



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C. 20240

P.O. Box 245  
Berkeley, CA. 94701

August 8, 1974

## Memorandum

To: State Director, Wyoming

From: August L. Hormay, Range Conservationist

Subject: RRMULMDAP

On July 25 and 26, 1974 I visited the Slingerland and Halls Creek Allotments on the Landar Resource Area, Rawlins District, with Hugh Wall and personnel from the resource area and the district. I recommend The Hall Creek Allotment be used as the demonstration area. Sorry to be so late in informing you but I expect Hugh Wall has done so already.

I have assumed you plan to go ahead with the program so have proposed the week of November 11, 1974 for the management planning session.

If you have not already received information from the Denver Service Center on developments in this program in the other states I expect you will shortly.

cc: Denver Service Center



# United States Department of the Interior

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENT  
800 Truxtun Avenue, Room 311  
Bakersfield, California 93301

4133  
0401-~~24~~-28

Mr. Gus Hormay  
Pacific S.W. Forest & Range Experiment Station  
1960 Addison Street  
P. O. Box 245  
Berkeley, CA 94701

AUG 9 1974

Dear Gus,

Enclosed is a map showing the two areas being considered for the multiple use plan in the Bakersfield District. The route taken while inspecting the areas last Wednesday is outlined in green.

Sincerely,

*William R. Haight*

For -

Louis A. Boll  
District Manager

1 Enclosure:  
Encl. 1 - Map

P.O. Box 245  
Berkeley, CA. 94701

August 12, 1974

Mr. David P. Tidwell  
Division Chief, Range Management  
Idaho Department of Public Lands  
Boise, Idaho 83707

Dear Dave:

The last time I wrote you I was lining up a work program for the year and at the time was not sure where I would be going or when. I did a good job of it and committed myself to enough work for two or three men. From May to December 31, 1974 I will be spending 60 percent of my time on field travel and the other 40 percent preparing for the travel.

The Bureau is setting up an area in each of the western states to demonstrate rest-rotation multiple-use land management. This program is being carried out under my direction. Two areas are being set up in Idaho - one entailing the Hard Creek cattle allotment near Challis and the other the West Bellevue cattle allotment near Bellevue. These areas encompass federal, state and private lands. The Hard Creek area includes Forest Service and Bureau administered lands.

The Bureau, (State Director), and Forest Service will be inviting a wide array of federal, state, municipal and organized private interests to help prepare management plans for the areas. I will conduct the planning sessions. The one for Hard Creek is scheduled for October 21-23 and the one for West Bellevue for October 24-25.

You may have heard about the program by now. If not you will shortly. There is little chance I will see you before then. But do try to make one or both these sessions.

Best regards,

Gus

P.S. Maybe you can get the Governor to attend the first day of one of these sessions. I will be covering the rest-rotation approach to multiple-use land management.

P.O. Box 245  
Berkeley, CA. 94701

August 12, 1974

Memorandum

To: State Director, California

From: August L. Hormay, Range Conservationist

Subject: RRMULMDAP

I visited the Granite Mountain, Rand Mountain and Jawbone Canyon areas in the Mojave Desert Region on August 5-7, 1974 with Carl Rice and personnel from the Bakersfield and Riverside districts. All three areas pose critical land use problems that need urgent attention. The off-road vehicle use on the Jawbone Canyon and Rand Mountain areas is spectacular.

All three areas are suitable for demonstrating rest-rotation land management. But in all three cases there is a question of whether land ownership problems can be resolved sufficiently to go ahead with management this coming year, and also whether the grazing permittees can be brought to go along with change in management.

The situation on the Granite Mountain appears least complicated. It seems to me that a plan could be activated on this area this coming year.

The area involves Section 15 land which is leased to one livestock operator. Most of the area is in federal ownership. There is an appreciable amount of railroad land and some state land. A negligible acreage is owned by the permittee.

The principal management problems on the area are associated with livestock (cattle) and burro use and maintaining a population of bighorn sheep and many other kinds of wildlife. Recreational activity is moderate but probably will increase.

2

We can use any one of the three areas for demonstration purposes if the land ownership and permittee problems can be solved. I favor the Granite Mountain area but leave the selection to you.

I am proposing holding the planning session for the selected area the week of December 16, 1974.

I will be glad to discuss this matter further with you at your convenience if you wish.

cc: Glenner Lewis  
Center.

A. L. Hormay



# United States Department of the Interior

IN REPLY REFER TO  
4115.13

BUREAU OF LAND MANAGEMENT  
P. O. Box 151  
Lakeview, Oregon 97630

August 13, 1974

Mr. August L. Hormay  
Soil Conservationist  
P. O. Box 245  
Berkley, C lifornia 94701

Dear Mr. Hormay:

Thank you for deciding to attend the Juniper Mtn. Multiple Land Use Planning Session. I am confident it will prove rewarding to you and useful to us. I believe it could well be a major stepping stone for more effective and proper use of our public lands. The general session content remains basically as outlined in our first letter. Dates, time, and place has been set - they are:

## AGENDA FOR JUNIPER MTN. MULTIPLE LAND USE PLANNING SESSION

<u>Date</u>	<u>Place</u>	<u>Time</u>
Tuesday, August 27th	Banquet Room, Indian Village	8:00a.m. - 5:00p.m.
Wednesday, August 28th	Juniper Mtn. Allotment	7:30a.m. - 5:30p.m.
Thursday, August 29th	Banquet Room, Indian Village	8:30a.m. - 4:30p.m.
Friday, August 30th (IF NEEDED)	Banquet Room, Indian Village	8:00a.m. - 11:00a.m.

By starting on Tuesday, those of you who have some distance to travel, will have Monday to do so. It may be of interest to you that representatives of the following have indicated they will participate:

Bureau of Outdoor Recreation  
U. S. Environmental Protection Agency  
OSPRIG  
Oregon Cattleman Association  
Soil Conservation Service  
Oregon Soil & Water Conservation Comm.  
Wilderness Society  
Oregon Wildlife Commission  
Oregon Extension Service

U. S. Forest Service  
Oregon State University  
Lakeview Chamber of Commerce  
Oregon Environmental Council  
Western Livestock Journal  
Lake County School District  
Wendall Wyatt - House of Rep.  
Three other B.L.M. Districts  
Other Individuals

A total of 43 people will be involved in this planning effort.

We would be more than happy to make lodging reservations for you. If you so desire, please refer your request to Zan Pike here at our office. The two motels closest to the Indian Village are the Lakeview Lodge (phone: 947-2181) and AA Motel (phone: 947-2201).

Air West flights into Klamath Falls are:


	<u>Leave</u>	<u>Arrive</u>	<u>Flight</u>
From: Portland	5:25p.m.	6:36p.m.	933
From: San Francisco	9:50a.m.	11:40a.m.	930
	8:45p.m.	10:12p.m.	2

If we have enough requests, we could have a mini-bus meet any of the above flights for transportation to Lakeview. Rent-a-cars are available at the Klamath Airport.

Specific details and information concerning the planning session will be made available to you first thing Tuesday morning. Please feel free to contact myself, or District Manager, Marv LeNoue, if any questions arise before then; respectively our phone numbers are 947-2854 and 947-2981.

We are looking forward to a hopefully productive new approach.

Sincerely,

  
A. K. Majorowicz (Majors)  
Area Manager  
Warner Lakes Resource Area  
Lakeview District

Please note:

Your reservation has been confirmed at the Lakeview Lodge for August 26 - 29. The additional requested information and charts will follow shortly.

*United States Senate*

WASHINGTON, D.C. 20510

August 15, 1974

Mr. Robert Crowder  
Crowder-Weisser Cattle Company  
902 West Monte Vista Road  
Phoenix, Arizona 85007

Dear Bob:

This is just to give you a final report on the Interior Department's land transfer proposals for Kofa and Cabeza Prieta game ranges.

While I am not satisfied with this outcome, the proposed mineral surveys are certainly warranted.

Thanks for letting me know of your interest. The use of our public lands is of vital concern to me, and I will continue to support multiple use wherever possible.

With kindest regards.

Sincerely,



Paul Fannin  
United States Senator

PF/mlf  
Enclosure





# United States Department of the Interior

IN REPLY REFER TO

4115.13

BUREAU OF LAND MANAGEMENT  
P. O. Box 151  
Lakeview, Oregon 97630

August 16, 1974

Mr. August Hormay  
P. O. Box 245  
Berkley, CA. 94701

Dear Gus,

Enclosed are the text and tables concerning the resources at Juniper Mountain. Also, is a listing of the slides taken --- of the maps and tables. The film was sent off yesterday - checked with the developing company and they said, they would be back by the 26th for sure.

The banquet room at the Indian Village should do quite well. It has good tables and chairs, air conditioned and will seat 50 easy. It is quite long but wide enough not to cramp things.

Am trying to line up mini-buses for the tour day. Approximately 45-47 people have committed themselves to attending.

Marv LeNoue, District Manager, and myself would like to meet with you Monday evening when you arrive. In the mean time give us a call if anything else is needed.

Sincerely,

A. K. Majorowicz  
Area Manager

BIG JUNIPER MOUNTAIN ALLOTMENT

SLIDES TAKEN

Map slides were taken of: (All slides will not be taken until Aug. 26th)

<u>NAME</u>	<u>CONTENT</u>
1. LAND CONDITION	a) Heavy erosion - blue b) Light erosion - green c) Aroga Moth Insect Damage d) Fires w/Year-Month Burned e) Post Cutting Area's
2. WATER RESOURCES	Presently: a) Good b) Good thru c) Good thru Potential: a) Good possibility b) Fair-poor possibility or u
3. BIG GAME	a) Deer Summer Deer Winter b) Antelope Summer Deer Winter
4. BASE MAP-IMPROVEMENTS	a) Roads (Improved & trails) b) Fences (including SE boundary) c) Cattleguards d) Res.'s & W.H.'s e) Springs f) Drainages & lakebeds g) Status State = blue Pvt = red NRL = yellow
5. GEOLOGY	a) A bunch of stuff
6. VEGETATION	a) Big sage b) Low sage c) Desert shrub d) Juniper
7. STATE LOCATION	a) Lakeview District in state b) Resource area c) Juniper Mountain allotment
8. DISTRICT LOCATION	a) Area with district b) Allotment in area
9. RECREATION	a) Present b) Potential

PLUS, have following overlays for base MAP:

1. Range Survey - Grazing capacities/section
2. 1974's water supply on July 2nd  
on August 16th
3. Showing approx. equal division into 3 pastures and 4 pastures.

Other Slides (not maps)

10. PLANT COMPOSITION by vege types
11. CLIMATE Closest two weather stations:
  - a) Mean Precip by Month
  - b) Ave. Temp. by Month
12. WILDLIFE NUMBERS & TREND 
  - a) Approx. numbers before livestock
  - b) Approx. present numbers
  - c) Approx. trend
13. PAST GRAZING USE 
  - a) Grouped by years
  - b) Numbers - class - Aum's

OTHER TEXT & TABLES .

1. LAND USE HISTORY 
  - a) Indians
  - b) Trappers
  - c) Settlers
2. LAKE COUNTY LIVESTOCK NUMBERS a) Past History (made slide of this also)
3. RECREATION TEXT
4. GEOLOGY TEXT
5. MINING TEXT
6. PLANT LIST FOR ALLOTMENT w/Phenology
7. ANIMAL LIST FOR ALLOTMENT w/Major Food
8. LIST of Outside District people to attend session

VEGETATIVE COMPOSITION

PERCENT BY TYPE AND KIND OF PLANT

	<u>Low Sage</u>	<u>Big Sage</u>	<u>Juniper</u>	<u>Desert Shrub</u>
Trees	--	--	42	--
Shrubs	70	60	22	74
Annual Grasses	4	12	2	16
Perennial Grasses	18	20	22	6
Annual Forbs	6	6	6	2
Perennial Forbs	<u>2</u>	<u>2</u>	<u>6</u>	<u>2</u>
Total Percent	100	100	100	100

# JUNIPER MOUNTAIN ALLOTMENT - CLIMATE DATA

Elevation of Allotment Varies From 4580' to 6630'

## Plush, Oregon - Elevation 4450'

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>	<u>Annual</u>
Mean Precipitation (Inches)	.59	.57	.69	.47	1.24	1.6	.31	.24	.43	.72	.64	.66	7.72
Average Temperature (F°)	30.1	34.4	38.5	46.8	53.3	59.4	68.5	66.2	59.0	48.7	38.1	32.3	47.9

Growing Season - March thru July

Percent of Annual Precip. During Growing Season March - July = 55.8%  
Percent of Annual Precip. Occurring As Snow Nov. - Feb. = 32.6%

## Alkali Lake - Elevation 4332'

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>	<u>Annual</u>
Mean Precipitation (inches)	1.04	.50	.60	.97	1.06	1.44	.24	.50	.42	.76	.86	.95	9.34
Average Temperature (F°)	31.0	36.4	37.8	43.3	53.0	55.9	68.0	61.7	57.1	47.9	38.7	31.7	56.2

Percent of Annual Precip. During Growing Season March - July = 42.6%  
Percent of Annual Precip. Occurring as Snow Nov. - Feb. = 35.8%

"APPROX." WILDLIFE NUMBERS AND TREND

	<u>Before</u> <u>Domestic Grazing</u>	<u>Presently</u>	<u>Present</u> <u>Trend</u>
<u>Game Animals:</u>			
Deer	Very Few - 25	75	Slightly up
Antelope	50	100	Slightly up
Desert Bighorn	Some	None	Down
<u>Predators:</u>			
Coyote	25	50	Up
Bobcat	10	10	Down
Cougar	Some	None	Down
Wolf	Some	None	Down
<u>Fur Bearers:</u>			
Weasel	Some	Some	Varied
Skunk	Some	Some	Static
Badger	25	50	Varied
Rabbit	Many	Many	Varied
Kit Fox	Some	None	Down
Raccoon	None	Some	Up
<u>Fish:</u>			
Trout	None	4000 Planned	Up

JUNIPER MOUNTAIN ALLOTMENT

PAST GRAZING USE:

<u>YEAR(s)</u>	<u>CLASS</u>	<u>NUMBER</u>	<u>SEASON</u>	<u>AUMS</u>
1870-1935	<del>Mostly</del> Sheep Cattle and	Unknown	Early spring-winter	?
1936-1947	Sheep (Lynch) Cattle (C&J)	2500-3700 650	April-Mid June & Fall April-July	2000-3000 2000
1948-1961	Cattle (Lynch) Cattle (C&J)	700 650	April-July April-July	2800 2000
1962-1965	Cattle (Lynch)	1600	April-July	4870
1966-1967	Cattle (Lynch)	1200	April-July 15th	3640
1968	COMPLETE REST - NON-USE - DRY			
1969	Cattle (Lynch)	1200	April-Aug. 1st	4700
1970	Cattle (Lynch)	1200	April-July 1st	3620
1971	Cattle (Lynch)	1360	April-July 26th	4422
1972-1973	Cattle (Lynch)	1120	March-July	3620
1974	Cattle (Lynch)	1200	March 17th-July 9th	5000

TOTAL FOR 39 YEARS = 172,942

39 YEAR AVERAGE = 4,434

1948-1974

34,900

27 years

118,942

Ave 1790

Ave 4405

## JUNIPER MOUNTAIN ALLOTMENT

### Land Use History

Indians -- The valleys and lakeshores on both sides of the Juniper Mountain area were originally occupied by bands of the Northern Paiute. Until contact with the white man, these people lived by hunting and gathering. Their winter homes were located in the lower valleys such as Summer Lake and Warner Lake Valleys. The rest of the year the bands roamed the valleys, foothills and mountains in search of food. The largest bands were probably made up of 30 individuals at the most.

Trappers and Explorers -- In the early 1800's trappers may have come into this area, however, the first substantiated visit by white man, was Captain Fremont's party in 1843. Fremont explored the Abert Lake and Warner Valley area with the assistance of the famous scout, Kit Carson. Six years later, an exploring party under Captain Warner entered the Goose Lake and Warner Lake valleys where he and two of his men were killed by Indians. It was not until the early 1860's that Camp Warner was established on Hart Mountain, and probably until then no other white men visited the area. It was about this time also that gold miners from California probably traversed the area to new discoveries in Eastern Oregon and Idaho.

Settlers -- After Fort Warner was relocated at its intended site in 1867, and after the subjugation of the Indians, settlers began to arrive in the Goose Lake Valley in 1869 and Warner Valley in 1870. This was also the first introduction of sheep and cattle to the area.

HISTORY OF PRESENT USER -- Grandfather Philip Lynch came to Oregon in the spring of 1887, and acquired sheep shortly thereafter. He grazed sheep in the area until his death in 1912. Brother Tom ran outfit until 1916 when Con Lynch took over. Con ran Lynch Ranch until mid 60's. Son's Jim & Phil<sup>Hill</sup> 8/5/74 got involved in 1962 with purchase of Clark and Johnson privileges. Phil is active owner-manager at present time, with brother Jim and father Con.



# LAKE COUNTY LIVESTOCK NUMBERS

\*1864 - Drought in California

1869 - First cattle brought to Lake County

1870 - First sheep brought to Lake County

#1880 - Oregon sheep Nos - 1,368,162  
S.E. Oregon counties having 130,743  
Eastern Oregon - 855,730

1890 - Eastern Oregon Sheep - 1,431,577

1899 - 35,000 cattle sold  
75,000 sheep sold  
1,500,000 lbs. wool sold  
1,500 - 2,000 horses sold  
2,500 goats sold

1904 - 5,011 horses - tax assessed  
23,716 cattle - tax assessed  
\*139,887 sheep - tax assessed

\*During 1904 "Range War" documents noted 3000HD in flock, 2,700HD in band.

1920 - 33,000 cattle on range

1936 - 48,515-cattle, 149,017-sheep

NOTE: Also in 1864, gold was discovered in Idaho, on the Owyhee River. An imigrant route passed through Goose Lake Valley and around North end of Warner Mtns.

\*This drought sponsored cattle drives north into Oregon. One of the routes: Red Bluff - Goose Lake Valley - Boise Basin.

#Ayres and Poor Ranch in Coleman Valley lost 5,000 head of cattle during the severe winter of 1879-1880.

## JUNIPER MOUNTAIN ALLOTMENT RECREATION

There are no developed recreation sites in the Juniper Mountain Allotment. Sherlock Gulch and Juniper Spring have been inventoried as possible recreation sites. Probably the greatest potential that these sites have is hunter camps.

The major type of recreation occurring within the area is hunting. Deer hunting is best near Juniper Mountain. Other recreation activities that may occur on the area are rockhounding and sight-seeing.

There are no cultural, geological, ecological or scenic values that make this area unique, however, the lack of development and the associated "open space" values may be pleasing to some segments of the public.

Archaeological values, such as petroglyphs, are located at the southern portion of the area. Scattered artifacts may be found throughout the allotment, but it is doubtful whether a site of any significance exists within the allotment.

Hill  
8/10/74



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT

STATE OFFICE  
316 NORTH 26TH STREET  
BILLINGS, MONTANA 59101

IN REPLY REFER TO

930:4112.15

AUG 23 1974

The final planning session for development of a Multiple Use Land Management plan for the Matador allotment near Dillon, Montana, is scheduled for September 24-27, 1974. As with the first meeting, the program will be conducted by Gus Hormay, who is well known and highly recognized for his contributions toward promoting proper management and use of natural rangelands.

The program agenda is as follows:

Tuesday, September 24 (8 a.m. - 5 p.m.)	National Guard Armory - Located on North edge of Dillon along Twin Bridges Highway 41. <u>Purpose:</u> Theory of rest-rotation multiple use land management and description of Matador Allotment.
Wednesday, September 25 (8 a.m. - 5 p.m.)	Field tour of Matador Allotment. <u>Purpose:</u> Size up conditions and problems.
Thursday, September 26 and possibly	Meeting place to be announced.
Friday, September 27 (8 a.m. - 5 p.m.)	<u>Purpose:</u> Group will prepare a management plan for the area.

It would be very much appreciated if you or members on your staff would continue to participate in this program and provide information and ideas as to how the area should be managed. If you or key staff members were unable to attend the first meeting we certainly encourage you to attend this one, especially Gus's presentation on Tuesday, September 24.

Please let us know by September 5, 1974, if you plan to attend.  
If you have any questions, feel free to contact Dick Cosgriffe  
on my staff (telephone 245-6711 ext. 6474).

Sincerely,

*Harold C Lynd*  
Harold C. Lynd  
Acting State Director

# JUNIPER MOUNTAIN MANAGEMENT SESSION

## Attendance List

August 27, 1974

<u>Name</u>	<u>Affiliation</u>	<u>Going on Tour</u>
Don Wilbur	BLM, Susanville	Yes
<u>Don W. May</u>	Environmental Protection Agency	Yes
Reginald Boss	BLM, Portland	Yes
<u>Larry Marshall</u>	Western Livestock Journal	Yes
Ron Halvorson	BLM, Prineville	Yes
Bill Bright	BLM, Burns	Yes
Chad Bacon	BLM, Burns	Yes
Frank Grogan	Oregon Wildlife Commission	Yes
Vic Masson	Oregon Wildlife Commission	Yes
Don Leckenby	Oregon Wildlife Commission	Yes
Bert Hart	BLM, Redding	Yes
<u>Char Corkran</u>	Wilderness Soc., & Or. Environ.	Yes
Zan Pike	BLM, Lakeview	Yes
Edwin Havel	BLM, Lakeview	Yes
Marvin Hammersmark	BLM, Lakeview	Yes
Larry Doughty	BLM, Lakeview	Yes
<u>Dillard H. Gates</u>	Oregon State University	Yes
Marvin Schlagel	BLM, Lakeview	Yes
Gerald Fullerton	BLM, Lakeview	Yes
<u>Louis Ackerman</u>	BLM, Lakeview	Yes
<u>Charles E. Chester</u>	for Sam Johnson Redmond, Oregon	Yes

<u>Samuel F. Greenfield</u>	Soil Conservation Ser., Bend	Yes
<u>Charles V. Liles</u>	State Soil & Water Conservation	Yes
<u>Con J. Flynn</u>	BLM Advisory Board Member	No
<u>Orval Layton</u>	Post Office	Yes
<u>Theodore R. Conn</u>	BLM Advisory Board Member	Yes
Sid Houpt	BLM, Lakeview	Yes
Bill Urwyler	BLM, Lakeview	Yes
<u>Barry Taylor</u>	Rancher, Plush	Yes
Bud Reynolds	BLM, Lakeview	Yes
<u>Dick Lennie</u>	U. S. National Bank	Yes
<u>R. F. Chase</u>	Oregon State Employment Div., Lakeview	Yes
<u>Dick Swartzlender</u>	Fremont National Forest	Yes
<u>Bill Strawn</u> <u>Don Hotchkiss</u>	First National Bank	Yes
<u>Don Fitzgerald</u>	Lake Co. Stock Growers	Yes
Don Karr	Oregon State University & O.T.I.	No
<u>Phil C. Lynch</u>	BLM Advisory Board Member	Yes
<u>Arleigh G. Isley</u>	County Extension Agent, Lakeview	Yes
A. K. Majorowics	BLM, Lakeview	Yes
Dick Culbertson	Forest Service	Yes
<u>Duane Crane</u>	Soil Conservation Ser., Lakeview	Yes
Marvin LeNoue	BLM, Lakeview	No
<u>Bob Leland</u>	KQIK Radio, Lakeview	Yes
George McGee	Oregon Cattlemens Assoc.	No
Martin Howard	Oregon Cattlemens Assoc.	Yes
<u>Vic Ecklund</u>	Bureau of Outdoor Recreation	Yes

*Bob Pardee*  
*OSPRIG*

*A SCS*  
*Oregon Student Public Research*  
*Interest Group*

Statistics on Multiple-Use Management Demonstration Area  
Bureau of Land Management  
Department of the Interior

August 27, 1974

Name of Area: Juniper Mountain

Location: Oregon - Lakeview District, BLM;  
40 to 60 miles north of Lakeview,  
NW of Plush and SE of Alkali

Elevation: 4,580' to 6,630'

<u>Land Ownership:</u>	Acres	%
Federal (NRL)	89,240	99.2
State	320	0.3
Private	440	0.5
Total	<u>90,000</u>	<u>100.0</u>

<u>Vegetation Types:</u>	Acres	%
Low Sagebrush	40,000	44.4
Big Sagebrush	45,000	50.0
Desert Shrub	2,500	0.3
Juniper	<u>2,500</u>	<u>0.3</u>
Total	<u>90,000</u>	<u>100.0</u>

Climate:

	J	F	M	A	M	J	J	A	S	O	N	D	Annual
Precip. Ave. (inches)	.59	.57	.69	.47	1.24	1.6	.31	.24	.43	.72	.64	.66	7.72

33% of precipitation in form of snow, Nov. to Feb.

Growing season March - July

Temperature Ave. March 39°F - July 69°F

Geology

Faulted Tertiary Age lava flows and sedimentary rocks with Quaternary cinder cones and sediments.

Natural Water Resources

A few springs and seeps. No lakes or live streams.

### Land-use History

Indians. Prior to white man, area was occupied by Northern Paiutes. Small bands roamed land in search of food.

Trappers, explorers and miners. Trappers may have visited area in early 1800's.

Captain Fremont's party and Kit Carson explored Abert Lake and Warner Valley areas in 1843.

Captain Warner entered Goose Lake and Warner Lake Valleys in 1849.

Gold miners probably traveled area to eastern Oregon and Idaho in the early 1860's.

### Grazing-use on Allotment

#### Livestock:

1870 to 1935. Mainly early spring and winter-use. Number of livestock not known but Lake County sales, tax and other records indicate large numbers of sheep and cattle and probably horses.

1936 to 1947. Cattle and sheep-use. About 4500 AUMs yearly.

1948 to 1974 Cattle-use only. Average yearly - 1290 head, for about 3.4 months, March to July. About 4,405 AUMs use yearly. Stocking rate about 20 acres per AUM.

#### Big Game:

	Approximate Numbers	
	Before Livestock Grazing	At Present
Deer	Very few 25?	75
Antelope	50	100
Desert Bighorn	Some	None

### Recreation

Hunting (light). Deer, antelope, sage hen.  
Sightseeing, rockhounding probably.

### Mining

None. No known mineralization. Geothermal steam, oil and gas prospects exist.



JUNIPER MOUNTAIN PLANT LIST - PHENOLOGY

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SYMBOL</u>	<u>Starts Growth</u>	<u>Flowers</u>	<u>Seed Ripe</u>	<u>Regrowth if Grazed to:</u>	<u>Reproduced by Rhizomes</u>
Agropyron cristatum	Crested wheatgrass	Ager	3/1	6/10	7/15	5/15	
Agropyron spicatum	Bluebunch wheatgrass	Agsp	3/15	6/10	7/20✓	4/15	
A-Bromus brizaeformis	Rattlesnake chess	Brbr	3/10		6/20		
A-Bromus japonicus	Japanese chess	Brja	3/10		6/20		
A-Bromus tectorum	Cheatgrass	Brte	3/15	5/15	6/10		
Carex spp.	Sedge	Carex		5/15	6/25		yes
Danthonia unispicata	One spike oatgrass	Daun			7/15✓		
Elymus cinereus	Giant wildrye	Elci	3/25	6/20	8/1	5/15	sometimes
Elymus triticoides	Creeping wildrye	Eltr	3/20	6/15	7/20	5/15	yes
Festuca idahoensis	Idaho fescue	Feid	3/10	6/10	7/15✓	5/1	
A-Festuca octoflora	Six-weeks fescue	Feoc	3/10	5/25	6/15		
Hordeum jubatum	Foxtail barley	Hoju	3/20	6/15	7/5	5/1	
Juncus spp.	Rush	JUNCU					yes
Koeleria cristata	Junegrass	Kocr	3/1	5/15	7/10		
Melica bulbosa	Oniongrass	Mebu			7/15		
Oryzopsis hymenoides	Indian ricegrass	Orhy	3/25		7/15✓	4/15	
Oryzopsis webberi	Webbers ricegrass	Orwe			7/1		
Poa cusickii	Cusick bluegrass	Pocu	3/15	5/20	7/5	4/10	
Poa nevadensis	Nevada bluegrass	Pone-1	3/15	5/25	7/10✓	5/1	
Poa pratensis	Kentucky bluegrass	Popr	3/15	5/25	7/15	5/1	
Poa secunda	Sandbergs bluegrass	Pose	3/1	5/5	7/1✓	4/10	
Sitanion hystrix	squirreltail	Sihy	3/1	6/5	7/15	5/10	
Stipa comata	Needle-and-thread	Stco	3/15	6/15	7/15	5/1	
Stipa spp. (thruberiana)	Needlegrass	Stipa	3/5	6/10	7/15	5/1	
Achillea millefolium	Common yarrow	Acla				8/1	
Thlaspi spp.	Mountain dandelion	Agose		5/10		6/10	
Allium spp.	Wild onion	Alliu					

*July*  
*7/1-7/15*

SCIENTIFIC NAME	COMMON NAME	SYMBOL	Starts Growth	Flowers	Seed Ripe	Regrowth if Grazed to:	Reproduced by Rhizomes
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FORBS (Cont.)

Amsinchia tessellata	Annuals - dry	Amte					
Antennaria spp.	Fiddleneck	Anten		5/10	6/10		
Aster spp.	Pussytoes	ASTER					
Astragalus spp.	Aster	ASTRA		5/10	6/10		
Balsamorhiza hookeri	Milkvetch - Locoe	Baho		5/20	6/20		
A-Castilleja spp.	Balsamroot	Caan		5/20			
Chaenactis douglasii	Indian paintbrush	Chdo					
Circium spp.	False yarrow	Cirsi					
Crepis spp.	Thistle	Crac	4/1		6/10		
Delphinium spp.	Hawksbeard	Delph	3/10	5/10	6/10		
Erigeron spp.	Larkspur	Erige		5/20			
Eriogonum spp.	Fleabane (Wild Daisy)	Eriog					
A-Erodium cicutarium	Buckwheat	Erci-1		5/10			
Iris missouriensis	Filaree-Storksbill	Trmi					
Iva axillaris	Wild iris	Ivax					
Lactuca spp.	Poverty weed	LACTU					
A-Lepidium spp.	China lettuce	Lepid					
Lomatium spp.	Peppergrass	Lodi		5/1	6/15		
Lupinus spp.	Biscuitroot-carrot-top	LUPIN		5/1	7/10		
Lygodesmia spp.	Lupine	Lygod					
Melilotus spp.	Skeletonplant	Meli					
Mimulus guttatus	Sweet clover	Migu					
Oenothera spp.	Monkey flower	OEN					
Penstemon spp.	Evening primrose	Penst					
Phlox spp.	Penstemon	PHLOX		5/15	6/15		
Polygonum douglasii	Phlox	Podo					
Ranunculus spp.	Knotweed	Racy		4/15	5/15		
Salsola kali tenuifolia	Buttercup	Saka					
Senecio spp.	Russian thistle	Senec					
A-Sisymbrium altissimum	Groundsel	Sial					
Paraxacum officinale	Tumblemustard	Taac					
Trifolium spp.	Dandelion	Trifo	4/15	6/1			
	Clover						

SCIENTIFIC NAME	COMMON NAME	SYMBOL	Starts Growth	Flowers	Seed Ripe	Regrowth if Grazed to:	Reproduced by Rhizomes
-----------------	-------------	--------	---------------	---------	-----------	------------------------	------------------------

# FORBS (Cont.)

Veratrum spp.	False hellebore	Veca					
Vicia spp.	Vetch	VICIA					
Zygadenus spp.	Deathcamas	ZIGAD					
Mertensia spp.	Bluebell	Meci		5/1	6/1		
Linium spp.	Flax	Lile			7/1		
Lewisia spp.	Bitterroot	Lere					
Leucocrinium spp.	Lily						

# SHRUBS

Amelanchier alnifolia	Serviceberry	Amela		5/20	8/15?		
Artemesia arbuscula	Low sage	Arar-1	4/1		9/15?		
Artemesia cana	Silver sagebrush	Arca-1					
Artemesia spinescens	Bud sage	Arsp	3/15	5/20	6/20		
Artemesia tridentata	Big sage	Artr-1	4/1		10/1?		
Atriplex confertifolia	Shadscale	Atco-1			6/20		
Chrysothamnus vicidiflorus	Rabbitbrush (green)	Chui-1	4/15	8/1	10/15		
Eriogonum spp.	Shrubby buckwheat	Eriog		6/20	7/25✓		
Eurotia lanata	Winter fat	Eula					
Grayia spinosa	Hopsage	Grsp	3/20		6/20✓		
Holodiscus dumosa	Bush rock spirea	Hodu					
Juniperus spp.	Juniper	Juoc					
Purshia tridentata	Bitterbrush	Putr	4/15	6/1	7/20✓		
Ribes spp.	Gooseberry	Ribes		5/15	7/20		
Rosa spp.	Wildrose	Rosa		7/1	8/15		
Sarcobatus vermiculatus	Greasewood	Save	4/1				
Symphoricarpos spp.	Snowberry	SYMPH	5/1	7/1	8/15		
Tetradymia spp.	Horsebrush	TETR		6/20			
Cercocarpus spp.	Mtn. Mahogany	CEANO			7/15?		
Sambucus spp.	Elderberry	SAMBU			8/15?		
Prunus virginiana	Chokeberry	PRUNUS			8/15?		

A = Annuals

# JUNIPER MOUNTAIN ALLOTMENT ANIMAL LIST

## Common Name

## Scientific Name

## Major Food

### A. MAMMALS:

#### 1. Game Mammals

Pronghorn antelope

Mule deer

Mountain lion

#### 2. Other Mammals

Bobcat

Coyote

Spotted skunk

Badger

Pigmy rabbit

Mountain cottontail

White tailed jackrabbit

Black tailed jackrabbit

Merriam's shrew

Broad handed mole

Townsend's ground squirrel

Oregon ground squirrel

Golden mantel ground squirrel

Porcupine

Yellow-bellied marmot

Least chipmunk

Northern pocket gopher

Great Basin pocket mouse

Ord's kangaroo rat

Great Basin kangaroo rat

Western harvest mouse

Northern grasshopper mouse

Bushy tailed woodrat

Canyon mouse

Deer mouse

Sagebrush vole

Western jumping mouse

Antilocapra americana  
Odocoileus hemionus hemionus  
Felis concolor

Forbs-ERIO.-Arar  
Forbs-Putr-Artr-Symp.-green grass  
Small mammals-mule deer

Lynx rufus  
Canis latrans  
Spilogale putorius  
Taxidea taxus  
Sylvilagus idahoensis  
Sylvilagus nuttalli  
Lepus townsendii  
Lepus californicus  
Sorex merriami  
Scapanus latimanus

Rabbits, rodents, some larger mammals  
Rabbits, rodents, some larger mammals  
Insects, rodents, small birds  
Ground squirrels, small rodents  
Sagebrush, forbs  
Sagebrush, grasses, juniper  
Grass, sagebrush, etc.  
Herbs, shrubs  
Insects, other arthropods  
Earthworms, plant roots, seeds, small  
invertebrates

Spermophilus townsendii  
Spermophilus beltingi  
Spermophilus lateralis  
Erethizon dorsatum  
Marmota flaviventris  
Eutamias minimus  
Thomomys talpoides  
Perognathus parvus  
Dipodomys ordii  
Dipodomys microps  
Reith rodentomys megalotis  
Onychomys leucogaster  
Neotoma cinerea  
Peromyscus crinitus  
Peromyscus maniculatus  
Lagurus curtalis  
Zapus princeps

Green vegetation, seeds  
Green vegetation, seeds  
Seeds, fruits, insects  
Forbs, shrubs, bark  
Grasses, clovers, vetchs  
Plant seeds, fruits, etc.  
Plant roots, tubers  
Seeds  
Seeds  
Seeds  
Seeds  
Insects, other arthropods  
Plant material-green  
Seeds, fruit, insects  
Seeds, fruit  
Green vegetation  
Grass, seeds

Lump nose bat  
 Pallid bat  
 Hoary bat  
 Big brown bat  
 Fringed myotis  
 Long eared myotis  
 Hairy-winged myotis  
 Small-footed myotis  
 Yuma myotis

Plecotus townsendi  
Antrozous pallidus  
Lasiurus cinereus  
Eptesicus fuscus  
Myotis thysanodes  
Myotis evotis  
Myotis volans  
Myotis subulatus  
Myotis yumanensis

Insects  
 Insects  
 Insects  
 Insects  
 Insects  
 Insects  
 Insects  
 Insects  
 Insects

## B. BIRDS

### 1. Game Birds

Sagegrouse  
 Chukar partridge  
 Valley quail  
 Mourning dove

Centrocercus urophasianus  
Alectoris graeca  
Lophortyx californicus  
Zenaidura macroura

Forbs, sagebrush  
 Cheatgrass  
 Seeds  
 Seeds

### 2. Song birds

Red-shafted flicker  
 Yellow-bellied sapsucker  
 Ash-throated flycatcher  
 Horned lark  
 Barn swallow  
 Cliff swallow  
 Pinon jay  
 Mountain chickadee  
 Say's phoebe  
 Olive sided fly catcher  
 House wren  
 Canyon wren  
 Black wren  
 Robin  
 Mountain blue bird  
 Logger head shrike  
 Black-throated gray warbler  
 Western meadowlark  
 Bullock's oriole

Colaptes cafer  
Sphyrapicus varius  
Myiarchus cinerascens  
Eremophila alpestris  
Hirundo rustica  
Petrochelidon pyrrhonota  
Gymnorhinus cyanocephalus  
Parus gambeli  
Sayornis saya  
Catalparrhinus borealis  
Troglodytes aedon  
Catherpes mexicanus  
Scolecophagus obsoletus  
Turdus migratorius  
Sialia currucoides  
Lanius ludovicianus  
Dendroica nigrescens  
Turdella neglecta  
Icterus bullockii

Insects, and other arthropods  
 "  
 "  
 Insects, seeds  
 Insects, seeds  
 Insects, seeds  
 Seeds, fruit, insects  
 Seeds, fruit, insects  
 Flying insects  
 Flying insects  
 Insects, spiders  
 Insects, spiders  
 Insects, spiders  
 Insects, berries, fruit, worms  
 Insects, berries, fruit, worms  
 Insects, lizards, mice, small birds  
 Insects  
 Insects, fruits, seeds, small aquatic  
 Insects, fruits, seeds, small aquatic  
 life

- Brewers blackbird  
Brown-headed cowbird  
Starling  
House finch  
Rufous-sided towhee  
Savannah sparrow  
Vesper sparrow  
Lark sparrow  
Oregon junco  
Sage sparrow  
Brewer's sparrow  
White crowned sparrow  
Sage thrasher
3. Prey Birds  
Golden eagle  
Red-tailed hawk  
Swainsons hawk  
Rough-legged hawk  
Ferruginous hawk  
Marsh hawk  
Prairie falcon  
Sparrow hawk  
Turkey vulture  
Black-billed magpie  
Raven  
Crow  
Great horned owl  
Pigmy owl  
Burrowing owl  
Long-eared owl  
Short-eared owl  
Screech owl  
Common nighthawk  
Water & Shore Birds  
Canada goose  
Mallard  
Gadwall  
Pintail
4. Water & Shore Birds

Euphagus cyanocephalus  
Molothrus ater  
Sturnus vulgaris  
Carpodacus mexicanus  
Pipilo erythrophthalmus  
Passerculus sandwichensis  
Poocetes gramineus  
Chondestes grammacus  
Junco oreganus  
Amphispiza billi  
Spizella breweri  
Zonotrichia leucophrys  
Oreoscoptes montanus

Insect, fruit, seeds, small aquatic  
Insect, fruit, seeds, small aquatic  
Insects, berries, seeds  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits  
Seeds, insects, small fruits

Aquila chrysaetos  
Buteo jamaicensis  
Buteo swainsoni  
Buteo lagopus  
Buteo regalis  
Circus cyaneus  
Falco mexicanus  
Falco sparverius  
Cathartes aura  
Pica pica  
Corvus corax  
Corvus brachyrhynchos  
Bubo virginianus  
Glaucidium gnoma  
Speotyto cunicularia  
Asio otus  
Asio flammeus  
Syrnium carolinensis  
Chordeiles minor

Rabbits, large rodents, rats, mice  
Rabbits, large rodents, rats, mice  
Rabbits, large rodents, rats, mice  
Rabbits, large rodents, rats, mice  
Rabbits, large rodents, rats, mice  
Rabbits, large rodents, rats, mice  
Rodents, small birds  
Birds, rodents, insects  
Birds, rodents, insects  
Carrion  
Carrion, seeds, fruit  
Carrion, seeds, fruit  
Carrion, seeds, fruit  
Rodents, birds, reptiles  
Rodents, birds, reptiles  
Rodents, birds, reptiles  
Rodents, birds, reptiles  
Rodents, birds, reptiles  
Nocturnal insects  
Nocturnal insects

Aquatic plants, seeds, grass  
Aquatic plants, seeds, grass  
Aquatic plants, seeds, grass  
Aquatic plants, seeds, grass

Green-winged teal

Cinnamon teal

Great blue heron

Common Egret

American Coot

Wilson's phalarope

Killdeer

Common snipe

Spotted sandpiper

Willet

Long-billed dowitcher

Avocet

California gull

Western sandpiper

Anas crecca canolinensis

Anas cyanoptera

Ardea herodias

Casmerodius albus

Fulica Americana

Steganopus tricolor

Charadrius vociferus

Capella gallinago

Actitis macularia

Catoptrophorus semipalmatus

Limnodromus scolopaceus

Recurvirostea americana

Larus californicus

Ereunetes mauri

Acquatic plants, seeds, grass

Acquatic plants, seeds, grass

Acquatic life insect, some plant mat.

Acquatic life, insects, mice

Acquatic plants, insects, seeds

Insects, other invertebrates

Insects, small acquatic, vegetable-

matter

Insects, crustaceans worms

Insects, crustaceans worms

Insects, crustaceans worms

Insects, crustaceans worms

Insects, crustaceans

Insect, carrion, refuse

Insects, crustaceans, small acquatic-

life

#### C. AMPHIBIANS

Great Basin spadefoot toad

Pacific tree frog

Western toad

Spotted frog

Scaphiopus intermountanus

Hyla regilla

Bufo boreas

Rana pretiosa

Insects

Insects

Insects

Insects

#### D. REPTILES

##### 1. Lizards

Collard lizard

Leopard lizard

Sagebrush lizard

Western fence lizard

Side-blotched lizard

Short-horned lizard

Great Basin skink

Great Basin whiptail

Insects, spiders, smaller reptiles

Insects, spiders, ants

Insects, spiders, ants

Insects, spiders, ants

Insects, spiders, ants

Insects, spiders, ants

Insects, spiders, ants

Insects, spiders, ants

##### 2. Snakes

Desert striped whipsnake

Great Basin gopher snake

Common garter snake

Western terrestrial garter snake

Great Basin rattlesnake

Xantrophis taeniatus

Pituophis melanoleucus deserticola

Thamnophis sirtalis fitchi

Thamnophis elegans vagrans

Crotalus viridis lutosus

Lizards, small rodents

Lizards, frogs, birds, small rodents

Lizards, frogs, birds, small rodents

Lizards, frogs, birds, small rodents

Rodents, rabbits, birds, frogs

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