

## APPENCIX C. PAST, PRESENT AND REASONABLY FORESEEABLE ACTIONS

Tables C-1 through C-3 display the actions from the past, present and reasonably foreseeable actions that may have effects on the resources within the Lake project area that were considered for cumulative effects.

**TableC-1 Past Actions in and Adjacent to the Lake Fuels Project**

| Past Actions  | Dates Implemented | Residual Effects  |
|---|-------------------|---|
| <b>MINERALS/SPECIAL USES</b><br>Questar natural gas pipeline. Eight-inch diameter pipeline through the project area. Pipeline extends from Cottonwood Canyon on the south to mainline at Boardinghouse Canyon.    | 1930-present      | Minor surface disturbance from this pipeline that has remained actively used for over 70 years. Pipeline is exposed on surface or suspended in some sections creating travel barriers and potential for vehicle impacts to the pipeline itself.   |
| Oil and Gas Drilling. Several wells drilled in 1950s.   | 1950s             | Pads and roads reclaimed and revegetated. Slight topographic change apparent.   |
| Oil and Gas Drilling. Several wells drilled in 1950s.   | 1980s             | Pads and roads reclaimed and revegetated. Slight topographic change apparent.   |
| Huntington Dam Upgrade  | 1988              | Changes to ground slope at dam site evident. Area is revegetated.   |
| <b>TIMBER</b><br>Several historic timber-cutting operations have occurred on Forest Service and private lands in the area.  | 1880 to 1960      | Some remnant sawmill features remain. Spruce and fir species have returned to most of the harvested sites. Some residual change from tree species to understory species.  |
| Conifer timber sales occurred in the north and south forks of Spring Canyon in the early to mid 1980s. Tree planting to restock these stands also occurred after the sales were completed.                        | 1980-1985         | Roads constructed for the sale were reclaimed and closed to public use. Stocking surveys indicate adequate revegetation.  |
| Conifer timber sale occurred south and west of Rolfson Reservoir in 1990-1991. In addition, two small areas of aspen were clearcut to regenerate aspen. Approximately 750,000 board feet of timber was harvested. | 1990-1991         | All roads constructed for the sale have been reclaimed, but some are still retained on the Forest transportation system as Level I Forest Roads closed to vehicular use, but available for management use. Understory vegetation has reestablished and aspen stands have been certified as restocked. |
| A hazard tree removal timber sale (6 acres) was completed in 2005 around the campground.  | 2005-2006         | The project used existing roads and trails. Most of the logging occurred during the winter over 2 or more feet of snow. Ground disturbance was minimal.   |
| <b>RANGELAND/ VEGETATION/</b><br>Livestock grazing throughout the project area.   | 1850-present      | Changes in species composition. Non-native species introduced.  |
| Noxious weed and Veratrum treatments in the heads of Spring Canyon, Lake Canyon, and Jordan Canyon. Closure of some roads as part of these treatments.  | 1980-1990         | Some portions of roads successfully closed and revegetated. Unauthorized OHV use continuing on some segments resulting in less revegetation than adjacent undisturbed areas. Some noxious weeds controlled, other areas require re-treatment as weeds out-compete native vegetation.                  |

| Past Actions   | Dates Implemented | Residual Effects   |
|--|-------------------|--|
| <p><b>WILDLIFE/WATERSHED</b><br/>Watershed revegetation project in the heads of Rolfson, Jordan and Seeley Canyons below South Skyline Drive</p>                   | 1981-1983         | Vegetation reestablished in accordance with standards/objectives. Old livestock driveways and energy exploration roads closed and converted to non-motorized trails. Some unauthorized OHV use impacting closed roads. Project beneficial to wildlife. Elk calving areas have greater protection and separation from motorized uses. |
| <p><b>TRANSPORTATION</b><br/>Forest Roads and private roads developed for grazing, recreation, timber operations, and access to private lands.</p>                 | 1870-present      | Removal of vegetation and establishment of roadways. Sediment production continues on native surface roads. Human activity during summer seasons when roads are open. Motorized (snowmobile) and non-motorized activity in the winter months.  |
| <p>Miller Flat Road (FR 50014) reconstructed and graveled from junction with Lawry Water Road (FR 50038 to Upper Joes Valley (approximately 5 miles).</p>          | 1999-2000         | Roadway stabilized and decreased sediment. Better access resulting in increased use of the entire Miller Flat corridor from Utah Highway 31 to Joes Valley Reservoir.  |
| <p>Improvement and gravelling of 2.9 miles of road in the Lake Canyon area associated with the 1997 DN/FONSI for the Huntington Canyon Restoration Projects.</p>   | 2003-2004         | Reduced erosion and sediment production from these roads.  |
| <p><b>RECREATION</b><br/>Flat water fisheries improvements to Cleveland Reservoir</p>  | 1995-2002         | Improved access, containment of motorized use, and designation of campsites has tended to improve soil, water, and vegetative components associated with these sites.  |
| <p>Huntington Canyon Restoration Project. Improvement of over 60 sites and closure and rehabilitation of over 50 sites located along the U31 Highway corridor.</p> | 1998-1999         | Improved access, containment of motorized use, designation of campsites, and streamside restoration activities have all combined to improve soil, water, and vegetative components along the Huntington Canyon corridor. Some displacement of dispersed camping to the Lake Canyon area.   |
| <p>Lake Canyon Recreation Area Project</p>   | 2004-05           | Containment of motorized use, designated campsites, rehabilitation of unauthorized user created OHV trails, and a new motorized trail system have all contributed to resource improvement within this 800 acre project area.   |
| <p>Construction of two winter staging areas along U31. Each parking area is approximately 1.3 acres in size.</p>   | 2007              | Provides a place for winter users to park their vehicles off of U31, improving public access and safety and facilitating plowing of U31 by UDOT.   |
| <p><b>HYDROLOGY</b><br/>Lake Fish Barrier just down from Huntington Dam installed.</p>   | 2001              | Localized bank disturbance. Installation of barrier to prevent fish movement to protect native fisheries.  |

**Table C-2 Present Actions in and Adjacent to the Lake Fuels Project**

| Present Actions  | Implementation Dates | Current Effects  |
|--|----------------------|--|
| <p><b>MINERALS/SPECIAL USES</b><br/>Fortuna gas well Notice of Staking. A gas well is planned near the mouth of Jordan Canyon. Access road and drill pad site would be constructed.</p>  | Present              | Upgrading of Seeley Canyon Road (FR 50231), including graveling the surface. Improved access resulting in increased recreation use of this area.   |
| <p>Gooseberry Narrows Project. Construction of a 604 surface acre reservoir by the Bureau of Reclamation in cooperation with the Forest Service and other entities. The final EIS has been completed. Decision pending.</p>  | Thru 2005            | If implemented, this project would include a campground, day-use facilities, and relocation of State Highway 264. Increased visitation to the Forest lands adjacent to State Highways 31 and 264 is expected. See Gooseberry Narrows Project EIS for more information. |
| <p><b>TIMBER</b><br/>Salvage timber cutting occurring on private lands east of Flat Canyon Campground. This area is located about five miles north of the project area.</p>  | Present              | Removal of timber. Disturbance to vegetation and avoidance by wildlife in harvest areas during operations. Increased truck traffic on roads.   |
| <p><b>RANGELAND/VEGETATION</b><br/>Continued sheep grazing on allotments. Current range management designed to decrease effects. Noxious weed treatment occurring throughout the area.</p>   | Present              | Continued grazing and associated reduction of vegetation densities. Riparian areas have improved and conditions are improving on NFS lands. Noxious weed densities and spread potential reduced.   |
| <p><b>WILDLIFE</b></p>   | Present              | Unauthorized OHV use especially during fall hunting season disturbs revegetated area and elk/deer hiding cover.  |
| <p><b>TRANSPORTATION</b><br/>Continued use and maintenance of Forest Roads and private roads. Grading of the Miller Flat Road occurs once or twice yearly. Spot gravelling occurs as needed.</p>   | Present              | Periodic grading reinforces proper drainage and improves trafficability.   |
| <p><b>RECREATION</b><br/>Use at nearby recreation destinations such as Huntington, Cleveland, Millers Flat, and Rolfson Reservoirs and along the Millers Flat Road. Two scenic byway stops are visited (June-Oct) and the Millers Flat and Big Drift winter staging areas are used all winter.</p> | Present              | Dispersed camping, viewing scenery, driving for pleasure, OHV use, family reunions, fishing (open water and ice), snowmobiling, kite boarding, backcountry skiing all take place in this area resulting in a year-round human presence and impacts.                    |
| <p>Spraying individual spruce trees to prevent spruce beetle mortality near the campsites of Lake Canyon.</p>  | 2001-present         | Reduce mortality of selected spruce trees to maintain shade near campsites.  |

**Table C-3 Foreseeable Future Actions in and Adjacent to the Lake Fuels Project**

| Future Actions  | Estimated Implementation Dates | Anticipated Effects  |
|---|--------------------------------|--|
| <p><b>MINERALS/SPECIAL USES</b><br/>Dam safety repairs to Cleveland, Millers Flat, and Rolfson Reservoirs to meet safety requirements.</p>  | 2005-2015                      | Some disturbance of associated riparian vegetation. Possible establishment of conservation easements in one or more of these reservoirs. Additional fishing opportunities would result in increased recreation visitation. |
| <p><b>RANGELAND/VEGETATION</b><br/>Continued grazing in the Spring Lake and South Skyline Allotments. Noxious weed treatments continue.</p>   | Indefinite                     | Continued effects to understory vegetation. Range monitoring used to assess grazing effects and needed management actions. Noxious seed densities and spread decreased.  |
| <p><b>TRANSPORTATION</b><br/>Road maintenance of Millers Flat Road and other native surface Forest Roads in or near the project area.</p>   | Indefinite                     | Continued sediment production from native surface roads, even with annual maintenance.   |
| <p><b>RECREATION</b><br/>Containment of motorized use, closure and rehabilitation of unauthorized user created routes. Provide appropriate motorized access and reduce user conflict.</p>           | Indefinite                     | Increased human activity in the area year-round will result in the need for continued management actions. These actions are aimed at protecting natural resources.   |
| <p>Improvement of existing cabins and construction of new cabins on private lands. Potential for construction of new private roads for access to these facilities.</p>                              | Indefinite                     | Increased land disturbance, sediment production, and year-round human presence and activity. Wildlife may tend to avoid these areas when occupied.   |
| <p>Construction of a motorized trail connecting Lake Canyon Recreation Area with South Skyline Drive. This trail could conceivably be open to OHV's and the larger UTV (side by side) vehicles.</p> | 2008-09                        | Increased land disturbance and sediment production. Potential impact to sheep grazing management and less available forage. Improved public safety between these two destinations.   |
| <p>Widening of the Millers Flat Road south of the Lake Canyon Recreation Area.</p>  | Indefinite                     | Increased traffic volumes and mix of traffic on the Miller Flat Road may necessitate this action to provide for public safety.   |
| <p>Spraying individual spruce trees to prevent spruce beetle mortality.</p>   | Indefinite                     | Maintain shade at campsites.   |
| <p>Hazardous tree removal around campsites.</p>   | As needed, Indefinite          | Remove trees as they die and leave for public use as firewood. Reduced safety concerns at dispersed recreation sites.  |
| <p>Veratrum Californium Harvest</p>   | Approximately 3 years          | Partial Removal of Veratrum Californium under permit for cancer research   |