Snowplay, ski area
Prohibit taking of threatened and endangered species except under USFWS permit.	X	All	N/A
Protect and secure water rights necessary for National Forest System management.	X	Riparian species, Wildlife	N/A
Protect bristlecone, including deadwood, for aesthetic and scientific value. Provide habitat protection when vegetation treatments performed.	X	Alpine plants, Butterflies	Fuelwood, WUI
Protect from fires, insects, diseases, animals not part of natural processes.	X	N/A	N/A
Protect habitat of the species of concern from dispersed recreation (e.g., heavy foot traffic, off-road vehicles, mountain bikes), and the adverse effects of wild horses and burros.	X	All	CUAs, Horses and burros, Roads, Trails
Protect wilderness resources, including live and dead bristlecone pines, from removal/cutting for fuel.	X	Alpine plants, butterflies	Fuelwood
Provide a minimum of five wildlife cover sites per acre within developed or primitive recreation sites by maintaining or adding dead and down wood material or rocks at appropriate locations.	X (partially)	Palmer's chipmunk	CUAs, Campgrounds, Picnic areas
Provide additional developed recreation facilities in appropriate locations to encourage use away from upper Kyle and Lee Canyons.	X (partially)	All	Future Campgrounds, FS structures, Picnic Areas, Trailheads, Trails
Provide additional mountain bike trail opportunities, within the constraints of the biodiversity hotspots		All	Trails
Provide additional multi-use recreation facilities in lower Kyle or Lee canyons.	X (initial)	All	N/A
Provide alternative parking sites, road alignments, and fencing where feasible to allow for continued recreational use outside of riparian areas.		Riparian plants, Wildlife	Roads
Provide copies of this CA to, and hold annual meetings with partners and other interested parties to increase awareness of conservation priorities and encourage partnerships in accomplishment of conservation actions.	X	All	N/A
Provide entrance stations on State Highways 157 and 158 at the entrances to upper Kyle and Lee canyons, in cooperation with Federal, state, and local agencies, and local residents and business interests.		All	N/A
Provide fish passage at all crossings of known fish habitat.		Lahontan cutthroat trout	N/A

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Provide improvements to the Desert Senses Trail to increase access to persons with disabilities. Provide interpretive signage on trail.		All	Trailhead, Trail
Provide information to summer home residents on Palmer's chipmunk and rough angelica conservation.	X	Mixed conifer plants, Palmer's chipmunk	FS structures
Provide interpretive signs and displays at trailheads, riparian areas, and springs as necessary to educate public on resource values and to inform users of requirements and restrictions.	X	All	Trailheads
Provide NRA staff and key permittees and partners with annual information on biodiversity hotspots, the species that occur in these areas, and the importance of avoiding adverse impacts to the species of concern and their habitats.	X	All	N/A
Provide protection of the riparian areas (in accordance with NV Revised Statute 503 660)at Cold and Willow Creeks through the use of new road alignments, vehicle barriers, and/or signage. Redirect parking and camping away from riparian corridors. Allow only day-use, walk-in activities to occur within the riparian corridor (Standard).	X (partially)	Mixed conifer plants, Birds, Butterflies, Springsnails	CUAs, Unpaved roads
Provide sufficient habitat to support the continued existence of all native resident and migratory species throughout the planning area.	X	All	N/A
Provide sufficient habitat to support the continued existence of desired non-native species so long as their presence does not limit the viability of native species.	X	N/A	Horses and burros
Provide trail markers and post restrictions to bouldering in the vicinity of Robbers' Roost Cave to protect Jaeger ivesia and Clokey greasebush. Interpretive signage may be used as appropriate.		Cliff plants, Bats	Caves, Climbing
Provide use, education, and interpretive information, such as winter recreation opportunities, parking, etc. through the use of signage, visitor contacts, maps and pamphlets, and information stations.	X	All	All
Provide water sources for wildlife adjacent to or within developed facilities. Maintain public restrooms to prevent access by wildlife.	X	Palmer's chipmunk	Campgrounds, Picnic areas
Realign those sections of the unnumbered road linking Big Timber Road (FS 553) to Jaybird Road (FS 552) that are out of the wash.		Mixed conifer, Butterflies	Unpaved roads
Reduce impacts of non-native plants in the Wilderness.	X	Alpine plants, Butterflies	N/A
Relocate existing roads outside of washes, riparian areas, and 50-year floodplains if relocation will result in better resource conditions. Priority should be given to relocating roads when major maintenance is required and to roads that: 1. Are located in vital habitat for plant or animal species of concern. 2. Receive higher levels of use.		Riparian plants, Butterflies	Roads
Relocate South Loop Trail away from meadow if practical, and if other resources will not be affected.		Alpine plants, Butterflies	Trails
Relocate the road through Cold Creek and Willow Creek out of riparian areas, in cooperation with Clark County, to provide an alignment that improves road safety, maintenance, and management. (Guideline)		Birds, Butterflies, Springsnails	Unpaved roads
Remove all structures (e.g., barbed wire, corral) related to grazing activities that are not necessary for current management, or of historic value.	X	Wildlife	N/A
Remove brown-headed cowbirds where nest parasitism occurs during neotropical migratory bird inventories or other activities.		Birds	N/A
Remove existing water developments and debris from springs, providing they no longer serve their original purpose, are not critical to wildlife, and the items are not of historical significance.		Riparian plants, Wildlife	N/A
Remove fire rings from the Wilderness. Emphasis should be placed on removing features which encourage use on degraded or sensitive sites.	X	Alpine plants	CUAs

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Remove roads causing environmental damage, including the roads to Cave Spring, CC Spring, and Lost Cabin Spring, and identify additional roads for closure, particularly in biodiversity hotspots, and work with community groups to close them.	X	Mixed conifer plants, Butterflies	Unpaved roads
Remove selected informal high-elevation and alpine campsites (particularly those within or near the habitats of the plant species of concern and butterfly host plants), encourage use of specific strategically placed campsites, and remove all high elevation fire rings.	X	Alpine plants, Butterflies	CUAs
Require "pack-out" of refuse from undeveloped recreation areas.	X	All	CUAs
Require permits for groups with 15 or more pack or saddle stock. Require as part of the permit, all participants must stay on approved trails. Require removal of all hay and fecal material as part of site rehabilitation.	X	All	CUAs, Trails
Require permits for publicized and/or organized events with 75 or more participants.	X	All	N/A
Require site/area rehabilitation upon completion/termination as part of all new permits.	X	All	CUAs
Require supplemental feed for recreational livestock use, as necessary.		All	CUAs, Trails
Restore habitat in accordance with Interagency Agreement # 14-48-0001-94605 between the USFS and USFWS for the Spring Mountains NRA. All restoration activities will be designed and implemented in coordination with the Technical Working Group to avoid inadvertent adverse effects on the species of concern. Priorities identified to date are provided in Conservation Agreement pp. 38-39.	X	All	Unpaved roads, Non system roads
Restore riparian area at Trough Spring. Remove improvements and, if necessary, restore native vegetation. Rebuild fence, if necessary, to restrict wild horse access. Create open pool (0.5 meter in diameter) for bat access Block access road to Trough Spring.	X	Bats, Butterflies	Horses and burros, Unpaved roads
Restore water sources to historic flows in the Wilderness.	NO	Riparian plants, Bats, Butterflies	N/A
Retain 60% of naturally occurring snags in pinyon-juniper.	X	Bats, Birds	Fuelwood
Retain a minimum of 50 linear feet/acre of downed trees with a minimum 12 inch diameter on sites being managed for late seral stage of the Pinyon/Juniper and Mixed conifer Land Type Associations to provide ground cover.	X	Birds, Palmer's chipmunk	Fuelwood
Retain all snags that do not pose a threat to public safety or extreme fire danger. Retain a minimum of 5 snags per acre in late seral stages of the Pinyon/juniper, Mixed Conifer, and Bristlecone Pine Land Type Associations in all cases.	X	Bats, Birds	Campgrounds, Fuelwood, Picnic areas
Retain and average of three downed logs per acre as wildlife habitat.	X	Palmer's chipmunk	Campgrounds, CUAs, Fuelwood, Picnic areas
Retain minimum of four snags per acre in riparian areas.	X	Bats, Birds	Fuelwood
Retain minimum of two snags per acre in mixed conifer.	X	Bats, Birds	Fuelwood
Retain Wheeler Pass Road as a four wheel drive road and continue to provide minimal maintenance as necessary to protect natural values, limit erosion, and provide administrative access and recreational use.	X	N/A	Unpaved roads
Return fire, as a historic ecological process, to the SMNRA. Maintain and improve ecosystem function and health through the management of prescribed fire and prescribed natural fire.	NO	some Mixed conifer plants, some Wildlife	N/A
Roads under Forest Service jurisdiction should remain open for public travel unless the following occurs: 1 Road is unsafe for public travel, or open status causes unacceptable resource damage 2 Closures or restrictions are needed to meet public use or other resource needs.	X	N/A	Roads
Roads will be maintained to a minimum width and roadside vegetation will be mechanically treated (brushed) at locations appropriate to ensure public safety Vegetation treatment will be done in a manner to minimize visual impacts		All	Roads

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Rock climbing in the Fletcher Canyon and Robbers' Roost areas (both within and outside the Wilderness boundary) will continue only on existing routes until surveys for species of concern are complete. After surveys have been completed, local restrictions or seasonal closures may be used to protect species of concern.		Cliff species, Bats	Climbing
Rock climbing within 100 yards of known active or recently active peregrine falcon nests will be allowed only from the beginning of July through the end of January. Specific routes may be signed as necessary to inform of seasonal closures if nests are identified. Monitor peregrine nesting success to determine if the 100 yard closure is effective. (Standard)	X	Peregrine falcon	Climbing
Secure funding for additional staff positions including a field ecologist, biologist, botanist, interpreters, visitor center personnel, wilderness manager and rangers, dispersed recreation rangers, and law enforcement officers.	X	All	N/A
Secure funding for projects involving inventory, monitoring, research, protection, restoration, and education in the NRA.	X	All	N/A
Secure funding for restoration programs beyond those under the scope of Interagency Agreement # 14-48-0001-94605.	X	All	N/A
Sign closure order allowing FS to prohibit camping within specific distance of water sources, based on species and habitat protection needs, and control dispersed, primitive camping in the NRA by enforcing the closure order.	X (partially)	All	CUAs
Soil disturbing activities, except construction, will not exceed soil loss tolerance limits (500 lbs/ac/yr).	X	All	N/A
Streams will not be channelized to protect recreation structures from flooding.	X	Rough angelica, Birds, Butterflies, Springsnails	Campgrounds, Picnic areas
Take advantage of the remote setting of this Mt. Stirling management area to actively restore historic disturbance regimes and improve wildlife habitat.	NO	Wildlife	N/A
Take no action against endemic insects, diseases, or animals.		All	N/A
The habitat capability to support elk will be based upon 15% of available resources available water and forage; and animal condition.		All	N/A
To maintain wildlife cover in developed sites, encourage campground hosts/concessionaire to provide wood for purchase by campers/picnickers.	X	Palmer's chipmunk	Campgrounds, Picnic areas
Trail construction and commercial uses within the RNA are prohibited, except for outfitters/guides passing through the RNA on the Mt. Charleston Loop Trail.	X	Alpine plants, Butterflies	Trails
Treat pinyon-juniper for livestock, deer and elk, habitat diversity, or sustained yield of pinyon-juniper.		N/A	N/A
Treatments in pinyon-juniper will not promote invasion by cheatgrass.		All	N/A
Use all opportunities where the public is contacted (e.g., ranger stations, future visitor center and entrance stations, public meetings) to distribute materials emphasizing biodiversity protection and ecosystem management. Ensure that educational materials are focused on critical issues such as staying on trails, controlling pets, and avoidance of vegetation trampling and wildlife harassment		All	Trails
Use fencing for protection only where no viable alternative exists.	X	All	All activities
Use planned, prescribed fire to improve or enhance resource outputs and to restore natural ecosystems and improve ecosystem health and function in the Wilderness, as long as there is no threat to persons or property outside the RNA.		All	N/A
Use prescribed fire, silvicultural and mechanical treatments, and shaded fuelbreaks throughout the NRA to achieve ecosystem health goals, reduce fuel loads, and protect public safety, developed areas, and private property.	X	All	WUI

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Use prescribed natural fire throughout the NRA, where lives and property can be protected and outside the Creosote and Blackbrush Land Type Associations, to achieve ecosystem health goals and reduce fuels when conditions, fuel, weather, and national/local fire seasons allow.		All	N/A
Use seed mixtures or seedlings for site rehabilitation, fire rehabilitation, or permit requirement in order of preference: 1) Native plants; 2) no seeding (only if erosion is not a serious concern and there is no cheatgrass invasion); 3) non-persistent (sterile) exotics; 4) Persistent exotics.	X (partially)	All	All
Use temporary closures (roads, trails, dispersed areas) to protect important seasonal habitat for species of concern (animals, plants, insects), in coordination with appropriate state and local agencies.		All	CUAs, Roads, Trails
Use temporary closures to protect important seasonal habitat for species of concern, in coordination with appropriate state and local agencies.	X	All	CUAs, Fuelwood, Trailheads, Trails, Unpaved roads, WUI
Use the results of monitoring activities to, where feasible and necessary, refine management strategies for protection of the species of concern. Where monitoring has indicated status decline or habitat degradation for the species of concern, develop and implement strategies to avert further decline or degradation, and improve species status and habitat quality.	X	All	N/A
Use timber sales and pinyon-juniper habitat management to improve wildlife habitat.		Wildlife	N/A
Utility lines generally will be buried.	X	Birds	FS structures
Vegetation management and restoration plans have been implemented for campgrounds and day use areas; however, there is a need to enhance resources for species of concern.	X	All	Campground, Picnic areas
When developing water sources, pipe water from a point downstream of the source if snails or other sensitive species are present, or if the spring source has not been previously developed.	X	Bats, Butterflies, Springsnails	Horses and burros
When maintaining upper North Divide Trail switch-backs, minimize ground disturbance to protect rare plants.	X	Alpine plants, Butterflies	Trails, Roads
When possible, and in conjunction with Clark County, realign Wheeler Wash Road (FS 601) out of the wash (see Map 8).		Mixed conifer plants, Butterflies	Unpaved roads
Where possible, control access to, and revegetate natural areas in the developed canyons that are adjacent to recreation developments and have slopes greater than 25 percent.	X	All	Campgrounds, Picnic areas, Trailheads, Trails
Where possible, maintain native vegetation around cave openings for a minimum distance of 100 yards.	X	Bats	Caves
Where possible, remove obvious exotic plants (dandelions, cheatgrass) in the Wilderness manually.	X	Alpine plants, Butterflies	N/A
Wherever possible, select only locally native species for restoration, and where appropriate, use seed from the plant species of concern and endemic butterfly host plants.	X	All	All
Wilderness permits are required for all overnight use within the Wilderness. Prohibit camping in sensitive areas, as determined through monitoring.		All	CUAs
Within the scope of an approved master development plan and under certain constraints, allow limited expansion of ski area in Lee Canyon and enhancement of skiing opportunities and facilities .	X	All Plants and Wildlife (except Low elevation plants, Reptiles)	Ski area
Work cooperatively with BLM, Nevada Department of Transportation, and other agencies and groups to plan and develop trail connections from US 95 that parallel Kyle or Lee Canyon Highways, if and where impacts to species of concern can be avoided or mitigated (Guideline).		Low elevation and Mixed conifer plants, Wildlife (except springsnails)	Trails

Conservation Measures	Implementing or Implemented	Species Group to Benefit	Activities
Work cooperatively with Federal, state, local agencies, tribal governments, and others to increase public education and awareness of resource values and interpretation opportunities throughout the SMNRA.	X	All	All
Work cooperatively with Federal, state, local agencies, tribal governments, and others to increase public education and awareness of resource values, interpretation opportunities, and the importance of endemic species.	X	All	All
Work cooperatively with interested groups to establish seasonal use periods for caves and to educate cave users.	X	Bats	Caves
Work cooperatively with interested groups to evaluate caves. The inventory process should document all unique biological, hydrological, geological, mineralogical, paleontological, educational, scientific, cultural, and/or recreational values.	X	Bats	Caves
Work with Clark County, Nye County, and BLM to reduce hazardous dust on Wheeler Wash Road (FS Roads 071, 601, 510, 557) from State Highway 160 (both locations) to Wheeler Pass; and Trout Canyon Road (FS Road 576) from State Highway 160 to the subdivision. (Guideline)		N/A	Unpaved roads
Work with Las Vegas Ski and Snowboard Resort to develop protective strategies for sensitive ecological resources. This will include investigating options for erosion control of the Lee Canyon ski slopes with native seed mixes, including <i>Astragalus calycosus</i> var <i>mancus</i> , to enhance butterfly habitat, management of herbicides and pesticides, and a plan for eventual elimination of non-native seeding, and management of the Three Springs area.	X	Alpine, Mixed conifer and Riparian plants, Birds, Butterflies, Palmer's chipmunk	Ski area
Work with NDOW to identify current elk population's utilization levels of key forage species, home ranges of elk herds, and resource overlap with other grazing animals.	X	N/A	N/A
Work with NDOW, USFWS, the Audubon Society, and other interested agencies and organizations to control cowbird populations on the NRA as monitoring identifies negative impacts to species of concern from this parasitic, non-native species.		Birds	N/A
Work with private property owners to restore and enhance the Cold Creek area. This effort will include plans to relocate facilities (e.g., fences, patios, and sheds) outside the riparian zone, and to control camping and fires (to protect butterflies).	X	Mixed conifer plants, Wildlife	Private land
Work with recreation residence associations (for summer homes) to maintain the character and quality of recreational residence while protecting natural resource values.	X	Plants	FS structures
Work with recreation residence associations to maintain the character and quality of recreational residence areas (summer homes under permit on National Forest System lands) while protecting natural resource values.	X (parially)	All	FS structures
Work with ski area permittee and other partners to propagate Torrey milkvetch on the ski runs to enhance habitat for the Mt. Charleston blue.	X	Butterflies	Ski area
Work with summer home residents on the NRA to ensure that all future improvements avoid adverse effects to the species of concern, and where possible, enhance their habitats and populations.	X	All	FS structures
Work with utility companies to ensure poles are raptor-safe.	X	Birds	FS structures
Work with volunteers to provide nest boxes for cavity nesting western bluebirds (<i>Sialia mexicana</i>) and mountain bluebirds (<i>S. currucoidesi</i>) and roosting bats, to replace lost habitat.		Bats	N/A
Work with willing summer home residents on the NRA to ensure that all future improvements avoid adverse effects to the species of concern, and where possible, enhance their habitats and populations.	X	Mixed conifer plants, Wildlife	FS structures