NEVADA PROGRESS REPORT 1981

BUREAU OF LAND MANAGEMENT



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Once, gold seekers rushing to California considered Nevada a geographic obstacle, and little more. Single-purpose towns rose and died as the economy dictated--a mine boom came and went, a railroad section town was eliminated.

Meanwhile the California coast, the East and the Midwest became settled. Today, Nevada lands are looked at as a place to settle and expand communities for a variety of reasons. The lands are subject to a full range of uses.

There are areas which offer great mineral wealth, valuable to our nation. There are areas which remain untouched by civilization and deserve protection for future generations as wilderness. Under the ground there is geothermal energy waiting to be tapped and petroleum for oil production. Nevada leads the nation in total acreage for geothermal non-competitive mineral leasing, and is second in the number of competitive leases for oil and gas exploration.

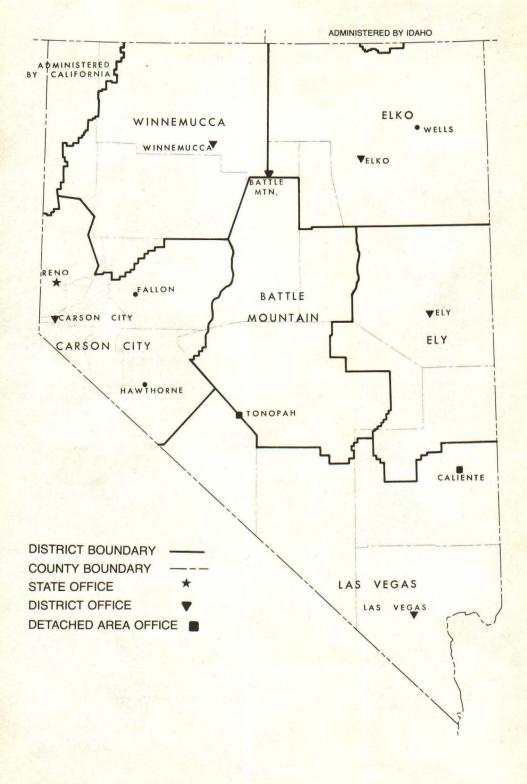
Nevada has places to hunt, fish, camp, picnic, and to enjoy wildlife and view wild horses and burros. Ranchers make a living from grazing cattle and sheep on the public lands. Needs exist for power plant sites and for utility rights-of-way as telephone and power lines reach to Nevada cities, or pass through the State. Cities, counties and state agencies need land for expansion and growth.

Because there are so many individuals, groups and companies focusing on Nevada, the management of these lands is an exciting challenge. Both national and local publics are now aware of this treasure in their backyards. Discussion of the use of these lands for national defense has made them aware of the lands, and recently the Department of the Interior's Good Neighbor Policy whereby lands for expansion have been identified by the Governor, have resulted in BLM and the State working together more often.

The public has asked for a greater role in determining what happens on these lands, and the BLM welcomes these advisors as decisions are made on land use and preservation. The BLM is, after all, a manager of the lands for all of the people, following the laws established by Congress which set out broad policies for land management.

Coordination of how the land will be managed is important to BLM. Public participation and coordinated resource management and planning are ways the BLM works with its local and national publics to carry out these legal mandates. This means working with Nevadans who depend on the land for their livelihood, and with those who enjoy recreation or who want to preserve the lands for future generations. This book describes some of the multi-faceted nature of overseeing the use of the public lands in today's society, concentrating on activities which occurred in the past fiscal year, October 1980 to October 1981.

Edward F. Spang State Director, Nevaga



UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management Nevada State Office

1981 NEVADA PROGRESS REPORT

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This booklet contains information and statistics about the Bureau of Land Management in Nevada. Fiscal Year 1981 covers the 12-month period from October 1, 1980 to September 30, 1981. For reference purposes, some sections contain figures from previous fiscal years.

Since the conversion to the metric system is just now beginning and most people are still unfamiliar with the new measurements, this book, for the sake of brevity, does not include metric conversions side by side with traditional U.S. measurements. However, for those wishing to make this conversion, the following are the metric equivalents to the measurements used in this book:

1 acre = .4047 hectares 1 ton = .9072 metric tons 1 cubic yard = .7746 cubic meters 1 mile = 1.609 kilometers

Produced by Public Affairs, Nevada State Office.

Nevada BLM Organization

Nevada State Office 300 Booth Street, P.O. Box 12000 Reno, Nevada 89520

The Bureau of Land Management is responsible for the management, conservation, protection, use, and disposal of the public lands in Nevada, as well as the grazing, recreation, mineral, and other resources found on these lands throughout Nevada.

OFFICE OF THE STATE DIRECTOR

State Director	Edward Spang	784-5451
Associate State Director	Roger McCormack	784-5451
Secretary	Carol Hadley	784-5452
Equal Employment Opportunity		
Specialist	Marciano Briones	784-5773

PUBLIC AFFAIRS STAFF

Provides information in response to public and press inquiries and performs information and educational activities as necessary for public understanding of the Bureau's land and resource management programs.

Public At	tairs Uttice	er				
Secretary						
Public	Information	Specialist				
Public	Information	Specialist				

Bob Stewart Marie Bresch Bob Goodman Maxine Shane 784-5311

DIVISION OF RESOURCES

Primarily responsible for program and policy direction in: energy (oil and gas, geothermal) and nonenergy minerals; lands and realty; forestry; range management; wild horse and burros; cultural resources; wilderness; recreation; visual resources; soil, water and air; and wildlife habitat programs. A new responsibility within the Division is for land use planning and the environmental assessment programs. Fire ecology and inventory coordination matters are also handled within the organization.

Resource Management Chief Secretary	Ed Evatz Joan Weber	784-5455
Chief, Biological Resources Allotment Management Plans Fisheries and Forestry Hydrologist Range Management Soils Watershed Wild Horses and Burros Wildlife	Les Sweeney Mike Phillips Osborne Casey Dick Jewell Geren Long Jerry Harman Loren Brazell Milt Frei Dave Goicoechea	
Chief, Lands, Minerals and Recreation Archaeology Geothermal, Oil and Gas Lands and Realty Minerals Recreation Wilderness	Bob Foster Richard Hanes Norm Melvin Mike Moran Larry Steward Steve Smith Dave Harmon	784-5748

Chief, Planning and Environment Secretary Regional Planner Regional Economist Sociologist Environmental Coordinators

Stuart Gearhart 784-5448 Helen Doeding Jack Seley Paul Myers Bert Bresch Ed Tilzey, John 784-5602 Matthiessen, Mike Jackson

DIVISION OF OPERATIONS

Provides technical support as well as develops and advises programs in engineering design and construction; cartography; cadastral survey; electronic communications; fire control; trespass; improvement maintenance; access, land and mineral appraisal; lands and minerals operations; and mineral examination activities.

Chief, Cadastral Survey Chief, Engineering Civil Engineer Supervisor, Cartography Chief, Lands & Minerals Lands Transactions Minerals Transactions Accounts Mining Claims Dockets	Lacel Bland John Trimmer John Sorenson Dennis Anderson Dick Morrison Ken Stowers Jody Woodin Elaine Long Pam Reynolds Maxine Bean	784-5731 784-5703 784-5703 784-5703 784-5703 784-5432 784-5432 784-5751 784-5445
Mining Claims	Pam Reynolds	784-575I
Public Contact	Virginia McCold	784-5432
Titles and Records	Jack Lewis	784-5487
Chief, Law Enforcement	Len Sims	784-5683
Chief, Fire Management	Roy Percival	784-5885

DIVISION OF ADMINISTRATION

Provides administrative and non-technical support for personnel, incentive awards, budget analysis, procurement, property management, organizational planning, management systems, training, office services, information services, central records and equal opportunity employment.

Administration Chief	Mel Bunch	784-5491
Secretary	Sally Morrin	784-5491
Program Analyst	Fred Weech	784-5491
Chief, Administrative		
Services	Cas Martinez	784-5491
Procurement	Bonnie Johnson	784-5494
Library	Patsy McDuffie	784-5485
Reproduction	Cal Robinson	784-5746
Chief, Personnel Management	Del Estev	784-5881
Training	John Chappell	784-5881

BLM DISTRICT OFFICES

Elko District Office P.O. Box 831, 2002 Idaho Street Elko, Nevada 89801

District Manager Elko Resource Area Manager Wells Resource Area Manager Chief, Division of Resources Planning and Environmental Coordination Chief, Division of Operations Chief, Division of Administration

Winnemucca District Office 705 East 4th Street Winnemucca, Nevada 89445

District Manager Paradise-Denio Resource Area Manager Sonoma-Gerlach Resource Area Manager Chief, Division of Resources Chief, Division of Planning and Environmental Coordination Chief, Division of Operations Chief, Division of Administration

Carson City District Office Suite 335, Capitol Plaza 1050 East William Street Carson City, Nevada 89701

District Manager Associate District Manager Lahontan Resource Area Manager Walker Resource Area Manager Division of Wild Horse and Burro Operations Chief, Division of Resources Chief, Division of Planning and Environmental Coordination Chief, Division of Operations Chief, Division of Administration

Ely District Office Star Route 5, Box 1 Ely, Nevada 89301

District Manager, Acting Egan Resource Area Manager Schell Resource Area Manager Chief, Division of Resources, Acting Chief, Division of Planning and Environmental Coordination Chief, Division of Operations Chief, Division of Administration Rod Harris Jesse Dingman Charles Bøyer Merle Good

Bob Woerner Edward Zontek Don Lemons

623-3676

Frank Shields

David Griggs

Brad Hines Glenn Stickley

Bob Neary Bob Carroll Jeannette Ugaldea

882-1631

Tom Owen Jim Elliott Ken Walker Rudy Reimold

Don Pomi Roy Jackson

Kelly Madigan Norm Murray John Lukasko

289-4865

George Cropper Howard Hedrick Wayne Lowman

Mark Barber

Larry Jung Duncan MacDonald J.D. White

738-4071

Las Vegas District Office 4765 W. Vegas Drive P.O. Box 26569 Las Vegas, Nevada 89126

Detached Area Office Caliente Resource Area P.O. Box 237 Caliente, Nevada 89008

District Manager Assistant District Manager Stateline-Esmeralda Resource Area Manager Caliente-Virgin Valley Resource Area Manager Chief, Division of Resources, Acting Chief, Division of Planning and Environmental Coordination Chief, Division of Operations Chief, Division of Administration

Battle Mountain District Office 2nd and Scott Streets P.O. Box 194 Battle Mountain, Nevada 89820

Detached Area Office Tonopah Resource Area P.O. Box 911 Tonopah, Nevada 89049

District Manager Shoshone-Eureka Resource Area Manager Tonopah Resource Area Manager Chief, Division of Resources Planning Coordinator Chief, Division of Operations Chief, Division of Administration Kemp Conn William Calkins

Bill Civish

Darwin Anderson

Jim Dunn

3 Star March March Rose

Ed Ciliberti Jim Schalnus George Graphenreed

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H. James Fox

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Federally Administered Lands in Nevada, by Agency as of September 30, 1979

Including Alaska and Hawaii, the gross area of the United States is 2.3 billion acres. The Federal government has, at various times in U.S. history, held title to about four-fifths of that area. Today, Federal civil and defense agencies administer about 738 million acres or about one-third of the nation's lands.

Currently, Alaska has the highest percentage of Federally administered lands - 89 percent. Second largest percentage is Nevada with about 87 percent. These lands are used for a variety of purposes. In Nevada, these include atomic testing, national forests, wildlife refuges, and public lands, administered primarily for multiple uses. The agencies and their acreage of responsibility are outlined below.

DEDCENTACE OF

AGENCY	ACRES	PERCENTAGE OF STATE ADMINISTERED
Department of Agriculture Forest Service Soil Conservation Service Department Subtotal	5,143,891.0 .2 5,143,891.2	7.27
Department of Energy Energy Research and Development Administration Western Area Power Admin. Department Subtotal	819,581.8 4,407.2 823,989.0	1.16
Department of the Interior Fish & Wildlife Service Geological Survey Bureau of Indian Affairs Bureau of Land Management Bureau of Mines National Park Service Bureau of Reclamation Department Subtotal	2,202,296.4 70.8 7,810.3 48,844,808.3 22.6 264,137.9 915,273.2 52,234,420.0	73.83
Department of Transportation Federal Aviation Administration	1,863.6	*
Department of Defense Air Force Army Navy Corps of Engineers Department Subtotal	2,896,757.0 155,266.0 63,653.7 <u>671.0</u> 3,116,347.7	4.41
Other Federal Agencies General Services Administration Health Services Administration United States Postal Service Veterans Administration Other Agencies Subtotal TOTALS	13.2 .2 24.7 12.5 50.6 61,320,562.1	* * * 86.68

*Less than one percent.

NOTE: These figures are the most recent for all Federal agencies as compiled by the General Services Administration. Current BLM figures are shown on the opposite page.

Public Lands in Nevada, by County as of September 30, 1981

	PUBLIC LANDS		PERCENTAGE OF
COUNTY		TOTAL ACREAGE	TOTAL ACRES
COUNTY	MANAGED BY BLM*	IN COUNTY	MANAGED BY BLM
Carson City	42,432	07 000	12.0
~		97,920	43.3
Church ill	2,295,045	3,144,320	73.0
Clark	3,188,751	5,173,760	61.6
Douglas	179,116	480,640	37.3
Elko	6,785,966	10,995,840	61.7
Esmeralda	2,210,756	2,284,800	96.8
Eureka	2,021,846	2,676,480	75.5
Humboldt	4,322,074	6,210,560	69.6
Lander	3,014,258	3,597,440	83.8
Lincoln	5,749,866	6,816,000	84.3
Lyon	712,292	1,295,360	55.0
Mineral	1,693,033	2,455,680	68.9
Nye	6,704,251	11,560,960	58.0
Pershing	2,910,424	3,859,840	75.4
Storey	12,528	167,680	7.5
Washoe	2,643,084	4,229,120	62.5
White Pine	4,364,381	5,699,200	76.6
TOTALS	48,850,103	70,745,600	69.1
IUTALS	+0,000,100	10,145,000	09.1

*Increases in public land acreage are due to recalculations and better data, not acquisitions. Decreases are due to recalculations and land transfers.

by **BLM District**

DISTRICT	TOTAL ACRES MANAGED BY BLM
Elko	7,387,692
Winnemucca	8,252,960
Carson City	5,323,491*
Ely	8,007,779
Las Vegas	10,006,712
Battle Mountain	8,401,725
Susanville	1,452,241**
Boise	58,082***
TOTAL	48,890,682
*I 40 570	

*Includes 40,579 acres managed by Carson City District in California. **Land in Washoe and Humboldt Counties administered by the Susanville, California BLM District.

***Land in Elko County administered by the Boise, Idaho BLM District.

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Fiscal Management

Like any other large management operation, the BLM in Nevada is responsible for collecting and paying out sizeable amounts of money. The Bureau collects money from many sources utilizing the public lands and deposits these monies in the U.S Treasury. It also pays out money appropriated by Congress for managing the lands and handles two special types of payments involving these lands.

One special payment, authorized by various federal laws, is to the State of Nevada for its share of certain receipts collected by BLM. The State receives 50 percent of all mineral leasing revenues, 12 1/2 to 50 percent of grazing revenues (the percentage depends upon the category of lands being grazed), and four percent of all revenues from sale of lands and materials.

The second special payment, authorized by a 1976 federal law, is made directly to Nevada's counties in lieu of property taxes. The purpose of the payments is to compensate the counties for the burden resulting from the tax immunity of the public lands. This "in lieu" payment is based upon a complex formula taking into account the amount of certain federal lands within the county borders, the county population, and certain federal payments made to that county.

FISCAL OVERVIEW FY 81

Total Public Land Receipts Collected by BLM

\$27,126,328

Total Funds Paid out by BLM from the U.S. Treasury Relating to Public Land Management in Nevada

> Direct Cost Expenditures \$22,287,813 Payments to State of Nevada 10,916,935 Payments in Lieu of Taxes 5,525,704

> > TOTAL

\$38,730,452

RECEIPTS

Mineral Leases and Permits	
Oil and Gas	18,815,088
Geothermal	1,764,047
All Others	37,597
Sale of Lands and Materials	
Land	881,699
Materials	16,954
Timber	63,434
All Others	213,368
Grazing	
Section 3*	4,282,271
Section 15**	86,834
Fees and Commissions	773,409
Rights-of-Way	135,540
Rents of Land	49,082
All Others	7,005
TOTAL	\$27,126,328

*Section 3 refers to grazing within grazing districts. **Section 15 refers to grazing outside established grazing districts.

DIRECT COST EXPENDITURES

Range, Wildlife Habitat, Soil and Water Improvements (\$639,000 of this amount is directly from grazing fees) \$ 1,084,000Maintenance of Range, Wildlife Habitat, Soil and Water Improvements (\$366,000 is directly from grazing fees)512,500Recreation and Other Facility Construction Recreation and Other Facility Construction803,500Road Construction and Easement Acquisition Maintenance of Roads and Facilities621,500RESOURCE PROTECTION Fire Prevention Energy Minerals1,672,000Maintenance of Roads and Facilities2,338,000MANAGEMENT Lands and Realty Oil and Gas Geothermal Oil and Gas Geothermal Size,500312,000Geothermal Grazing Management Wild Horse and Burro Management Wild Horse and Burro Management Wild Heres Management Cutural Management Wild Here Management Covert Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management	CONSTRUCTION AND MAINTENANCE	
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Cultural Management230,000Wilderness Management425,000Recreation and Visual Resource Management730,500Soil, Air, and Water Management2,797,500Wildlife Habitat Management936,000Fire Management479,000Planning for Multiple Use862,000Law Enforcement32,500	Grazing Management	
Wilderness Management425,000Recreation and Visual Resource Management730,500Soil, Air, and Water Management2,797,500Wildlife Habitat Management936,000Fire Management479,000Planning for Multiple Use862,000Law Enforcement32,500	Wild Horse and Burro Management	1,366,000
Wilderness Management425,000Recreation and Visual Resource Management730,500Soil, Air, and Water Management2,797,500Wildlife Habitat Management936,000Fire Management479,000Planning for Multiple Use862,000Law Enforcement32,500	Cultural Management	230,000
Recreation and Visual Resource Management730,500Soil, Air, and Water Management2,797,500Wildlife Habitat Management936,000Fire Management479,000Planning for Multiple Use862,000Law Enforcement32,500	Wilderness Management	425,000
Soil, Air, and Water Management2,797,500Wildlife Habitat Management936,000Fire Management479,000Planning for Multiple Use862,000Law Enforcement32,500	Recreation and Visual Resource Management	730,500
Wildlife Habitat Management936,000Fire Management479,000Planning for Multiple Use862,000Law Enforcement32,500		2,797,500
Fire Management 479,000 Planning for Multiple Use 862,000 Law Enforcement 32,500		936,000
Planning for Multiple Use 862,000 Law Enforcement 32,500		
Law Enforcement 32,500		
CONTRIBUTIONS AND REIMBURSABLES 581,813		
		581,813

TOTAL

PAYMENT TO STATE OF NEVADA

SOURCE	AMOUNT
Mineral Leases Sale of Lands and Materials	\$10,291,216 47,018
Grazing Section 3 Section 15	535,284 43,417

TOTAL \$10,916,935

PAYMENT IN LIEU OF TAXES

COUNTY	PAYMENT	COUNTY	PAYMENT	COUNTY	PAYMENT
Carson City Churchill Clark Douglas Elko	\$ 38,101 434,000 999,056 183,460 493,000	Esmeralda Eureka Humboldt Lander Lincoln Lyon	38,850 59,900 342,000 204,100 186,600 429,225 TOTAL		272,360 342,312 170,400 9,443 994,897 e 328,000 25,704

\$22,287,813

BLM Employment

Permanent employment for BLM in Nevada increased by approximately 10 percent over fiscal year 1980. This included employment in both permanent full-time and When Actually Employed (WAE)* positions.

Six new positions were added to the BLM's permanent full-time positions during this time for the Saval ranch project, soil, water and air; wild horse and burro; cadastral survey and wildlife programs. During most of the fiscal year, the Bureau was involved in a hiring freeze imposed by the Reagan Administration early in the calendar year. While BLM could still hire into its WAE work force, permanent positions were filled by exception only. A number of conversions from the WAE work force were made to full-time permanent positions in order to maintain a stable work force. Some of the six new positions were used for that purpose.

BLM NEVADA EMPLOYMENT FY 81

Office	Permanent	WAE*	Part-Time	Temporary	Totals
State Office	96	67	11	20	194
Elko	30	39	0	26	95
Winnemucca	34	24	1	12	71
Carson City	38	59	0	36	133
Ely	32	25	1	8	66
Las Vegas	43	50	0	43	136
Battle Mountain	28	41	0	13	82
TOTALS	301	305	13	158	777

*When Actually Employed, less than full-time.



BLM summer employees assist in restoring a Tonopah gravesite.

Land Use Planning

Land use planning is the backbone of every resource management program within the Bureau of Land Management. Because the Bureau is responsible for managing a variety of resources in a large area of Nevada, a multiple use planning system is critical in providing the proper balance between the effective use and necessary protection of these resources.

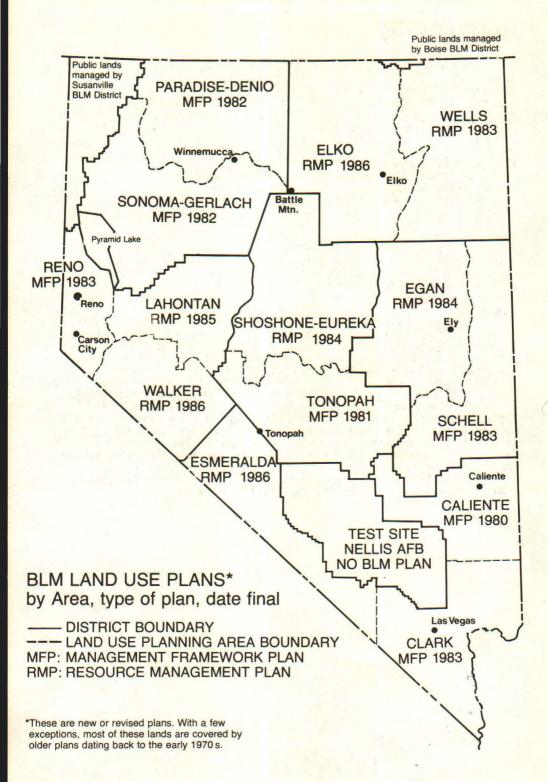
Most public lands in Nevada are already covered by a land use plan. Many of these plans, however, date back to the early 1970s and changes have occurred which demand revisions. To be effective, land use plans must be updated to reflect changing public needs, resource conditions, or new national laws or policies. The Bureau's planning system has evolved over the present decade to reflect these changes.

New plans are now being implemented in Nevada under two formats, the Management Framework Plan (MFP) and the Resource Management Plan (RMP). All plans started after October 1, 1980, incorporate the features of the new RMP method which concentrates on more effective public participation.

The Wells Resource Area in Elko County has been designated as part of a pilot program for the new RMP system. It, along with the Egan, Shoshone-Eureka, and Lahontan Resource Areas, is in the early phases of the RMP process. The Caliente Resource Area MFP was completed in Fiscal Year 1980. Other planning area MFPs are proceeding as scheduled. The Land Use Plan Map shows planning area boundaries and estimated completion dates.

Public laws, national policy, land characteristics, resource capabilities, and the needs and desires of the public must all be considered in multiple use planning. Public land resource users, environmental organizations, special interest groups, businesses, other governmental entities, state and local agencies, and affected Indian tribes, are all consulted at the onset and during the development of the plans. This development requires several steps including data gathering, identifying issues or conflicts, and weighing alternatives. Different combinations of resource uses are proposed and analyzed. If applicable, special facets such as grazing allotment management and wilderness management receive special attention. Once the analysis is complete and all viewpoints are considered, BLM managers must make the land use decisions. The land use plan sets out the combination and patterns of multiple use that are best for the area.

When the land use plan is complete, the Bureau and interested publics continue to coordinate in the implementation of the plan.



Environmental Coordination

Environmental impact statements (EISs) and environmental assessments (EAs) are prepared by the BLM when an activity or project is proposed on the public lands that could affect the quality of the human environment. Possible impacts that could result from allowing the activity are identified and analyzed and measures to lessen or mitigate the adverse impacts are considered. Public involvement stretches from the initial determination of the scope of the project to that of commenting on the document and its conclusions before final publication.

Once complete, the EIS or EA serves as an important guide to the land manager in making the final decision on the action or project. The environmental process ensures that informed decisions are made with full knowledge of the implications and management options available.

The difference between EISs and EAs is basically one of degree. Major actions require an EIS while actions less far-reaching and significant require an EA.

ENVIRONMENTAL IMPACT STATEMENTS (EISS)

Nevada EISs in 1981 encompassed BLM programs such as rangeland management and non-BLM projects such as coal-fired power plants. Grazing EISs completed were the Paradise-Denio and Sonoma-Gerlach EISs, both in the Winnemucca District. Grazing EISs initiated are Schell (Ely), Reno (Carson City), and Clark (Las Vegas)--all scheduled to be completed by September 1982. These EISs assess the impacts to the environment of various levels of livestock grazing on public lands.

Public lands are being considered by Sierra Pacific Power Company and White Pine County for possible coal-fired power plants. Siting studies and EISs have commenced for the Thousand Springs Project, northeast of Wells, Nevada, and the White Pine Power Project in White Pine County. Private environmental firms have been obtained to prepare the necessary EISs in close consultation with BLM.

ENVIRONMENTAL ASSESSMENTS (EAs)

Much of the BLM's environmental program revolves around EAs. In order to meet increasing responsibilities, the BLM in Nevada has adopted the use of categorical exclusions approved by the Department of the Interior, as well as other innovations to expedite actions while retaining the integrity of the environmental program. Categorical exclusions refer to certain categories of actions which do not normally cause significant impacts and, thus, are excluded from detailed environmental analyses.

In addition, the BLM in Nevada has been more responsive in processing many different types of actions by employing abbreviated EAs that utilize mitigating measures as part of the proposed action. The abbreviated EAs have less detailed analysis, yet contribute to informed decision making. This has resulted in greatly increased efficiency. Other efforts at increasing efficiency are aimed at utilizing tiering or building upon existing documents which already adequately analyze environmental effects.

The six district offices in Nevada prepared approximately 400 EAs during fiscal year 1981. Most of these centered around routine actions such as range improvements, minor rights-of-way, material sales, etc. Other more significant actions that were assessed this past year included Desert Land Entry applications, control programs of major insect infestations and minor powerline constructions.

Cadastral Surveys

Cadastral surveys, the official government surveys of public lands, are conducted by the Cadastral Survey Branch in each BLM state office. These surveys are fundamental to the proper development and effective administration of the public lands. In Nevada, this program was initiated in 1861.

About 29 million acres surveyed prior to 1910 are in need of resurvey because of little remaining evidence of the original corner monuments placed at that time. About 19 million acres are unsurveyed.

Immediate goals of the program are to accomplish surveys necessary to provide descriptions for land disposals including desert land entries, sales, exchanges, and mineral patents, and to define the boundaries of public lands in areas of intermingled public and private ownership patterns so the public lands can be properly managed.

During fiscal year 1981, four BLM survey crews surveyed section lines enclosing 267,826 acres of BLM and Forest Service lands. A summary of other survey statistics is outlined below:

SURVEY STATUS

ITEM	FY 80	FY 81
Acres surveyed Forest Service BLM	11,545	1,617 52,662
Acres resurveyed Forest Service BLM	315,959	26,608 186,939
Acres unsurveyed Minerals surveyed Plats accepted	18,771,725 3* 52	18,771,725 10** 15
Acres surveyed to present	51,512,105***	51,566,384***

*Approved FY 1980, three mineral surveys consisting of 54 claims. **Approved FY 1981, 10 mineral surveys consisting of 41 lode claims, 5 placers and 12 millsites.

***Total includes all rectangular surveys in Nevada, including public, state, and private lands.



Cadastral surveys describe lands and define boundaries.

Lands and Realty Management

The lands and realty program involves three major activities: land transfers, land leases, and rights-of-way. The backbone of this effort is a sophisticated records system for keeping track of these activities on millions of acres of public lands in Nevada.

There are various federal laws which allow the transfer of public land into private ownership. Some lands are transferred for specific purposes, such as mineral development, desert land farming, and Indian allotments. Some are given free to local governments for recreation or other public purposes. Other lands are traded or exchanged for private land. Each year public lands also are sold to the highest bidder at auction. Selection of most of these lands is made through the Bureau's land use planning system. With the public's help, decisions are made about which lands are more suitable for private use and development.

Highlights of lands transfers in fiscal year 1981 include issuance of a patent to the City of Winnemucca, at no cost, for airport use. Also, patents were issued pursuant to the Unintentional Trespass Act. All of the lands in Nevada subject to this law have now been patented.

Another active disposal program is made possible by the Recreation and Public Purposes Act. Through this law, local governments are able to obtain by lease or purchase public land free for uses such as schools and community projects. In fiscal year 1981, land was provided to Humboldt County for use as a cemetery. Prior to this, Paradise Valley burials were at the Winnemucca cemetery. Also, 80 acres were patented to Lincoln County, on behalf of the town of Alamo, for use as a rodeo ground, and 20 acres were patented to Clark County for school sites.

Leases are also authorized by various federal laws. These allow use of the public land for a certain period of time and sometimes include an option to buy the property through the disposal laws.

Rights-of-way involve both energy-related and non-energy related projects. Energy rights-of-way typically issued in Nevada include power transmission lines. Non-energy rights-of-way include grants to developers to build new access roads across public lands and to expand streets in urban areas. Water pipelines, communications sites, and material site rights-of-way are other examples.

LAND PATENTS ISSUED FY 1981

0		
2 25 5 1 1 3 44		180 105 190 125 10,679 10 858 384 12,531
	2 25 5 1 1 3 44	2 25 5 1 1 <u>3</u> 44

LAND LEASES IN EFFECT SEPTEMBER 30, 1981

KIND		NO.	ACRES
Recreation and Public Purposes Mining Claim Occupancy Airport Small Tract	TOTALS	124 1 35 <u>3</u> 163	8,739 3 14,670 <u>15</u> 23,427



This Washoe County fire station site was obtained through the Recreation and Public Purposes Act.

RIGHTS-OF-WAY IN EFFECT SEPTEMBER 30, 1981

KIND		NO.
Communication Sites Electrical Transmission		290 694
Federal Highway		97
Highway, Tram, Access Road Material Site		157 351
Pipeline - Oil and Gas Pipeline - Water	* 2	39 195
Railroad		70
Telephone - Telegraph Water Reservoir or Ditch		348
TOTAL		2,261

Minerals Management

Mineral production on public land in Nevada involves three distinct systems: location, leasing, and material sale. Location involves minerals like gold and silver. Miners locate claims to acquire mineral rights. When a valuable deposit is found, the mining claim may be patented and title obtained to both the mineral and the surface land. Oil and gas, geothermal, sodium, and other similar minerals are available through mineral leasing. Leases on tracts are issued for specific periods of time and the lessee pays a rental fee and royalties on the mineral produced. Common sand, gravel, and other construction materials are available through material sales or through free use permits by governmental agencies and nonprofit organizations.

In 1980 there were approximately 475 active mining operations in Nevada. There are 75 underground, 297 open pit, 165 mill and 32 heap leach operations. (Some operations include both mine and mill.) About 28 mineral commodities are produced in the State. The value of the mineral production in 1980 was just under \$400 million.

During 1980, Nevada was first in the nation in the production of barite, magnesite and mercury. It was second in the production of diatomite, gemstones, gold and lithium; and third in fluorspor and tungsten.

Oil and gas operations on public lands in Nevada yielded a fourth oil area in Railroad Valley in fiscal year 1981. The new area, known as Bacon Flat, has not proven to be as extensive as Trap Springs and may be a small reservoir. The promising area around Jiggs, Nevada, was found to be submarginal economically and operations have been suspended for the foreseeable future. Drilling activity was down rather markedly by the end of the year.

MINING CLAIM RECORDATION STATUS FY 81

Total claims recorded during fiscal year 1981: 50,209 Total claims recorded through September 30, 1981: 207,949

MINERAL LEASES AND PERMITS IN EFFECT FY 81

ТҮРЕ	NO.	ACREAGE	
Oil and Gas Leases	8,321*	15,886,663**	
Geothermal Leases	1,021*	1,638,205**	
Sodium Leases/Permit:		25,727	
Potassium Leases/Per	nits 19	25,618	
Phosphate Leases/Perr	nits 1	1,840	
Other (Silica Sand an	nd		
Gravel)	7	2,969 17,581,022	
TOTALS	9,387	17,581,022	

*Includes competitive leases. **Includes competitive acreage.

OIL AND GAS LEASES IN PRODUCTION FY 81

Number: 26

Location: 16 wells in Trap Springs* 9 wells in Eagle Springs* 1 well in Bacon Flats*

Acreage: 5,962 Barrels Produced: 699,672

*All fields located in Railroad Valley, Nye County.

Royalties paid to the State of Nevada: \$1,287,523.

OIL AND GAS LEASES BY COUNTY FY 81

COUNTY		OF LEASES Non-Competitive	LEASED Competitive	ACREAGE
COONTI	competitive	Non-competitive	competitive	Non-Competitive
Church 111		436		913,339
Clark		1,328		2,485,128
Elko		1,583		3,496,384
Esmeralda		10		10,063
Eureka		642		1,136,547
Humboldt		164		632,871
Lander		268		537,041
Lincoln		1,601		3,793,886
Lyon		7		12,353
Mineral		13		16,391
Nye	2	2,146	400	2,564,978
Pershing		120		286,127
Washoe		1		1,155
White Pine	- 1 C	1,775		1,444,761
TOTAL	S 2	10,094	400	17,331,024

FREE USE MATERIAL TO STATE AND LOCAL GOVERNMENTS

MINERAL	NO. OF PERMITS	AMOUNT OF MATERIAL
Sand and Gravel	29	622,560 cubic yards
Common Borrow	18	124,695 cubic yards
Decomposed Granite	19	109,900 cubic yards
Rip Rap	1	600 tons

MINERAL MATERIAL SALES FY 81

AMOUNT SOLD

VALUE

Sand and Gravel	848,673	cubic	yards		\$128,363	
Common Clay	155,000				12,800	
Common Borrow	83,960	cubic	yards		8,400	
Decomposed Granite	39,941	cubic	yards		11,980	
Top Soil	12,653	cubic	yards		2,501	
Traprock	50,000	tons			5,000	
Building Stone	459	tons			822	
			TOTAL	VALUE	\$169,866	

MINERAL

Geothermal Energy

After almost a decade of exploration, the first commercial uses of geothermal energy in Nevada are showing great promise. A dehydration plant at Brady Hot Springs and a pilot alcohol production unit at Wabuska (both on privately owned land) are encouraging commercial applications. Other alcohol production proposals are being developed for Brady Hot Springs and Crescent Valley areas. Sierra Pacific Power Co. and its partners have ordered a 10-megawatt test unit to evaluate the potential of the Steamboat Springs, Dixie Valley, and the Beowawe Known Geothermal Resource Areas for electricity generation. A target date of 1982 or 1983 has been set for engineering tests on the project.

Geothermal leasing and exploration remained brisk on Nevada's public lands in fiscal year 1981 and Nevada BLM continued to lead all other western states in number of leases issued, amounting to 45 percent of the national total.

The BLM issues two types of leases on public lands for geothermal exploration and development: non-competitive and competitive. Non-competitive leases are issued on a first-come, first-served basis for a yearly rental fee and royalties on any energy produced. Competitive leases are issued in promising areas, called Known Geothermal Resource Areas. These leases are issued by competitive auction through bonus bids. The successful lessee pays rental fees and royalties.

GEOTHERMAL LEASES ISSUED FY 81

TYPE	NUMBER OF LEASES	ACREAGE
Non-competitive Competitive	112 2	203,663 4,555
TOTALS	114	208,218

GEOTHERMAL DRILLING ACTIVITY IN NEVADA FY 81 (on both public and private land)

Number of Holes Drilled: 11 Cumulative Footage: 76,814 feet

COMPETITIVE GEOTHERMAL LEASE SALES FY 81

KNOWN GEOTHERMAL RESOURCE AREA SALES	NO. O LEASE		AMOUNT OF BONUS BID
Brady-Hazen (Reoffer) Dixie Valley (Reoffer) Elko Hot Springs (Reoffer) Monte Neva Salt Wells Basin Wabuska		7,585 6,400 1,320 No bids received No bids received No bids received	\$ 7,585 45,690 6,600
TOTALS	8	15,305	\$59,875



Nevada BLM leads all western states in geothermal leasing.

GEOTHERMAL LEASES IN EFFECT BY COUNTY FY 81

COUNTY	NUMBER OF	LEASES	NUMBER OF	ACRES
	NON-COMPETITIVE	COMPETITIVE	NON-COMPETITIVE	COMPETITIVE
Churchill	161	29	448,263	54,618
Elko	19	-	25,688	-
Esmeralda	33	-	77,135	-
Eureka	13	-	16,299	
Humboldt	90	7	166,349	13,512
Lander	54	3	84,342	6,328
Lyon	6	4	4,497	5,306
Mineral	18	- C -	36,224	-
Nye	32	-	53,872	-
Pershing	164	15	280,704	29,185
Storey	1	-	591	
Washoe	19	11	19,281	18,255
White Pine	42	-	95,309	-
	TOTALS 652	69	1,308,554	127,204

Soil, Water, and Air Resource Management

The long-range objectives of this program are to stabilize watersheds, to protect the soil, water, and air resources from further deterioration, and to develop or improve watershed conditions to meet specific resource needs. Typical needs include greater water quality and/or quantity, reduction of flood damage, reduction of sediment, and minimization of airborne materials. The needs are determined by soil, water, and air resource inventory and analysis.

The short-range goals are accomplished through resource development and conservation programs which apply land treatments such as grass seeding, brush control, or fencing that will control or help prevent soil erosion and water and air resource degradation. By reducing erosion and restoring soil productivity, other resource use values such as fish and wildlife development, livestock forage, timber production, outdoor recreation, and aesthetic values on watershed areas are enhanced. These treatments result in better air and water quality, renewal of ground water supplies, control of flood and sediment, protection of public health, and stabilization of local economies.

In order to assist the State of Nevada and to determine impacts of land management practices, a planned water quality monitoring program has been underway since 1979 on Bureau-administered lands statewide. Approximately 80 monitoring locations have been sampled for a single year in each District. These key sample locations are part of a continuing program to provide management information regarding the quality of water and public lands within Nevada. This effort is coordinated with the State of Nevada and other Federal agencies.

Twelve watersheds (see below) throughout Nevada have been monitored since 1962 for water resources, climatological and air resources information. These watersheds represent typical remote watersheds throughout Nevada, and the information collected is used by management for input into decisions where water and air resource information is essential.

NEVADA BLM WATERSHED MONITORING 1962 TO PRESENT

		ARE	EA
DISTRICT	WATERSHED	SQ. MILES	ACRES
Elko	Rock Springs Crain Springs	77 30	49,280
Winnemucca	Crowley Creek Cow Creek	56 115	35,840
Carson City	Eastgate	213	136,320
Ely	Churchill Duckwater	73 96	46,720 61,440
Las Vegas	Steptoe Canyon Pine Canyon	45 32	28,800
Battle Mountain	Mathews Canyon Coils Creek	36	23,040 32,000
	Mill Creek	23	14,720

Soil surveys are being conducted statewide to provide land managers with information about the soil resource so that soils can be used within their capability and treated according to their needs when making land use decisions. Soil interpretive data provides base line information that will assist in making decisions as it relates to: identification of present and potential ecological plant communities; identification of potential agricultural soils; soil suitability for rangeland seeding; location of structures, highways, utility corridors, recreational facilities, etc.; determination of allowable soil losses and control of erosion; reclamation of mined land, burn areas; integrated and comprehensive assessment of soil resources for land use planning.

The long-range goal is to inventory soils in all BLM-administered land in Nevada by 1988. As of October 1, 1981, more than 30 million acres of soil inventories have been completed. Following is a list of BLM District accomplishments by fiscal year 1981 and cumulative totals.

RESOURCE DEVELOPMENT AND CONSERVATION WORK, FY 81

		SOIL SURVEYS
DISTRICT		FY 81 (ACRES)
Elko		1,253,000
Winnemucca		656,184
Carson City		450,000
Ely		514,893
Las Vegas		1,250,840
Battle Mountain		1,053,500
	TOTAL	5,178,417

TOTAL RESOURCE DEVELOPMENT AND CONSERVATION WORK 1936 THROUGH OCTOBER 1, 1981

DISTRICT	BRUSH CONTROL (ACRES)	GRASS SEEDING (ACRES)	FENCING (MILES)	WATER STRUCTURE (NUMBER)	SOIL SURVEYS (ACRES)
Elko	70,731	182,787	2,054	565	4,067,660
Winnemucca	76,315	78,758	1,855	942	2,684,363
Carson City	25,365	21,380	1,557	929	4,907,064
Ely	16,440	22,581	1,618	352	2,977,885
Las Vegas	23,780	27,518	1,028	245	8,632,537
Battle Mountain	19,755	109,630	921	242	5,238,310
Susanville	14,430	11,487	524	282	1,813,226
TOTALS	246,816	454,141	9,557	3,557	30,321,045*

*Acreage includes approximately 8,000,000 acres of low intensity (Order 4) soil surveys.

Public Domain Forestry

The sale of forest products increased again in 1981. Demands by both private and commercial users, for Christmas trees, cordwood, post and poles, and pine nuts were at a record level in 1981.

The harvest of cordwood and posts and poles exceeded 5,673 million board feet for the year. All BLM districts showed an increased harvest except Las Vegas. Christmas tree sales were 46,716, a 28 percent increase over 1980.

Picking pine nuts is another popular activity on the public land. No permit is required, and a family may collect up to 20 pounds a year free. This year 15 commercial pine nut sales were made that resulted in the harvest of 162,005 pounds. This is the largest harvest of pine nuts from the public domain forest in many years. Pine nuts have been a major source of food for Indian tribes as well as a traditional part of their culture for generations. For this reason, first consideration on many large areas goes to Nevada's Indian tribes.

SUMMARY OF FOREST PRODUCTS SALES FOR 1981

DISTRICT	CHRISTMAS TREES	CORDWOOD	PINE NUTS (LBS.)	FENCE POSTS	TOTAL \$ VALUE
Elko	14,493	762	300	2,508	\$ 16,567
Winnemucca	643	293	0	265	1,282
Carson City	16,476	5,305	14,400	877	34,520
Ely	1,642	645	33,400	5,035	8,285
Las Vegas	11,464	4,257	0	1,938	23,841
Battle Mountain	1,998	700	114,205	7,428	19,043
TOTALS	46,716	11,962	162,305	18,051	\$103,538



The pinion pine yields nuts for commercial, family and Indian use.

Wilderness

Inventory, the first phase of the Bureau's wilderness review, was brought to a close during fiscal year 1981. Directed by Congress to review all the public lands for wilderness consideration, the BLM embarked on a three-phase review effort, consisting of inventory, study, and eventual reporting to Congress of the BLM's recommendations. Those areas which met the wilderness criteria set forth by Congress--roadless areas of 5,000 acres or more, generally in an undeveloped state having outstanding opportunities for solitude or primitive recreation--were identified as Wilderness Study Areas (WSAs). Congress, however, reserved to itself the final decision on which lands will and will not become protected wilderness areas in the National Wilderness Preservation System.

Protests of the statewide wilderness inventory decisions were resolved and several appeals were filed with the Interior Board of Land Appeals as a result of the protest decisions. These appeals are currently being reviewed by the Board, and decisions on each appeal should be issued during 1982.

Studies are underway on roughly one-third of the WSAs in Nevada. The areas under study are in the Winnemucca District and portions of the Battle Mountain and Ely Districts. During the study phase, wilderness will be incorporated into the Bureau's Land Use Planning System where the wilderness resource will be evaluated along with all the other resources on the public lands. Public involvement is an important step in this process. Recommendations coming out of the planning process will be forwarded to the Secretary of the Interior and then the President, who will in turn forward them to Congress.

STATUS OF THE WILDERNESS REVIEW BY THE END OF FISCAL YEAR 1981*

Acres designated WSAs**	5,149,271	(110 units)
Acres eliminated from consideration	43,834,986	(1,593 units)
WSA acres under appeal	3,111,504	(63 units)
Non-WSA acres under appeal	619,617	(10 units)
WSA acres undergoing wilderness study	1,963,490	(33 units)

*Acreage includes public land in Nevada managed by the California and Idaho BLM Offices, but does not include land in California managed by the Nevada BLM.

**Appealed WSA acreage included.



Pine Creek Wilderness Study Area, Clark County.

Wildlife Habitat Management

The Nevada wildlife program consists of two primary efforts, direct habitat improvement through projects specifically for wildlife, and indirect benefits realized from other program actions carried out with wildlife needs in mind. These two aspects encompass the singular objective of the wildlife program: maintaining or improving habitat conditions necessary for fish and animals to thrive. The Habitat Management Plan (HMP), of which 47 have been completed in Nevada to date, remains the primary mechanism for direct habitat and wildlife restoration efforts. Implementation work is progressing on all of these plans as funding permits. The ultimate goal is to have HMPs developed and implemented on all public lands in Nevada considering all species of wildlife: game and non-game, terrestrial and aquatic.

The indirect aspects of the wildlife program include support of land use planning for development of other resources, input to environmental analyses and impact statements, endangered species compliance, input into other resource development programs (allotment management plans, rights-of-way, mineral development, etc.).

A major aspect of both the direct and indirect program is the coordination of resource management planning with other federal and state wildlife agencies and user interests. Through this coordination, benefits to wildlife are often realized through incorporating wildlife provisions in other subactivity management plans, developing stipulation and mitigative measures for wildlife and providing for habitat rehabilitation following development.

WILDLIFE PROJECT WORK COMPLETED IN FY 81

Preparation of Habitat Management Plans	2
Development of water facilities (guzzlers, spring	
developments)	40
Meadow riparian protection (miles of fencing)	5
Habitat monitoring studies	300
Maintenance of habitat protection fences (miles)	18
Inventory of aquatic habitat (miles)	300



Rocky Mountain bighorn sheep inhabit some areas in Nevada.

Grazing Management

The top priorities of the grazing management program are to gather and to provide data necessary to develop land use plans and a series of environmental impact statements (EISs) on livestock grazing on public land. Out of 14 statements required to analyze the possible environmental impacts of this activity, four have been completed and ten are scheduled for completion over the next six years. The schedule for future statements is: 1982, Clark, Schell, and Reno; 1983, Wells; 1984, Egan and Shoshone-Eureka; 1985, Lahontan; 1986, Elko and Esmeralda; and 1988, Walker. For locations of these resource areas, please refer to the land use planning map.

Following the completion of the EIS and land use plan, grazing management decisions will be issued to make adjustments in grazing use according to a locally developed schedule. Prior to issuing decisions on grazing use, the BLM will consult with all affected parties through the coordinated resource management and planning process (CRMP). CRMP is an approach for bringing various interests -- such as livestock users, government agencies, wildlife and wild horse groups, environmental groups, and others -- together to develop action plans for achieving multiple-use objectives within land use decisions, laws, and regulations. If successful, the result is a consensus and commitment of all those affected to specific courses of actions for each resource in a given area. The data used to support these decisions will come from an intenstive statewide monitoring program which may be supplemented with local, site-specific vegetation inventories, where needed, to resolve serious resource conflicts. Grazing uses that will be monitored are wildlife, livestock, and wild horses. Grazing management program personnel continue to administer and manage the public lands by issuing grazing authorizations, conducting compliance checks, and taking action on trespass, when necessary.

Another important aspect of the grazing management program is the experimental stewardship program created by Congress in 1978. The program provides incentives for livestock users to apply innovative approaches to improve range condition. The Tonopah Resource Area is Nevada's pilot area. Implementation of the stewardship effort through the CRMP process began in fiscal year 1981.

FORAGE PROVIDED AND NUMBER OF LIVESTOCK AUTHORIZED TO GRAZE ON PUBLIC LANDS FEE YEAR 1980*

DISTRICT	NUMBER OF OPERATORS	ANIMAL UNIT MONTHS**	NUMBER OF CATTLE	NUMBER OF HORSES	NUMBER OF SHEEP
Elko	157	464,043	112,439	631	30,201
Winnemucca	98	285,604	50,105	185	14,357
Carson City	80	121,600	18,118	38	35,483
Ely	101	163,424	30,465	33	81,563 -
Las Vegas	99	131,320	14,789	106	13,602
Battle Mountain	72	323,973	66,187	179	26,187
	607	1,489,964	292,103	1,172	201,393

*Grazing fee year 1980 ran from March 1, 1980, to February 1, 1981. **An Animal Unit Month is a measure of the forage needed to feed one cow or five sheep for one month.

Range Improvements

The public rangelands in Nevada are currently producing vegetation at less than their full potential. The objective of the range improvement program is to achieve improved rangeland conditions within the framework of multiple-use management. To accomplish this objective, the timely and efficient completion of structures, developments, and land treatments coupled with proper grazing management are key factors supporting management actions necessary to improve rangeland conditions. While the majority of these projects are required to support intensive grazing management, other resource values and objectives are considered in designing the projects to ensure the maximum benefit is realized by all uses. One example where supplemental benefits are realized is where a fence and well are needed to implement a livestock grazing system. The resulting change in grazing use patterns may also reduce grazing competition on an adjacent deer winter range and provide additional water to a resident band of wild horses and burros.

The majority of funding for this program originates from the grazing fees paid by livestock operators holding grazing leases and licenses. However, this source may be supplemented by funds appropriated under the Public Rangelands Improvement Act of 1978 or from contributions received from the livestock operators themselves.

RANGE IMPROVEMENTS COMPLETED IN FY 81

TYPE OF IMPROVEMENT

NEW CONSTRUCTION

44 each

35 miles

32 units

MAINTENANCE

Cattleguards Fences Land Treatment Water Facilities

14 units 147 units 1,000 acres 135 units



A water development on public rangeland.

Wild Horse and Burro Management

This program was created with passage of the Wild, Free-roaming Horse and Burro Act on December 15, 1971. This federal law provides for the protection, management, and control of all wild horses and burros on lands administered by the BLM and the U.S. Forest Service.

Nationally, about 55,700 wild horses and 17,100 wild burros inhabit these lands. The bulk (52,700 horses and 16,900 burros) live on public lands administered by the BLM in 10 western states. Nevada's share, which includes most of the wild horses, is outlined below.

WILD FREE-ROAMING HORSES AND BURROS IN NEVADA - FY 81

DISTRICT	HORS	BURF	ROS
Elko	1,68	- 8	
Winnemucca	7,25		0
Carson City	4,32	246	6
Ely	2.00		
Las Vegas	5,49		6
Battle Mountain	5,28		8
TOTALS	26,05	1,330	0

The BLM's goal is to provide uniform and effective direction for the management of these animals on public lands and to establish a natural ecological balance to benefit wild horses and burros and all other users of these lands.

The BLM is authorized by law to round up and remove wild horses and burros when their numbers exceed the optimum grazing capacity. The total removed in fiscal year 1981 is noted below.

ROUND UPS COMPLETED - FY 81

DISTRICT	GATHERING AREA	HORSES GATHERED
Elko	Owyhee/Snowstorm	389
Winnemucca	Lava Beds/Seven Troughs	608
	East Range	668
	Eugene Mountains	292
	Majuba Mountains	150
	Bloody Run/Krum Hills	173
	West Humboldts	247
Carson City	Clan Alpine	568
	Pine Nuts	30
Battle Mountain	Bald Mountain	271
	Reveille Valley	276
	TOTAL	3,672

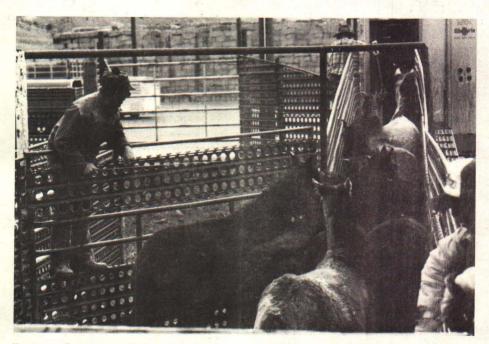
After a round up, excess wild horses are transported to a Bureau placement center for handling. There, the animals are carefully checked, given necessary veterinary care, inoculated, and branded with a permanent identification code. Sometimes, a few animals are turned back onto the range because of age or temperament, some are found to be branded and privately owned and are turned over to the State of Nevada for handling, and some either die from natural causes or are humanely destroyed as ordered by a veterinarian because of certain illnesses or infirmities. The large majority are adopted under the Bureau's Adopt-a-Horse program, either from the Nevada facility at Palomino Valley near Sparks or from one of the Bureau's adoption centers in other states.

DISPOSITION OF EXCESS ANIMALS - FY 81

NO. ADOPTED/LOCATION OF ADOPTION CENTER	NUMBER AT PALOMINO VALLEY START OF FY 81	BRANDED/ PRIVATE	DIED OR HUMANELY DESTROYED	BALANCE REMAINING AT PALOMINO VALLEY END OF FY 81
1,713 Nevada	771	83	389	147

580 Texas 1,010 Tennessee 208 Washington 49 Oregon 264 Colorado

3,824 TOTAL



Horses from the Palomino Valley corrals are loaded for a trip east to adoption centers in Texas and Oklahoma.

Cultural Resources Management

The objectives of the cultural resources program are to discover and preserve prehistoric, historic, and Indian sites for scientific, cultural, and religious use by present and future generations. The Bureau's cultural resource management program includes inventory, protection or stabilization, and interpretation of these pieces of the past.

Inventory and protection activities are implemented through performance of professional level clearances on all Bureau actions or actions allowed by permit that may have a potentially adverse effect on known or previously undiscovered cultural resources. Through various interpretive and public awareness activities such as signing, construction of interpretive trails, and publications, the BLM is taking a positive step toward increasing public appreciation of the remains of our western heritage.

Field studies performed in fiscal year 1981 included excavations at two rock shelter sites in Hidden Valley, located northeast of Las Vegas; at a large prehistoric campsite in northeastern Nevada; and at a prehistoric quarry site, north of Pyramid Lake. The Hidden Valley study was undertaken by the University of Nevada, Las Vegas, to determine scientific and educational values still present so adequate protective measures can be planned. The other two projects, involving joint efforts by BLM and the Nevada State Museum, are designed to salvage important information from these sites in advance of proposed large scale mining operations. Work at the quarry site includes determination as to whether the site served as a major source of stone for toolmaking for inhabitants of the Pyramid Lake area over a lengthy time span of several thousand years.

In the Carson City District, the American Museum of Natural History, under a small stipend from the BLM, conducted a systematic inventory, mapping and artifact collection at the site of a suspected prehistoric drift fence, probably used in the hunting and ambush of antelope. In central Nevada, a joint, multi-year project between the BLM and the University of Nevada, Reno, was initiated at the Old Cortez mining site. The project involves mapping, test excavation, and stabilization of the remote mining site. Results of the excavations are expected to yield new information concerning the role of ethnic minority cultures in the early Nevada mining days.

Several activities were performed in providing information to the public in regard to this Bureau program. A portable archaeological study kit and slide program was developed by the Carson City District for use by local and regional schools. Four sets of these kits and programs are available to schools in Nevada and to other interested groups. A new interpretive entrance station has been installed at the Grimes Point Interpretive Trail near Fallon. Also, new issues in the ongoing Nevada Bureau's cultural resource publication series was distributed: A Cultural Resources Survey of the Carson and Humboldt Sinks, Nevada.

The South Fork Shelter near Elko, an important site in regard to the history of archaeological research in the State that was being used as an unauthorized fill site, was stabilized to prevent further degradation of remaining archaeological deposits.

CULTURAL RESOURCE INVENTORY

	WORK DONE IN FY 81	TOTAL THROUGH FY 81
Class 3 (Intensively Assessed Acres)	79,430	329,684
Class 2* (Extensively Assessed Acres)	133,200	754,471

*Class 3 acres are also included in Class 2 figures.

PROTECTION, STABILIZATION, AND INTERPRETATION PROJECTS

ACTIVITY	FY 81	TOTAL THROUGH FY 81
Positive Protection Signing	1	23
Research Excavations	3	12
Interpretive Schemes	1	4
Fencing	0	24
Stabilization	0	3
Irregular Patrol and Maintenance	0	58
Regular Patrol and Maintenance	0	12
Protective Withdrawals	0	4
Technical Publications	1	8



Petroglyphs depicting bighorn sheep can occasionally be found in the BLM's Ely and Las Vegas districts.

Recreation Management

The highlight of fiscal year 1981 in the BLM's recreation program was the completion of work on the Red Rock Canyon Recreation Lands Visitor Center near Las Vegas. As one part of an overall management plan for this highly popular recreation area, the visitor center contains interpretive displays to help visitors understand and appreciate the beautiful and fragile desert environment that exists there. Interpretive materials were installed in time for the January 1982 opening. That opening culminates almost 15 years of close cooperation by the BLM, the Nevada Division of State Parks, and the public in the management and development of this unique site.

Other interagency cooperative efforts in fiscal year 1981 included the BLM's assistance to the Heritage Conservation and Recreation Service on inventories directed by the Wild and Scenic Rivers Act and the National Trail Systems Act. BLM also cooperated in the Nevada Division of State Parks' update of its Statewide Comprehensive Outdoor Recreation Plan.

Designation of public lands for off-road vehicle (ORV) use and inventory of recreation potential for consideration in the BLM's land use planning system were also major recreation efforts during the fiscal year. ORV designations are a long-term effort to comply with two Presidential orders to protect areas of the public lands, promote safety, and minimize conflicts between users relating to ORV use. Fiscal year 1980 was the first year public lands in Nevada were designated as either open, closed, or limited to ORV use. All public lands in Nevada will be designated by 1989. The designations are developed through the land use planning system which encourages public participation in making these important choices.

Recreation inventories are also part of the land use planning system. Recreation opportunities are identified on the public lands and evaluated for the particular area under study. These opportunities are then considered in the multiple use context of the area and public input is sought to determine the best combination of uses possible. Where a highly desirable recreation opportunity is identified, the land involved may be designated a recreation management area and special management consideration is given to its recreation potential. The Bureau currently has 37 such areas in Nevada, covering about 1.2 million acres. The importance of these areas is demonstrated by the fact that more than 590,000 visitor/days were spent enjoying these areas during fiscal year 1981. Some of the most popular areas were Red Rock Canyon and the Las Vegas Dunes in the Las Vegas District and Indian Creek and Walker Lake in the Carson City District.

Campgrounds are also popular recreation spots and the Bureau currently maintains nine developed sites in Nevada. Details on these sites follow:

BLM DEVELOPED RECREATION SITES

DISTRICT	NAME OF SITE	NUMBER OF UNITS	OVERNIGHT
Elko	*Ruby Marsh	35	\$2.00 \$2.00
Carson City	*North Wildhorse Sportsman's Beach	12 17 20	\$2.00
	Tamarack Point *Indian Creek (California)	20 30 tent site vehicle site	
Las Vegas	Willow Creek	16	\$3.00 - -
Dattle Mountain	Willow Spring (Day use on	ly) 19	
Battle Mountain	Cold Creek	6	Ξ

*Water suitable for drinking

ORV DESIGNATION, FY 81

DISTRICT	AREAS	ACREAGE OPEN	CLOSED	LIMITED
Carson City	Grimes Point ⊙and Sand Mountain	0	540	0
	RECREA	TION INVENTORIES, F	Y 81	
DISTRICT	AREAS	STATUS		ACREAGE
Elko Carson City Ely Battle Mountain	Wells Lahontan Egan Shoshone-Euro	Complete Initiate Initiate eka Initiate	d d	4,141,000 2,422,000 3,826,000 4,399,000



Drag races at Sand Mountain, east of Fallon.

Fire Management

The fire management program includes the following activities: fire prevention, presuppression, suppression, and the use of fire as a resource management tool. These activities are integrated with the land use planning process to ensure that fire use and fire control actions are compatible with the involved ecosystems and other management actions.

During fiscal year 1981, fire prevention activities were conducted in all Nevada BLM districts with emphasis on cooperation with the Nevada Division of Forestry and the U.S. Forest Service. Activities included public education through presentations at local schools and distribution of Combined Forest Fire Prevention (Smokey Bear) posters, signs, and educational materials. There were discussions with recreationists, campers, ranchers, and other users of the public lands to explain local burning policies and procedures. During 1980, man-caused fires represented 37 percent of public land fires. During 1981, that figure was reduced to 35 percent as a result of cooperative prevention efforts.

Most of Nevada BLM fire control or suppression actions occur between May 15 and October 31. BLM district organizations initiate fire control actions. The districts' fire dispatch offices coordinate, through an extensive communication system, the use of pumper trucks, hand line crews, helicopters, and retardant bombers. Electronic technology such as the magnetic lightning detection system is also employed.

FIRE ACTIONS DURING CALENDAR YEAR 1981

ACRES BURNED

S

DISTRICT	9 ACRES OR LESS	10-99 ACRES	MORE THAN 100 ACRES	TOTALS	BLM	OTHER OWNER- SHIP	TOTALS
Elko	85	18	18	121	12,722	7,060	19,782
Winnemucca	11	1	8	20	1,635	1,751	3,386
Carson City	42	4	4	50	3,681	6,829	10,510
Ely	110	4	3	117	2,362		2,362
Las Vegas	172	13	4	189	1,674	6.022	7,696
Battle Mtn.	31	1	-	32	98	3	111
TOTALS	451	41	37	529	22,172	21.665	43,837
PERCENTAGE	A Particular State of the second	8	7	100	51	49	100

NUMBER OF FIRE ACTIONS

Use of fire as a resource management tool is called prescribed burning. Under carefully controlled conditions, the BLM initiates fires in some areas to help meet identified resource objectives.

PRESCRIBED BURNS DURING CALENDAR YEAR 1981

DISTRICT	PURPOSE		ACRES BURNED
Battle Mountain Carson City	Range Project Maintenance Rate-of-Spread Study*	TOTAL	600 5 605

*The rate-of-spread study has two purposes: 1) to obtain field verification of fire behavior prediction models, and 2) to study fire effects on plant species. Reports have been written on both subjects and are available upon request from the Division of Technical Services, BLM, Nevada State Office, P.O. Box 12000, Reno. Nevada 89520. The project will continue in 1982.



Rate-of-spread, flame length and vegetation responses to fire are being studied in a rate-of-fire spread/fire effects project.

Fire Rehabilitation

Immediately after a wildfire on the public lands is contained by BLM firefighters, other resource specialists begin evaluating the area to see if it has the potential to be rehabilitated and if the rehabilitation is cost-effective or necessary to meet resource objectives. The Bureau considers fire rehabilitation an emergency measure, second only to suppression of the wildfire and protection of life and property from flood or other natural disasters that can follow wildfires.

The goals of the BLM's fire rehabilitation efforts are to minimize the loss of soil and productivity, loss of water control, deterioration of water quality, and damage to property on or near the burned area.

The decision on whether or not to attempt rehabilitation is based upon a thorough but expeditious environmental assessment of the area. In some cases the assessment may indicate that rehabilitation efforts are not necessary and could be even more damaging to the area than the fire; in other cases the Bureau begins planning the seeding or construction efforts within 30 days after the fire is controlled. Actual rehabilitation work commences no more than 90 days after the fire unless the State Director defers the time because of a lack of moisture.

TOTAL	FIRE	REHABIL	ITATION	COMPLET	FED ON	PUBLIC	LANDS
		AS OF	SEPTEME	BER 30,	1981		

DISTRICT	SEEDING (ACRES)	FENCE CONSTRUCTION (MILES)	FENCE MAINTENANCE (MILES)
Elko	203,780	67	57
Winnemucca	7,650	32	
Carson City	17,543	13	32
Ely	15,003	29	
Las Vegas	4,100	4	1
Battle Mtn.	400	3	
TOTALS	248,476	148	90

Buildings and Facilities

The Red Rock Canyon Recreation Lands Visitor Center located 15 miles west of Las Vegas in Clark County was completed in the fall of 1981. The \$100,000 Phase II contract for site and landscaping work was awarded in 1981 with the work completed by November. The Visitor Center is tentatively scheduled to open to the public in January 1982.

The Bureau spent \$408,000 in fiscal year 1981 to perform routine maintenance on buildings and recreation facilities in Nevada. Of that amount, \$160,000 was spent on building maintenance and \$248,000 on recreational facilities. The latter includes some operational activities other than maintenance.

Roads

The Haystack Bridge, Elko County, Nevada, is scheduled for contract award and construction in the spring of 1982. The new pre-cast concrete bridge with access roads will replace a deteriorated wooden structure.

The BLM's current inventoried road system in Nevada covers 9,400 miles. During fiscal year 1981 about 1,574 miles were maintained at a cost of \$230,000. No new road construction was planned or completed by BLM in Nevada during the 1981 fiscal year. Road system information, by district, follows:

EXISTING MILES BY DISTRICT FY 81

MILES MAINTAINED IN FY 81

Elko	2,400	195
Winnemucca	1,250	323
Carson City	850	295
Ely	1,550	405
Las Vegas	1,400	186
Battle Mountain	1,950	170
TOTALS	9,400	1,574



The award-winning Red Rock Visitor Center, Clark County.