

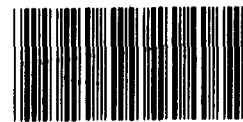
GAO

Report to the Chairman, Subcommittee  
on National Parks, Forests, and Public  
Lands, Committee on Natural Resources,  
House of Representatives

September 1993

# FEDERAL LAND MANAGEMENT

## Status and Uses of Wilderness Study Areas



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United States  
General Accounting Office  
Washington, D.C. 20548

Resources, Community, and  
Economic Development Division

B-252989

September 23, 1993

The Honorable Bruce F. Vento  
Chairman, Subcommittee on National  
Parks, Forests, and Public Lands  
Committee on Natural Resources  
House of Representatives

Dear Mr. Chairman:

Concerned about alleged degradation of areas being considered for possible inclusion in the National Wilderness Preservation System (wilderness study areas), you requested that we provide you with information on the types and effects of activities in these study areas. As agreed with your office, we gathered information on areas managed by two agencies: the Department of the Interior's Bureau of Land Management (BLM) and the Department of Agriculture's Forest Service. Specifically, this report provides information on (1) legislative guidance and the agency policies governing wilderness study area management, (2) the various activities and uses occurring in the agencies' study areas, (3) the ways these activities and uses affect the areas, and (4) agency actions to monitor and restrict these uses and to repair damage resulting from them.

Appendixes I and II provide data on the number, acreage, and locations of wilderness study areas managed by BLM and the Forest Service, as well as data on the types of uses occurring in the areas. Appendix III shows the various effects of these uses (e.g., damage to trails, destruction of vegetation).

In conducting our work, we reviewed pertinent legislation and BLM and Forest Service policies and procedures and discussed them with agency officials. In addition, we visited 33 study areas, 14 of which had been identified by agency officials and environmental groups as having the worst resource damage. Appendix IV provides details on our scope and methodology, including a list of the study areas we visited.

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## Results in Brief

Wilderness study areas are areas that have been identified, either by the Congress or by agency officials, as having certain characteristics, as identified in the 1964 Wilderness Act (16 U.S.C. 1131-1136). In a wilderness, according to this act, the forces of nature prevail, the imprint

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of humans is substantially unnoticeable, and exceptional opportunities for primitive recreation (e.g., hunting, fishing, hiking) abound. Accordingly, motor vehicles and mechanized equipment are generally prohibited in wilderness. Until the Congress decides which study areas to designate as wilderness and which to release from study area status, BLM and the Forest Service are to manage the areas so as not to impair their suitability for preservation as wilderness. Both BLM and the Forest Service have implemented policies designed to protect the wilderness characteristics of their study areas.

Notwithstanding this general mandate, the Congress has allowed for certain uses other than primitive recreation in wilderness study areas. For example, various types of motorized and mechanized recreation are allowed, such as riding all-terrain vehicles, motorcycles, snowmobiles, and mountain bikes. Such types of recreation occur in over 75 percent of wilderness study areas.

Surface disturbance or damage by motorized and mechanized vehicle use in study areas was cited as a concern by the managing agencies, as well as by environmental groups. In the study areas we visited, the surface disturbance and damage we saw was concentrated in relatively small, readily accessible areas (e.g., along trails or area boundaries). In some cases, it was clear that motorized or mechanized vehicles had caused the disturbance. In other cases, the use of such vehicles was only one of several contributing causes. According to agency officials, the surface disturbance and damage in areas we visited was not so severe as to impair an area's suitability for preservation as wilderness. On the other hand, environmentalists had expressed concerns that such uses were jeopardizing the areas' wilderness characteristics. The Wilderness Act generally defines wilderness, but the definition is so broad as to allow for various opinions about what constitutes "wilderness." Despite the different views about the effects of uses in study areas, the ultimate decision about wilderness designation rests with the Congress. Once an area is designated as wilderness, motorized and mechanized uses are generally prohibited.

Agency managers have at their disposal several mechanisms for managing wilderness study areas and for mitigating resource damage. For example, through various means agency managers monitor uses in the study areas, restrict uses if necessary, and repair any ensuing damage.



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## Background

A congressionally designated wilderness, as defined by the Wilderness Act of 1964, is an area where natural forces prevail and where people are visitors who do not remain. According to the act, a wilderness should be protected and managed to preserve its natural conditions. Despite this general operating framework, however, the Congress has authorized many activities—such as recreation, commercial outfitting and guide services, and livestock grazing—that can affect conditions in wilderness.

The 1964 act designated 54 areas, totaling about 9 million acres, as wilderness. The Congress has since added other federal land to the wilderness system. As of February 1993, the National Wilderness Preservation System included over 95 million acres. About 38 million acres are located in the contiguous United States and Hawaii; the remaining acreage, over 57 million acres, is located in Alaska.

Additional areas are being considered for possible inclusion in the wilderness system. Although the Wilderness Act did not require BLM to identify potential wilderness on its lands, section 603(a) of the 1976 Federal Land Policy and Management Act (FLPMA) directed the Secretary of the Interior to identify areas of BLM land that have wilderness characteristics and to ascertain the suitability or unsuitability of the areas for inclusion in the wilderness system. Only the Congress may release the areas identified under section 603 from wilderness consideration. Under section 202(c) of the act, the Secretary of the Interior may identify candidate wilderness areas through its land use planning process; the Secretary may release these areas from study area status if they are unsuitable for wilderness. As required by FLPMA, BLM's studies and recommendations for section 603 and 202 study areas have been sent to the President and he has sent these recommendations to the Congress.

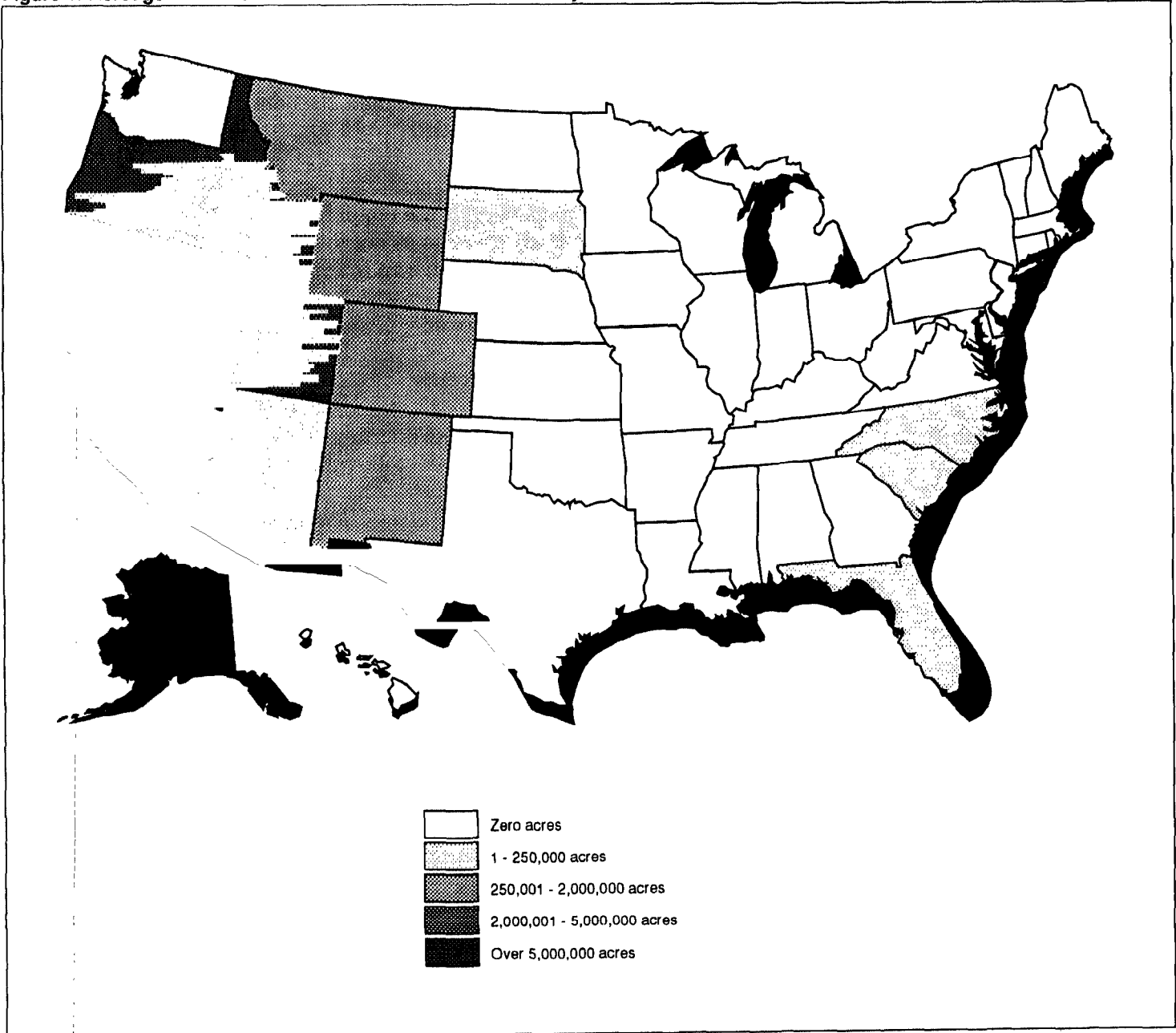
The Alaska National Interest Lands Conservation Act (ANILCA) of 1980 (P.L. 96-487) excluded public lands in Alaska from the Secretary's wilderness study program as mandated by section 603 of FLPMA. The one exception to this is a wilderness review of the Central Arctic Management Area specifically directed by ANILCA.

Under several other acts, the Congress also directed the Forest Service to study the suitability of certain areas for inclusion in the wilderness system. The Forest Service also may identify and study, through its forest plans, other areas for inclusion. Only the Congress may release the congressionally identified study areas. As with BLM, the Forest Service may release areas it identifies through its land use planning process.

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As of April 1993, BLM and the Forest Service managed 869 study areas, comprising almost 33 million acres, identified as having wilderness characteristics. Figure 1 shows the combined BLM and Forest Service study area acreage.

Figure 1: Acreage of BLM and Forest Service Wilderness Study Areas



Source: BLM and Forest Service data.

Together, the two agencies have recommended 414 of their study areas, either in total or in part, for wilderness designation. The recommended areas comprise over 14 million acres. BLM has recommended 336 of its 752 areas, and the Forest Service has recommended 78 of its 117 areas. Appendixes I and II provide detailed data, by state and study area, on the acreage studied and recommended.

## Legislative and Agency Policies Governing Wilderness Study Areas

Both BLM and the Forest Service are required, through various acts, to manage wilderness study areas so as not to impair their suitability for designation as wilderness. Through its Interim Management Policy, BLM has developed detailed guidance by which to manage study areas. The Forest Service has also developed guidance, although not in as much detail as has BLM.

## Legislative Guidance

According to section 2(c) of the Wilderness Act of 1964, a wilderness is defined as federal land that has the following characteristics.

“A wilderness, in contrast with those areas where man and his works dominate the landscape, is hereby recognized as an area where the earth and community of life are untrammeled by man, where man himself is a visitor who does not remain. An area of wilderness is further defined to mean . . . an area of undeveloped Federal land retaining its primeval character and influence, without permanent improvements or human habitation, which is protected and managed so as to preserve its natural conditions and which (1) generally appears to have been affected primarily by the forces of nature, with the imprint of man’s work substantially unnoticeable; (2) has outstanding opportunities for solitude or a primitive and unconfined type of recreation; (3) has at least five thousand acres of land or is of sufficient size as to make practicable its preservation and use in an unimpaired condition; and (4) may also contain ecological, geological, or other features of scientific, educational, scenic, or historical value.”

Although this definition provides some general guidelines for the characteristics a potential wilderness should have, it does not provide specific criteria. The phrases “untrammeled by man,” “retaining its primeval character,” and “man’s work substantially unnoticeable” are not precise. To preserve these characteristics, the act imposes restrictions on designated wilderness. For example, with certain exceptions, the act prohibits motorized equipment and mechanized transport, but it permits the development of privately owned minerals, access to private lands inside wilderness, grazing, and recreational use. Defining wilderness and determining what activities are allowed in potential wilderness are

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difficult because of different perceptions of what constitutes "wilderness." Ultimately then, a wilderness is whatever the Congress designates as wilderness, regardless of developments or activities that some may believe are not consistent with the definition of wilderness.

Because study areas have been identified as having wilderness characteristics, they too are to be managed so as to protect those characteristics. According to section 603(c) of FLPMA, BLM is to manage study areas, until they have been designated as wilderness or released from study status, ". . . so as not to impair the suitability of such areas for preservation as wilderness . . . ."

However, section 603(c) provides an exception to this nonimpairment standard for specific uses ("grandfathered" uses) that were occurring before the enactment of FLPMA in 1976. These uses are mining, livestock grazing, and mineral leasing, such as for oil and gas. These uses are allowed to continue in study areas in the manner and degree in which they were occurring as of October 1976, as long as they do not cause undue or unnecessary degradation of the land.

Other than these grandfathered uses, all others are to be managed using the nonimpairment standard. That is, while activities such as new mining and grazing may be allowed in study areas, they must not be allowed to impair the area's suitability for wilderness preservation.

Although FLPMA's wilderness guidance pertains only to BLM, the Forest Service has also received legislative guidance through a series of wilderness acts passed between 1972 and 1984. In these acts, the Congress specifically designated certain study areas. In addition, the Forest Service may identify and recommend additional areas through its forest planning process. Like FLPMA, these acts contain language requiring the Forest Service to manage study areas so as to protect their suitability for wilderness designation.

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## Agency Guidance

BLM implements FLPMA through its Interim Management Policy, which applies during the time an area is in study status. The Forest Service relies primarily on officials in individual forests to develop and implement their own management policies, as set out in their forest plans.

According to its Interim Management Policy, BLM is to manage study areas to ensure that their wilderness values are not degraded to such a degree

that the area is no longer suitable as wilderness. Activities that protect or enhance the land's wilderness values or that provide the minimum necessary facilities for public enjoyment of the wilderness values are allowed. For example, trails and sanitary facilities can be built for primitive recreational use. Certain temporary uses, such as motorized or mechanized recreation, are also allowed, but only if such uses can be terminated upon wilderness designation.

Forest Service guidance, similarly, requires that study areas be managed so as to protect their wilderness potential. According to this guidance, a study area ". . . is not available for any use or activity that may reduce the area's wilderness potential. Activities currently permitted may continue, pending designation, if the activities do not compromise wilderness values of the roadless area." Individual forests implement this general guidance through their forest plans.

## Various Uses Exist in Study Areas

We divided the major types of study area uses into three categories: (1) primitive recreation, such as hiking, backpacking, fishing, and hunting; (2) motorized and mechanized recreation, such as using off-road vehicles, all-terrain vehicles, snowmobiles, and mountain bikes; and (3) nonrecreational uses, such as mining, livestock grazing, and mineral leasing.

As shown in table 1, all of these major types of uses are occurring in wilderness study areas. (Apps. I and II provide detailed data on the types of uses occurring in each study area.)

**Table 1: Types of Uses in BLM and Forest Service Study Areas**

Type of use	Number of study areas in which use occurs		
	BLM	Forest Service	Total
Primitive recreation	629	116	745
Motorized and mechanized recreation	588	77	665
Nonrecreational	669	93	762

Of the 414 study areas recommended by BLM and the Forest Service, 307 areas have some motorized or mechanized use occurring in them.

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## Effects of the Various Uses

All of the uses occurring in study areas can affect the natural condition of the land. Most often, these uses cause surface disturbance or damage, including trail damage, soil erosion, loss of vegetation, and pollution.

We asked agency officials and environmental groups to identify the study areas that they considered the worst in terms of damage, and they identified 14 such areas. We then visited these 14 study areas, along with 19 other study areas that exhibited a range of surface disturbance. At the sites we visited in these study areas, effects tended to be concentrated in areas that were relatively small, most accessible, on the periphery of the study area, or along existing trails and routes. Appendix III contains additional discussion and photographs of such effects.

The concerns that the agencies and environmental groups expressed generally related to vehicular access to areas, either motorized or mechanical. For example, BLM's Moquith Mountain wilderness study area in Utah receives heavy motorized recreation use on the area's sand dunes. The motorized use has denuded some of the area of vegetation, leaving deep, dished-out areas. In BLM's Black Ridge Canyons wilderness study area in Colorado, one environmentalist cited mountain bike use as a concern. He feared that BLM's allowing the use will create a constituency that will oppose wilderness designation and that will expect mountain-biking to be allowed to continue in the area.

The cause of disturbances cannot always be readily identified. For example, where people are using motorized vehicles in open areas, the effects can be clearly attributed to that use. In other instances, such as those where this type of use occurs on existing trails along with primitive recreational use, the effects cannot be clearly attributed to any one use. In addition, these effects can be aggravated by poor trail placement.

Agency officials and environmental groups sometimes disagree about the severity of the effects. While agency officials said that the damage in the areas we visited was generally not so severe as to disqualify an area from wilderness candidacy, environmentalist groups believed that the damage was serious. The Wilderness Act's definition of wilderness is broad enough to allow for various opinions about what constitutes "wilderness."

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## Agency Actions

Both BLM and the Forest Service monitor and restrict uses and repair damage resulting from those uses. Agency actions vary, depending on

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local land managers' judgments, on specific circumstances within each study area, and available resources.

Monitoring actions may include patrolling, either by agency officials or by local law enforcement agencies; surveillance by volunteers; visiting sites of authorized activities; placing sign-in sheets at trailheads to monitor use; listening to complaints from users; and flying over study areas.

Actions taken by agency officials to restrict use may include closing areas to motorized use; redirecting use from damaged areas; restricting use to specific times or types of uses; educating users about allowed and nonallowed uses; assigning additional agency or law enforcement personnel to areas during high-use periods (such as the hunting season or holiday weekends) to enforce restrictions; and issuing citations to violators.

Actions taken by agency officials to repair damage include closing and redirecting trail use; repairing damaged portions of trails; requiring users, such as mining operators, to repair damaged land; and using volunteers to repair damaged land. For example, in 1991, volunteers from the American Motorcycle Association, at BLM's request, reclaimed a portion of the Hollow Hills wilderness study area, through which the 1989 Barstow-to-Las Vegas motorcycle race had been inadvertently routed.

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## Conclusions

The Congress has allowed many different uses, such as primitive recreation and grazing, to occur in wilderness and in wilderness study areas. Different users have different perspectives on what a wilderness should be and on what effects of use are acceptable in wilderness study areas. In the study areas we visited, the effects and damage we saw were concentrated in relatively small and accessible areas. Because people have various concepts about "wilderness," they will also have different opinions about the severity of "man's imprint" on potential and designated wilderness. However, the final decision about an area's suitability for wilderness rests with the Congress.

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## Agency Comments

We discussed this report with BLM and Forest Service officials, who agreed with the report's contents. As requested, we did not obtain written agency comments on a draft of this report.



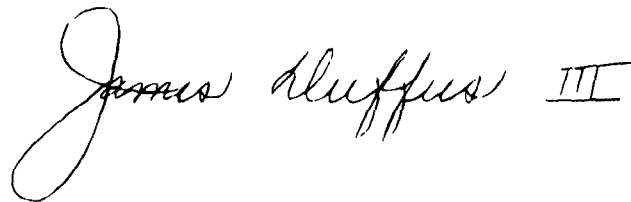
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We conducted our review from April 1992 through May 1993 in accordance with generally accepted government auditing standards. Our scope and methodology are presented in appendix IV.

Unless you publicly announce its contents earlier, we plan no further distribution of this report until 30 days after the date of this letter. At that time, we will send copies to the Secretaries of the Interior and Agriculture and will make copies available to others on request.

Please contact me at (202) 512-7756 if you or your staff have any questions. Major contributors to this report are listed in appendix V.

Sincerely yours,

A handwritten signature in cursive script that reads "James Duffus III". The signature is written in black ink and is positioned above the typed name.

James Duffus III  
Director, Natural Resources  
Management Issues

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**Abbreviations**

ANILCA	Alaska National Interest Lands Conservation Act
BLM	Bureau of Land Management
FLPMA	Federal Land Policy and Management Act
GAO	General Accounting Office
ISA	instant study area
NA	natural area
RARE II	Roadless Area Review and Evaluation II
WSA	wilderness study area

# Status and Uses of BLM Wilderness Study Areas

As of April 1993, the Bureau of Land Management (BLM) managed 752 wilderness study areas (WSAs), comprising 26.3 million acres, that were identified—through one of several means—as having potential for inclusion in the National Wilderness Preservation System. In addition, BLM manages 66 wildernesses, comprising 1.6 million acres. The study area acreage represents about 10 percent of the approximately 270 million total acres BLM manages. As of April 1993, BLM had recommended 9.5 million (or about 36.2 percent) of the study area acres for designation as wilderness.

Most of the study areas host a variety of uses. These include primitive recreation such as hiking, fishing, and horseback riding; motorized and mechanized recreation such as riding snowmobiles, motorcycles, and mountain bikes; and nonrecreational uses such as livestock grazing and mining.

## Status of BLM Study Areas

Of the 752 wilderness study areas, 603 were designated as WSAs under section 603 of the Federal Land Policy and Management Act (FLPMA). Accordingly, these areas require a congressional decision to release them from study area status. Of these areas, 23 had previously been identified as primitive or natural areas; FLPMA required that BLM include such areas in its wilderness review. These areas are called Instant Study Areas (ISA). Another 97 WSAs were designated under section 202 of FLPMA. BLM can release these areas from study if its approved land use plans for the areas do not recommend that the areas be designated as wilderness. The remaining 51 WSAs were created under both sections 603 and 202; that is, parts of the areas were designated under one section, and other parts under the other. The one study area mandated by the Alaska National Interest Lands Conservation Act (ANILCA) is to be administered to maintain its existing wilderness character until the Congress decides otherwise. As of April 1993, BLM's wilderness study areas have been in this status for an average of 12.6 years. Eighty-eight percent had been established as study areas by December 1982.

Of the 752 wilderness study areas, BLM has recommended that 336 (either in whole or in part), comprising 9.5 million acres, be designated as wilderness. From the section 603 WSAs, 8.3 million acres in 269 areas have been recommended for inclusion in the wilderness system. From the section 202 WSAs, approximately 167,000 acres in 35 areas have been recommended. From the combined section 603 and 202 WSAs, about 966,000 acres in 31 areas have been recommended. From the

**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

ANILCA-mandated study area, 41,000 acres have been recommended. Five study areas are still under consideration.

Table I.1 shows, by state, the number and acreage of BLM study areas, as well as the acreage recommended for wilderness designation.

**Table I.1: BLM Study Areas and Acreage Recommended for Wilderness Designation, by State**

State	Study areas		Areas and acreage recommended for wilderness designation		
	Number of areas	Number of acres	Number of areas	Number of acres	Percent of total
Alaska	1	3,680,000	1	41,000	1.1
Arizona	2	63,912	1	59,100	92.5
California <sup>a</sup>	209	7,080,332	62	2,263,267	32.0
Colorado	49 <sup>b</sup>	710,706	19	339,676	47.8
Idaho	67	1,789,745	27	965,693	54.0
Montana	40	448,943	15	170,637	38.0
Nevada	113	5,002,028	51	1,731,356	34.6
New Mexico	46	904,229	21	483,828	53.5
Oregon	92	2,789,275	49	1,270,545	45.6
Utah	90	3,256,119	69	1,954,623	60.0
Washington	1	5,518	0	0	0
Wyoming	42	573,445	21	238,701	41.6
<b>Total</b>	<b>752</b>	<b>26,304,252</b>	<b>336</b>	<b>9,518,426</b>	<b>36.2</b>

<sup>a</sup>California's numbers include Arizona and Nevada acreage studied in the California Statewide Wilderness Study.

<sup>b</sup>Does not include 8 BLM study areas which are being reviewed by the Forest Service as part of its study area acreage.

Table I.2 provides information on each study area. Table I.2 shows, by state, (1) the resource area in which each study area is located; (2) the action that created the study area; (3) the date of the action creating the study area; (4) the area's acreage; and (5) the area acreage, if any, that has been recommended for inclusion in the wilderness system.

**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

**Table I.2: BLM Study Areas' Location, Creation, and Acreage Recommended for Wilderness Designation**

<b>State</b>	<b>Study area</b>	<b>Resource area</b>	<b>Action that created study area</b>	<b>Date of action</b>	<b>Study area acreage</b>	<b>Acreage recommended for wilderness</b>
Alaska	Central Arctic Management Area	Arctic (District)	ANILCA	1980	3,680,000	41,000
Ariz.	Baker Canyon	San Simon	Section 603	1981	4,812	0
Ariz.	Big Maria Mountains N. Addition	Yuma	Section 603	1984	495	0
Ariz.	Big Maria Mountains S. Addition	Yuma	Section 603	1984	1,431	0
Ariz.	Cactus Plain	Havasu	Section 603	1981	59,100	59,100
Ariz.	Chemehuevi Mountains Addition	Havasu	Section 603	1981	193	0
Ariz.	Chemehuevi/Needles Addition	Havasu	Section 603	1981	938	938
Ariz.	Dead Mountains N. Addition	Havasu	Section 603	1981	2,029	0
Ariz.	Dead Mountains S. Addition	Havasu	Section 603	1981	903	0
Ariz.	Little Picacho Peak Addition	Yuma	Section 603	1984	2,925	0
Ariz.	Peloncillo Mountains	Mimbres	Section 603	1982	4,061	0
Ariz.	Whipple Mountains Addition	Havasu	Section 603	1981	1,463	1,343
Calif.	Agua Tibia	Indio	Section 202	1982	344	344
Calif.	Amboy Crater	Needles/ Barstow	Section 603	1976	12,527	0
Calif.	Antelope Spring	Ridgecrest	Section 202	1976	1,054	0
Calif.	Avawatz Mountains	Barstow	Section 603	1976	101,000	0
Calif.	Beauty Mountain	Indio	Section 603	1982	11,364	0
Calif.	Big Butte	Arcata	Section 202	1982	2,408	0
Calif.	Big Maria Mountains	Indio	Section 603	1976	66,529	0
Calif.	Bigelow Cholla Garden	Needles	Section 603	1976	10,105	0
Calif.	Bighorn Mountains	Barstow	Section 603	1976	52,593	11,068
Calif.	Bitterbrush ISA	Eagle Lake	Section 603	1976	640	0
Calif.	Black Mountain	Barstow	Section 603	1976	8,986	0
Calif.	Blackwater Well	Ridgecrest	Section 603	1976	7,896	0
Calif.	Bodie	Bishop	Section 603	1983	16,482	0
Calif.	Bodie Mountain	Bishop	Section 603	1983	23,934	0
Calif.	Bristol/Granite Mountains	Needles	Section 202	1976	107,256	43,232
Calif.	Cady Mountains	Barstow	Section 603	1976	77,015	0
Calif.	Caliente Mountain	Caliente	Section 603	1982	17,590	0

(continued)



**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

<b>State</b>	<b>Study area</b>	<b>Resource area</b>	<b>Action that created study area</b>	<b>Date of action</b>	<b>Study area acreage</b>	<b>Acreage recommended for wilderness</b>
Calif.	Carrizo Gorge	El Centro	Section 603	1978	15,408	15,408
Calif.	Casa Diablo	Bishop	Section 603	1983	5,325	0
Calif.	Castle Peaks	Needles	Section 603	1976	47,343	43,519
Calif.	Cedar Roughs	Clear Lake	Section 603	1981	5,875	0
Calif.	Cerro Gordo	Bishop	Section 603	1983	14,079	0
Calif.	Cerro Gordo Peak	Ridgecrest	Section 603	1976	54,081	0
Calif.	Chemehuevi Mountains	Needles	Section 603	1976	61,853	61,853
Calif.	Chemise Mountain	Arcata	Sections 202 & 603	1982	4,143	4,143
Calif.	Chidago Canyon	Bishop	Section 603	1983	19,702	0
Calif.	Chuckwalla Mountains	Indio	Section 603	1976	146,009	57,030
Calif.	Cima Dome	Needles	Section 603	1976	20,989	0
Calif.	Cinder Cones	Needles	Section 603	1976	53,543	41,701
Calif.	Clark Mountain	Needles	Section 603	1976	14,275	0
Calif.	Cleghorn Lakes	Barstow	Section 603	1976	26,324	0
Calif.	Clipper Mountains	Needles	Section 603	1976	43,448	0
Calif.	Coso Range	Ridgecrest	Section 603	1976	26,486	0
Calif.	Cottonwood Creek	Ridgecrest	Section 202	1976	6,466	0
Calif.	Cow Heaven	Ridgecrest	Section 603	1976	8,155	0
Calif.	Coxcomb Mountains	Indio	Section 603	1976	70,993	52,782
Calif.	Coyote Mountains	El Centro	Section 603	1976	10,954	0
Calif.	Crater Mountain	Bishop	Section 603	1983	7,069	0
Calif.	Darwin Falls	Ridgecrest	Section 603	1976	7,438	0
Calif.	Dead Mountains	Needles	Section 603	1976	34,727	0
Calif.	Deer Spring	Needles	Section 202	1976	2,293	0
Calif.	Domeland	Caliente	Section 202	1981	2,223	0
Calif.	Eagle Mountains	Indio	Section 603	1976	58,462	51,434
Calif.	Eden Valley	Arcata	Section 603	1982	6,166	0
Calif.	Eight-Mile Tank	Needles	Section 603	1976	22,473	0
Calif.	El Paso Mountains	Ridgecrest	Section 603	1976	20,674	13,986
Calif.	Essex	Needles	Section 603	1976	13,331	0
Calif.	Excelsior	Bishop	Section 603	1983	9,383	0
Calif.	Fish Creek Mountains	El Centro	Section 603	1976	17,626	15,359
Calif.	Fish Slough	Bishop	Section 603	1983	14,700	0
Calif.	Five Springs	Eagle Lake	Section 603	1984	47,823	0
Calif.	Fort Piute	Needles	Section 603	1976	46,086	34,854
Calif.	Frog Creek	Ridgecrest	Section 603	1976	10,399	0

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Calif.	Funeral Mountains	Barstow	Section 603	1976	55,100	23,004
Calif.	Garcia Mountain	Caliente	Section 202	1981	80	0
Calif.	Golden Valley	Ridgecrest	Section 603	1976	39,405	29,113
Calif.	Granite Mountain	Bishop	Section 603	1983	54,178	0
Calif.	Grass Valley	Ridgecrest	Section 603	1976	15,098	0
Calif.	Great Falls Basin	Ridgecrest	Section 603	1976	6,039	0
Calif.	Greenwater Range	Barstow	Section 603	1976	145,454	0
Calif.	Greenwater Valley	Barstow	Section 603	1976	58,500	22,811
Calif.	Hauser Mountain	Indio	Section 603	1982	5,540	0
Calif.	Hollow Hills	Needles/ Barstow	Section 603	1976	29,187	0
Calif.	Horse Canyon	Ridgecrest	Section 202	1976	4,595	0
Calif.	Hunter Mountain	Ridgecrest	Section 603	1976	26,609	20,030
Calif.	Ibex Hills	Barstow	Section 603	1976	39,111	0
Calif.	Ibex Spring	Barstow	Section 202	1976	2,669	0
Calif.	Independence Creek	Bishop	Section 603	1983	6,458	0
Calif.	Indian Pass (Julian Wash)	El Centro	Section 603	1976	31,493	30,602
Calif.	Inyo Mountains	Ridgecrest/ Bishop	Section 603	1976	106,235	58,392
Calif.	Jacumba	El Centro	Section 603	1976	30,611	26,128
Calif.	Kelso Dunes	Needles	Section 603	1976	156,422	49,065
Calif.	Kelso Mountains	Needles	Section 603	1976	74,992	0
Calif.	Kelso Peak	Ridgecrest	Section 603	1976	7,297	0
Calif.	King Range	Arcata	Section 603	1984	33,485	20,248
Calif.	Kingston Range	Needles/ Barstow	Section 603	1976	282,931	34,369
Calif.	Last Chance Mountain	Ridgecrest	Section 603	1976	40,254	0
Calif.	Lava	Alturas	Section 603	1981	10,770	0
Calif.	Lava Hills	Needles	Section 603	1976	23,141	0
Calif.	Little Chuckwalla Mountains	Indio	Section 603	1976	44,889	0
Calif.	Little Lake Canyon	Ridgecrest	Section 603	1976	33,044	32,225
Calif.	Little Picacho Peak	El Centro	Section 603	1976	39,547	0
Calif.	Little Sand Spring	Ridgecrest	Section 603	1976	35,792	35,792
Calif.	Lower Saline Valley	Ridgecrest	Section 603	1976	6,418	2,154
Calif.	Machesna	Caliente	Section 202	1981	70	0
Calif.	Magee-Atkins	Needles	Section 603	1976	13,371	0
Calif.	Manly Peak	Ridgecrest	Section 603	1976	31,754	0
Calif.	Marble Mountains	Needles	Section 603	1976	36,455	0
Calif.	Masonic Mountain	Bishop	Section 603	1983	6,493	0

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Calif.	McAfee Creek	Ridgecrest	Section 202	1976	438	0
Calif.	Mecca Hills	Indio	Section 603	1976	18,175	7,199
Calif.	Merced River	Folsom	Section 603	1985	12,959	0
Calif.	Mesquite Mountains	Needles	Section 603	1976	50,957	0
Calif.	Mesquite Spring	Needles	Section 603	1976	18,648	0
Calif.	Mid Hills	Needles	Section 603	1976	16,979	0
Calif.	Middle Park Canyon	Ridgecrest	Section 603	1976	9,538	0
Calif.	Milk Ranch/Case Mountain	Caliente	Section 202	1981	8,970	0
Calif.	Mormon Meadow	Bishop	Section 603	1983	7,721	0
Calif.	Morongo	Barstow	Section 603	1976	6,410	6,410
Calif.	Mount Biedeman	Bishop	Section 603	1983	13,069	0
Calif.	N.W. Fishlake Valley	Ridgecrest	Section 603	1976	14,737	0
Calif.	New York Mountains	Needles	Section 603	1976	43,980	0
Calif.	Newberry Mountains	Barstow	Section 603	1976	24,369	20,291
Calif.	Nopah Range	Barstow	Section 603	1976	126,919	79,868
Calif.	North Algodones Dunes	El Centro	Section 603	1976	26,656	25,716
Calif.	North Argus Range	Ridgecrest	Section 603	1976	27,348	0
Calif.	North Coso Range	Ridgecrest	Section 603	1976	10,103	0
Calif.	North Death Valley	Ridgecrest	Section 603	1976	13,302	0
Calif.	North Mesquite Mountains	Needles	Section 603	1976	28,124	0
Calif.	North Tip	Ridgecrest	Section 202	1976	252	0
Calif.	Old Dad Mountain	Needles	Section 603	1976	57,036	0
Calif.	Old Woman Mountains	Needles	Section 603	1976	116,505	0
Calif.	Orocopia Mountains	Indio	Section 603	1976	50,356	28,207
Calif.	Owens Peak <sup>a</sup>	Caliente	Section 603	1981	24,128	15,897
Calif.	Owens Peak <sup>a</sup>	Ridgecrest	Section 603	1976	53,158	26,908
Calif.	Owlshead Mountains	Barstow	Section 603	1976	125,339	121,912
Calif.	Pahrump Valley	Barstow	Section 603	1976	34,289	0
Calif.	Palen/McCoy	Indio	Section 603	1976	268,917	75,665
Calif.	Palo Verde Mountains	El Centro	Section 603	1976	28,293	0
Calif.	Panamint Dunes	Ridgecrest	Section 603	1976	106,807	90,626
Calif.	Panoche Hills North	Hollister	Section 603	1982	6,631	0
Calif.	Panoche Hills South	Hollister	Section 603	1982	11,229	0
Calif.	Picacho Peak (Gavilan)	El Centro	Section 603	1976	5,958	3,779
Calif.	Pilot Peak	Needles	Section 603	1976	30,526	0
Calif.	Pinnacles	Hollister	Section 603	1982	5,949	1,983

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Calif.	Pinto Basin	Indio	Section 202	1976	3,604	0
Calif.	Pinto Mountains	Barstow	Section 603	1976	31,878	0
Calif.	Piper Mountain	Ridgecrest	Section 603	1976	70,793	0
Calif.	Pit River Canyon	Alturas	Section 603	1980	10,984	6,703
Calif.	Piute Cypress	Caliente	Section 603	1981	3,453	0
Calif.	Piute Mountains	Needles	Section 603	1976	20,279	0
Calif.	Providence Mountains	Needles	Section 603	1976	61,946	59,679
Calif.	Rainbow Wells	Needles	Section 603	1976	21,887	0
Calif.	Red Mountain <sup>a</sup>	Arcata	Sections 202 & 603	1985	6,244	0
Calif.	Red Mountain <sup>a</sup>	Ridgecrest	Section 603	1976	6,561	0
Calif.	Resting Spring Range	Barstow	Section 603	1976	100,960	0
Calif.	Rice Valley	Indio	Section 603	1976	48,133	0
Calif.	Rockhouse	Caliente	Section 202	1981	130	0
Calif.	Rocky Creek-Cache Creek	Clear Lake	Section 603	1981	33,561	0
Calif.	Rodman Mountains	Barstow	Section 603	1976	29,919	17,630
Calif.	Sacatar Meadows	Caliente	Section 603	1981	17,460	10,721
Calif.	Sacramento Mountains	Needles	Section 603	1976	34,582	0
Calif.	Saddle Peak Mountains	Barstow	Section 603	1976	9,134	0
Calif.	Saline Dunes	Ridgecrest	Section 603	1976	6,311	0
Calif.	Saline Valley	Ridgecrest	Section 603	1976	450,727	392,643
Calif.	San Benito Mountain ISA	Hollister	Section 603	1976	1,500	0
Calif.	San Felipe Hills	El Centro	Section 603	1982	5,325	0
Calif.	San Ysidro Mountain	El Centro	Section 202	1982	2,125	0
Calif.	Santa Rosa Mountains	Indio	Section 603	1976	47,417	47,141
Calif.	Sawtooth Mountains A	El Centro	Section 202	1978	3,883	0
Calif.	Sawtooth Mountains B	El Centro	Section 603	1978	25,791	22,875
Calif.	Sawtooth Mountains C	El Centro	Section 202	1978	2,454	0
Calif.	Shadow Valley	Needles	Section 603	1976	9,660	0
Calif.	Sheep Ridge	Caliente	Section 202	1981	5,102	0
Calif.	Sheephole/Cadiz	Needles	Section 603	1976	155,069	0
Calif.	Ship Mountains	Needles	Section 603	1976	24,756	0
Calif.	Signal Hill	Needles	Section 603	1976	35,693	0
Calif.	Silurian Valley	Barstow	Section 603	1976	18,318	0
Calif.	Skedaddle	Eagle Lake	Section 603	1984	61,422	37,055
Calif.	Skinner Peak	Ridgecrest	Section 202	1976	1,586	0
Calif.	Slate Range	Ridgecrest	Section 603	1976	100,565	44,536

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Calif.	Sleeping Beauty Mountains	Barstow	Section 603	1976	23,282	0
Calif. /Nev.	Slinkard	Bishop	Section 603	1983	6,268	0
Calif.	Soda Mountains	Barstow	Section 603	1976	118,537	0
Calif.	South Algodones Dunes	El Centro	Section 603	1976	51,375	0
Calif.	South Avawatz Mountains	Barstow	Section 603	1976	26,621	0
Calif.	South Bristol Mountains	Needles	Section 603	1976	27,056	0
Calif.	South Nopah Range	Barstow	Section 603	1976	5,759	0
Calif.	South Providence Mountains	Needles	Section 603	1976	31,590	24,238
Calif.	South Saddle Peak Mountains	Barstow	Section 603	1976	6,190	0
Calif.	South Warner Contiguous	Cedarville	Section 202	1980	4,330	1,161
Calif.	Southern Inyo	Bishop	Section 603	1981	36,901	28,291
Calif.	Southern Otoy Mountain	Indio	Section 603	1982	8,055	6,783
Calif.	Stateline	Needles	Section 603	1976	8,764	0
Calif.	Stepladder Mountains	Needles	Section 603	1976	125,754	0
Calif.	Surprise Canyon	Ridgecrest	Section 603	1976	58,398	0
Calif.	Sylvania Mountains	Ridgecrest	Section 603	1976	18,984	0
Calif.	Symmes Creek	Bishop	Section 603	1983	7,694	0
Calif.	Table Mountain <sup>a</sup>	El Centro	Section 202	1978	1,018	0
Calif.	Table Mountain <sup>a</sup>	Needles	Section 603	1976	8,452	0
Calif.	Teutonia Peak	Needles	Section 202	1976	2,783	0
Calif.	Thatcher Ridge	Arcata	Section 603	1982	16,918	0
Calif.	Timbered Crater	Alturas	Section 603	1981	17,896	0
Calif.	Toler Creek	Ridgecrest	Section 202	1976	1,122	0
Calif.	Tule Mountain	Alturas	Section 603	1980	16,998	0
Calif.	Tunnison Mountain	Eagle Lake	Section 603	1984	19,884	7,889
Calif.	Turtle Mountains	Needles	Section 603	1976	264,272	116,480
Calif.	Valley View	Needles	Section 202	1976	3,233	0
Calif.	Ventana Contiguous	Hollister	Section 202	1981	676	0
Calif.	Volcanic Tablelands	Bishop	Section 603	1983	12,499	0
Calif.	Walford Springs	Bishop	Section 603	1983	12,840	0
Calif.	Waucoba Wash	Ridgecrest	Section 603	1976	14,115	0
Calif.	Western Otoy Mountain	Indio	Section 603	1982	5,758	4,323
Calif.	Whipple Mountains	Needles	Section 603	1976	87,333	72,063
Calif.	White Mountain	Ridgecrest	Section 603	1976	8,766	0
Calif.	Whitewater	Indio	Section 603	1976	13,876	11,039
Calif.	Wildrose Canyon	Ridgecrest	Section 603	1976	41,787	14,079

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Calif.	Woods Mountains	Needles	Section 603	1976	44,162	0
Calif.	Wyman Creek	Ridgecrest	Section 603	1976	7,292	0
Calif.	Yolla Bolly Contiguous	Redding	Section 202	1981	646	0
Colo.	Adobe Badlands	Uncompahgre Basin	Section 603	1984	10,425	0
Colo.	American Flats	Gunnison Basin	Section 202	1981	4,790	1,494
Colo.	Ant Hills	Little Snake	Section 202	1983	4,354	0
Colo.	Beaver Creek	Royal Gorge	Section 603	1981	26,150	20,750
Colo.	Bill Hare Gulch	Gunnison Basin	Section 202	1981	406	0
Colo.	Black Mountain	White River	Section 603	1981	9,932	0
Colo.	Black Ridge Canyons	Grand Junction	Section 603	1984	18,143	17,560
Colo.	Browns Canyon	Royal Gorge	Section 603	1981	6,614	6,614
Colo. /Utah	Bull Canyon	Book Cliffs	Section 603	1981	520	480
Colo.	Bull Gulch	Glenwood Springs	Section 603	1980	15,000	10,414
Colo.	Cahone Canyon	San Juan	Section 603	1981	8,960	0
Colo.	Camel Back	Uncompahgre Basin	Section 603	1984	14,402	0
Colo.	Castle Peak	Glenwood Springs	Section 603	1980	11,940	0
Colo.	Chew Winter Camp	Little Snake	Section 202	1983	1,320	0
Colo. /Utah	Cross Canyon	San Juan	Section 603	1981	1,008	0
Colo.	Cross Mountain	Little Snake	Section 603	1981	14,081	14,081
Colo.	Demaree Canyon	Grand Junction	Section 603	1984	21,050	0
Colo. /Utah	Diamond Breaks	Little Snake	Section 603	1983	31,480	31,420
Colo.	Dolores River Canyon	San Juan	Section 603	1981	28,668	28,468
Colo.	Dominguez Canyon	Uncompahgre Basin/Grand Junction	Section 603	1984	75,800	73,555
Colo.	Eagle Mountain	Glenwood Springs	Section 202	1980	330	330
Colo.	Gunnison Gorge	Uncompahgre Basin	Section 603	1984	21,198	21,198
Colo.	Hack Lake	Glenwood Springs	Section 202	1980	10	10
Colo.	Handies Peak	Gunnison Basin	Section 603	1981	16,664	0
Colo.	Larson Creek	Gunnison Basin	Section 202	1981	902	0
Colo.	Little Book Cliffs	Grand Junction	Section 603	1984	26,525	0
Colo.	Lower Grape Creek	Royal Gorge	Section 603	1981	11,220	0
Colo.	McIntyre Hills	Royal Gorge	Section 603	1981	16,650	0

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Colo.	Mckenna Peak	San Juan	Section 603	1981	19,398	0
Colo.	Menefee Mountain	San Juan	Section 603	1981	7,089	0
Colo.	Oil Spring Mountain	White River	Section 603	1981	17,740	0
Colo.	Peterson Draw	Little Snake	Section 202	1983	5,160	0
Colo.	Platte River Contiguous	Kremmling	Section 202	1988	30	30
Colo.	Redcloud Peak	Gunnison Basin	Section 603	1981	36,722	0
Colo.	San Luis Hills	San Luis	Section 603	1981	10,240	0
Colo.	Sand Castle	San Luis	Section 202	1981	1,284	0
Colo.	Sewemup Mesa	San Juan/ Grand Junction	Section 603	1984	19,140	18,835
Colo.	Skull Creek	White River	Section 603	1981	13,740	13,740
Colo.	Tabeguache Creek	San Juan	Section 603	1984	7,769	7,722
Colo.	The Palisade	Grand Junction	Section 603	1984	26,050	0
Colo.	Troublesome	Kremmling	Section 603	1980	8,250	0
Colo.	Upper Grape Creek	Royal Gorge	Section 603	1981	10,200	0
Colo.	Vale of Tears	Little Snake	Section 202	1983	7,420	0
Colo.	Weber Mountain	San Juan	Section 603	1981	6,303	0
Colo. /Utah	West Cold Spring	Diamond Mountain	Section 603	1983	3,200	0
Colo.	Willow Creek	White River	Section 603	1981	13,368	13,368
Colo.	Windy Gulch	White River	Section 603	1981	12,274	0
Colo. /Utah	Wrigley Mesa/Black Ridge Canyons West	San Juan	Section 603	1984	4,880	4,880
Idaho	Appendicitis Hill	Big Butte	Section 603	1981	21,900	0
Idaho	Battle Creek	Bruneau	Section 603	1981	32,180	32,100
Idaho	Bear Den Butte	Monument	Section 603	1982	9,700	0
Idaho	Big Jacks Creek	Bruneau	Section 603	1981	54,833	44,525
Idaho	Big Willow Spring	Owyhee	Section 603	1981	6,210	0
Idaho	Black Butte	Bennett Hills	Section 202	1981	4,068	0
Idaho	Black Canyon <sup>a</sup>	Big Butte	Section 603	1981	5,400	0
Idaho	Black Canyon <sup>a</sup>	Bennett Hills	Section 603	1981	10,371	0
Idaho	Borah Peak	Challis	Section 202	1981	3,100	3,100
Idaho	Boulder Creek	Challis	Section 202	1981	1,930	0
Idaho	Box Creek	Cascade	Section 202	1981	440	0
Idaho	Bruneau River - Sheep Creek	Bruneau	Section 603	1982	104,406	20,800
Idaho	Burnt Creek	Challis	Section 603	1981	24,980	8,300
Idaho	Cedar Butte	Big Butte	Section 603	1981	35,700	0

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Idaho	China Cup Butte ISA	Big Butte	Section 603	1976	160	0
Idaho	Corral-Horse Basin	Challis	Section 603	1981	48,500	0
Idaho	Crystal Lake	Emerald Empire	Section 603	1981	9,027	0
Idaho	Deer Creek	Bennett Hills	Section 603	1981	7,487	0
Idaho	Duncan Creek	Bruneau	Section 603	1981	10,005	8,760
Idaho	Eighteenmile	Lemhi	Section 603	1982	24,922	14,796
Idaho	Friedman Creek	Monument	Section 603	1981	9,773	0
Idaho	Goldburg	Lemhi	Section 202	1981	3,290	0
Idaho	Gooding City of Rocks East	Bennett Hills	Section 603	1981	14,743	13,063
Idaho	Gooding City of Rocks West	Bennett Hills	Section 603	1981	6,287	6,287
Idaho	Grandmother Mountain	Emerald Empire	Section 603	1981	17,129	0
Idaho	Great Rift ISA	Monument	Section 603	1976	380,200	346,800
Idaho	Hawley Mountain	Big Butte	Section 603	1981	15,510	0
Idaho	Hell's Half Acre	Big Butte	Section 603	1981	66,200	66,200
Idaho	Henrys Lake	Medicine Lodge	Section 202	1982	350	340
Idaho	Jarbidge River	Jarbidge	Section 603	1981	75,118	16,740
Idaho	Jerry Peak	Challis	Section 603	1981	46,150	26,750
Idaho	Jerry Peak West	Challis	Section 603	1981	13,530	0
Idaho	Juniper Creek	Owyhee/ Bruneau	Section 603	1981	13,150	12,950
Idaho	King Hill Creek	Cascade	Section 603	1981	29,309	0
Idaho	Lava	Monument	Section 603	1981	23,680	0
Idaho	Little City of Rocks	Bennett Hills	Section 603	1981	5,875	0
Idaho	Little Deer	Monument	Section 603	1982	33,531	0
Idaho	Little Jacks Creek	Bruneau	Section 603	1981	58,040	32,970
Idaho	Little Owyhee River	Owyhee	Section 603	1981	24,600	8,460
Idaho	Little Wood River	Monument	Section 202	1981	4,265	4,265
Idaho	Lookout Butte	Owyhee	Section 603	1981	34,400	0
Idaho	Lower Salmon Falls Creek	Snake River	Section 202	1982	3,500	0
Idaho	Marshall Mountain	Cottonwood	Section 603	1981	5,804	0
Idaho	Middle Fork Owyhee River	Owyhee	Section 603	1981	14,820	0
Idaho	North Fork Owyhee River	Owyhee	Section 603	1981	50,750	40,910
Idaho	Owyhee River-Deep Creek	Owyhee/ Bruneau	Section 603	1981	72,720	68,470
Idaho	Owyhee River Canyon	Owyhee	Section 603	1981	34,980	34,980
Idaho	Petticoat Peak	Pocatello	Section 603	1981	11,298	0
Idaho	Pole Creek	Bruneau	Section 603	1981	24,509	0
Idaho	Raven's Eye	Monument	Section 603	1982	67,110	67,110

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<b>State</b>	<b>Study area</b>	<b>Resource area</b>	<b>Action that created study area</b>	<b>Date of action</b>	<b>Study area acreage</b>	<b>Acreage recommended for wilderness</b>
Idaho	Sand Butte	Monument	Section 603	1982	20,792	20,792
Idaho	Sand Mountain	Medicine Lodge	Section 603	1982	21,100	0
Idaho	Selkirk Crest	Emerald Empire	Section 202	1981	720	0
Idaho	Shale Butte	Monument	Section 603	1982	15,968	0
Idaho	Sheep Creek East	Bruneau	Section 603	1981	5,050	0
Idaho	Sheep Creek West	Bruneau	Section 603	1981	11,680	11,680
Idaho	Shoshone	Bennett Hills	Section 603	1982	6,914	0
Idaho	Snake River Birds of Prey ISA	Cascade/ Owyhee	Section 603	1976	26,713	0
Idaho	Snake River Islands	Medicine Lodge	Section 603	1982	770	0
Idaho	Snowhole Rapids	Cottonwood	Section 603	1981	5,068	0
Idaho	South Fork Owyhee River	Owyhee	Section 603	1981	43,790	44,955
Idaho	Squaw Creek Canyon	Owyhee	Section 603	1981	10,780	0
Idaho	Upper Deep Creek	Bruneau/ Owyhee	Section 603	1981	11,510	0
Idaho	West Fork Red Canyon	Owyhee	Section 603	1981	12,970	0
Idaho	White Knob Mountains	Big Butte	Section 603	1981	9,950	0
Idaho	Worm Creek	Pocatello	Section 202	1981	40	40
Idaho	Yatahoney Creek	Owyhee/ Bruneau	Section 603	1981	9,990	9,550
Mont.	Antelope Creek	Phillips	Section 603	1981	12,350	9,600
Mont.	Axolotl Lakes	Dillon	Section 603	1981	7,804	0
Mont.	Beaver Meadows	Great Falls	Section 202	1981	595	Under study
Mont.	Bell-Limekiln Canyons	Dillon	Section 603	1981	9,650	0
Mont.	Big Horn Tack-on	Billings	Section 202	1981	2,470	3,308
Mont.	Billy Creek	Big Dry	Section 202	1981	3,450	0
Mont.	Bitter Creek	Valley	Section 603	1983	59,660	0
Mont.	Black Sage	Headwaters	Section 603	1980	5,926	0
Mont.	Blacktail Mountains	Dillon	Section 603	1980	17,479	10,586
Mont.	Bridge Coulee	Big Dry	Section 603	1981	5,900	0
Mont.	Buffalo Creek	Powder River	Section 603	1981	5,650	0
Mont.	Burnt Lodge	Phillips/ Valley	Section 603	1981	13,730	13,730
Mont.	Burnt Timber Canyon	Billings	Section 202	1981	3,430	3,430
Mont.	Centennial Mountains ISA	Dillon	Section 603	1976	27,691	23,054
Mont.	Cow Creek	Havre	Section 603	1981	34,050	21,590
Mont.	Dog Creek South	Judith	Section 603	1981	5,150	0
Mont.	East Fork Blacktail Deer Creek	Dillon	Section 603	1980	6,230	0
Mont.	Elkhorn	Headwaters	Section 202	1981	3,585	Under study
Mont.	Ervin Ridge	Havre	Section 603	1981	10,200	0

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Mont.	Farlin Creek	Dillon	Section 202	1981	1,139	610
Mont.	Henneberry Ridge	Dillon	Section 603	1981	9,806	0
Mont.	Hidden Pasture Creek	Dillon	Section 603	1981	15,509	0
Mont.	Hoodoo Mountain	Garnet	Section 603	1982	11,380	0
Mont.	Humbug Spires ISA	Headwaters	Section 603	1976	11,175	8,791
Mont.	Musselshell Breaks	Big Dry	Section 603	1981	8,650	0
Mont.	North Fork Sun River	Great Falls	Section 202	1981	196	Under study
Mont.	Pryor Mountain	Billings	Section 603	1981	12,575	12,575
Mont.	Quigg West	Garnet	Section 202	1982	520	520
Mont.	Ruby Mountains	Dillon	Section 603	1980	26,611	15,615
Mont.	Seven Blackfoot	Big Dry	Sections 202 & 603	1981	20,330	5,710
Mont.	Sleeping Giant/Sheep Creek	Headwaters	Sections 202 & 603	1980	10,454	10,454
Mont.	Square Butte ISA	Judith	Section 603	1976	1,947	0
Mont.	Stafford	Havre	Section 202	1981	4,800	0
Mont.	Terry Badlands	Big Dry	Section 603	1981	42,950	31,064
Mont.	Tobacco Root Tack-ons	Dillon	Section 202	1981	860	Under study
Mont.	Twin Coulee	Billings	Section 603	1981	6,870	0
Mont.	Wales Creek	Garnet	Section 603	1982	11,580	0
Mont.	Woodhawk	Judith	Section 603	1981	8,100	0
Mont.	Yellowstone River Island	Headwaters	Section 603	1980	53	0
Mont.	Zook Creek	Powder River	Section 603	1981	8,438	0
Nev.	Alder Creek	Paradise - Denio	Section 603	1981	5,142	0
Nev.	Antelope Range	Shoshone - Eureka	Section 603	1981	43,700	38,900
Nev.	Arrow Canyon Range	State Line	Section 603	1981	32,853	0
Nev.	Augusta Mountains	Sonoma - Gerlach	Section 603	1981	89,372	0
Nev.	Bad Lands	Wells	Section 603	1983	9,426	8,415
Nev.	Black Rock Desert	Paradise - Denio	Section 603	1981	319,594	219,300
Nev.	Blue Eagle	Tonopah	Section 603	1981	59,560	0
Nev.	Blue Lakes	Paradise - Denio	Section 603	1981	20,508	16,400
Nev.	Bluebell	Wells	Section 603	1980	55,665	0
Nev.	Buffalo Hills	Cedarville	Section 603	1984	46,143	0
Nev.	Burbank Canyons	Walker	Section 603	1983	13,395	0
Nev.	Calico Mountains	Sonoma	Section 603	1981	67,647	0
Nev.	Carson-Iceberg	Folsom	Section 202	1983	550	550
Nev.	Cedar Ridge	Elko	Section 603	1983	10,009	0

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Nev.	China Mountain	Sonoma - Gerlach	Section 603	1981	10,358	0
Nev.	Clan Alpine Mountains	Lahontan	Section 603	1981	196,128	68,458
Nev.	Clover Mountains	Caliente	Section 603	1983	84,932	84,872
Nev.	Cougar Canyon	Caliente	Section 603	1983	5,400	2,180
Nev.	Delamar Mountains	Caliente	Section 603	1983	126,257	0
Nev.	Desatoya Mountains	Lahontan	Section 603	1981	51,262	430,040
Nev.	Disaster Peak	Paradise - Denio	Sections 202 & 603	1981	13,200	12,103
Nev.	Dry Valley Rim	Cedarville	Section 603	1984	94,308	52,395
Nev.	East Fork High Rock Canyon	Cedarville	Section 603	1984	52,639	29,102
Nev.	El Dorado	State Line	Section 603	1981	12,290	0
Nev.	Evergreen ABC	State Line	Section 202	1983	2,694	0
Nev.	Fandango	Tonopah	Section 603	1981	530	0
Nev.	Far South Egans	Schell	Section 603	1981	53,224	42,316
Nev.	Fish and Wildlife #1	State Line	Section 603	1983	11,090	0
Nev.	Fish and Wildlife #2	State Line	Section 603	1981	17,242	0
Nev.	Fish and Wildlife #3	State Line	Section 603	1981	22,002	0
Nev.	Five Springs	Eagle Lake	Section 603	1984	1,383	0
Nev.	Fortification Range	Schell	Section 603	1981	41,615	0
Nev.	Fox Range	Sonoma	Section 603	1981	75,404	0
Nev.	Gabbs Valley Range	Walker	Section 603	1983	79,600	0
Nev.	Garret Buttes	State Line	Section 603	1981	11,835	0
Nev.	Goshute Canyon	Egan	Section 603	1981	35,594	22,225
Nev.	Goshute Canyon ISA	Egan	Section 603	1976	7,650	0
Nev.	Goshute Peak	Wells	Section 603	1980	69,770	61,004
Nev.	Grapevine Mountains	Tonopah	Section 603	1983	66,800	23,150
Nev.	Heusser Mountain Bristlcone Pine ISA	Egan	Section 603	1976	480	0
Nev.	High Rock Canyon	Cedarville	Section 603	1984	34,758	12,000
Nev.	High Rock Lake	Sonoma	Section 603	1981	62,382	14,480
Nev.	Ireteba Peaks	State Line	Section 603	1981	14,994	0
Nev.	Job Peak	Lahontan	Section 603	1981	90,209	0
Nev.	Jumbo Springs	State Line	Section 202	1981	3,466	0
Nev.	Kawich	Tonopah	Section 603	1981	54,320	0
Nev.	Lahontan ISA	Sonoma - Gerlach	Section 603	1981	12,316	0
Nev.	LaMadre Mountains	State Line	Section 603	1981	41,306	23,050
Nev.	Lime Canyon	State Line	Section 603	1981	34,680	13,895

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Nev.	Little High Rock Canyon	Cedarville	Section 603	1984	50,951	17,183
Nev.	Little Humboldt River	Elko	Section 603	1983	42,213	29,775
Nev.	Logandale	State Line	Section 202	1991	20,299	Under study
Nev.	Marble Canyon	Schell	Section 603	1981	12,715	1,865
Nev.	Massacre Rim	Cedarville	Section 603	1984	101,290	22,465
Nev.	Meadow Valley Range	Caliente	Section 603	1983	185,744	97,180
Nev.	Million Hills	State Line	Section 603	1981	21,296	0
Nev.	Morey Peak	Tonopah	Section 603	1981	5,070	0
Nev.	Mormon Mountains	Caliente	Section 603	1983	162,887	123,130
Nev.	Mount Grafton	Schell	Section 603	1981	73,216	30,115
Nev.	Mount Stirling	State Line	Section 603	1981	5,600	750
Nev.	Mountain Meadow ISA	Shosone	Section 603	1976	22	0
Nev.	Mount Limbo	Sonoma	Section 603	1981	23,702	12,700
Nev.	Muddy Mountains	State Line	Section 603	1981	96,170	36,850
Nev.	Nellis ABC	State Line	Section 202	1981	5,718	0
Nev.	North Black Rock Range	Paradise - Denio	Section 603	1981	30,191	0
Nev.	North Fork of the Little Humboldt River	Paradise - Denio	Section 603	1981	69,683	8,900
Nev.	North Jackson Mountains	Paradise - Denio	Section 603	1981	26,457	0
Nev.	North McCullough	State Line	Section 603	1981	47,166	0
Nev.	Owyhee Canyon	Elko	Section 603	1983	21,875	13,525
Nev.	Pahute Peak	Paradise - Denio	Section 603	1981	57,529	0
Nev.	Palisade Mesa	Tonopah	Section 603	1981	99,550	66,110
Nev.	Park Range	Egan	Section 603	1981	47,268	47,268
Nev.	Pasnip Peak	Schell	Section 603	1981	88,175	53,560
Nev.	Pigeon Spring	Tonopah	Section 603	1983	3,575	0
Nev.	Pine Creek	State Line	Section 603	1981	19,722	17,639
Nev.	Pinyon Joshua Transition Research ISA	Tonopah	Section 603	1976	560	0
Nev.	Pole Creek	Sonoma	Section 603	1981	12,969	0
Nev.	Poodle Mountain	Sonoma	Section 603	1981	142,050	0
Nev.	Pueblo Mountains	Paradise - Denio	Sections 202 & 603	1981	600	600
Nev.	Quail Springs	State Line	Section 603	1981	12,145	0
Nev.	Queer Mountain	Tonopah	Section 603	1983	81,550	42,650
Nev.	Rawhide Mountain	Tonopah	Section 603	1981	64,360	0
Nev.	Red Spring	Elko	Section 603	1983	7,847	0
Nev.	Resting Spring Range	State Line	Section 603	1983	3,850	0

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Nev.	Riordan's Well	Egan	Section 603	1981	57,002	0
Nev.	Roberts Mountain	Shoshone - Eureka	Section 603	1981	15,090	0
Nev.	Rough Hills	Elko	Section 603	1983	6,685	6,685
Nev.	Selenite Mountains	Sonoma	Section 603	1981	32,041	0
Nev.	Sheldon Contiguous	Cedarville	Section 603	1984	23,700	748
Nev.	Shoshone Ponds ISA	Schell	Section 603	1976	1,240	0
Nev.	Shoshone Pygmy Sage ISA	Schell	Section 603	1976	160	0
Nev.	Silver Peak Range	Tonopah	Section 603	1983	33,900	0
Nev.	Simpson Park	Shoshone - Eureka	Section 603	1981	49,670	0
Nev.	Skedaddle Mountain	Bishop	Section 603	1984	589	589
Nev.	South Egan Range	Egan	Section 603	1981	96,996	0
Nev.	South Fork Owyhee River	Elko	Section 603	1983	7,842	5,180
Nev.	South Jackson Mountains	Paradise - Denio	Section 603	1981	60,211	10,300
Nev.	South McCullough Mountains	State Line	Section 603	1981	56,623	19,798
Nev.	South Pahroc	Caliente	Section 603	1981	28,600	28,395
Nev.	South Pequop	Wells	Section 603	1980	41,090	34,544
Nev.	South Reveille	Tonopah	Section 603	1981	106,200	33,000
Nev.	Stillwater Range	Lahontan	Section 603	1981	94,607	0
Nev.	Sunrise Mountain ISA	State Line	Section 603	1976	10,070	0
Nev.	Swamp Cedar ISA	Schell	Section 603	1976	3,200	0
Nev.	Table Mountain	Schell	Section 603	1981	35,958	0
Nev.	The Wall	Tonopah	Section 603	1981	38,000	30,320
Nev.	Tobin Range	Sonoma - Gerlach	Section 603	1981	13,107	0
Nev.	Twin Peaks	Cedarville	Section 603	1984	90,791	54,916
Nev.	Virgin Mountain ISA	State Line	Section 603	1976	6,560	0
Nev.	Wall Canyon	Cedarville	Section 603	1984	46,305	0
Nev.	Weepah Spring	Schell	Section 603	1981	61,137	50,499
Nev.	White Rock Range	Schell	Section 603	1981	20,245	20,245
Nev.	Worthington Mountains	Schell	Section 603	1981	47,633	26,587
Nev.	Yellow Rock Canyon	Cedarville	Section 603	1984	12,468	0
N.Mex.	Aden Lava Flow	Mimbres	Section 603	1981	26,717	26,717
N.Mex.	Ah-shi-sie-pah	Farmington	Section 603	1980	6,563	0
N.Mex.	Alamo Hueco Mountains	Mimbres	Section 603	1981	16,264	0
N.Mex.	Antelope	Socorro	Section 603	1982	20,710	0
N.Mex./Ariz.	Apache Box	Mimbres	Section 202	1980	932	0

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N.Mex.	Big Hatchet Mountains	Mimbres	Section 603	1981	65,872	45,374
N.Mex.	Blue Creek	Mimbres	Section 603	1981	14,896	0
N.Mex.	Brokeoff Mountains	Caballo	Section 603	1982	31,606	0
N.Mex.	Cabezon	Rio Puerco	Section 603	1982	8,159	8,159
N.Mex.	Cedar Mountains	Mimbres	Section 603	1981	14,911	0
N.Mex.	Chamisa	Rio Puerco	Section 603	1982	13,692	12,848
N.Mex.	Continental Divide	Socorro	Section 603	1982	68,761	37,599
N.Mex.	Cooke's Range	Mimbres	Section 603	1981	19,608	0
N.Mex.	Cowboy Spring	Mimbres	Section 603	1981	6,699	6,699
N.Mex.	Culp Canyon	Caballo	Section 603	1982	10,937	0
N.Mex.	Devil's Backbone	Socorro	Section 603	1982	8,904	0
N.Mex.	Eagle Peak	Socorro	Section 603	1982	43,960	0
N.Mex.	Empedrado	Rio Puerco	Section 603	1982	9,007	9,007
N.Mex.	Florida Mountains	Mimbres	Section 603	1981	22,336	0
N.Mex.	Gila Lower Box	Mimbres	Section 603	1981	8,555	5,835
N.Mex.	Guadalupe Canyon ISA	Mimbres	Section 603	1978	4,146	0
N.Mex.	Horse Mountain	Socorro	Section 603	1982	5,032	4,432
N.Mex.	Ignacio Chavez	Rio Puerco	Section 603	1982	33,264	33,264
N.Mex.	Jornada del Muerto	Socorro	Section 603	1982	31,147	31,147
N.Mex.	La Lena	Rio Puerco	Section 603	1982	10,438	10,438
N.Mex.	Las Uvas Mountains	Mimbres	Section 603	1981	11,067	0
N.Mex.	Little Black Peak/ Carrizozo Lava Flow	Roswell	Section 603	1982	25,312	24,237
N.Mex.	Lonesome Ridge/ Devil's Den/ McKittrick Canyon	Carlsbad	Section 202	1980	4,025	0
N.Mex.	Manzano	Rio Puerco	Section 202	1982	881	881
N.Mex.	Mathers ISA	Roswell	Section 603	1976	362	0
N.Mex.	Mesita Blanca	Socorro	Section 603	1982	19,414	0
N.Mex.	Mudgetts	Carlsbad	Section 202	1982	2,941	0
N.Mex.	Ojito	Rio Puerco	Section 603	1982	10,903	10,903
N.Mex.	Organ Mountains	Mimbres	Section 603	1981	7,283	7,283
N.Mex.	Petaca Pinta	Rio Puerco	Section 603	1981	11,668	10,631
N.Mex.	Presilla	Socorro	Section 603	1982	8,680	0
N.Mex.	Rio Chama	Taos	Section 603	1982	11,985	5,232
N.Mex.	Robledo Mountains	Mimbres	Section 603	1981	12,946	0
N.Mex.	Sabinoso	Taos	Section 603	1982	15,760	0
N.Mex.	San Antonio	Taos	Section 603	1982	7,050	0
N.Mex.	Sierra de las Canas	Socorro	Section 603	1982	12,838	12,798

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N.Mex.	Sierra Ladrones	Socorro	Section 603	1981	45,308	31,804
N.Mex.	Stallion	Socorro	Section 603	1982	24,238	0
N.Mex.	Veranito	Socorro	Section 603	1982	7,206	0
N.Mex.	West Potrillo Mountains/Mount Riley	Mimbres	Section 603	1981	157,185	148,540
Oreg.	Abert Rim	Warner Lakes	Section 603	1982	23,760	23,760
Oreg.	Aldrich Mountain	Three Rivers	Section 603	1981	9,395	0
Oreg.	Alvord Desert	Southern Malheur/ Andrews	Sections 202 & 603	1982	251,060	69,165
Oreg.	Alvord Peak	Andrews	Sections 202 & 603	1979	16,825	0
Oreg.	Badlands	Deschutes	Section 603	1982	32,221	32,030
Oreg.	Basque Hills	Andrews/ Warner Lake	Sections 202 & 603	1979	141,410	0
Oreg.	Beaver Dam Creek	Northern Malheur	Sections 202 & 603	1982	19,580	0
Oreg.	Blitzen River	Andrews	Sections 202 & 603	1979	55,880	21,670
Oreg.	Blue Canyon	Northern Malheur	Section 603	1982	12,700	12,700
Oreg.	Bowden Hills	Southern Malheur	Sections 202 & 603	1982	56,140	0
Oreg.	Brewer Spruce ISA	Grants Pass	Section 603	1976	429	0
Oreg.	Bridge Creek	Andrews	Sections 202 & 603	1979	14,545	0
Oreg.	Camp Creek	Northern Malheur	Sections 202 & 603	1982	19,200	17,770
Oreg.	Castle Rock	Northern Malheur	Section 202	1982	6,200	0
Oreg.	Cedar Mountain	Northern Malheur	Section 603	1982	33,560	0
Oreg.	Clarks Butte	Southern Malheur	Sections 202 & 603	1982	31,450	0
Oreg.	Cottonwood Creek	Northern Malheur	Sections 202 & 603	1982	8,700	7,520
Oreg.	Cougar Well	Central Oregon	Section 603	1982	18,435	0
Oreg.	Deschutes Canyon - Steelhead Falls	Deschutes	Section 202	1981	3,240	0
Oreg.	Devils Garden Lava Bed	High Desert	Section 603	1982	29,680	28,160
Oreg.	Diablo Mountain	High Desert	Section 603	1982	113,120	90,050
Oreg.	Disaster Peak	Southern Malheur	Sections 202 & 603	1982	18,840	17,540
Oreg.	Douglas-Fir ISA	Tioga	Section 603	1976	590	0
Oreg.	Dry Creek	Northern Malheur	Section 603	1982	23,500	0

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Oreg.	Dry Creek Buttes	Northern Malheur	Section 603	1982	51,800	0
Oreg.	East Alvord	Andrews	Sections 202 & 603	1982	22,240	0
Oreg.	Fifteenmile Creek	Southern Malheur	Sections 202 & 603	1982	51,290	51,260
Oreg.	Fish Creek Rim	Warner Lakes	Section 603	1982	16,690	11,920
Oreg.	Four Craters Lava Bed	High Desert	Section 603	1982	12,600	9,100
Oreg.	Gerry Mountain	Central Oregon	Section 603	1982	20,700	0
Oreg.	Gold Creek	Northern Malheur	Sections 202 & 603	1982	13,600	13,600
Oreg.	Guano Creek	Warner Lakes	Section 603	1982	10,350	10,350
Oreg.	Hampton Butte	Central Oregon	Section 603	1982	10,600	0
Oreg.	Hawk Mountain	Warner Lakes	Section 603	1979	69,640	69,640
Oreg.	Heath Lake	Andrews	Sections 202 & 603	1982	20,520	0
Oreg.	High Steens	Andrews	Sections 202 & 603	1979	68,485	35,340
Oreg.	Home Creek	Andrews	Sections 202 & 603	1979	25,120	21,000
Oreg.	Homestead	Baker	Sections 202 & 603	1982	6,441	0
Oreg.	Honeycombs	Northern Malheur	Section 603	1982	39,000	36,555
Oreg.	Indian Creek	Three Rivers	Section 202	1981	208	0
Oreg.	Jordan Craters	Southern Malheur	Sections 202 & 603	1982	27,900	23,225
Oreg.	Little Blitzen Gorge	Andrews	Sections 202 & 603	1979	9,400	4,600
Oreg.	Little Sink ISA	Yamhill	Section 603	1976	80	0
Oreg.	Lookout Butte	Southern Malheur	Section 603	1982	65,200	0
Oreg.	Lost Forest ISA	High Desert	Section 603	1976	8,960	0
Oreg.	Lower John Day	Central Oregon	Section 603	1982	19,587	17,951
Oreg.	Lower Owyhee Canyon	Southern Malheur	Sections 202 & 603	1982	75,635	65,260
Oreg.	Lower Stonehouse	Andrews	Section 603	1979	8,090	0
Oreg.	Mahogany Ridge	Andrews	Sections 202 & 603	1979	27,940	0
Oreg.	Malheur River/ Bluebucket	Three Rivers	Section 603	1981	5,560	0
Oreg.	McGraw Creek	Baker	Section 202	1982	497	0
Oreg.	Mountain Lakes	Klamath	Section 202	1982	334	334
Oreg.	North Fork	Central Oregon	Section 603	1982	11,225	0

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Oreg.	North Pole Ridge	Central Oregon	Section 603	1982	6,249	5,710
Oreg.	North Sisters Rocks	Myrtlewood	Section 603	1982	3	3
Oreg.	Oregon Canyon	Southern Malheur	Sections 202 & 603	1982	42,900	42,900
Oreg.	Orejana Canyon	Warner Lakes	Section 603	1981	24,600	14,800
Oreg.	Owyhee Breaks	Northern & Southern Malheur	Sections 202 & 603	1982	13,380	10,596
Oreg.	Owyhee River Canyon	Southern Malheur	Sections 202 & 603	1982	190,700	152,040
Oreg.	Palomino Hills	Southern Malheur	Sections 202 & 603	1982	54,600	0
Oreg.	Pine Creek	Three Rivers	Section 202	1981	200	0
Oreg.	Pueblo Mountains	Andrews	Sections 202 & 603	1979	72,090	25,550
Oreg.	Red Mountain	Andrews	Sections 202 & 603	1979	15,180	0
Oreg.	Rincon	Andrews	Sections 202 & 603	1979	103,965	19,428
Oreg.	Saddle Butte	Southern Malheur	Sections 202 & 603	1982	81,380	0
Oreg.	Sage Hen Hills	Warner Lakes	Section 202	1979	8,520	0
Oreg.	Sand Dunes	High Desert	Section 603	1982	16,440	0
Oreg.	Sand Hollow	Central Oregon	Section 603	1982	8,791	8,391
Oreg.	Sheep Gulch	Three Rivers	Section 202	1981	741	0
Oreg.	Sheep Mountain	Baker	Section 603	1982	7,040	7,040
Oreg.	Sheepshead Mountains	Southern Malheur/ Andrews	Sections 202 & 603	1982	54,390	45,705
Oreg.	Slocum Creek	Northern Malheur	Section 603	1982	7,600	7,600
Oreg.	Soda Mountains	Klamath	Section 603	1982	5,640	5,612
Oreg.	South Fork	Central Oregon	Section 603	1982	19,631	17,001
Oreg.	South Fork of Donner und Blitzen River	Andrews	Sections 202 & 603	1979	37,555	0
Oreg.	Spaulding	Warner Lakes	Section 603	1982	69,530	0
Oreg.	Sperry Creek	Northern Malheur	Sections 202 & 603	1982	5,360	5,360
Oreg.	Spring Basin	Central Oregon	Section 603	1982	5,982	5,982
Oreg.	Squaw Ridge Lava Bed	High Desert	Section 603	1982	28,340	21,010
Oreg.	Stonehouse	Three Rivers/ Andrews	Sections 202 & 603	1979	21,325	0
Oreg.	Table Mountain	Andrews	Sections 202 & 603	1982	40,592	25,185

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Oreg.	Thirtymile	Central Oregon	Section 603	1984	7,538	7,332
Oreg.	Twelvemile Creek	Southern Malheur	Sections 202 & 603	1982	28,600	25,260
Oreg.	Upper Leslie Gulch	Northern Malheur	Section 202	1982	3,000	3,000
Oreg.	Upper West Little Owyhee	Southern Malheur	Sections 202 & 603	1982	62,500	62,500
Oreg.	West Peak	Andrews	Sections 202 & 603	1982	8,535	0
Oreg.	Western Juniper ISA	Deschutes	Section 603	1976	600	0
Oreg.	Wild Horse Basin	Northern Malheur	Sections 202 & 603	1982	12,680	0
Oreg.	Wildcat Canyon	Southern Malheur/ Andrews	Sections 202 & 603	1982	34,830	34,830
Oreg.	Willow Creek	Southern Malheur	Sections 202 & 603	1982	30,565	26,130
Oreg.	Winter Range	Andrews	Sections 202 & 603	1982	15,440	0
Oreg.	Zwagg Island	Myrtlewood	Section 603	1982	5	5
Utah	Beartrap Canyon	Dixie	Section 202	1981	40	40
Utah	Behind-the-Rocks	Grand	Section 603	1980	12,770	12,770
Utah /Colo.	Black Ridge Canyons West	Grand Junction	Section 603	1984	49,065	48,417
Utah	Bridger Jack Mesa	San Juan	Section 603	1982	5,290	5,290
Utah	Bull Canyon	White River	Section 603	1981	11,777	11,670
Utah	Bull Mountain	Henry Mountains	Section 603	1980	13,620	11,800
Utah	Burning Hills	Kanab	Section 603	1981	61,550	0
Utah	Butler Wash	San Juan	Section 603	1982	22,030	22,030
Utah	Canaan Mountain	Dixie/Kanab	Section 603	1981	47,810	33,800
Utah	Carcass Canyon	Escalante	Section 603	1981	47,351	0
Utah	Cedar Mountains	Pony Express	Section 603	1981	52,761	0
Utah	Cheesebox Canyon	San Juan	Section 603	1982	15,410	0
Utah	Coal Canyon	Grand	Section 603	1980	61,430	20,774
Utah	Conger Mountain	Warm Springs	Section 603	1982	20,400	0
Utah	Cottonwood Canyon	Dixie	Section 603	1981	11,330	9,853
Utah /Nev.	Cougar Canyon	Dixie	Section 603	1983	10,568	4,228
Utah	Crack Canyon	San Rafael	Section 603	1982	25,315	25,315
Utah /Colo.	Cross Canyon	San Juan	Section 603	1981	11,580	0
Utah	Daniels Canyon	Book Cliffs	Section 202	1981	2,496	0
Utah	Dark Canyon & Middle Point	San Juan	Section 603	1982	68,030	68,030

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Utah	Death Ridge	Escalante/ Kanab	Section 603	1981	63,667	0
Utah	Deep Creek	Dixie	Section 202	1981	3,320	3,320
Utah	Deep Creek Mountains	House Range/Pony Express	Section 603	1981	68,910	57,384
Utah	Desolation Canyon	Price River/Grand	Section 603	1982	290,005	224,010
Utah	Devils Canyon	San Rafael	Section 603	1982	9,610	0
Utah /Colo.	Diamond Breaks	Diamond Mountain	Section 603	1982	3,900	3,620
Utah	Dirty Devil	Henry Mountains	Section 603	1980	61,000	61,000
Utah	Escalante Canyons Tract 5	Escalante	Section 603	1982	760	760
Utah	Fiddler Butte	Henry Mountains	Section 603	1980	73,100	32,700
Utah	Fiftymile Mountain	Escalante/ Kanab	Section 603	1981	148,802	94,020
Utah	Fish Creek Canyon	San Juan	Section 603	1982	46,440	40,160
Utah	Fish Springs Range	House Range	Section 603	1981	52,500	33,840
Utah	Floy Canyon	Grand	Section 603	1982	72,605	23,140
Utah	Flume Canyon	Grand	Section 603	1980	50,800	16,495
Utah	Fremont Gorge	Henry Mountains	Sections 202 & 603	1980	2,540	0
Utah	French Spring-Happy Canyon	Henry Mountains	Section 603	1980	25,000	11,110
Utah	Goose Creek Canyon	Dixie	Section 202	1981	89	89
Utah	Grand Gulch ISA Complex	San Juan	Section 603	1982	105,520	105,520
Utah	Horseshoe Canyon (North)	San Rafael	Section 603	1982	20,500	20,500
Utah	Horseshoe Canyon (South)	Henry Mountains	Section 603	1980	38,800	36,000
Utah	Howell Peak	Warm Springs	Section 603	1982	24,800	14,800
Utah	Indian Creek	San Juan	Section 603	1982	6,870	6,870
Utah	Jack Canyon	Price River	Section 603	1982	7,500	0
Utah	King Top	Warm Springs	Section 603	1982	84,770	0
Utah	LaVerkin Creek	Dixie	Section 202	1981	567	567
Utah	Little Rockies	Henry Mountains	Section 603	1980	38,700	38,700
Utah	Lost Spring Canyon	Grand	Section 202	1980	3,880	3,880
Utah	Mancos Mesa	San Juan	Section 603	1983	51,440	51,440
Utah	Mexican Mountain	Price River	Section 603	1982	59,600	46,750
Utah	Mill Creek Canyon	Grand	Section 603	1983	9,780	9,780
Utah	Moquith Mountain	Kanab	Section 603	1981	14,830	0
Utah	Mount Ellen-Blue Hills	Henry Mountains	Section 603	1980	81,726	65,804
Utah	Mount Hillers	Henry Mountains	Section 603	1980	20,000	16,360
Utah	Mount Pannel	Henry Mountains	Section 603	1980	74,300	25,800

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Utah	Mud Spring Canyon	Kanab	Section 603	1981	38,075	0
Utah	Muddy Creek	San Rafael	Section 603	1982	31,400	31,400
Utah	Mule Canyon	San Juan	Section 603	1982	5,990	5,990
Utah	Negro Bill Canyon	Grand	Section 603	1982	7,620	7,620
Utah	North Escalante Canyons/The Gulch	Escalante	Section 603	1982	120,204	91,558
Utah	North Fork Virgin River	Kanab	Section 202	1981	1,040	1,040
Utah	North Stansbury Mountains	Pony Express	Section 603	1981	10,480	10,480
Utah	Notch Peak	Warm Springs	Section 603	1982	51,130	28,000
Utah	Orderville Canyon	Kanab	Section 202	1981	1,750	1,750
Utah	Paria-Hackberry/ Paria-Hackberry 202	Kanab	Sections 202 & 603	1981	136,222	95,442
Utah	Parunuweap Canyon	Kanab	Section 603	1981	30,800	17,888
Utah	Phipps-Death Hollow	Escalante	Section 603	1982	42,731	39,256
Utah	Red Butte	Dixie	Section 202	1981	804	804
Utah	Red Mountain/Red Mountain 202	Dixie	Sections 202 & 603	1981	18,290	12,842
Utah	Road Canyon	San Juan	Section 603	1982	52,420	52,420
Utah	Rockwell	House Range	Section 603	1981	9,150	0
Utah	San Rafael Reef	San Rafael	Section 603	1982	55,540	55,540
Utah	Scorpion	Escalante	Section 603	1981	35,884	14,978
Utah	Sids Mountain	San Rafael	Section 202	1982	80,970	80,084
Utah	South Needles	San Juan	Section 202	1982	160	160
Utah	Spring Creek Canyon	Beaver River	Section 202	1981	4,433	1,607
Utah	Spruce Canyon	Grand	Section 603	1980	20,350	14,736
Utah /Colo.	Squaw/Papoose Canyon	San Juan	Section 603	1982	11,287	0
Utah	Steep Creek	Escalante	Section 603	1981	21,896	20,806
Utah	Swasey Mountain	House Range	Section 603	1981	49,500	34,376
Utah	Taylor Creek Canyon	Dixie	Section 202	1981	35	35
Utah	The Blues	Kanab	Section 603	1981	19,030	0
Utah	The Cockscomb	Kanab	Section 603	1981	10,827	5,300
Utah	The Watchman	Dixie	Section 202	1981	600	600
Utah	Turtle Canyon	Price River	Section 603	1982	33,690	0
Utah	Wah Wah Mountains	Warm Springs/ Beaver River	Section 603	1982	42,140	36,382
Utah	Wahweap	Kanab	Section 603	1981	134,400	0
Utah /Colo.	West Cold Spring	Little Snake	Section 603	1982	14,482	0
Utah	Westwater Canyon	Grand	Section 603	1980	31,160	26,000

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Utah	White Rock Range	Beaver River	Section 603	1981	3,820	3,820
Utah	Winter Ridge	Book Cliffs	Section 603	1983	42,462	0
Wash.	Chopaka Mountain	Wenatchee	Section 603	1986	5,518	0
Wyo.	Adobetown	Salt Wells/ Divide	Section 603	1981	85,710	10,920
Wyo.	Alkali Basin-East Sand Dunes	Big Sandy	Section 603	1979	12,800	0
Wyo.	Alkali Creek	Washakie	Section 603	1982	10,100	8,187
Wyo.	Alkali Draw	Big Sandy	Section 603	1979	16,990	0
Wyo.	Bennett Mountains	Medicine Bow	Section 603	1983	6,003	0
Wyo.	Big Horn Tack-On	Cody	Section 202	1981	80	80
Wyo.	Bobcat Draw Badlands	Grass Creek	Section 603	1979	17,150	17,150
Wyo.	Buffalo Hump	Big Sandy	Section 603	1979	10,300	6,080
Wyo.	Cedar Mountain	Washakie	Section 603	1982	21,560	10,223
Wyo.	Copper Mountain	Lander	Section 603	1982	6,858	0
Wyo.	Devils Playground - Twin Buttes	Salt Wells	Section 603	1979	23,841	23,841
Wyo.	DuBois Badlands	Lander	Section 202	1982	4,520	0
Wyo.	Encampment River Canyon	Medicine Bow	Section 202	1983	4,547	4,547
Wyo.	Ferris Mountains	Medicine Bow	Section 603	1981	22,245	22,245
Wyo.	Fortification Creek	Buffalo	Section 603	1982	12,419	0
Wyo.	Gardner Mountain	Buffalo	Section 603	1982	6,423	0
Wyo.	Honeycomb Buttes	Big Sandy	Section 603	1979	40,548	37,287
Wyo.	Honeycombs	Washakie	Section 603	1982	21,000	0
Wyo.	Lake Mountain	Pinedale	Section 603	1981	13,865	0
Wyo.	Lankin Dome	Lander	Section 603	1982	6,316	0
Wyo.	McCullough Peaks	Cody	Section 603	1985	24,570	8,020
Wyo.	Medicine Lodge	Washakie	Section 603	1982	7,740	3,600
Wyo.	Miller Springs	Lander	Section 603	1982	6,429	0
Wyo.	North Fork of the Powder River	Buffalo	Section 603	1982	10,089	0
Wyo.	Oregon Buttes	Big Sandy	Section 603	1979	5,700	5,700
Wyo.	Owl Creek	Grass Creek	Section 603	1979	710	710
Wyo.	Prospect Mountain	Medicine Bow	Section 202	1983	1,145	1,145
Wyo.	Pryor Mountain	Cody	Section 603	1981	4,352	4,352
Wyo.	Raymond Mountain	Kemmerer	Section 603	1980	32,936	32,936
Wyo.	Red Butte	Grass Creek	Section 603	1979	11,350	0
Wyo.	Red Creek Badlands	Salt Wells	Section 603	1979	8,020	0
Wyo.	Red Lake	Big Sandy	Section 603	1979	9,515	0

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State	Study area	Resource area	Action that created study area	Date of action	Study area acreage	Acreage recommended for wilderness
Wyo.	Sand Dunes	Big Sandy	Section 603	1979	26,309	21,304
Wyo.	Savage Peak	Lander	Section 603	1982	7,041	0
Wyo.	Scab Creek ISA	Pinedale	Section 603	1976	6,680	7,636
Wyo.	Sheep Mountain	Grass Creek	Section 603	1979	23,250	0
Wyo.	South Pinnacles	Big Sandy	Section 603	1979	10,800	0
Wyo.	Split Rock	Lander	Section 603	1982	12,789	0
Wyo.	Sweetwater Canyon	Lander	Section 603	1982	9,056	5,538
Wyo.	Trapper Creek	Washakie	Section 603	1982	7,200	7,200
Wyo.	Whiskey Mountain	Lander	Section 202	1982	487	0
Wyo.	Whitehorse Creek	Big Sandy	Section 202	1979	4,002	0

\*BLM identifies these wilderness study areas as separate areas in its study report.

## Study Area Uses

Wilderness study areas receive a variety of uses. The most common uses are primitive recreation, motorized or mechanized recreation, and nonrecreational uses such as mining, livestock grazing, and mineral leasing. Table I.3 shows the types of uses that BLM officials said occur in the study areas.

**Table I.3: Uses Occurring in BLM Study Areas, by State**

State	Study area	Primitive recreation	Motorized/mechanized recreation	Mining	Grazing	Mineral leasing
Alaska	Central Arctic Management Area	X	X			
Ariz.	Baker Canyon	X			X	
Ariz.	Big Maria Mountains N. Addition		X			
Ariz.	Big Maria Mountains S. Addition		X			
Ariz.	Cactus Plain	X	X	X	X	
Ariz.	Chemehuevi Mountains Addition					
Ariz.	Chemehuevi/Needles Addition					
Ariz.	Dead Mountains N. Addition		X			
Ariz.	Dead Mountains S. Addition		X			
Ariz.	Little Picacho Peak Addition		X	X		
Ariz.	Peloncillo Mountains	X	X	X	X	

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Ariz.	Whipple Mountains Addition		X			
Calif.	Agua Tibia	X				
Calif.	Amboy Crater	X	X	X		
Calif.	Antelope Spring				X	
Calif.	Avawatz Mountains	X	X	X		
Calif.	Beauty Mountain	X	X	X	X	
Calif.	Big Butte		X		X	
Calif.	Big Maria Mountains	X	X	X		
Calif.	Bigelow Cholla Garden	X	X			
Calif.	Bighorn Mountains	X	X	X	X	
Calif.	Bitterbrush		X		X	
Calif.	Black Mountain	X	X		X	
Calif.	Blackwater Well		X	X	X	
Calif.	Bodie	X	X	X		
Calif.	Bodie Mountain	X	X	X	X	
Calif.	Bristol/Granite Mountains	X	X	X	X	
Calif.	Cady Mountains	X	X	X	X	
Calif.	Caliente Mountain		X		X	X
Calif.	Carrizo Gorge				X	
Calif.	Casa Diablo	X	X	X		
Calif.	Castle Peaks	X	X	X	X	
Calif.	Cedar Roughs	X	X			
Calif.	Cerro Gordo	X	X	X	X	
Calif.	Cerro Gordo Peak	X	X	X		
Calif.	Chemehuevi Mountains	X	X		X	
Calif.	Chemise Mountain	X				
Calif.	Chidago Canyon	X	X	X	X	
Calif.	Chuckwalla Mountains	X	X	X		
Calif.	Cima Dome	X	X	X		
Calif.	Cinder Cones	X	X	X	X	
Calif.	Clark Mountain		X	X	X	
Calif.	Cleghorn Lakes			X		
Calif.	Clipper Mountains	X	X	X		
Calif.	Coso Range	X	X	X	X	
Calif.	Cottonwood Creek	X	X	X	X	
Calif.	Cow Heaven	X	X	X	X	
Calif.	Coxcomb Mountains		X	X		

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Calif.	Coyote Mountains	X	X		X	
Calif.	Crater Mountain	X	X	X	X	
Calif.	Darwin Falls		X	X		
Calif.	Dead Mountains		X	X		
Calif.	Deer Spring			X	X	
Calif.	Domeland	X	X			
Calif.	Eagle Mountains	X	X	X		
Calif.	Eden Valley		X		X	
Calif.	Eight-Mile Tank		X	X	X	
Calif.	El Paso Mountains		X	X	X	X
Calif.	Essex	X	X	X		
Calif.	Excelsior		X		X	
Calif.	Fish Creek Mountains	X	X	X		
Calif.	Fish Slough		X		X	
Calif.	Five Springs	X	X		X	
Calif.	Fort Piute	X	X	X	X	
Calif.	Frog Creek	X	X	X	X	
Calif.	Funeral Mountains		X	X		
Calif.	Garcia Mountain	X	X			
Calif.	Golden Valley	X	X	X	X	
Calif.	Granite Mountain		X	X	X	
Calif.	Grass Valley		X		X	
Calif.	Great Falls Basin	X	X	X		
Calif.	Greenwater Range	X	X	X		X
Calif.	Greenwater Valley					
Calif.	Hauser Mountain	X	X		X	
Calif.	Hollow Hills		X	X		
Calif.	Horse Canyon	X	X	X		
Calif.	Hunter Mountain		X	X		
Calif.	Ibex Hills		X	X		
Calif.	Ibex Spring	X	X			
Calif.	Independence Creek		X	X	X	
Calif.	Indian Pass (Julian Wash)	X	X	X		
Calif.	Inyo Mountains		X	X		
Calif.	Jacumba	X	X	X		
Calif.	Kelso Dunes	X	X	X	X	X
Calif.	Kelso Mountains	X	X	X		

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Calif.	Kelso Peak			X	X	
Calif.	King Range	X	X		X	
Calif.	Kingston Range	X	X	X	X	
Calif.	Last Chance Mountain	X	X	X	X	
Calif.	Lava	X	X	X	X	X
Calif.	Lava Hills	X	X			
Calif.	Little Chuckwalla Mountains	X	X	X		
Calif.	Little Lake Canyon	X	X		X	
Calif.	Little Picacho Peak	X	X	X		
Calif.	Little Sand Spring		X	X		
Calif.	Lower Saline Valley	X	X	X		
Calif.	Machesna	X	X			
Calif.	Magee-Atkins		X		X	
Calif.	Manly Peak	X	X	X		
Calif.	Marble Mountains	X	X	X		
Calif.	Masonic Mountain	X	X	X	X	
Calif.	McAfee Creek				X	
Calif.	Mecca Hills	X	X	X		
Calif.	Merced River		X	X		
Calif.	Mesquite Mountains	X	X	X	X	
Calif.	Mesquite Spring	X	X			
Calif.	Mid Hills	X	X	X	X	
Calif.	Middle Park Canyon		X	X		
Calif.	Milk Ranch/Case Mountain	X	X		X	
Calif.	Mormon Meadow		X	X	X	
Calif.	Morongo	X		X	X	
Calif.	Mount Biedeman	X	X	X	X	
Calif.	N.W. Fishlake Valley	X	X		X	
Calif.	New York Mountains	X	X	X	X	
Calif.	Newberry Mountains	X	X	X	X	
Calif.	Nopah Range	X	X	X	X	
Calif.	North Algodones Dunes	X	X	X		
Calif.	North Argus Range		X	X	X	
Calif.	North Coso Range	X	X	X		
Calif.	North Death Valley		X	X	X	
Calif.	North Mesquite Mountains		X	X	X	
Calif.	North Tip				X	

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Calif.	Old Dad Mountain	X	X	X	X	
Calif.	Old Woman Mountains	X	X	X		
Calif.	Orocopia Mountains		X	X		
Calif.	Owens Peak <sup>a</sup>	X	X	X	X	
Calif.	Owens Peak <sup>a</sup>	X	X	X		
Calif.	Owishead Mountains	X	X	X		
Calif.	Pahrump Valley	X	X	X	X	
Calif.	Palen/McCoy	X	X	X		
Calif.	Palo Verde Mountains	X	X	X		
Calif.	Panamint Dunes		X	X		
Calif.	Panoche Hills North	X	X	X		X
Calif.	Panoche Hills South	X	X			X
Calif.	Picacho Peak (Gavilan)	X	X	X		
Calif.	Pilot Peak		X	X	X	
Calif.	Pinnacles		X		X	
Calif.	Pinto Basin	X	X	X		
Calif.	Pinto Mountains		X	X		
Calif.	Piper Mountain	X	X	X	X	
Calif.	Pit River Canyon		X	X	X	
Calif.	Piute Cypress		X	X		
Calif.	Piute Mountains	X	X	X	X	
Calif.	Providence Mountains	X	X	X	X	
Calif.	Rainbow Wells	X	X	X		
Calif.	Red Mountain <sup>a</sup>	X	X	X		
Calif.	Red Mountain <sup>a</sup>	X	X	X		
Calif.	Resting Spring Range	X	X	X		
Calif.	Rice Valley		X			
Calif.	Rockhouse		X		X	
Calif.	Rocky Creek-Cache Creek		X		X	
Calif.	Rodman Mountains	X	X	X	X	
Calif.	Sacatar Meadows	X	X		X	
Calif.	Sacramento Mountains	X	X	X		
Calif.	Saddle Peak Mountains		X	X		
Calif.	Saline Dunes	X	X	X		
Calif.	Saline Valley	X	X	X		
Calif.	San Benito Mountain					
Calif.	San Felipe Hills	X	X		X	

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Calif.	San Ysidro Mountain	X		X		
Calif.	Santa Rosa Mountains	X				
Calif.	Sawtooth Mountains A	X			X	
Calif.	Sawtooth Mountains B		X		X	
Calif.	Sawtooth Mountains C				X	
Calif.	Shadow Valley		X	X	X	X
Calif.	Sheep Ridge		X		X	
Calif.	Sheephole/Cadiz	X	X	X		
Calif.	Ship Mountains		X	X		
Calif.	Signal Hill		X	X	X	
Calif.	Silurian Valley		X	X		
Calif.	Skedaddle	X	X	X	X	
Calif.	Skinner Peak		X		X	
Calif.	Slate Range	X	X	X		
Calif.	Sleeping Beauty Mountains	X	X	X	X	
Calif. /Nev.	Slinkard		X	X		
Calif.	Soda Mountains		X	X	X	
Calif.	South Algodones Dunes	X	X	X		
Calif.	South Avawatz Mountains			X		
Calif.	South Bristol Mountains	X	X			
Calif.	South Nopah Range		X	X		
Calif.	South Providence Mountains	X	X	X	X	
Calif.	South Saddle Peak Mountains		X	X		
Calif.	South Warner Contiguous		X		X	
Calif.	Southern Inyo	X	X	X	X	
Calif.	Southern Otay Mountain	X	X	X	X	
Calif.	Stateline		X	X		
Calif.	Stepladder Mountains	X	X	X		
Calif.	Surprise Canyon	X	X	X		
Calif.	Sylvania Mountains	X	X	X	X	
Calif.	Symmes Creek		X		X	
Calif.	Table Mountain <sup>a</sup>	X			X	
Calif.	Table Mountain <sup>a</sup>	X	X	X		
Calif.	Teutonia Peak		X	X	X	
Calif.	Thatcher Ridge		X			
Calif.	Timbered Crater	X	X			
Calif.	Toler Creek	X			X	

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Calif.	Tule Mountain	X	X		X	
Calif.	Tunnison Mountain	X	X		X	
Calif.	Turtle Mountains	X	X	X		
Calif.	Valley View	X	X		X	
Calif.	Ventana Contiguous					
Calif.	Volcanic Tablelands	X	X		X	
Calif.	Walford Springs		X		X	
Calif.	Waucoba Wash	X	X	X		
Calif.	Western Otoy Mountain	X	X		X	
Calif.	Whipple Mountains	X	X	X	X	
Calif.	White Mountain	X	X	X	X	
Calif.	Whitewater	X	X	X	X	
Calif.	Wildrose Canyon		X	X		
Calif.	Woods Mountains	X	X	X		
Calif.	Wyman Creek	X	X	X	X	
Calif.	Yolla Bolly Contiguous		X			
Colo.	Adobe Badlands	X		X	X	
Colo.	American Flats	X		X	X	
Colo.	Ant Hills	X	X		X	
Colo.	Beaver Creek	X	X	X	X	
Colo.	Bill Hare Gulch	X				
Colo.	Black Mountain	X	X		X	X
Colo.	Black Ridge Canyons	X	X	X	X	
Colo.	Browns Canyon	X		X		
Colo. /Utah	Bull Canyon	X	X		X	
Colo.	Bull Gulch	X	X		X	
Colo.	Cahone Canyon	X			X	X
Colo.	Camel Back	X			X	
Colo.	Castle Peak	X	X		X	
Colo.	Chew Winter Camp	X	X		X	
Colo. /Utah	Cross Canyon	X		X	X	X
Colo.	Cross Mountain	X			X	X
Colo.	Demaree Canyon	X	X	X		X
Colo. /Utah	Diamond Breaks	X			X	
Colo.	Dolores River Canyon	X		X		
Colo.	Dominguez Canyon	X	X		X	
Colo.	Eagle Mountain	X		X		

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Colo.	Gunnison Gorge	X		X	X	
Colo.	Hack Lake					
Colo.	Handies Peak	X		X	X	
Colo.	Larson Creek					
Colo.	Little Book Cliffs	X	X	X		X
Colo.	Lower Grape Creek	X	X	X	X	
Colo.	McIntyre Hills	X	X	X	X	
Colo.	Mckenna Peak	X		X	X	
Colo.	Menefee Mountain	X			X	
Colo.	Oil Spring Mountain	X	X		X	X
Colo.	Peterson Draw	X	X		X	
Colo.	Platte River Contiguous	X				
Colo.	Redcloud Peak	X		X	X	
Colo.	San Luis Hills	X	X	X	X	
Colo.	Sand Castle	X	X		X	
Colo.	Sewemup Mesa	X			X	
Colo.	Skull Creek	X	X		X	X
Colo.	Tabeguache Creek	X			X	
Colo.	The Palisade	X	X	X	X	
Colo.	Troublesome	X	X		X	
Colo.	Upper Grape Creek	X	X		X	
Colo.	Vale of Tears	X	X		X	X
Colo.	Weber Mountain	X			X	X
Colo. /Utah	West Cold Spring	X	X		X	X
Colo.	Willow Creek	X	X		X	
Colo.	Windy Gulch	X	X		X	X
Colo. /Utah	Wrigley Mesa/Black Ridge Canyons West	X	X	X	X	
Idaho	Appendicitis Hill	X	X		X	
Idaho	Battle Creek	X	X		X	X
Idaho	Bear Den Butte	X	X		X	
Idaho	Big Jacks Creek	X	X		X	
Idaho	Big Willow Spring	X	X		X	
Idaho	Black Butte	X	X	X		
Idaho	Black Canyon <sup>a</sup>	X	X			X
Idaho	Black Canyon <sup>a</sup>	X	X		X	
Idaho	Borah Peak	X	X			

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Idaho	Boulder Creek	X	X			
Idaho	Box Creek	X				
Idaho	Bruneau River - Sheep Creek	X	X	X	X	
Idaho	Burnt Creek	X	X			
Idaho	Cedar Butte	X	X	X		X
Idaho	China Cup Butte	X	X		X	
Idaho	Corral-Horse Basin	X	X	X		
Idaho	Crystal Lake	X	X		X	
Idaho	Deer Creek	X	X		X	
Idaho	Duncan Creek	X	X		X	
Idaho	Eighteenmile	X	X			
Idaho	Friedman Creek	X	X	X	X	
Idaho	Goldburg	X				
Idaho	Gooding City of Rocks East	X	X		X	
Idaho	Gooding City of Rocks West	X	X		X	
Idaho	Grandmother Mountain	X	X			
Idaho	Great Rift	X			X	
Idaho	Hawley Mountain	X	X			X
Idaho	Hell's Half Acre	X	X			X
Idaho	Henry's Lake	X				
Idaho	Jarbridge River	X		X	X	
Idaho	Jerry Peak	X	X			X
Idaho	Jerry Peak West	X	X			X
Idaho	Juniper Creek	X	X		X	X
Idaho	King Hill Creek	X	X		X	
Idaho	Lava	X	X		X	
Idaho	Little City of Rocks	X	X		X	
Idaho	Little Deer	X	X		X	
Idaho	Little Jacks Creek	X	X		X	
Idaho	Little Owyhee River	X	X		X	X
Idaho	Little Wood River	X			X	
Idaho	Lookout Butte	X	X		X	
Idaho	Lower Salmon Falls Creek	X				X
Idaho	Marshall Mountain	X	X	X	X	
Idaho	Middle Fork Owyhee River	X	X		X	
Idaho	North Fork Owyhee River	X	X		X	X
Idaho	Owyhee River - Deep Creek	X	X		X	X

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Idaho	Owyhee River Canyon	X	X		X	X
Idaho	Petticoat Peak	X	X		X	X
Idaho	Pole Creek	X	X		X	
Idaho	Raven's Eye	X	X		X	
Idaho	Sand Butte	X	X		X	
Idaho	Sand Mountain	X	X		X	X
Idaho	Selkirk Crest		X			
Idaho	Shale Butte	X	X	X	X	
Idaho	Sheep Creek East	X	X		X	
Idaho	Sheep Creek West	X	X		X	
Idaho	Shoshone	X	X	X	X	
Idaho	Snake River Birds of Prey ISA		X		X	
Idaho	Snake River Islands	X	X		X	X
Idaho	Snowhole Rapids	X			X	
Idaho	South Fork Owyhee River	X	X		X	X
Idaho	Squaw Creek Canyon	X	X		X	
Idaho	Upper Deep Creek	X	X		X	
Idaho	West Fork Red Canyon	X	X		X	
Idaho	White Knob Mountains	X	X	X	X	X
Idaho	Worm Creek					
Idaho	Yatahoney Creek	X	X		X	X
Mont.	Antelope Creek	X	X		X	X
Mont.	Axolotl Lakes		X		X	
Mont.	Beaver Meadows	X			X	
Mont.	Bell-Limekiln Canyons	X	X		X	
Mont.	Big Horn Tack-on	X				
Mont.	Billy Creek	X	X		X	X
Mont.	Bitter Creek	X	X		X	X
Mont.	Black Sage	X	X		X	X
Mont.	Blacktail Mountains	X	X	X	X	
Mont.	Bridge Coulee	X	X		X	X
Mont.	Buffalo Creek	X	X			X
Mont.	Burnt Lodge	X	X		X	X
Mont.	Burnt Timber Canyon	X			X	
Mont.	Centennial Mountains ISA	X	X	X	X	
Mont.	Cow Creek	X	X		X	X
Mont.	Dog Creek South	X	X		X	X

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Mont.	East Fork Blacktail Deer Creek	X	X			
Mont.	Elkhorn	X			X	
Mont.	Ervin Ridge	X	X	X	X	X
Mont.	Farlin Creek		X	X	X	
Mont.	Henneberry Ridge	X	X	X	X	
Mont.	Hidden Pasture Creek	X	X		X	
Mont.	Hoodoo Mountain	X	X		X	
Mont.	Humbug Spires ISA	X	X		X	
Mont.	Musselshell Breaks	X	X		X	X
Mont.	North Fork Sun River	X			X	
Mont.	Pryor Mountain	X	X			
Mont.	Quigg West	X				
Mont.	Ruby Mountains	X	X		X	
Mont.	Seven Blackfoot	X	X		X	
Mont.	Sleeping Giant/Sheep Creek	X		X		X
Mont.	Square Butte ISA	X				
Mont.	Stafford	X			X	
Mont.	Terry Badlands	X	X		X	
Mont.	Tobacco Root Tack-ons	X			X	
Mont.	Twin Coulee	X	X	X		X
Mont.	Wales Creek	X	X	X		
Mont.	Woodhawk	X	X		X	X
Mont.	Yellowstone River Island	X				
Mont.	Zook Creek	X	X		X	X
Nev.	Alder Creek	X	X	X	X	
Nev.	Antelope Range	X	X		X	X
Nev.	Arrow Canyon Range	X	X	X		X
Nev.	Augusta Mountains	X	X	X	X	X
Nev.	Bad Lands	X	X		X	
Nev.	Black Rock Desert		X	X		X
Nev.	Blue Eagle	X	X	X	X	X
Nev.	Blue Lakes	X	X	X	X	
Nev.	Bluebell	X	X	X		
Nev.	Buffalo Hills	X	X		X	
Nev.	Burbank Canyons	X		X		
Nev.	Calico Mountains	X	X	X	X	X
Nev.	Carson-Iceberg	X			X	

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Nev.	Cedar Ridge	X	X		X	
Nev.	China Mountain	X	X	X	X	X
Nev.	Clan Alpine Mountains	X	X	X	X	
Nev.	Clover Mountains	X	X	X	X	
Nev.	Cougar Canyon	X	X		X	
Nev.	Delamar Mountains	X	X		X	X
Nev.	Desatoya Mountains	X	X		X	
Nev.	Disaster Peak	X	X	X	X	
Nev.	Dry Valley Rim	X	X	X	X	
Nev.	East Fork High Rock Canyon	X	X	X	X	
Nev.	El Dorado	X	X	X		
Nev.	Evergreen ABC	X	X			
Nev.	Fandango	X	X		X	
Nev.	Far South Egans	X	X		X	
Nev.	Fish and Wildlife #1	X	X	X		
Nev.	Fish and Wildlife #2	X	X			
Nev.	Fish and Wildlife #3	X	X			
Nev.	Five Springs	X	X		X	
Nev.	Fortification Range	X	X		X	X
Nev.	Fox Range	X	X	X	X	X
Nev.	Gabbs Valley Range	X	X	X	X	
Nev.	Garret Buttes	X	X		X	
Nev.	Goshute Canyon	X	X	X	X	X
Nev.	Goshute Canyon ISA	X	X	X	X	
Nev.	Goshute Peak	X	X	X	X	
Nev.	Grapevine Mountains	X	X	X		
Nev.	Heusser Mountain Bristlecone Pine ISA	X		X	X	X
Nev.	High Rock Canyon	X	X	X		
Nev.	High Rock Lake	X	X	X		X
Nev.	Ireteba Peaks	X	X			
Nev.	Job Peak	X	X	X	X	
Nev.	Jumbo Springs	X				
Nev.	Kawich	X	X	X	X	X
Nev.	Lahontan ISA		X			
Nev.	LaMadre Mountains	X	X		X	
Nev.	Lime Canyon	X	X	X	X	

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<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Nev.	Little High Rock Canyon	X	X		X	
Nev.	Little Humboldt River	X	X	X	X	
Nev.	Logandale	X	X		X	X
Nev.	Marble Canyon	X	X	X	X	
Nev.	Massacre Rim	X	X		X	
Nev.	Meadow Valley Range	X	X	X	X	
Nev.	Million Hills		X	X		X
Nev.	Morey Peak	X	X		X	
Nev.	Mormon Mountains	X	X	X		X
Nev.	Mount Grafton	X	X	X	X	
Nev.	Mount Limbo	X	X		X	
Nev.	Mount Stirling	X	X	X	X	
Nev.	Mountain Meadow ISA					
Nev.	Muddy Mountains	X	X			
Nev.	Nellis ABC	X	X			X
Nev.	North Black Rock Range	X	X			
Nev.	North Fork of the Little Humboldt River	X	X		X	X
Nev.	North Jackson Mountains	X	X	X		X
Nev.	North McCullough		X	X		X
Nev.	Owyhee Canyon	X	X		X	X
Nev.	Pahute Peak	X	X	X		X
Nev.	Palisade Mesa	X	X	X	X	X
Nev.	Park Range	X		X	X	
Nev.	Pasnip Peak	X	X	X	X	
Nev.	Pigeon Spring		X	X		
Nev.	Pine Creek	X	X	X	X	X
Nev.	Pinyon Joshua Transition Research ISA	X	X	X	X	
Nev.	Pole Creek	X	X	X	X	
Nev.	Poodle Mountain	X	X	X		
Nev.	Pueblo Mountains	X	X	X	X	
Nev.	Quail Springs	X	X	X		
Nev.	Queer Mountain		X	X		
Nev.	Rawhide Mountain	X	X	X	X	X
Nev.	Red Spring	X	X		X	
Nev.	Resting Spring Range		X	X	X	
Nev.	Riordan's Well	X	X		X	

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Nev.	Roberts Mountain	X	X	X		
Nev.	Rough Hills	X	X	X	X	
Nev.	Selenite Mountains	X	X		X	
Nev.	Sheldon Contiguous	X	X		X	
Nev.	Shoshone Ponds ISA		X	X	X	X
Nev.	Shoshone Pygmy Sage ISA	X		X	X	X
Nev.	Silver Peak Range	X	X	X		
Nev.	Simpson Park	X	X	X		X
Nev.	Skedaddle Mountain	X	X	X	X	
Nev.	South Egan Range	X	X		X	
Nev.	South Fork Owyhee River	X	X		X	X
Nev.	South Jackson Mountains	X	X	X		X
Nev.	South McCullough Mountains	X	X	X	X	X
Nev.	South Pahroc	X	X	X	X	X
Nev.	South Pequop	X	X	X	X	
Nev.	South Reveille		X	X	X	
Nev.	Stillwater Range	X	X	X	X	
Nev.	Sunrise Mountain ISA		X	X		
Nev.	Swamp Cedar ISA	X		X	X	X
Nev.	Table Mountain	X	X	X	X	
Nev.	The Wall	X	X		X	X
Nev.	Tobin Range		X	X	X	X
Nev.	Twin Peaks	X	X		X	
Nev.	Virgin Mountain ISA	X		X	X	
Nev.	Wall Canyon	X	X	X	X	
Nev.	Weepah Spring	X	X	X	X	
Nev.	White Rock Range	X	X	X	X	
Nev.	Worthington Mountains	X	X	X	X	
Nev.	Yellow Rock Canyon	X	X	X	X	
N.Mex.	Aden Lava Flow	X	X		X	
N.Mex.	Ah-shi-sle-pah	X	X		X	
N.Mex.	Alamo Hueco Mountains	X				
N.Mex.	Antelope	X	X		X	
N.Mex./Ariz.	Apache Box	X		X	X	
N.Mex.	Big Hatchet Mountains	X		X	X	
N.Mex.	Blue Creek	X	X		X	
N.Mex.	Brokeoff Mountains	X	X		X	X

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State	Study area	Primitive recreation	Motorized/ mechanized recreation	Mining	Grazing	Mineral leasing
N.Mex.	Cabezon	X	X		X	
N.Mex.	Cedar Mountains				X	
N.Mex.	Chamisa	X	X		X	X
N.Mex.	Continental Divide	X	X		X	
N.Mex.	Cooke's Range	X	X	X	X	
N.Mex.	Cowboy Spring	X	X	X	X	
N.Mex.	Culp Canyon		X		X	
N.Mex.	Devil's Backbone	X				
N.Mex.	Eagle Peak	X	X		X	
N.Mex.	Empedrado	X	X		X	X
N.Mex.	Florida Mountains	X	X	X	X	
N.Mex.	Gila Lower Box	X		X	X	
N.Mex.	Guadalupe Canyon ISA	X				
N.Mex.	Horse Mountain	X			X	
N.Mex.	Ignacio Chavez	X	X		X	X
N.Mex.	Jornada del Muerto	X	X		X	
N.Mex.	La Lena	X	X		X	X
N.Mex.	Las Uvas Mountains	X	X		X	
N.Mex.	Little Black Peak/Carrizozo Lava Flow	X	X			
N.Mex.	Lonesome Ridge/Devil's Den/ McKittrick Canyon	X		X	X	
N.Mex.	Manzano	X			X	
N.Mex.	Mathers ISA					
N.Mex.	Mesita Blanca	X	X		X	
N.Mex.	Mudgetts	X				X
N.Mex.	Ojito	X	X		X	X
N.Mex.	Organ Mountains	X		X	X	
N.Mex.	Petaca Pinta	X	X		X	
N.Mex.	Presilla	X	X			
N.Mex.	Rio Chama	X	X		X	
N.Mex.	Robledo Mountains	X			X	
N.Mex.	Sabinoso	X	X		X	
N.Mex.	San Antonio	X	X		X	
N.Mex.	Sierra de las Canas	X	X		X	X
N.Mex.	Sierra Ladrones	X			X	
N.Mex.	Stallion	X	X		X	
N.Mex.	Veranito	X	X		X	

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N.Mex.	West Potrillo Mountains/ Mount Riley	X		X	X	
Oreg.	Abert Rim	X		X	X	
Oreg.	Aldrich Mountain	X	X		X	
Oreg.	Alvord Desert	X	X		X	
Oreg.	Alvord Peak	X	X	X	X	
Oreg.	Badlands	X	X		X	
Oreg.	Basque Hills	X	X		X	
Oreg.	Beaver Dam Creek	X	X		X	
Oreg.	Blitzen River	X	X		X	
Oreg.	Blue Canyon	X	X	X	X	
Oreg.	Bowden Hills	X	X		X	
Oreg.	Brewer Spruce ISA	X	X	X		
Oreg.	Bridge Creek	X	X		X	
Oreg.	Camp Creek	X	X		X	
Oreg.	Castle Rock	X	X		X	
Oreg.	Cedar Mountain	X	X		X	
Oreg.	Clarks Butte	X			X	
Oreg.	Cottonwood Creek	X	X		X	
Oreg.	Cougar Well	X	X	X	X	
Oreg.	Deschutes Canyon - Steelhead Falls	X	X		X	
Oreg.	Devils Garden Lava Bed	X	X		X	
Oreg.	Diablo Mountain	X			X	
Oreg.	Disaster Peak	X	X	X	X	
Oreg.	Douglas-Fir ISA	X				
Oreg.	Dry Creek	X	X	X	X	
Oreg.	Dry Creek Buttes	X	X	X	X	
Oreg.	East Alvord	X	X		X	
Oreg.	Fifteenmile Creek	X	X	X	X	
Oreg.	Fish Creek Rim	X	X		X	
Oreg.	Four Craters Lava Bed	X	X		X	
Oreg.	Gerry Mountain	X	X		X	
Oreg.	Gold Creek	X	X	X	X	
Oreg.	Guano Creek	X	X			
Oreg.	Hampton Butte	X	X	X	X	
Oreg.	Hawk Mountain	X	X		X	
Oreg.	Heath Lake				X	

(continued)

**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Oreg.	High Steens	X	X	X	X	
Oreg.	Home Creek	X	X		X	
Oreg.	Homestead	X	X	X	X	
Oreg.	Honeycombs	X	X	X	X	
Oreg.	Indian Creek	X	X	X	X	
Oreg.	Jordan Craters	X	X		X	
Oreg.	Little Blitzen Gorge	X	X		X	
Oreg.	Little Sink ISA	X				
Oreg.	Lookout Butte	X	X		X	
Oreg.	Lost Forest ISA	X	X		X	
Oreg.	Lower John Day	X	X		X	X
Oreg.	Lower Owyhee Canyon	X	X	X	X	
Oreg.	Lower Stonehouse	X	X		X	
Oreg.	Mahogany Ridge	X	X		X	
Oreg.	Malheur River/Bluebucket	X	X		X	
Oreg.	McGraw Creek	X			X	
Oreg.	Mountain Lakes	X				
Oreg.	North Fork	X	X		X	
Oreg.	North Pole Ridge	X	X		X	X
Oreg.	North Sisters Rocks	X				
Oreg.	Oregon Canyon	X	X		X	
Oreg.	Orejana Canyon	X			X	
Oreg.	Owyhee Breaks	X	X	X	X	
Oreg.	Owyhee River Canyon	X	X		X	X
Oreg.	Palomino Hills		X		X	
Oreg.	Pine Creek	X	X	X	X	
Oreg.	Pueblo Mountains	X	X	X	X	
Oreg.	Red Mountain	X	X		X	
Oreg.	Rincon	X	X		X	
Oreg.	Saddle Butte	X	X		X	
Oreg.	Sage Hen Hills	X			X	
Oreg.	Sand Dunes	X	X		X	
Oreg.	Sand Hollow	X	X	X	X	X
Oreg.	Sheep Gulch	X	X	X	X	
Oreg.	Sheep Mountain	X	X		X	
Oreg.	Sheepshead Mountains	X	X			
Oreg.	Slocum Creek	X	X		X	

(continued)

**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Oreg.	Soda Mountains	X			X	
Oreg.	South Fork	X	X	X	X	X
Oreg.	South Fork of Donner und Blitzen River	X	X		X	
Oreg.	Spaulding	X	X		X	
Oreg.	Sperry Creek	X	X		X	
Oreg.	Spring Basin	X	X	X	X	X
Oreg.	Squaw Ridge Lava Bed	X	X		X	
Oreg.	Stonehouse	X	X		X	
Oreg.	Table Mountain		X			
Oreg.	Thirtymile	X	X		X	X
Oreg.	Twelvemile Creek	X	X		X	
Oreg.	Upper Leslie Gulch	X			X	
Oreg.	Upper West Little Owyhee	X	X		X	
Oreg.	West Peak				X	
Oreg.	Western Juniper ISA	X				
Oreg.	Wild Horse Basin	X	X	X	X	
Oreg.	Wildcat Canyon	X	X			
Oreg.	Willow Creek	X	X		X	
Oreg.	Winter Range	X			X	
Oreg.	Zwagg Island	X				
Utah	Beartrap Canyon	X				X
Utah	Behind-the-Rocks	X		X	X	X
Utah /Colo.	Black Ridge Canyons West	X	X	X	X	
Utah	Bridger Jack Mesa			X		
Utah	Bull Canyon	X	X		X	
Utah	Bull Mountain		X	X	X	
Utah	Burning Hills		X	X	X	X
Utah	Butler Wash	X	X		X	
Utah	Canaan Mountain	X		X	X	X
Utah	Carcass Canyon	X	X	X	X	X
Utah	Cedar Mountains	X	X	X	X	
Utah	Cheesebox Canyon	X	X	X	X	
Utah	Coal Canyon	X			X	X
Utah	Conger Mountain		X		X	
Utah	Cottonwood Canyon	X	X			
Utah/ Nev.	Cougar Canyon	X	X		X	

(continued)

**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Utah	Crack Canyon	X	X	X	X	
Utah /Colo.	Cross Canyon	X		X	X	X
Utah	Daniels Canyon	X				X
Utah	Dark Canyon & Middle Point	X	X		X	
Utah	Death Ridge	X			X	X
Utah	Deep Creek	X			X	
Utah	Deep Creek Mountains	X	X	X	X	
Utah	Desolation Canyon	X		X	X	X
Utah	Devils Canyon	X	X		X	
Utah/ Colo.	Diamond Breaks	X	X		X	
Utah	Dirty Devil	X	X		X	X
Utah	Escalante Canyons Tract 5	X			X	
Utah	Fiddler Butte	X	X	X	X	X
Utah	Fiftymile Mountain	X	X	X		X
Utah	Fish Creek Canyon	X	X		X	X
Utah	Fish Springs Range	X	X	X	X	
Utah	Floy Canyon	X	X	X	X	X
Utah	Flume Canyon	X			X	X
Utah	Fremont Gorge	X			X	
Utah	French Spring-Happy Canyon	X	X	X	X	X
Utah	Goose Creek Canyon	X				
Utah	Grand Gulch ISA Complex	X	X		X	
Utah	Horseshoe Canyon (North)	X	X	X	X	X
Utah	Horseshoe Canyon (South)	X	X		X	X
Utah	Howell Peak		X	X	X	X
Utah	Indian Creek	X	X		X	
Utah	Jack Canyon	X	X		X	X
Utah	King Top		X	X	X	X
Utah	LaVerkin Creek	X			X	
Utah	Little Rockies	X		X	X	
Utah	Lost Spring Canyon	X			X	
Utah	Mancos Mesa	X	X	X	X	X
Utah	Mexican Mountain	X	X	X	X	X
Utah	Mill Creek Canyon	X	X	X	X	X
Utah	Moquith Mountain	X	X		X	
Utah	Mount Ellen-Blue Hills	X	X	X	X	
Utah	Mount Hillers	X	X	X	X	X

(continued)



**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Utah	Mt. Pennel	X		X	X	
Utah	Mud Spring Canyon	X			X	X
Utah	Muddy Creek	X		X	X	
Utah	Mule Canyon	X	X		X	
Utah	Negro Bill Canyon	X	X	X	X	X
Utah	North Escalante Canyons/The Gulch	X	X	X	X	X
Utah	North Fork Virgin River	X	X	X	X	
Utah	North Stansbury Mountains	X	X		X	X
Utah	Notch Peak	X	X	X	X	X
Utah	Orderville Canyon	X		X	X	
Utah	Paria-Hackberry/Paria-Hackberry 202	X	X	X	X	X
Utah	Parunuweap Canyon	X	X		X	
Utah	Phipps-Death Hollow	X	X		X	X
Utah	Red Butte	X			X	
Utah	Red Mountain/Red Mountain 202	X	X		X	
Utah	Road Canyon	X	X	X	X	X
Utah	Rockwell				X	
Utah	San Rafael Reef	X	X	X	X	X
Utah	Scorpion	X	X		X	
Utah	Sids Mountain	X	X	X	X	X
Utah	South Needles	X				
Utah	Spring Creek Canyon	X		X	X	
Utah	Spruce Canyon	X			X	X
Utah/ Colo.	Squaw/Papoose Canyon	X		X	X	X
Utah	Steep Creek	X	X	X	X	X
Utah	Swasey Mountain	X	X	X	X	X
Utah	Taylor Creek Canyon	X				
Utah	The Blues	X	X		X	X
Utah	The Cockscomb	X	X	X	X	X
Utah	The Watchman	X			X	
Utah	Turtle Canyon	X			X	X
Utah	Wah Wah Mountains	X		X	X	X
Utah	Wahweap		X	X	X	X
Utah/ Colo.	West Cold Spring	X	X		X	X
Utah	Westwater Canyon	X	X	X	X	

(continued)

**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Utah	White Rock Range	X	X	X	X	
Utah	Winter Ridge	X	X		X	X
Wash.	Chopaka Mountain	X		X	X	
Wyo.	Adobetown		X		X	X
Wyo.	Alkali Basin-East Sand Dunes	X			X	
Wyo.	Alkali Creek	X	X	X	X	
Wyo.	Alkali Draw	X			X	X
Wyo.	Bennett Mountains		X			
Wyo.	Big Horn Tack-On	X				
Wyo.	Bobcat Draw Badlands	X	X		X	
Wyo.	Buffalo Hump				X	
Wyo.	Cedar Mountain	X	X		X	
Wyo.	Copper Mountain	X		X		
Wyo.	Devils Playground - Twin Buttes	X				
Wyo.	DuBois Badlands	X				
Wyo.	Encampment River Canyon	X	X	X	X	
Wyo.	Ferris Mountains	X	X		X	X
Wyo.	Fortification Creek				X	X
Wyo.	Gardner Mountain				X	
Wyo.	Honeycomb Buttes	X		X	X	
Wyo.	Honeycombs		X		X	
Wyo.	Lake Mountain	X			X	X
Wyo.	Lankin Dome	X	X	X		
Wyo.	McCullough Peaks	X	X	X	X	X
Wyo.	Medicine Lodge	X	X		X	
Wyo.	Miller Springs	X	X		X	
Wyo.	North Fork — Powder River				X	X
Wyo.	Oregon Buttes	X			X	
Wyo.	Owl Creek	X			X	
Wyo.	Prospect Mountain	X	X	X	X	
Wyo.	Pryor Mountain					
Wyo.	Raymond Mountain	X	X		X	
Wyo.	Red Butte					X
Wyo.	Red Creek Badlands	X			X	
Wyo.	Red Lake	X			X	
Wyo.	Sand Dunes	X			X	X
Wyo.	Savage Peak	X	X		X	

(continued)

**Appendix I  
Status and Uses of BLM Wilderness Study  
Areas**

<b>State</b>	<b>Study area</b>	<b>Primitive recreation</b>	<b>Motorized/ mechanized recreation</b>	<b>Mining</b>	<b>Grazing</b>	<b>Mineral leasing</b>
Wyo.	Scab Creek ISA					
Wyo.	Sheep Mountain					X
Wyo.	South Pinnacles	X			X	
Wyo.	Split Rock	X	X	X		
Wyo.	Sweetwater Canyon	X	X	X	X	
Wyo.	Trapper Creek	X	X		X	
Wyo.	Whiskey Mountain	X				
Wyo.	Whitehorse Creek	X		X	X	

\*BLM identifies these wilderness study areas as separate areas in its study report.

# Status and Uses of Forest Service Wilderness Study Areas

As of April 1993, the Forest Service managed 117 wilderness study areas (WSA), comprising approximately 6.6 million acres, that were identified—through one of several means—as having potential for inclusion in the National Wilderness Preservation System. As of April 1993, the Forest Service had recommended 4.6 million (or about 70 percent) of the study area acres for designation as wilderness. In addition, the Forest Service manages 387 wildernesses, comprising over 34 million acres. The study area acreage represents 3.5 percent of the over 191 million total acres managed by the Service.

Most of the study areas host a variety of uses. These uses include primitive recreation, such as hiking, fishing, and horseback riding; motorized and mechanized recreation, such as riding snowmobiles, all-terrain vehicles (ATVs), and mountain bikes; and nonrecreational uses such as livestock grazing and mining.

## Status of Forest Service Study Areas

Of the 117 areas, 40 were designated study areas by the Congress, through various laws. Accordingly, unless the law specified otherwise, these areas require a congressional decision to release them from study area status. Another 49 study areas were identified through the forest planning process. The Forest Service can release these areas from study if the approved forest plans for the areas do not recommend that the areas be designated as wilderness. The remaining 28 study areas were identified under an earlier Forest Service process, the Roadless Area Review and Evaluation II (RARE II) process.<sup>1</sup> As of April 1993, the Forest Service's wilderness study areas have been in study area status for an average of about 10 years.

Of the 117 areas, the Forest Service has recommended that 78 (either in whole or in part), comprising over 4.6 million acres, be designated as wilderness. From the congressionally mandated study areas, 2.5 million acres in 19 areas have been recommended for inclusion in the wilderness system. From the areas identified through the forest planning process, 1.8 million acres in 45 areas have been recommended. From the areas identified through the RARE II process, about 322,000 acres in 14 areas have been recommended. For seven areas, no recommendations have yet been made.

<sup>1</sup>Forest Service studies of national forest lands suitable for wilderness designation were initially conducted under the Roadless Area Review and Evaluation. A Roadless Area Review and Evaluation II was conducted under the mandates of the Forest and Rangeland Renewable Resources Planning Act of 1974, as amended by the National Forest Management Act of 1976 (16 U.S.C. 1600-1614).

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

Table II.1 shows, by state, the number and acreage of Forest Service study areas, as well as the acreage recommended for wilderness designation.

**Table II.1: Forest Service Study Areas and Acreage Recommended for Wilderness Designation, by State**

State	Study areas		Areas and acreage recommended for wilderness designation		
	Number of areas	Number of acres	Number of areas	Number of acres	Percent of total
Alaska	1	2,116,000	1	1,703,000	80.5
Arizona	3	90,800	1	62,000	68.3
California	16	624,035	12	309,336	49.6
Colorado	18	670,461	11	401,428	59.9
Florida	2	10,111	0	0	0.0
Idaho	19	1,311,404	19	1,311,404	100.0
Montana	37	1,402,431	32	798,756	57.0
New Mexico	4	92,236	1	30,500	33.1
North Carolina	5	27,120	3	15,430	57.0
Oregon	6	36,459	0	0	0.0
Puerto Rico	1	6,703	1	6,703	100.0
South Carolina	1	1,969	1	1,969	100.0
South Dakota	4	52,476	Under study	Under study	Under study
Washington	1	6,400	0	0	0.0
Wyoming	3	177,868	Under study	Under study	Under study
<b>Total</b>	<b>117<sup>a</sup></b>	<b>6,626,473</b>	<b>78<sup>a</sup></b>	<b>4,640,526</b>	<b>70.0</b>

<sup>a</sup>Columns will not sum to total due to some wilderness study areas which overlap two states.

Table II.2 provides information on each study area. The table shows, by state, (1) the forest in which each study area is located; (2) the action that created the study area; (3) the date of the action creating the study area; (4) the area's acreage; and (5) the area acreage, if any, that has been recommended for inclusion in the wilderness system.

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

**Table II.2: Forest Service Study Areas' Location, Creation, and Acreage Recommended for Wilderness Designation**

<b>State</b>	<b>Study area</b>	<b>Forest</b>	<b>Action that created study area</b>	<b>Date of action</b>	<b>Study area acreage</b>	<b>Acreage recommended for wilderness</b>
Alaska	Nellie Juan- College Fiord	Chugach	P.L. 96-487	12/80	2,116,000	1,703,000
Ariz.	Bunk Robinson	Coronado	P.L. 96-550	12/80	15,960	0
Ariz.	Mount Graham	Coronado	P.L. 98-406	08/84	62,000	62,000
Ariz.	Whitmire Canyon	Coronado	P.L. 96-550	12/80	12,840	0
Calif.	Butt Mountain	Lassen	RARE II	01/79	8,300	0
Calif.	Caples Creek	Eldorado	RARE II	01/79	17,340	13,694
Calif.	Carson-Iceberg	Stanislaus/ Toiyabe	RARE II	01/79	39,100	28,800
Calif.	Heart Lake	Lassen	RARE II	01/79	9,289	9,289
Calif.	Hoover (East)	Toiyabe	RARE II	01/79	23,500	23,500
Calif.	Hoover (West)	Toiyabe	P.L. 98-425	09/84	49,200	49,200
Calif.	Ishi B	Lassen	RARE II	01/79	20,027	0
Calif.	Mill Creek	Lassen	RARE II	01/79	7,990	7,580
Calif.	Mount Eddy	Shasta- Trinity	RARE II	01/79	7,720	0
Calif.	Paiute	Inyo	RARE II	01/79	130,563	47,500
Calif.	Sweetwater Mountain	Toiyabe	RARE II	01/79	48,000	0
Calif.	Table Mountain	Inyo	RARE II	01/79	4,138	4,138
Calif.	Tioga Lake	Inyo	RARE II	01/79	920	920
Calif.	Trail Lake B	Lassen	RARE II	01/79	1,115	815
Calif.	White Mountains	Inyo	RARE II	01/79	251,868	120,000
Calif.	Wild Cattle Mountain	Lassen	RARE II	01/79	4,965	3,900
Colo.	Buffalo Peaks	Pike/San Isabel	P.L. 96-560	12/80	56,950	36,060
Colo.	Davis Peak	Routt	RARE II	01/79	8,100	8,100
Colo.	Fossil Ridge	Gunnison	P.L. 96-560	12/80	47,400	0
Colo.	Greenhorn Mountain	San Isabel	P.L. 96-560	12/80	22,300	22,300
Colo.	Lost Creek	Pike	RARE II	01/79	20,723	0
Colo.	Piedra	San Juan	P.L. 96-560	12/80	41,500	41,500
Colo.	Powderhorn/ Cannib	Gunnison	RARE II	01/79	31,990	13,599
Colo.	Sangre De Cristo	San Isabel/ Rio Grande	P.L. 96-560	12/80	218,000	190,469
Colo.	Service Creek	Routt	RARE II	01/79	39,860	39,860
Colo.	South San Juan	San Juan	P.L. 96-560	12/80	32,770	0
Colo.	Spanish Peaks	San Isabel	P.L. 96-560	12/80	19,570	0
Colo.	Spruce Creek	White River	P.L. 95-237	02/78	8,000	8,000
Colo.	St. Louis Peak	Arapaho	RARE II	01/79	12,800	0
Colo.	Vasquez Peak	Arapaho	P.L. 96-560	12/80	12,800	12,800

(continued)

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

<b>State</b>	<b>Study area</b>	<b>Forest</b>	<b>Action that created study area</b>	<b>Date of action</b>	<b>Study area acreage</b>	<b>Acreage recommended for wilderness</b>
Colo.	Weminuche Additions	San Juan	P.L. 98-141	10/83	12,080	8,400
Colo.	West Needle	San Juan	P.L. 96-560	12/80	20,340	20,340
Colo.	Wheeler Geologic	Rio Grande	P.L. 96-560	12/80	11,390	0
Colo.	Williams Fork	Arapaho	RARE II	12/80	53,888	0
Fla.	Clear Lake	Apalachicola	P.L. 98-430	09/84	5,625	0
Fla.	Natural Area	Osceola	P.L. 98-430	09/84	4,486	0
Idaho	Borah Peak	Challis	Forest plan	06/87	119,000	119,000
Idaho	Boulder/White Clouds	Sawtooth/ Challis	P.L. 92-400	08/72	224,350	224,350
Idaho	Hanson Lakes	Sawtooth/ Boise	P.L. 92-400	08/72	32,639	32,639
Idaho	Hoodoo (Great Burn)	Clearwater	Forest plan	09/87	113,000	113,000
Idaho	Italian Peak	Targhee	Forest plan	04/86	50,820	50,820
Idaho	Lionhead	Targhee	Forest plan	04/86	14,400	14,400
Idaho	Mallard-Larkins	St. Joe/ Clearwater	Forest plan	09/87	145,200	145,200
Idaho	Mount Naomi	Caribou	Forest plan	09/85	14,600	14,600
Idaho	Needles	Payette/ Boise	Forest plan	05/88	99,786	99,786
Idaho	Pioneer Mountain	Sawtooth/ Challis	Forest plan	06/87	109,911	109,911
Idaho	Red Mountain	Boise	Forest plan	04/90	88,024	88,024
Idaho	Salmo-Priest Additions	Kaniksu	Forest plan	09/87	17,600	17,600
Idaho	Scotchman Peaks	Kaniksu	Forest plan	09/87	23,900	23,900
Idaho	Secesh	Payette	Forest plan	05/88	116,189	116,189
Idaho	Selkirk Crest	Kaniksu	Forest plan	09/87	26,700	26,700
Idaho	Selway-Bitterroot Additions	Clearwater	Forest plan	09/87	18,500	18,500
Idaho	Ten Mile/Black Warrior	Boise	Forest plan	04/90	78,785	78,785
Idaho	Winegar Hole	Targhee	Forest plan	04/86	2,000	2,000
Idaho	Worm Creek	Caribou	Forest plan	09/85	16,000	16,000
Mont.	Absaroka Addition (Republic Mountain)	Gallatin	Forest plan	09/87	480	480
Mont.	Benchmark	Lewis & Clark	Forest plan	06/86	3,630	3,630
Mont.	Big Log	Helena	Forest plan	05/86	10,000	10,000
Mont.	Big Snowies	Lewis & Clark	P.L. 95-150	11/77	97,885	0
Mont.	Bob Marshall Addition (Limestone Cave)	Flathead	Forest plan	12/85	5,187	5,187
Mont.	Bob Marshall Addition (Swan Front/Bunker Creek)	Flathead	Forest plan	12/85	54,815	54,815
Mont.	Bob Marshall Additions	Lolo	Forest plan	05/86	69,250	69,250
Mont.	Burnt Mtn	Custer	Forest plan	10/86	3,980	3,980
Mont.	Cabinet Mountains Addition	Kootenai	Forest plan	09/87	35,500	35,500

(continued)

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

<b>State</b>	<b>Study area</b>	<b>Forest</b>	<b>Action that created study area</b>	<b>Date of action</b>	<b>Study area acreage</b>	<b>Acreage recommended for wilderness</b>
Mont.	Centennial Mountains (Mount Jefferson)	Beaverhead	Forest plan	04/86	4,474	4,474
Mont.	East Pioneers	Beaverhead	Forest plan	04/86	79,555	79,555
Mont.	Electric Peak	Helena	Forest plan	05/86	14,300	14,300
Mont.	Frank Church Addition (Blue Joint)	Bitterroot	P.L. 95-150	11/77	65,860	28,500
Mont.	Great Bear Addition (Slippery Bill)	Flathead	Forest plan	12/85	6,295	6,295
Mont.	Great Burn (Hoodoo)	Lolo	Forest plan	05/86	89,530	89,530
Mont.	Hyalite- Porcupine- Buffalo Horn	Gallatin	P.L. 95-150	11/77	105,700	0
Mont.	Italian Peak	Beaverhead	Forest plan	04/86	25,664	25,664
Mont.	Jewel Basin	Flathead	Forest plan	12/85	31,783	31,783
Mont.	Lionhead (Earthquake)	Gallatin	Forest plan	09/87	21,461	21,461
Mont.	Lost Water Canyon	Custer	Forest plan	10/86	5,812	5,812
Mont.	Middle Fork Judith	Lewis & Clark	P.L. 95-150	11/77	92,000	0
Mont.	Mount Baldy	Helena	Forest plan	05/86	8,600	8,600
Mont.	Mystic Lake	Custer	Forest plan	10/86	300	300
Mont.	North Big Hole Addition to the Anaconda-Pintler	Beaverhead	Forest plan	04/86	6,571	6,571
Mont.	Renshaw	Lewis & Clark	Forest plan	06/86	19,144	19,144
Mont.	Sapphire	Deerlodge/ Bitterroot	P.L. 95-150	11/77	116,530	0
Mont.	Scotchman Peaks	Kootenai	Forest plan	09/87	36,200	36,200
Mont.	Selway-Bitterroot Additions	Lolo/ Bitterroot	Forest plan	05/86	52,295	52,295
Mont.	Silver King-Falls Creek	Lewis & Clark	Forest plan	06/86	18,190	18,190
Mont.	Sliderock (Quigg)	Lolo	Forest plan	05/86	60,830	60,830
Mont.	Stateline	Custer	Forest plan	10/86	810	810
Mont.	Storm Lake	Beaverhead/ Deerlodge	Forest plan	04/86	5,843	5,843
Mont.	Ten Lakes	Kootenai	P.L. 95-150	11/77	34,200	33,000
Mont.	Teton	Lewis & Clark	Forest plan	06/86	10,870	10,870
Mont.	Timberline Creek	Custer	Forest plan	10/86	800	800
Mont.	West Big Hole	Beaverhead	Forest plan	04/86	55,087	55,087
Mont.	West Pioneer	Beaverhead	P.L. 95-150	11/77	153,000	0
N.Mex.	Columbine-Hondo	Carson	P.L. 96-550	12/80	43,276	30,500
N.Mex.	Guadalupe Escarpment	Lincoln	P.L. 96-550	12/80	21,300	0
N.Mex.	Hells Hole	Gila	P.L. 96-550	12/80	18,860	0
N.Mex.	Lower San Francisco	Gila	P.L. 96-550	12/80	8,800	0

(continued)



**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

State	Study area	Forest	Action that created study area	Date of action	Study area acreage	Acreage recommended for wilderness
N.C.	Craggy Mountain	Pisgah	P.L. 98-324	06/84	2,580	2,580
N.C.	Harper Creek	Pisgah	P.L. 98-324	06/84	7,140	7,140
N.C.	Lost Cove	Pisgah	P.L. 98-324	06/84	5,710	5,710
N.C.	Overflow	Nantahala	P.L. 98-324	06/84	3,200	0
N.C.	Snowbird	Nantahala	P.L. 98-324	06/84	8,490	0
Oreg.	Deschutes Canyon	Ochoco	Forest plan	08/89	10,231	0
Oreg.	Dunns Bluff	Wallowa- Whitman	Forest plan	04/90	1,013	0
Oreg.	Homestead	Wallowa- Whitman	RARE II	01/79	5,733	0
Oreg.	Mount Hagan	Willamette	Forest plan	09/90	6,292	0
Oreg.	Olallie/Mount Jefferson	Mount Hood	RARE II	01/79	7,770	0
Oreg.	Pine Creek	Malheur	RARE II	01/79	5,420	0
P.R.	El Toro	Caribbean	Forest plan	02/86	6,703	6,703
S.C.	Ellicott Rock Extension	Francis Marion-Sumter	Forest plan	08/85	1,969	1,969
S.Dak.	Beaver Park	Black Hills	RARE II	01/79	5,036	<sup>a</sup>
S.Dak.	Cheyenne River	Nebraska	RARE II	01/79	7,050	<sup>a</sup>
S.Dak.	Indian Creek	Nebraska	RARE II	01/79	24,670	<sup>a</sup>
S.Dak.	Red Shirt	Nebraska	RARE II	01/79	15,720	<sup>a</sup>
Wash.	Wobbly	Gifford- Pinchot	Forest plan	06/90	6,400	0
Wyo.	High Lakes	Shoshone	P.L. 98-550	10/84	14,700	<sup>a</sup>
Wyo.	Palisades	Bridger/Teton /Targhee	P.L. 98-550	10/84	130,768	<sup>a</sup>
Wyo.	Shoal Creek	Bridger/Teton	P.L. 98-550	10/84	32,400	<sup>a</sup>

<sup>a</sup>No recommendation has been made for these areas.

## Study Area Uses

Wilderness study areas receive a variety of uses. We categorized the common uses into three categories: primitive recreation, motorized or mechanized recreation, and nonrecreational uses such as mining, livestock grazing, and mineral leasing. Table II.3 shows the types of uses that Forest Service officials said occur in the study areas.

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

**Table II.3: Uses Occurring in Forest Service Study Areas by State**

State	Study area	Uses				
		Primitive recreation	Motorized/mechanized recreation	Mining	Grazing	Mineral leasing
Alaska	Nellie Juan-College Fiord	X	X	X		
Ariz.	Bunk Robinson	X			X	
Ariz.	Mount Graham	X			X	
Ariz.	Whitmire Canyon	X			X	
Calif.	Butt Mountain	X			X	
Calif.	Caples Creek	X	X		X	
Calif.	Carson-Iceberg	X	X	X	X	
Calif.	Heart Lake	X	X		X	
Calif.	Hoover (East)	X			X	
Calif.	Hoover (West)	X			X	
Calif.	Ishi B	X	X		X	
Calif.	Mill Creek	X	X		X	
Calif.	Mount Eddy	X	X		X	
Calif.	Paiute	X	X	X	X	
Calif.	Sweetwater Mountain	X	X	X	X	
Calif.	Table Mountain	X		X		
Calif.	Tioga Lake	X		X		
Calif.	Trail Lake B	X	X		X	
Calif.	White Mountains	X		X	X	
Calif.	Wild Cattle Mountain	X	X		X	
Colo.	Buffalo Peaks	X	X	X	X	
Colo.	Davis Peak	X		X	X	
Colo.	Fossil Ridge	X	X	X	X	
Colo.	Greenhorn Mountain	X	X	X	X	X
Colo.	Lost Creek	X	X	X	X	
Colo.	Piedra	X	X	X	X	X
Colo.	Powderhorn/Cannib	X	X	X	X	
Colo.	Sangre De Cristo	X	X	X	X	X
Colo.	Service Creek	X	X	X	X	
Colo.	South San Juan	X	X	X	X	X
Colo.	Spanish Peaks	X	X	X	X	X
Colo.	Spruce Creek	X				
Colo.	St. Louis Peak	X	X	X	X	
Colo.	Vasquez Peak	X	X	X	X	

(continued)

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

State	Study area	Uses				
		Primitive recreation	Motorized/mechanized recreation	Mining	Grazing	Mineral leasing
Colo.	Weminuche Additions	X	X	X	X	
Colo.	West Needle	X	X	X	X	
Colo.	Wheeler Geologic	X	X	X	X	
Colo.	Williams Fork	X	X			
Fla.	Clear Lake	X	X			
Fla.	Natural Area	X	X			
Idaho	Borah Peak	X	X	X	X	
Idaho	Boulder/White Clouds	X	X	X	X	
Idaho	Hanson Lakes	X	X	X		
Idaho	Hoodoo (Great Burn)	X	X	X		
Idaho	Italian Peak	X	X	X	X	
Idaho	Lionhead	X	X			
Idaho	Mallard-Larkins	X	X		X	
Idaho	Mount Naomi	X		X	X	
Idaho	Needles	X	X	X	X	
Idaho	Pioneer Mountain	X	X	X	X	
Idaho	Red Mountain	X	X	X	X	
Idaho	Salmo-Priest Additions	X	X			
Idaho	Scotchman Peaks	X	X			
Idaho	Secesh	X	X		X	
Idaho	Selkirk Crest	X	X			
Idaho	Selway-Bitterroot Additions	X				
Idaho	Ten Mile/Black Warrior	X	X	X	X	
Idaho	Winegar Hole	X				
Idaho	Worm Creek	X	X		X	
Mont.	Absaroka Addition (Republic Mountain)	X	X	X		
Mont.	Benchmark	X	X		X	X
Mont.	Big Log	X			X	
Mont.	Big Snowies	X	X		X	
Mont.	Bob Marshall Addition (Limestone Cave)	X				X
Mont.	Bob Marshall Addition (Swan Front/Bunker Creek)	X	X			X
Mont.	Bob Marshall Additions	X				
Mont.	Burnt Mountain	X				
Mont.	Cabinet Mountains Addition	X		X		

(continued)

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

State	Study area	Uses				
		Primitive recreation	Motorized/mechanized recreation	Mining	Grazing	Mineral leasing
Mont.	Centennial Mountains (Mount Jefferson)	X	X		X	
Mont.	East Pioneers	X	X	X	X	
Mont.	Electric Peak	X	X	X	X	X
Mont.	Frank Church Addition (Blue Joint)	X	X	X		
Mont.	Great Bear Addition (Slippery Bill)	X				X
Mont.	Great Burn (Hoodoo)	X	X	X		
Mont.	Hyalite-Porcupine-Buffalo Horn	X	X	X	X	
Mont.	Italian Peak	X			X	
Mont.	Jewel Basin	X	X			X
Mont.	Lionhead (Earthquake)	X	X	X	X	
Mont.	Lost Water Canyon	X				
Mont.	Middle Fork Judith	X	X	X	X	
Mont.	Mount Baldy	X			X	X
Mont.	Mystic Lake	X				
Mont.	North Big Hole Addition to the Anaconda-Pintler	X	X		X	
Mont.	Renshaw	X	X		X	
Mont.	Sapphire	X	X	X	X	
Mont.	Scotchman Peaks	X		X		
Mont.	Selway-Bitterroot Additions	X		X		
Mont.	Silver King-Falls Creek	X	X		X	
Mont.	Sliderock (Quigg)	X		X		
Mont.	Stateline	X				
Mont.	Storm Lake	X	X	X	X	
Mont.	Ten Lakes	X	X	X		
Mont.	Teton	X			X	X
Mont.	Timberline Creek	X				
Mont.	West Big Hole	X	X	X	X	
Mont.	West Pioneer	X	X	X	X	
N.Mex.	Columbine-Hondo	X			X	
N.Mex.	Guadalupe Escarpment	X			X	
N.Mex.	Hells Hole	X			X	
N.Mex.	Lower San Francisco	X	X		X	
N.C.	Craggy Mountain	X				

(continued)

**Appendix II  
Status and Uses of Forest Service  
Wilderness Study Areas**

State	Study area	Uses				
		Primitive recreation	Motorized/mechanized recreation	Mining	Grazing	Mineral leasing
N.C.	Harper Creek	X				
N.C.	Lost Cove	X				
N.C.	Overflow	X				
N.C.	Snowbird	X				
Oreg.	Deschutes Canyon	X	X		X	X
Oreg.	Dunns Bluff	X	X			
Oreg.	Homestead	X	X	X	X	
Oreg.	Mount Hagan	X				
Oreg.	Olallie/Mount Jefferson	X	X			
Oreg.	Pine Creek			X		
P.R.	El Toro	X				
S.C.	Ellicott Rock Extension	X				
S.Dak.	Beaver Park	X	X		X	
S.Dak.	Cheyenne River	X	X		X	
S.Dak.	Indian Creek	X	X		X	
S.Dak.	Red Shirt	X	X		X	
Wash.	Wobbly	X	X			X
Wyo.	High Lakes	X	X		X	
Wyo.	Palisades	X	X		X	X
Wyo.	Shoal Creek	X	X	X	X	

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# Types and Effects of Uses in Wilderness Study Areas

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A variety of uses and activities occur in wilderness study areas, including recreation, mining, livestock grazing, and scientific and cultural research. All of these uses and activities can affect the naturalness, or physical characteristics, of the study areas, as well as the wilderness experience of the users. Physical effects such as trail damage, erosion and loss of vegetation, and pollution can result from use and remain until the area is reclaimed, either by nature or by agency action. Negative effects on the users' wilderness experience (or social effects), though subjective in nature, can result for some from the mere presence of domestic livestock or noisy recreational vehicles.

---

## Physical Effects of Use

Human uses in wilderness study areas can have physical effects that result in a loss of naturalness. Uses such as primitive recreation, mining and grazing operations, and motorized or mechanized recreation may cause such effects as

- trail damage,
- off-trail vegetation and soil damage and erosion,
- damage to riparian areas,<sup>1</sup>
- pollution, and
- disturbance of wildlife.

In some cases, BLM or the Forest Service either reclaims the affected area or requires the user to reclaim it. In other cases, the agency relies on natural processes to repair the effects.

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## Trail Damage

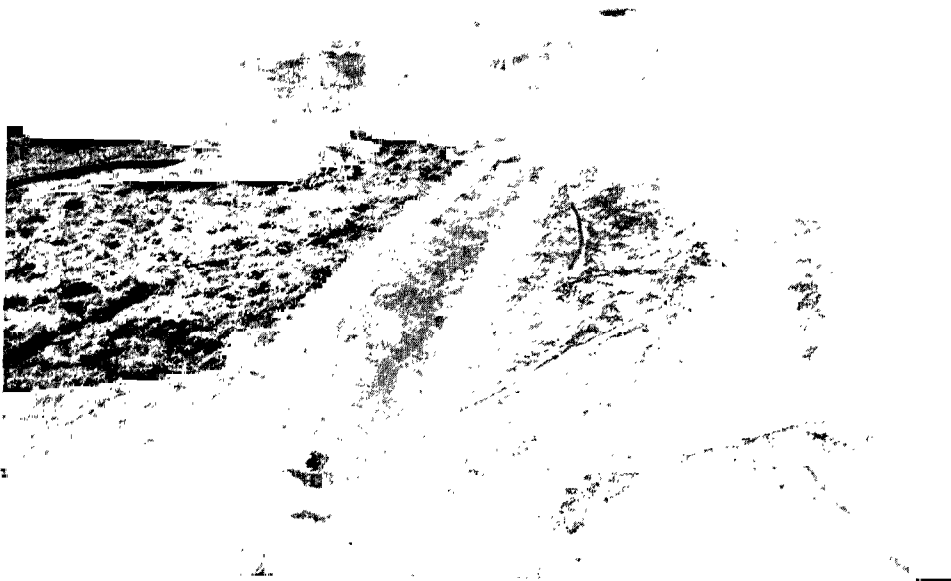
As figures III.1 and III.2 show, trails that receive heavy use may become gullied and rutted, sometimes resulting in the formation of multiple trails.

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<sup>1</sup>Riparian areas are heavily vegetated areas along the banks of rivers and streams and around springs, wet meadows, lakes, and ponds.

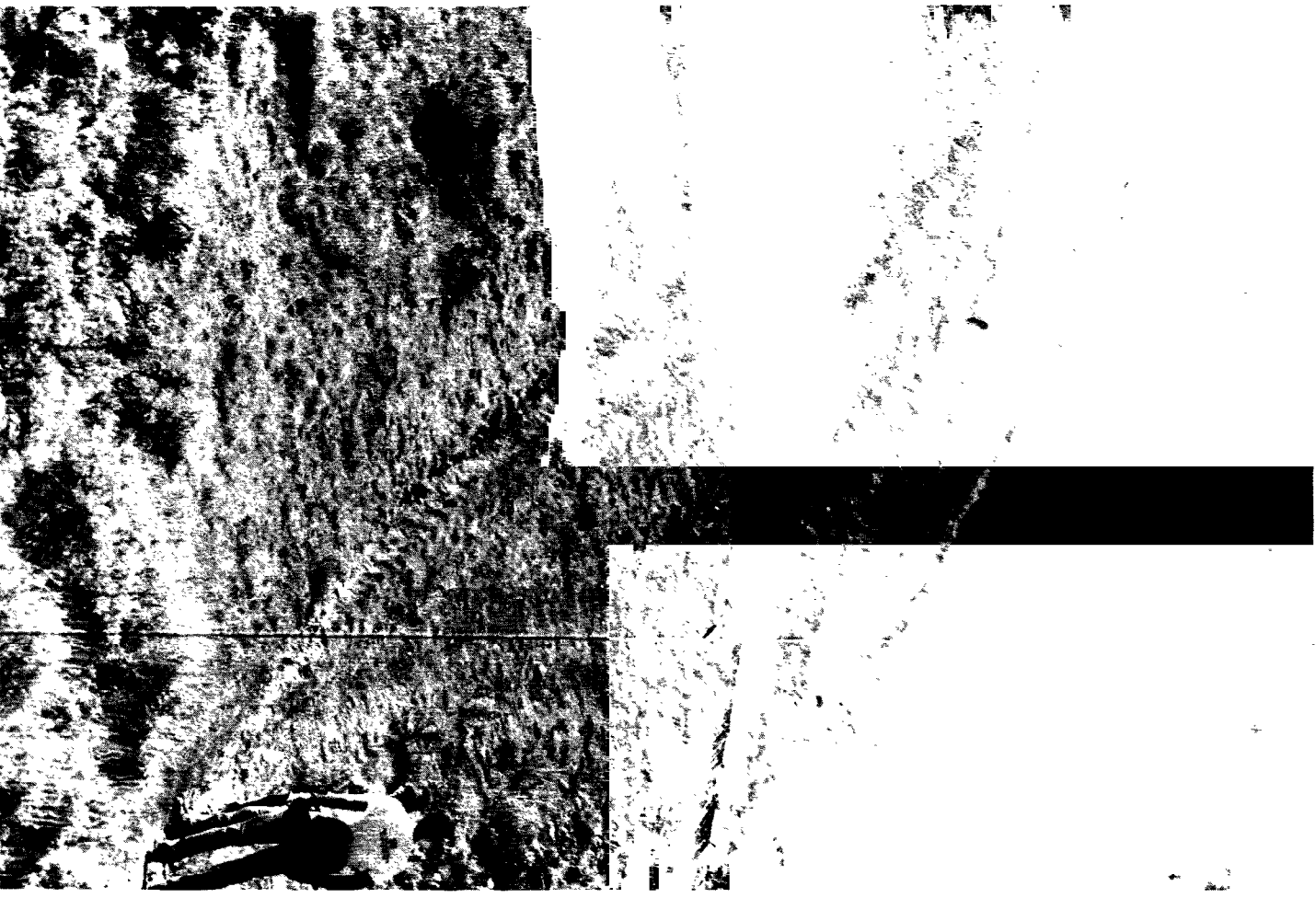
**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

**Figure III.1: Boggy Trall Area Receiving  
ATV Use in the Forest Service's  
Sapphire Study Area in Montana**



Source: GAO.

Figure III.2: Eroded and Multiple Trail  
Development in the Forest Service's  
Borah Peak Study Area in Idaho



Source: GAO.



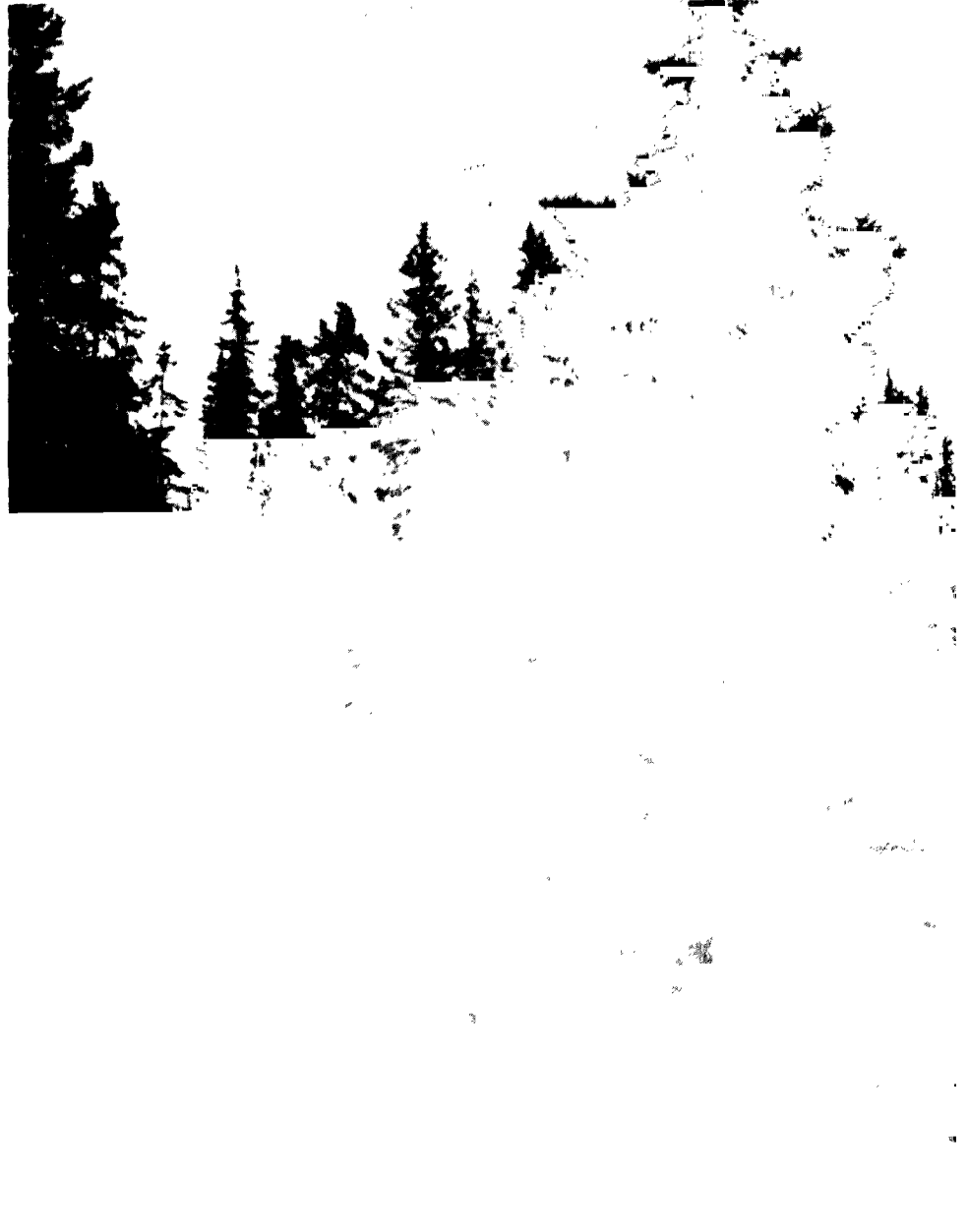
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**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

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While some believe that motorized use caused the damage to the Summerville trail, as shown in figure III.3, agency officials said that other uses, such as horseback riding, also damage the trail. The effect of these uses is aggravated by poor trail placement which, as shown in figure III.4, can be minimized with good trail placement.

Figure III.3: Portion of Summerville  
Trail in the Forest Service's Fossil  
Ridge Study Area in Colorado Eroded  
Because of Poor Trail Placement



Source: GAO.

**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

**Figure III.4: Continuation of the  
Summerville Trail Shown in Figure III.3  
but Properly Located and in Good  
Condition, Although Receiving  
Motorized Use**



Source: GAO.

Motorized and mechanized use leaves a distinct imprint on trails, as shown in figures III.5 and III.6.

**Figure III.5: Williams Creek Trail Widening as a Result of Mountain Bikes in the Forest Service's Boulder/White Cloud Study Area in Idaho**



Source: GAO.

**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

**Figure III.6: Ruts Through a Boggy Area Resulting From Trail Bike Use in the Forest Service's Borah Peak Study Area in Idaho**



Source: GAO.

The agencies may close or restrict use on trails. Figures III.7 and III.8 show trail signs that indicate closures or restrictions. In figure III.7, BLM officials believe that they have successfully closed the area to motorized use, allowing only mountain bikes and hikers along the Pollock Bench Trail in the Black Ridge Canyons wilderness study area. In figure III.8, the trail extending past the closure sign receives trail bike use anyway.

**Figure III.7: Signs and Barriers  
Designed to Limit Use to Mountain  
Bikes and Hiking in BLM's Black Ridge  
Canyons Wilderness Study Area in  
Colorado**



Source: GAO.

**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

**Figure III.8: Trail With Trail Bike Use  
Beyond Closure Sign in BLM's Adobe  
Badlands Wilderness Study Area in  
Colorado**



Source: GAO.

**Vegetation and Soil  
Damage and Erosion**

Motorized recreation, mineral development operations, livestock grazing, and camping are among the uses that can damage vegetation and soil and can result in erosion. The effect of motorized use depends on the type of terrain. For example, in sand dunes without vegetation as shown in figure III.9, the visual effect of the use is transitory and is likely to be eliminated with a strong wind. In contrast, for sand dune areas with stabilizing vegetation, the effects of motorized recreation can be longer-lived as shown in figures III.10, III.11, and III.12.

**Figure III.9: Motorized Use Area in Unvegetated Portion of BLM's Sand Mountain Wilderness Study Area in Idaho**



Source: GAO.



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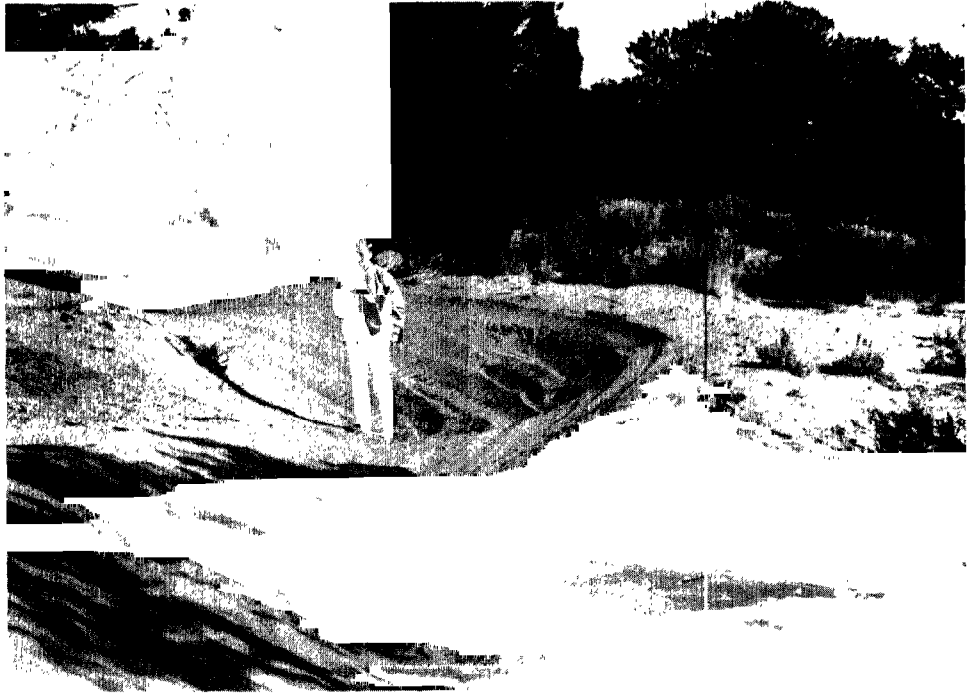
**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

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**Figure III.10: All-Terrain Vehicle Use in  
BLM's Moquith Mountain Wilderness  
Study Area in Utah**

Source: GAO.

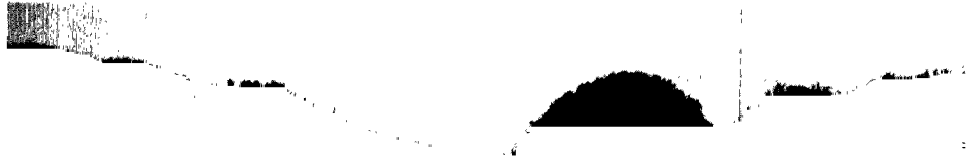
**Figure III.11: Loss of Vegetation and  
Gullying Caused by Off-Road Vehicle  
Use in Open Sand Dune Area in BLM's  
Moquith Mountain Wilderness Study  
Area in Utah**



Source: GAO.

**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

**Figure III.12: Loss of Vegetation In  
Open Sand Dune Area In BLM's  
Moquith Mountain Wilderness Study  
Area in Utah**



Source: GAO

Unless an area is designated as open to unrestricted motorized use, BLM limits motorized use to existing ways and trails. However, some of these areas receive motorized recreational use off these ways and trails. For example, in BLM's Devil's Canyon Wilderness Study Area, motorized use has caused vegetation and soil damage as shown in figures III.13 and III.14.

**Figure III.13: Motorized Use In Sensitive Soil Area in the BLM's Devil's Canyon Wilderness Study Area in Utah**



Source: GAO.

**Figure III.14: Motorized Use Off of Existing Ways and Trails in BLM's Devil's Canyon Wilderness Study Area in Utah**



Source: GAO.

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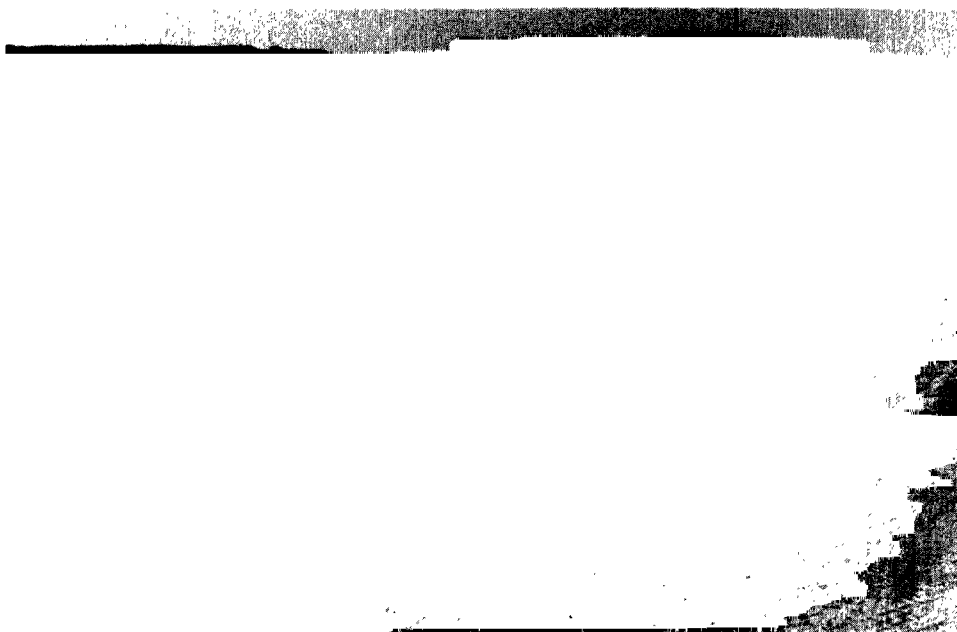
**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

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In addition to impacts from motorized use, vehicles cause vegetation and soil damage when they travel off existing ways and trails to reach destinations, such as scenic areas or hunting areas as shown in figures III.15 and III.16.

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**Figure III.15: Motorized Use on One of Many Closed Routes Leading to a Scenic Canyon in BLM's Mexican Mountain Wilderness Study Area in Utah**



Source: GAO.

**Figure III.16: Vegetation Impacts by  
Motorized Vehicles in BLM's Castle  
Peak Wilderness Study Area in  
Colorado**



Source: GAO.

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**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

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Organized events can cause damage, such as when the 1989 Barstow-to-Las Vegas motorcycle race was inadvertently routed through part of BLM's Hollow Hills Wilderness Study Area in California. In that case, volunteers from the American Motorcycle Association worked to reclaim the area. (See fig. III.17 through III.19.)

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**Figure III.17: Inadvertent Impacts From  
the 1989 Barstow-To-Las Vegas  
Motorcycle Race in BLM's Hollow Hills  
Wilderness Study Area in California**

Source: BLM.

**Figure III.18: American Motorcycle  
Association Reclamation Efforts in  
BLM's Hollow Hills Wilderness Study  
Area in California, January 1991**



Source: BLM.



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**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

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**Figure III.19: Reclaimed Area in Hollow  
Hills Wilderness Study Area in  
California, December 1992**



Source: GAO.

Camping can also affect the resources in wilderness study areas. As shown in figures III.20, III.21, and III.22, camping can result in soil compaction, fire rings, and loss of vegetation through tree-cutting and burning.

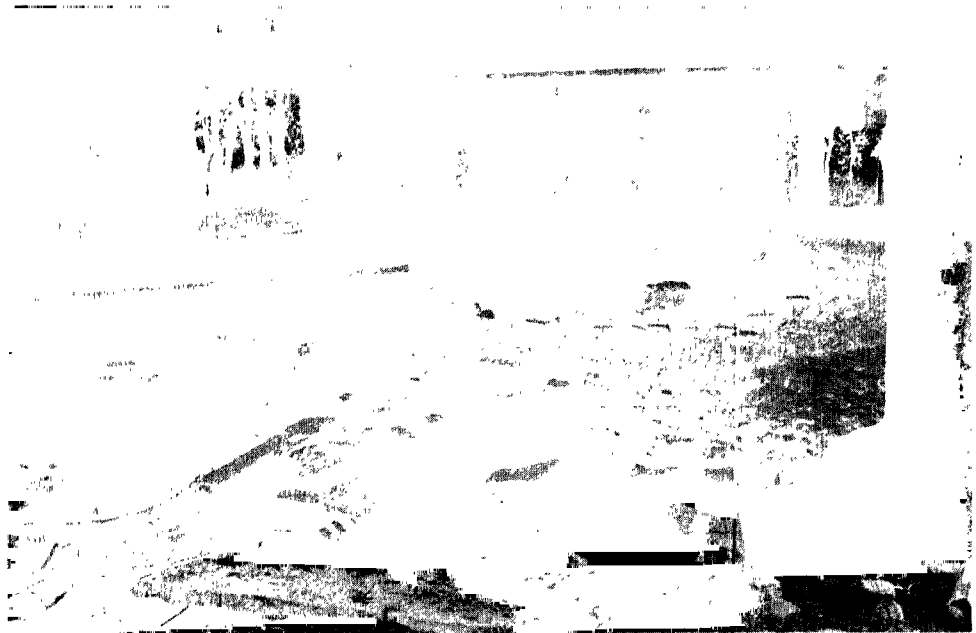
**Figure III.20: Soil Compaction and Fire Ring Near the South Colony Lakes in the Forest Service's Sangre de Cristo Study Area in Colorado**



Source: GAO.

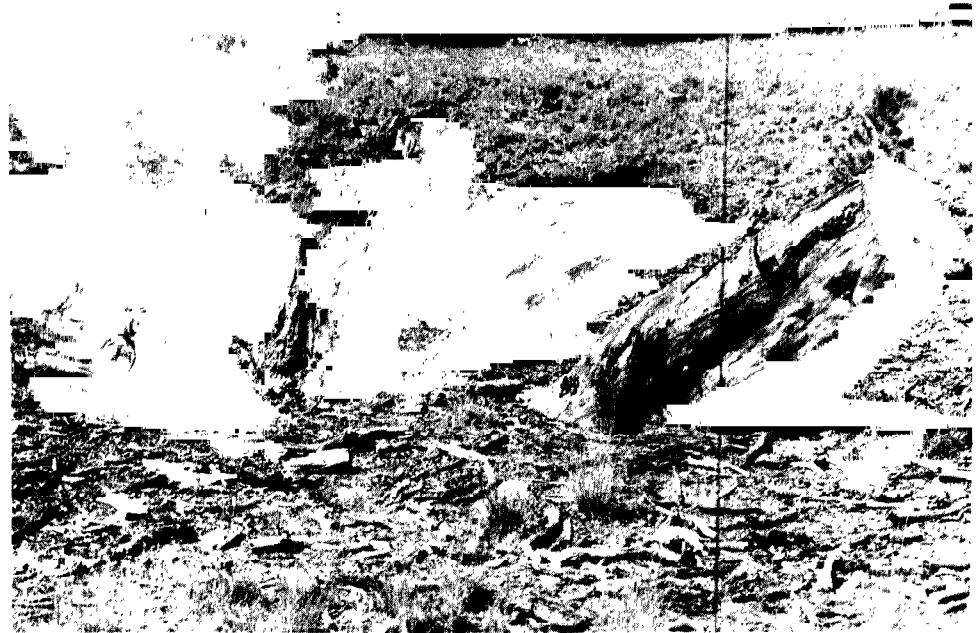
**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

**Figure III.21: Hunter's Camp in the  
Forest Service's Boulder/White Clouds  
Study Area in Idaho**



Source: GAO.

**Figure III.22: Cut and Burned Trees in  
BLM's Devil's Canyon Wilderness  
Study Area in Utah**



Source: GAO.

Minerals operations, such as mines or oil and gas wells, also cause surface disturbance. Mines and drill pads, as well as access to mineral operations, involve disturbance of the vegetation and the natural contours of the land. Figure III.23 shows a reclaimed mine site.

**Figure III.23: Reclaimed Mine Area in  
BLM's Greenwater Range Wilderness  
Study Area in California**



Source: GAO.

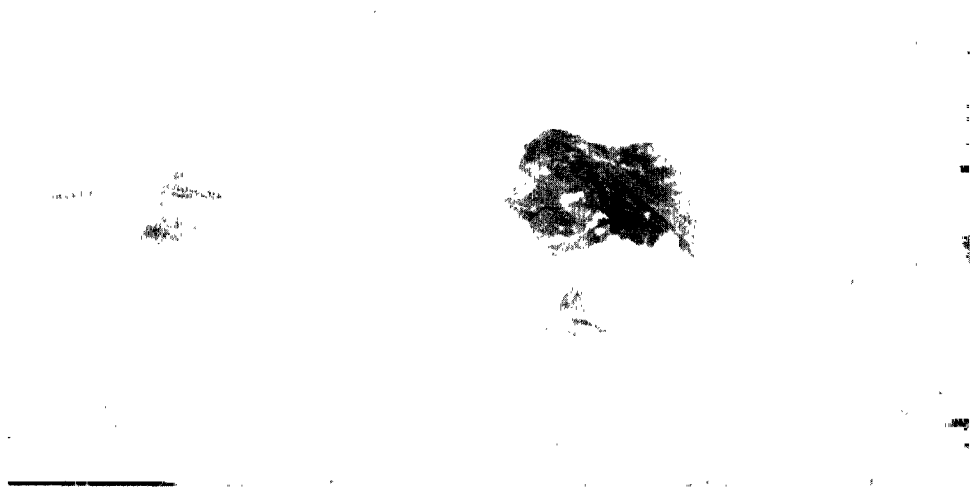
In many cases, roads are built as access to mineral claims and sites. The effects vary depending on the methods used to build the roads as shown in figures III.24 and III.25.

**Figure III.24: Trail Improved With  
Mechanized Equipment for Mining  
Access in BLM's Red Cloud Peak  
Wilderness Study Area in Colorado**



Source: GAO.

**Figure III.25: Reclaimed Mine Access  
Road in BLM's Red Cloud Peak  
Wilderness Study Area In Colorado**



Source: GAO.

### Damage to Riparian Areas

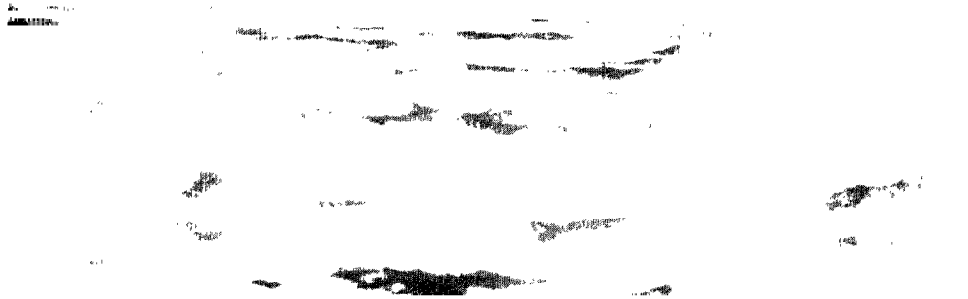
Riparian areas in wilderness study areas may be affected by livestock grazing and by recreational use occurring along rivers and streams. Livestock are attracted to water sources, where they congregate as shown in figure III.26. Motorized vehicle use and camping also can affect riparian areas, as humans too are attracted to rivers and streams as shown in figures III.27 and III.28.

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**Appendix III  
Types and Effects of Uses in Wilderness  
Study Areas**

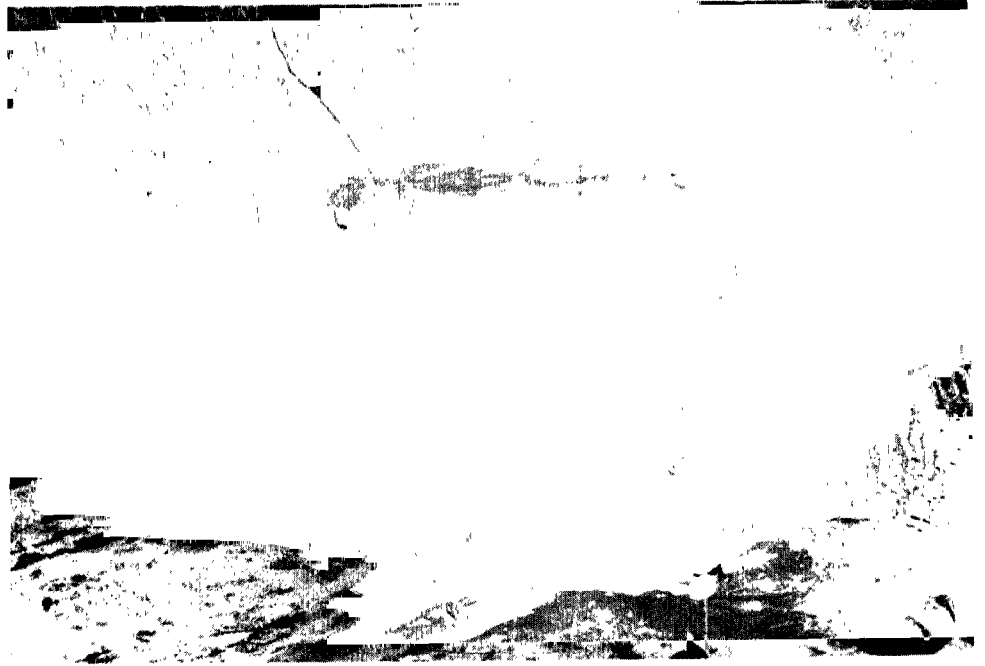
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**Figure III.26: Cattle Grazing Near  
Picture Lake in BLM's Castle Peak  
Wilderness Study Area in Colorado**



Source: GAO.

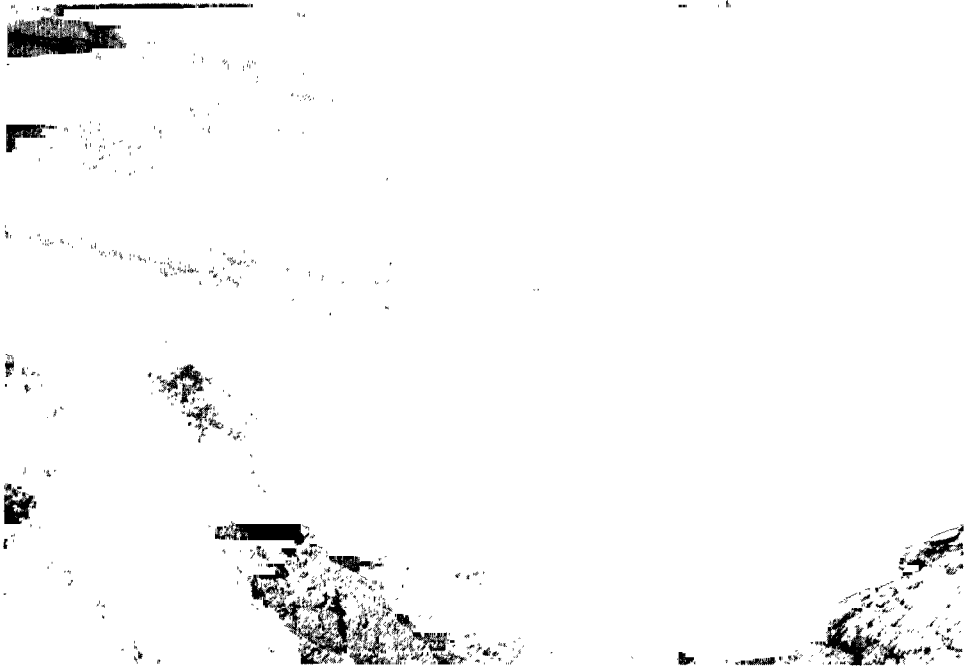
**Figure III.27: Camping Area With  
Sauna Within a Riparian Area in BLM's  
Mill Creek Canyon Wilderness Study  
Area in Utah**



Source: GAO.



**Figure III.28: Motorized Use In a Riparian Area Cherry-Stemmed Out of BLM's Mexican Mountain Wilderness Study Area In Utah**



Source: GAO.

## Pollution

Human use has the effect of polluting wilderness study areas. Air and noise pollution can result from motorized vehicle use, minerals extraction can create environmental hazards, and users leave litter and fire rings. In 1991, an oil well outside BLM's Cross Canyon wilderness study area in Colorado blew out, and the resulting oil spill ran into a creek within the study area. Although BLM and the oil company cleaned the spill, it is still visible on the canyon wall. More commonly, however, pollution takes the form of litter and fire rings in camping areas.

## Disturbance of Wildlife and Endangered Species

Environmental groups have expressed concern about the effect of motorized recreation on wildlife and plants in wilderness study areas. For example, motorized recreational use in BLM's Moquith Mountain wilderness study area in Utah has been cited as a threat to the endangered Welsh's milkweed. Recreational use also may threaten the Coral Pink Sand Dunes Tiger Beetle—a candidate for listing as an endangered species.

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## Social Effects of Use

The various human uses in wilderness study areas may also affect users' perceptions of an area's wilderness characteristics of naturalness and solitude. Users' expectations about a "wilderness experience" and about wilderness study areas vary. For example, some users believe that any loss of naturalness due to human use is unacceptable. For them, the presence of motorized use or livestock in wilderness study areas is distasteful. Others may have a higher tolerance for physical effects in wilderness study areas.

Furthermore, users with expectations that a wilderness study area will provide a given level of solitude may be offended by the presence and effects of other uses, such as motorized and mechanized recreation. Agency officials generally view many of these social effects as transitory, as these forms of recreation would not be allowed if the study area were designated as wilderness.

# Scope and Methodology

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To obtain background information on the Bureau of Land Management (BLM) and Forest Service management of wilderness study areas, we held discussions with BLM and Forest Service headquarters officials; BLM state, district, and resource area managers; and Forest Service regional, forest, and district officials involved in wilderness study area management. We also reviewed the appropriate laws, as well as the BLM and Forest Service policies and procedures implementing them. We reviewed documents provided by agency officials for each wilderness study area we visited.

We obtained nationwide data on study areas' size, location, and creation from BLM and the Forest Service. We also obtained from the agencies data on the types of use occurring in wilderness study areas.

Because of the large number of wilderness study areas, we could not visit every one. However, we visited and gathered detailed information on 33 wilderness study areas. In selecting these areas, we first sought opinions from BLM and Forest Service officials and from several conservation and environmental groups about which areas had sustained the "worst" surface disturbance or damage resulting from various uses. In addition to these 14 areas, we judgmentally selected, with input from agency officials, 19 others to visit. In selecting these areas, we sought to obtain a variety of conditions, uses, and geographic features. Table IV.1 shows the areas we visited.

**Appendix IV  
Scope and Methodology**

**Table IV.1: BLM and Forest Service  
Wilderness Study Areas GAO Visited**

<b>Managing agency</b>	<b>Study area</b>	<b>State</b>
BLM	Adobe Badlands <sup>a</sup>	Colo.
BLM	Black Ridge Canyons <sup>a</sup>	Colo.
BLM	Castle Peak <sup>a</sup>	Colo.
BLM	Cross Canyon <sup>a</sup>	Colo.
BLM	Devil's Canyon <sup>a</sup>	Utah
BLM	French Spring/Happy Canyon	Utah
BLM	Greenwater Range	Calif.
BLM	Hollow Hills	Calif.
BLM	Horseshoe Canyon	Utah
BLM	Kelso Dunes	Calif.
BLM	Kingston Range	Calif.
BLM	Little Book Cliffs <sup>a</sup>	Colo.
BLM	Mexican Mountain <sup>a</sup>	Utah
BLM	Mill Creek Canyon	Utah
BLM	Moquith Mountain <sup>a</sup>	Utah
BLM	Mount Ellen-Blue Hills	Utah
BLM	Negro Bill Canyon	Utah
BLM	Parunuweap Canyon	Utah
BLM	Pioneer Mountain	Idaho
BLM	Red Cloud Peak	Colo.
BLM	Rodman Mountains	Calif.
BLM	Sand Mountain	Idaho
BLM	Signal Hill	Calif.
BLM	Soda Mountains	Calif.
BLM	Woods Mountains	Calif.
FS	Borah Peak <sup>a</sup>	Idaho
FS	Boulder - White Clouds <sup>a</sup>	Idaho
FS	Fossil Ridge <sup>a</sup>	Colo.
FS	Italian Peaks <sup>a</sup>	Idaho
FS	Sangre De Cristo	Colo.
FS	Sapphire <sup>a</sup>	Mont.
FS	Shoal Creek <sup>a</sup>	Wyo.
FS	Vasquez Peak	Colo.

<sup>a</sup>Identified by either agency officials or environmental group representatives as areas of concern or areas having the worst damage.

To observe the condition of the 33 selected wilderness study areas, we visited portions of the areas, accompanied by BLM and Forest Service officials and other individuals. We also obtained the views of several environmental groups concerning conditions in the wilderness study areas and other related issues.

We discussed the contents of our draft report with BLM and Forest Service officials and have incorporated their views in this report where appropriate. As requested, however, we did not obtain official agency comments on a draft of this report. We conducted our review from April 1992 through May 1993 in accordance with generally accepted government auditing standards.

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