

United States Department of the Interior

BUREAU OF LAND MANAGEMENT ELKO DISTRICT OFFICE 3900 E. IDAHO STREET P.O. BOX 831 ELKO, NEVADA 89801



IN REPLY REFER TO: 4120 (NV-015)

6/4/93

JUN 4 1993

Dear Affected Interest:

In 1991 you indicated that you would like to be involved in the allotment evaluation process on the Spruce Allotment. A draft of the allotment evaluation is scheduled for completion in fiscal year 1994.

Prior to you receiving the allotment evaluation, I think that it is important to provide you with an update on what has been happening on the allotment.

In 1987, a draft allotment management plan (AMP) was completed for the Spruce Allotment. However, the draft AMP was never signed as a result of unresolved conflicts with the permittees.

In 1991, after several meetings with one of the permittees, it was decided that he would hire Resource Concepts, Inc. (RCI) to complete an interim AMP. There were two main purposes of the interim AMP. First, the Spruce Allotment would be formally divided into two separate allotments (Spruce and Valley Mountain). The interim AMP would only outline management on the Spruce Allotment and not the Valley Mountain Allotment. Second, the interim AMP would outline management while the allotment evaluation is being completed.

RCI used the format of the 1987 draft Spruce AMP as a guideline for completing the Spruce Interim AMP. The interim AMP was signed on April 13, 1993. A copy is enclosed for your information.

Therefore, upon completion of the draft allotment evaluations for the Spruce and Valley Mountain Allotments, a copy will be forwarded to you for review and comment.

If you have any questions, please contact me at 753-0200.

Sincerely yours,

Sale



BILL BAKER, Manager Wells Resource Area

Enclosure

CC: \

top resion

Bert Paris and Sons American Horse Protection Humane Society - US Nevada Wildlife Federation Animal Protection Institute National Resources Defense Council U.S. Fish and Wildlife Service Commission for the Preservation of Wild Horses Jim Mulcahy Nature Conservancy Rose Strickland Kathryn Cushman Federal Land Bank U.S. Wild Horse Foundation HTT Resource Advisors NV Department of Agriculture



38 miles & fencins Jo million dollars to Permittee 16 million subsidy

INTERIM ALLOTMENT MANAGEMENT PLAN FOR SPRUCE ALLOTMENT WELLS RESOURCE AREA NEVADA

March 9, 1993

TABLE OF CONTENTS

P	A	G	E
		-	~

I.	IN	TRODUCTIÓN 1
	A.	GENERAL INFORMATION 1
		1. Land Use Planning 1
		2. Location
		3. Acreage by Ownership 1
		4. Elevational and Topographical Variations 1
		5. Climatic Factors 1
		6. Historical Grazing Use 2
	В.	EXISTING INFORMATION 5
		1. Livestock Qualifications and Management 5
		2. Existing Range Improvements 5
		3. Baseline Data
	C.	PUBLIC PARTICIPATION AND INTERDISCIPLINARY APPROACH . 9
II.	MU	JLTIPLE USE ISSUES 10
	Α.	LIVESTOCK GRAZING 10
	B.	WILDLIFE
		1. Big Game
		2. Upland Game 13
		3. Predator Control 14
	C .	WILD HORSES 14
	D.	WILDERNESS STUDY AREA 15
	E.	THREATENED AND ENDANGERED SPECIES 15
	F.	SURFACE WATERS/RIPARIAN HABITAT 15
	G.	WOODLAND PRODUCTS 16
	H.	MINING ACTIVITIES 16
	I.	LANDS ACTIONS/PUBLIC ACCESS/UTILITY CORRIDOR
		DESIGNATION
III.	MA	ANAGEMENT OBJECTIVES 17
	A.	RESOURCE MANAGEMENT PLAN (RMP) OBJECTIVES 17
	B.	RANGELAND PROGRAM SUMMARY (RPS) OBJECTIVES 17
	C.	ALLOTMENT SPECIFIC OBJECTIVES

TABLE OF CONTENTS (continued)

P	A	1	G	F	Ξ
-	-	-		_	_

IV.	PLA	ANNED ACTION	20
	Α.	GRAZING UNITS AND AREAS OF USE	20
	B.	GRAZING SYSTEM DESIGN	20
	C.	MAXIMUM USE	23
	D.	FLEXIBILITY	23
	E.	PROPOSED RANGE IMPROVEMENTS	23
V.	STU	JDIES AND EVALUATION	24
	Α.	UTILIZATION	24
	В.	ACTUAL USE	24
	C.	TREND	24
	D.	CONDITION	25
VI.	AN	NUAL BILLING	26
VII.		COOPERATOR'S AND BLM'S RESPONSIBILITIES	26
VIII		APPROVALS	27

LIST OF MAPS

LIST OF TABLES AND FIGURES

APPENDIX INDEX

I. INTRODUCTION

A. GENERAL INFORMATION

1. Land Use Planning

The Wells Resource Management Plan and Environmental Impact Statement (RMP/EIS) divided the Wells Resource Area into eight resource conflict areas (RCAs) having similar resource uses and conflicts. The Spruce Allotment is the largest of fourteen allotments located in the Spruce/Goshutes RCA. The Spruce/Goshutes RCA was identified as one of three RCAs with a high intensity conflict level. The selective management process categorized this allotment as an "I" allotment, identifying the need for improving current unsatisfactory range conditions. Therefore, the Spruce Allotment is in a high priority RCA and has a high priority for improvement. The Record of Decision (ROD) for the Wells RMP/EIS was signed on July 16, 1985.

2. Location

The Spruce Allotment is located in the southeast corner of the Elko District, spanning across portions of Antelope, Steptoe, Independence, Clover, and Ruby Valleys (see Map 1) with Spruce Mountain located near the center of the allotment. The crest of the Goshute Mountains form the eastern allotment boundary. The southern boundary is bordered by Alternate Highway 93 in Antelope Valley, the Dolly Varden Mountains, the Currie Hills, Palomino ridge, West Buttes, and the Medicine Range. The east edge of the pluvial Franklin Lake in Ruby Valley and Valley Mountain make up the west boundary. The northern allotment boundary is bordered by Snow Water Lake in Clover Valley, the Union Pacific Railroad where it crosses the Pequop Mountains and Flowery Lake in Steptoe Valley. Highway 93 and the Nevada Northern Railroad run generally north-south through the west and east halves of the allotment respectively (see Map 2).

3. Acreage by Ownership

The Spruce Allotment totals 813,267 acres (slightly larger than the state of Rhode Island) of which 797,142 acres (98%) are public lands and 16,125 acres (2%) are private lands (Map 2). Von and Marian Sorensen and Kenneth Jones are the current livestock permittees who control approximately 85% of these unfenced private lands. The remaining 15% are controlled by non-permittees.

4. Elevational and Topographical Variations

The topography of the Spruce Allotment is typical of the Basin and Range physiographic Province, ranging from basin valley floors to alluvial fan piedmonts and mountains and hills. The valley floors within the Spruce Allotment are generally 5,000 - 6,000 feet with the mountains as high as 10,262 feet at Spruce Mountain.

5. Climatic Factors

The continental weather regime prevails over the Spruce Allotment, with most of the precipitation being in the form of winter snows and spring rains. Summer and fall moisture is variable based on altitude and intense storm patterns. Summers are generally very dry with occasional thunderstorms and runoff. The average annual precipitation for the Spruce

Allotment varies from 4-20 inches or more, depending on particular locations within the allotment.

Based on the Nevada Air Quality and Climatological Atlas of December 24, 1980, there are three locations within the southern half of the Wells Resource Area with climatological data available. These three locations are all located outside the Spruce Allotment and have differing climatic data. All three locations, however, fall within isobars representative of the Spruce Allotment and can be used to show the variability of available moisture within this large area.

The average annual precipitation for these three locations is:

- Wells, NV 9.87 inches
- Ruby Lake 12.23 inches
- Wendover 4.5 inches

A limited amount of climatic data is also available for the Currie Highway Station, located at Currie, NV along the southern border of the Spruce Allotment. This data shows average annual precipitation to be about 8 inches.

Snowfall within the Spruce Allotment is variable based on elevation. Mean annual snowfall varies from 10-40 inches in the valleys to 40-80 inches in the Goshute Mountains and on Spruce Mountain. The average number of frost-free days ranges from 70-100 days in the lower elevations or valley areas to less than 70 days in the upper elevations.

Temperature extremes in the Spruce Allotment area generally reach a high in July and a low in January. The mean July maximum temperature ranges between 88 and 92 degrees Fahrenheit. The mean January minimum ranges from 8 to 12 degrees Fahrenheit.

6. Historical Grazing Use

The grazing privileges on what is now known as the Spruce Allotment evolved from the acquisition of several different sheep operations in the Spruce Mountain area. The current Spruce Allotment privileges can be traced back to the Griswold Livestock Co. and the Itcaina Livestock Co. The historical use of the Spruce Allotment can best be described as it originated from these two operators.

The Griswold Livestock Co. established a "priority" use in the Spruce Range Unit (Map 3) during those years (1929-1934) prior to the Taylor Grazing Act and the establishment of the Division of Grazing; later renamed the Grazing Service. The original Griswold Livestock Co. was a 10,000 head sheep operation based in Elko County. Most of their herd (8,500 sheep) "wintered" in White Pine County each year from 11/1-3/31. The remainder of the herd (1,500-2,000 sheep) grazed the desert shrub areas of the Spruce Unit in Elko County adjacent to Spruce Mountain during the winter months. Spring (4/1-5/31) and fall (11/1-11/15) use was made in the Spruce Unit with the entire herd of 10,000 sheep. From 6/1-10/31 only 1,500-2,000 sheep were grazed in an individual use area on Spruce Mountain. The remainder of the herd "summered" on National Forest Lands.

In the 1940's, the Griswold Livestock Co. began an effort to centralize their grazing operation and to eliminate the long stock trails to winter range in White Pine. Co. Grisöld began acquiring base properties and winter grazing privileges in those "common" use areas adjacent to the Spruce Unit (Currie, Medicine Butte, Utah-Idaho and Shafter Units - see

Map 3). These were primarily the desert shrub regions of Steptoe, Antelope and Ruby Valleys which supported many migratory sheep operations during the winter months. From 1942-1947, the Griswold Livestock Company made eight acquisitions and transfers expanding their grazing use area into The Currie Unit (Appendix A). In 1946, the Griswold Livestock Co. no longer held winter privileges in White Pine Co. The size of the operation remained essentially the same throughout the 1940's, the only change being winter use with the entire herd of 10,000 sheep in the Currie and Spruce Units in Elko Co. rather than White Pine Co. Active use varied from 86-92% of total available federal privileges through the 1940's (Table 1). A portion of grazing privileges purchased by Griswold included cattle grazing, the most notable of which included the U.C. Land & Livestock Co. purchase in 1946 (Appendix A).

In 1950, the Robinson/Sorensen Partnership purchased the Griswold Livestock Co. operation and continued efforts to acquire additional winter sheep privileges in the adjacent Currie, Medicine Butte, Shafter and Utah-Idaho Units (Map 3). From 1950-1973, sixteen acquisitions and/or transfers of base properties and/or federal grazing privileges were made (Appendix A). With this increase in available federal privileges from 1950-1961, the operation was increased to 12,000-13,500 sheep during the fall/winter/spring and 3,000 sheep in summer on Spruce Mountain. However, active use during this time averaged only 82% of total available federal privileges (Table 2).

More federal grazing privileges were acquired from 1961-1966 and winter grazing use by Robison/Sorensen was further increased to 15,000 sheep. Summer use remained at 3,000 sheep on Spruce Mountain. Active use averaged 76% of available federal privileges from 1961-1966 (Table 2).

From 1967-1973, the Robison/Sorensen operation gradually decreased to 6,000 sheep in winter and was as low as 1,100 sheep in the summer of 1972 on Spruce Mountain. Active use dropped from 78% of available privileges in 1969 to 10% in 1973 (Table 2).

In 1973, the Robinson/Sorensen Partnership privileges were transferred to Loyd Sorensen. These privileges were subsequently split with half being retained by Loyd Sorensen and half transferred to Von Sorensen/Kenneth Jones (Appendix A and C). From 1973 - 1983, Loyd Sorensen continued to winter 1,200-3,200 sheep in the Currie and Medicine Butte Units (Table 3). The last year sheep were grazed on Spruce Mountain in summer was 1974. Sorensen/Jones also "wintered" 1,200-3,400 sheep in the Currie and Medicine Butte Units (Table 6). In addition to their winter sheep operations, both Loyd Sorensen and Sorensen/Jones began grazing cattle together in the Currie and Medicine Butte Units from 11/1-5/31 each year. Between 1973 and 1983, the total combined cattle herd (Loyd Sorensen and Sorensen/Jones) has ranged from 450-1,500 head (Tables 3 and 6).

In 1961, Loyd Sorensen (at the time a partner in the Robison/Sorensen Partnership) together with Von Sorensen (doing business as Sorensen/Sorensen) acquired winter sheep privileges from the Itcaina Livestock Co. in the "common use" areas of the Currie, Medicine Butte and Utah-Idaho Units (Appendix B). No use was made by Sorensen/Sorensen until 1964 when they began to graze cattle during the winter in the Currie Unit (Table 4). Summer use was made on private land and National Forest Lands in the Secret Pass area. From 1964 to 1968, more federal grazing privileges were acquired (Appendix B) and winter cattle use increased from 500 to 650 cattle. Active use went from 11% of available privileges in 1964 to 75% in 1968.

In 1968, the Sorensen/Sorensen privileges were transferred to Von and Marian Sorensen who began a yearlong cattle operation on the federal range with 600-700 cattle each year. This

yearlong cattle operation has continued through the present with fall/winter/spring use in Antelope, Northern Steptoe, and Independence Valleys and summer use on Spruce Mountain.

Grazing allotments (both "common" and individual) were adjudicated within each range unit in the Wells Resource Area during the late 1960's and early 1970's.' The original Griswold Livestock Co. et. al. privileges acquired by Robison/Sorensen (later transferred to Loyd Sorensen and Sorensen/Jones) and the Itcaina Livestock Co. privileges acquired by Sorensen and Sorensen (later transferred to Von and Marian Sorensen) established a historic use area covering portions of five different range units (Map 3). In 1975, this use area was adjudicated and identified as the Spruce Allotment.

In 1983, an adjustment and transfer of grazing privileges was made based on a proposed future allotment split and the following grazing privileges resulted (Appendix A, B and C):

- Loyd Sorensen 14,974 AUMs Active, 138 AUMs Suspended
- Von and Marian Sorensen 7,154 AUMs Active, 257 AUMs Suspended
- Kenneth Jones 13,437 AUMs Active, 125 AUMs Suspended.

More recently, the remaining grazing privileges held by Loyd Sorensen have been transferred in their entirety to Von and Marian Sorensen.

To date, the Spruce Allotment has not been divided and still remains a "common" allotment grazed by two permittees. In addition, the grazing preference held by these permittees remains as adjudicated sheep use (AUMs). An official conversion from sheep privileges to cattle has never been completed. Cattle use from 1964-1969 was licensed as temporary pending analysis of a change-in-kind of livestock use. However, there was cattle use prior to 1964. Following the passage of the National Environmental Policy Act in 1969, cattle use has been licensed as "temporary pending the completion of an environmental assessment concerning a change-in-kind of livestock".

In summary, the Spruce Allotment as it is known today, was originally winter sheep range for as many as 15-20 migratory sheep operations and summer range (on Spruce Mountain) for 1,500-3,000 sheep. Winter use was made in the desert shrub regions of Ruby, Steptoe, Independence and Antelope Valleys from 11/1-3/31 with as many as 25,000 sheep. Although acquired federal grazing privileges may have allowed for this many sheep to be grazed, the Robison/Sorensen and Sorensen/Sorensen operations only grazed a maximum of 15,000 sheep in winter during the early 1960's. Winter cattle use on the Spruce Allotment began in 1964. In 1968, a yearlong cattle operation was established by Von and Marian Sorensen which still continues today with winter/spring use in Antelope, Steptoe, and Independence Valleys from 11/1-5/31 and summer/fall use on Spruce Mountain from 6/1-10/30 (Table 5). In 1973, Loyd Sorensen and Sorensen/Jones began a winter/spring cattle operation in Steptoe and Ruby Valleys (450-1,500 cattle 11/1-5/31) together with their winter/spring sheep operations (2,500-6,000 sheep 11/1-6/30). Summer use on Spruce Mountain with sheep ended in 1974. The average percent active use from 1979-1986 for the entire allotment has been 47% of total available grazing privileges (Tables 8 and 9, Figure 1). The average number of livestock which have grazed the Spruce Allotment since 1983 are as follows (Tables 3, 5 and 7):

64 29 yours too lots

Introduction

Loyd Sorensen	3,324 sheep
	471 cattle
Von and Marian Sorensen	665 cattle
Kenneth Jones	371 cattle

B. EXISTING INFORMATION

1. Livestock Qualifications and Management

The Spruce Allotment continues to be a "common" allotment with a total active grazing preference of 35,565 AUMs adjudicated sheep use. There are currently two livestock permittees on the Spruce Allotment who have operated together since 1973. Cattle have grazed the allotment since 1964 when they were first licensed as "temporary". Von and Marian Sorensen and Kenneth Jones currently graze only cattle (Tables 5 and 7). The grazing preferences and normal season-of-use for each operator is as follows:

Operator	Grazing Becord (a		Preference udicated sheep use)		Kind of	Use Period		% Federal
operation	Number	Total	Suspended	Active	Livestock	From	То	Range
Von and Marian Sorensen	1061	22,523	395	22,128	Cattle	3/1	2/28	100%
Kenneth Jones	1030	12,242	125	12,117	Cattle	11/1	5/31	100%

In preparation for a possible future split of the livestock operations, a division line was established which generally divided the allotment into an east and west half. The grazing preference as outlined above for Kenneth Jones reflects the carrying capacity of the west half of the allotment. The grazing preference for Von and Marian Sorensen reflects the carrying capacity of the east half. Although grazing preference is now based on a theoretical split of the allotment, Kenneth Jones continues to graze in the west half of the allotment. Von and Marian Sorensen graze livestock in the east half of the allotment.

2. Existing Range Improvements

Existing range improvement projects on the Spruce Allotment are shown on Map 4 and are listed in Appendix D. These improvements are summarized as follows:

Introduction

Type of Range Improvement	Unit	Number
Stockwater Wells	Each	33
Spring Developments	Each	13
Fences: Boundary Interior	Miles Miles	121 13.5
Pipelines	Miles	8
Cattleguards	Each	11
Seedings	Acres	7,562
Chainings	Acres	4,992
Corrals/Cabins	Each	7

3. Baseline Data

a) <u>Soils</u>

An Order III Soil Survey of the Spruce Allotment is currently being conducted by the Soil Conservation Service. The field work for the soil survey was completed in 1991. The published results for this soil survey are scheduled to be completed by 1994. As it becomes available, this detailed soils information will be used to identify specific range sites and ecological conditions within the allotment and will establish a basis for developing and monitoring specific allotment objectives. According to the 1939-41 Nevada Interagency Cooperative Land Use Study, most of the Spruce Allotment (approximately two-thirds) can be described as desert shrub range characterized by heterogeneous, saline soils which vary in texture, parent material and chemical composition. The soils of these large valleys are of sedimentary and alluvial origin, having developed from lake deposits or outwash from the near-by mountains. Textures vary from heavy clays to sands and variations occur in alkalinity and salinity.

The remainder of the allotment (approximately one-third) is characterized by erosion resistant mountain and bench, terrace or alluvial fan soils of limestone origin or similar fine grained parent material. These mountain and alluvial soils vary from moderate to high productivity and light to moderate texture. These bench or alluvial fan soils are also generally characterized by a lime hardpan.

b) <u>Vegetation</u>

The Spruce Allotment has a wide variety of vegetative types typical to northeastern Nevada. About two-thirds of the allotment, primarily the large open valleys, is characterized by a variety of salt-desert shrub communities, which exhibit both mozaic and zonal patterns ranging from almost pure stands of single species to fairly complex mixtures. Generally, shadscale, winterfat (white sage), budsage, low rabbitbrush,

h

Nuttal's saltbush (sweet sage), greesewood, and big or Wyoming sagebrush are found in these valley bottoms and lower valley slopes.

The valley uplands and foothills support black sagebrush, Wyoming big sagebrush, budsage, winterfat, low rabbitbrush, Indian ricegrass, squirreltail, and Sandberg's bluegrass. Approximately 7,562 acres (project nos: 0429, 0533, and 0634) of big sagebrush range in Independence Valley were plowed and seeded to crested wheatgrass in the 1950's to provide spring forage for livestock.

The mountains and benches contain communities of pinyon pine, juniper, mountain mahogany, snowberry, serviceberry, bitterbrush, Wyoming and mountain big sagebrush, bluebunch wheatgrass and a variety of other perennial grasses. Approximately 4,992 acres of pinyon-juniper range in the lower foothills of Spruce Mountain (project nos. 0665 and 4108) were chained in the 1960's for wildlife habitat improvement. Areas of white fir, Engelmann spruce and bristlecone pine can be found on the upper north slopes of Spruce Mountain.

A summary of the vegetative types for the Spruce Allotment, by unit (based on general use areas and land forms) and acres, can be found in Table 10. These units or use areas are shown on Map 5.

The source of this information is the 1979-81 Wells Resource Area Weight Estimate/Vegetation Inventory. Plant symbols used are in accordance with the Soil Conservation Service Region 8 Plant List.

GENERAL LAND	UNIT	ACRES			
FORM-VEGETATIVE ASPECT	(Map 9)	BLM	PRIVATE	TOTAL	
	А	141,428	742	142,170	
	в	60,169	129	60,298	
V. II. D	С	229,136	11,818	240,954	
Valley-Desert Shrub	D	39,697	23	39,720	
	H	68,456	10	68,466	
	Ι	12,610	158	12,768	
	Е	120,050	2,910	122,960	
	F-1	20,567		20,567	
Manutain Sanalànan	F-2	22,164	101	22,265	
Mountain-Sage/Grass	G	38,181	234	38,415	
	J	25,998		25,998	
	K	18,686		18,686	
		797,142	16,125	813,267	

The following is a summary of the acreages from Table 10:

c) Watershed Condition and Trend

The Watershed Conservation and Development System, Phase I Watershed Inventory (1976), classified approximately 70% of the Spruce Allotment in a slight erosion condition. Approximately 20% of the allotment was classified in a moderate erosion condition. The remaining 10% was classified as stable.

d) Range Condition and Trend

An Order III Soils Survey began on the Spruce Allotment in 1986. The soil survey was completed in 1991 with published results scheduled for completion by 1994. An ecological status inventory was being completed as the soil survey progressed. The inventory was also completed in 1991.

During the 1986 and 1987 field seasons, twenty-three key area locations in desert shrub (winter use) areas and six key areas in the mountain/upland (summer use) areas were selected to monitor the specific management objectives developed for the Spruce Allotment. Initial production data at these key area study sites was updated during the 1991 ecological status inventory. From this inventory the current ecological status (seral stage) for each of these key areas has been determined to be as follows:

Key Area	Range Site	Seral Stage	% of Potential Native Community
SP-12	Coarse Gravelly Loam 6-8"	Mid	37
SP-13	Coarse Gravelly Loam 6-8"	Mid	36
SP-14	Coarse Gravelly Loam 6-8"	Mid	27
SP-15	Silty 8-10"	Late	51
SP-16	Coarse Gravelly Loam 6-8"	Mid	30
SP-17	Coarse Gravelly Loam 6-8"	Mid	34
SP-18	Silty Clay 8-10"	Late	52
SP-19	Silty Clay 8-10"	Late	58
SP-20	Silty 8-10"	Late	65
SP-21	Silty Clay 8-10"	Late	52
SP-22	Silty Clay 8-10"	Late	54
SP-23	Coarse Silty 8-10"	Mid	32
SP-25	Stony Mahongany Savanna 16-22"	Mid	43
SP-26	Calcareous Loam 14-16"	Mid	45
SP-28	Mountain Ridge 14+	Late	70
SP-29	Calcareous Mountain Ridge	Mid	43

C. PUBLIC PARTICIPATION AND INTERDISCIPLINARY APPROACH

On January 20, 1988, the Bureau of Land Management (BLM) issued a <u>draft</u> allotment management plan (AMP) for the Spruce Allotment for review by the affected interests. The intended purpose of this AMP was to review and resolve current multiple use issues or conflicts identified within the allotment through more intensive livestock management and associated range improvements. However, due to the inability of the involved parties to reach consensus on several key issues, the draft AMP was not finalized, signed or enacted. Areas of disagreement in the draft AMP included:

- 1. Change-in-Kind of Livestock Conversion Ratio: The draft AMP proposed a 53 percent conversion ratio from licensed sheep use to cattle AUMs, with the remaining adjudicated preference being placed in suspended use. The permittees contested this unilateral reduction in active preference due to the fact that it was not based on actual monitoring results, but rather on a 20-year-old range analysis which relied on forage survey data that is now 40 years old. The permittees also contended that a significant portion of the originally adjudicated preference associated with the allotment was in fact based on cattle grazing, not sheep.
- 2. Extent of Proposed Seedings: The draft AMP proposed the development of approximately 7,000 acres of crested wheatgrass seedings to allow the removal of livestock from the native winter desert shrub ranges during the critical growing period. The permittees contended that the proposed 7,000 acres of seedings were insufficient to accommodate spring forage demands for the involved livestock operations and failed to account for past agency promises for seeding developments to replace forage lost through historic allotment boundary adjustments.
 - Wild Horse Management: In accordance with the Wells RMP, the draft AMP identified five separate wild horse herd areas which lie either entirely or partially within Spruce Allotment. In addition, the draft AMP disclosed that the 1987 estimate for horse population levels significantly exceeded the desired population level in four of the five WHMAs. The permittees' position on this issue was that all the wild horses on the allotment had been claimed and removed during the authorized "claiming period", and therefore, the allotment should be designated as horse-free.

On June 10-11, 1991, the permittees and the Bureau met to discuss and seek resolution to the issues listed above. Recognizing that the lack of monitoring data would not allow successful resolution of some of these issues, all parties did agree that these impasses should not preclude the advancement of improved livestock management on the allotment. As such, the parties agreed to jointly develop this interim AMP that would allow for the initiation of project planning and would be implemented and followed until such time as the monitoring data was available to indicate that the provisions and conditions contained in this interim plan were no longer valid. This is expected to occur upon the completion of the allotment evaluation which is currently under progress. At that time, the resource information resulting from the evaluation will be used to modify allotment specific objectives, specify any livestock management revisions required to this interim plan, be used to develop a new AMP, and to evaluate stocking rates initially agreed to in this Interim AMP and modify as necessary.

As noted in Section IV. A. below, a major action associated with this plan is the formal division of Spruce Allotment into two separate, private allotments. As such, the following interim AMP only applies and is specific to the newly formed allotment in the East Unit, hereafter referred to as Spruce Allotment (see Map 10).

9

II. MULTIPLE USE ISSUES

A. LIVESTOCK GRAZING

1. <u>Change-in-Kind of Livestock</u>: During the late 1960's and the early 1970's the grazing permits for the grazing area now known as Spruce Allotment were adjudicated for sheep. However, some cattle use was authorized prior to this time. (Refer to the historical grazing use summary in Section I.A.6. and in Appendix A). Application was first made by Loyd Sorensen to graze cattle on Spruce Allotment in 1964, at which time winter cattle use was licensed as "temporary pending analysis of a change-in-kind of livestock use". In 1968, yearlong cattle use began in the east half of the allotment. In 1973, winter cattle use began in the west half of the allotment.

Since 1968, active cattle use has risen from an average 27% to 68% of active use. Sheep use since 1968 has dropped from an average 73% to 32% of active use (Table 9). However, with the change to cattle use, total active use has dropped, averaging 47% of total available privileges since 1979 (Table 9). The proper carrying capacity for cattle on the Spruce Allotment needs to be established.

2. <u>Season of Use</u>: Annual use of desert shrub communities during the growing season is a major concern with winter livestock use on the Spruce Allotment. The growing season of key shrub species such as winterfat (white sage), black sage, bud sage, and saltbush (sweet sage) begins in late March or early April. Although grazing use during the winter-dormant season may approach 75% of current year's growth without harm, use beyond slight to light levels during the active growing season may preclude seed production and adversely impact the vigor of key shrub species. Therefore, it is most desirable to rest these desert shrub communities from grazing between April 1 and Nov. 1.

In order to achieve some sort of rest during the growing season, a grazing agreement was initiated in 1975 to rotate grazing use on desert shrub communities after April 1. However, consistent rotational use after April 1 each year has not been achieved. If livestock use after April 1st can be terminated or (at a minimum) a rotational grazing system successfully implemented on these winter use areas, range conditions would be expected to improve on the allotment. In order to terminate all use after April 1st, it will be necessary to develop additional spring forage.

Cattle graze the deer winter range in the Boone Springs area late in the season each year. This late use has resulted in excessive use of bitterbrush by cattle. Use of bitterbrush beyond 25% by cattle each year, prior to the arrival of wintering deer herds, may result in a loss of production of this important browse species and subsequent reduction in habitat conditions. This problem is not as serious in the areas of Basco and Spruce Springs, since most of the cattle tend to drift into Independence Valley in the fall when water hauling stops. However, late season cattle use needs to be rotated or terminated in the Boone Springs area.

3. <u>Livestock Distribution</u>: The lack of interior fencing and lack of water facilities in some areas of the Spruce Allotment creates livestock control problems and disportionate livestock distribution. Historically, sheep distribution is controlled for the most part by herding and the location of available waters. Using snow for water was most preferable. However, if snow was not available during the grazing season, live surface waters were utilized on Spruce Mountain and/or water was pumped at lower elevation wells if necessary. Cattle distribution is also closely associated with the location of available water and weather conditions during

the grazing season. Cattle use patterns tend to be better when there is snow on the ground and/or during cooler weather. In addition to water hauling practices for cattle on Spruce Mountain and in the Pequop Range, salting is also done in an effort to improve distribution patterns. However, salting too close to live waters has been a problem in some areas. Placing salt and other supplements at least ¼ mile from live waters needs to be enforced. Livestock distribution problems are summarized for each unit or general use area as follows (see Map 5 for unit locations):

<u>Unit H (Clover Valley Winter Range)</u>: Currently, the winter cattle operation in the west half of the allotment is a combined herd belonging to Kenneth Jones. The transfer of grazing privileges in 1983 was based on an eventual separation of this common winter cattle use operation. When this separation occurs, winter cattle use in Clover Valley (between Highway 93 and Spruce Ridge) will increase. This will require a fence to prevent cattle drift onto and across Highway 93.

The area on the upper valley bench west of Spruce Ridge has the potential for being developed into a seeded-spring use pasture. A seeded pasture in this area could be used in early April, removing cattle from the desert shrub range when the growing season of key desert shrub species begins.

<u>Unit D (Independence Valley Spring and Fall Range)</u>: The 7,500 acres of crested wheatgrass seedings in Independence Valley are not fenced separate from adjacent native range. The seeding is currently grazed in both spring and fall. When livestock use is made early, cattle drift into summer range on Spruce Mountain and early annual use is made of the lower saline bottoms of Independence Valley.

There are several live surface waters in the bottoms near Spruce Ridge, making it difficult to control use patterns with other water facilities. Therefore, grazing this seeded and native range without fences results in irregular use patterns with most of the use made adjacent to Spruce Ridge.

When this area is grazed in the fall, cattle drift to the northeast toward the railroad tunnel. To stop this inherent drift, a drift fence was constructed in Independence Valley in 1990 to make substantial fall use of the seedings and defer use of the desert shrub ranges.

<u>Units C and F2 (North Steptoe Valley and Antelope Valley Winter Range)</u>: Winter cattle use in this area is concentrated along the west bench of the Goshute Mountains and near Dolly Varden Spring. Cattle have generally been distributed at stockwater wells throughout the valley each year. Rotational use with water control has only been done on occasion.

The area is fairly well watered with only two or three areas needing water development for better cattle distribution. The areas between Dolly Varden Spring and Itcaina Well and between Dolly Varden Siding and Mizpah Point are currently underutilized for lack of water. Most of all these existing wells in Antelope Valley are located in white sage areas. With the change from sheep to cattle use, utilization is more concentrated around these existing waters. Additional water developments in light use areas would help distribute the use more evenly. Rotational use with water control needs to be seriously considered.

There are approximately 12,000 acres of private land near Flowery Lake. Approximately 6,000 acres of this private land has been plowed and seeded to crested wheatgrass and/or Russian wild rye. It has been the intention of the permittee/land owner to graze these seedings each year, removing all cattle from the winter range (public lands) in March or

early April. Development of these lands has taken several years and is now near completion. Use of these lands in the spring needs to be emphasized.

These private lands are also used in the fall after cattle are trailed from Independence Valley and before they enter the winter range. Without some sort of fencing, it is difficult to control cattle drift onto the public lands.

The area along the south and southwest flank of Spruce Mountains has the potential for development of a spring use pasture. A seeded pasture in this area could be used in early April, removing cattle from the desert shrub ranges when the growing season of key desert shrub species begins.

Unit E (Spruce Mountain Spring/Summer Range): With the conversion from summer sheep to cattle use on Spruce Mountain, livestock use has become more concentrated in those areas where there is live surface water. The greatest amount of cattle use is made at Basco Spring, Spruce Spring, Latham Spring, and near the Sprucemont and Black Forest mining areas. Water is currently hauled by truck to water tanks in several areas of Coyote Basin and the Pequop Mountains. Several miles of pipeline need to be constructed to help distribute cattle use.

Cattle drift from the seedings in Independence Valley into the canyons of Spruce Mountain, particularly Latham and Cole Creek Canyons, in the spring each year. Fences need to be developed to stop drift and defer cattle use on Spruce Mountain.

<u>Units K and I (Valley Mountain and Curtis Spring)</u>: The east benches of Valley Mountain have historically received occasional spring and fall sheep use. The area around Curtis Spring receives overnight trail use during spring and fall when livestock are being moved between the Spruce Allotment and private or USFS lands in North Ruby Valley. As a result of the latest grazing preference transfer, the Valley Mountain benches will no longer be grazed by sheep. The area near Curtis Spring will continue to be used for trailing.

The area north of the Ruby Highway 229 and west of Highway 93 has the potential to be developed into a seeded-spring use pasture. A seeded pasture in this area could be used in early April. This would remove cattle from the desert shrub range when the growing season of key desert shrub species begins.

B. WILDLIFE

1. Big Game

The Wells Rangeland Program Summary (RPS) estimates current mule deer use on the Spruce Allotment to be 4,613 AUMs. Small populations of deer spend the summer months in the higher elevations of the Medicine Range, Spruce Mountain, and the Pequops, migrating to adjacent lower elevations in winter. The majority of the deer use on the Spruce Allotment is during the winter months along the lower benches of Spruce Mountain and the Pequop Mountains. As many as 5,000 deer cross Highway 93 each spring and fall, migrating to and from summer range in the East Humboldt Range (Map 6). This highway right-of-way is currently unfenced. An interior fence along this right-of-way could adversely affect this deer migration.

As reflected in Map 6, several areas of the Spruce Mountain deer winter range have been identified as "crucial" habitat by the Nevada Department of Wildlife (NDOW). The

Spruce/Basco Spring (DW-2-T-01), Black Forest (DW-2-T-02) and Honeymoon Chaining (DW-2-T-03) areas were rated in good habitat condition in 1986. The Boone Springs area was rated in fair condition in 1986 (DW-2-T-04).

The Boone Springs area is the most critical portion of the Spruce Mountain winter range. Deer move to this area when heavy snows force them out of the Spruce/Basco Springs areas. Late season use by cattle near Boone Springs has resulted in heavy use of bitterbrush and low habitat condition ratings.

Competition between domestic livestock and mule deer on summer and yearlong ranges has been reduced considerably since 1973 when summer sheep use was last made on the Spruce Allotment. Riparian areas associated with springs and wet meadows are important habitat features within these summer and yearlong ranges. Although ecological conditions of upland areas have improved, many of the nearby mesic areas are currently rated in poor to fair condition.

Almost the entire Spruce Allotment below 6,500 feet elevation is used by antelope yearlong (Map 7). The Wells RPS estimates current antelope use to be 134 AUMs. Dietary overlap is greatest between antelope and domestic sheep. These yearlong antelope ranges were historically grazed by as many as 25,000 sheep during the winter months. This historic heavy winter sheep use may have created an apparent lack of vegetative diversity necessary for good antelope habitat. The gradual reduction in winter sheep use and conversion to cattle use over the years has reduced competition with antelope considerably. However, because of the low site potential of these areas, improvement of range or habitat conditions has been slow or non-existent in some cases. Habitat conditions in Steptoe Valley north of Mizpah Point were rated as poor in 1984 (AY-2-T-02). The overall current habitat conditions for yearlong antelope range in the Spruce Allotment range from poor to fair.

In addition to lack of vegetative diversity, water is a key limiting factor within the yearlong antelope ranges of the Spruce Allotment. Live surface waters are very limited and antelope are usually forced to move to adjacent allotments to find water in the summer months. When new stockwater facilities are constructed within yearlong antelope ranges, leaving troughs full of water when livestock are removed would greatly benefit antelope. The installation of antelope guzzlers should also be considered in some areas.

In order to avoid potentially adverse impacts to antelope, the construction of new interior pasture fences must be built to Bureau standards for antelope range. The Wells RPS states 46 miles of existing boundary fences will be modified to facilitate the movements of antelope. The exact location of these fences will be identified in the Habitat Management Plan for the Spruce/Goshutes RCA.

The Goshute Mountains have been identified as historic bighorn sheep range by NDOW. The NDOW has proposed to reintroduce bighorn sheep into the Goshutes, and this proposed reintroduction has been included in the Department's Big Game Release Plan since 1988. The Goshute Mountains have also been identified by the Wells RMP as a potential reestablishment area. Currently, the west benches of the Goshute Mountains are grazed by cattle in the winter.

2. Upland Game

Blue grouse and sage grouse are important game bird species which can be found in the Spruce Allotment. Blue grouse generally inhabit the upper north slopes of Spruce Mountain

in conifer zones above 8,500 feet elevation. Since summer sheep use on Spruce Mountain was curtailed in 1973, little conflict now exists between blue grouse and domestic livestock use.

There are seventeen known historic or active sage grouse strutting grounds identified in the Spruce Allotment. Most of these strutting grounds are located in the northwest corner of the allotment along the upper valley benches of Clover Valley near Curtis Spring (Map 7). The development of seeded range for livestock in this area could create potential conflicts with important sage grouse habitat.

3. Predator Control

The United States Department of Agriculture - Animal Plant Health Inspection Service (APHIS) operates an Animal Damage Control (ADC) program in many areas of Elko County, pursuant to the Animal Damage Control Act of March 2, 1931 (46 Stat. 1468; 7 U.S.C. 426-426b), as amended. The ADC program is conducted in cooperation with the State Predator and Rodent Control Committee, the State Department of Agriculture, and the local Grazing Boards. The program responds to requests for assistance received from other federal, state, and local agencies and private individuals and is directed toward alleviating damage to livestock caused by individual mammalian predators and local depredating populations. Target species include coyotes, bobcats, and mountain lions. The impacts associated with the ADC program have been analyzed in an environmental assessment report, which is on file at the Elko District BLM office.

The ADC program on the Spruce Allotment has been closely associated with the sheep operation and focused primarily on the coyote, since it is the most widespread predator affecting livestock. Under the current proposal to convert all sheep AUMs to cattle, the need for animal damage control on the Spruce Allotment will have to be re-evaluated.

C. WILD HORSES

The Spruce Allotment makes up all or portions of five wild horse herd use areas (Map 8). The Wells RMP has identified the 1981 population levels for future management. The current and desired wild horse numbers for each herd area are as follows:

Herd Area	Desired Population Level (1981)*	Current Population Level (1992)	Last Gather
Spruce-Pequop	64-80	129	1978 **
Goshute	96-120	201	1987
Antelope Valley	131-164	576	1987
Maverick-Medicine	196-244	589	1986
Cherry Creek	51-64	***	1987

* The herd size was established by the Wells RMP.

** This was during the Claiming period and was not a Bureau gather.

*** Census data for the Cherry Creek Herd was combined with the Antelope Valley (east side of the Cherry Ck. Mtns.) and the Maverick-Medicine (westside of the Cherry Cr. Mtns.) There are no interior fences within the Spruce Allotment; therefore, wild horse movements are generally unrestricted. The population of horses in any one location within a herd use area varies considerably depending on the time of year and availability of forage and water. Use areas are generally seasonal, with winter use in the valleys and benches and summer use in the upper elevations. Use patterns are tied very closely to water availability in some areas of the allotment. In areas of Independence and Antelope Valleys where live surface water is available, wild horses can be seen on the desert shrub ranges yearlong. Therefore, the problem of utilization of desert shrub ranges during critical growth periods can only be controlled by keeping population levels at the minimum levels allowable by law and the planning system. In addition, the Wells RPS has identified two catchment-type water developments (Dolly Varden and Palomino Ridge) to be constructed for wild horses to improve water availability and distribution patterns. These projects will be implemented through specific Wild Horse Herd Management Area Plans.

D. WILDERNESS STUDY AREA

Pursuant to Section 603 of the Federal Land Policy and Management Act of 1976, two wilderness study areas (WSAs) - the South Pequop and part of the Goshute Peak WSA - were designated within the Spruce Allotment (Map 9). Until such time as Congress designates or does not designate these areas as wilderness, all management actions in these WSAs are subject to the Interim Management Policy (IMP) and Guidelines for Lands under Wilderness Review dated December 12, 1979. Livestock grazing within these WSAs is a "grandfathered" use which may continue so long as their impacts do not impair wilderness suitability.

If any areas encompassed by the allotment are designated as wilderness, it will be necessary to review congressional guidelines and policy and make any necessary modifications with regard to grazing management on the Spruce Allotment.

E. THREATENED AND ENDANGERED SPECIES

Bald eagles and peregrine falcons, both federally listed endangered species, are spring-fall migrants in the Wells Resource Area and are known to inhabit the Spruce Allotment during winter (November - March). A winter bald eagle roost is known to exist on the west side of Spruce Mountain near 9,000 feet elevation. There are no conflicts or issues concerning these endangered species and livestock grazing.

F. SURFACE WATERS/RIPARIAN HABITAT

Riparian habitats associated with surface waters are important habitat features for an abundance of wildlife species. For example, these areas are important to sage grouse because they can, if properly managed, produce an abundance of insects (a protein-rich food source essential for the survival of young sage grouse), and provide succulent grasses and forbs late into the summer (highly preferred foods for both young and mature sage grouse). Riparian zones also provide a diversity of thermal cover, hiding cover, succulent forage, and water needed for mule deer fawning and fawn-rearing habitat. In essence, the riparian habitats or zones associated with surface waters are the most important wildlife habitat type in managed rangelands for wildlife, wild horses and livestock.

Many of the surface waters in the Spruce Allotment are located on private lands. Only 23 surface waters exist on public lands. Most of these public surface waters are located above 6,500 feet elevation in the Spruce and the Dolly Varden Mountains. Only 4 public surface waters exist in valley bottoms or upper valley bench areas (2 in Independence Valley and 2 in Clover Valley).

Fifteen of the surface waters located on public lands in the Spruce Allotment have been developed for livestock use. A spring box and trough or a dug-out pond are common improvement techniques utilized. Some of the water sources and associated riparian zones have been fenced while others remain unprotected.

The surface waters and associated riparian habitats were inventoried on the Spruce Allotment in 1980-81. Habitat conditions for these mesic sites generally range from poor to fair. The Wells RPS states that 3 springs within the Spruce Allotment will be developed and/or improved. One objective of the Spruce Goshute HMP will be to improve three poor-to-fair condition springs to good or excellent condition.

G. WOODLAND PRODUCTS

Christmas trees, pine nuts, fuel wood, and fence posts are harvested commercially and noncommercially in many areas of the Spruce Allotment. There are currently no conflicts with livestock grazing and the harvest of woodland products. The Wells RPS has identified 16,000 acres of crucial deer winter range in the Spruce Allotment to be improved by thinning (cutting) pinyonjuniper (thin 4,000 acres to improve 16,000 acres). An additional 2,500 acres (which may include pinyon-juniper) is also identified to be chained or burned and seeded to improve habitat conditions. These vegetation manipulation projects and how they will affect pinyon-juniper zones in the Spruce Allotment will be addressed in the Spruce/Goshutes Habitat Management Plan.

H. MINING ACTIVITIES

Mining activity has occurred and/or is ongoing in many areas of the Spruce Allotment. Spruce Mountain and the Dolly Varden Mountains have several patented mining claims. Exploratory activity has occurred in the Medicine Range, West and Delcer Buttes, several areas of Spruce Mountain, and the Goshute Mountains. The Victoria Mine in the Dolly Vardens is currently inactive. Livestock operations on the Spruce Allotment have derived many benefits from these mining activities over the years. As a result of mining activity, access routes have been upgraded in many areas and in some instances water for mining has been made available for stockwater use. Therefore, there are currently no conflicts with mining activities and livestock grazing.

I. LANDS ACTIONS/PUBLIC ACCESS/UTILITY CORRIDOR DESIGNATION

There are no "checkerboard" lands within the Spruce Allotment. Except for some isolated parcels on Spruce Mountain, private lands are consolidated primarily in Steptoe Valley (Map 2). The Wells RMP/EIS has designated the entire Spruce Allotment for "retention/consolidation" with regards to land tenure adjustments.

Public access is currently not a problem within the Spruce Allotment. However, the acquisition of legal access for 7 roads (approximately 66 miles) within the Spruce Allotment for enhancement of opportunities to use public land resources has been identified in the Wells RMP/EIS.

A three mile wide transportation and utility corridor has been identified along the Nevada Northern Railroad and alternate Highway 93. An additional five mile wide corridor is designated through the Currie Hills. The White Pine Power Project would increase railroad traffic on the Nevada Northern Railroad Corridor. High speed trains may necessitate the fencing of this rightof-way for safety purposes. This may affect grazing management in Steptoe Valley.

III. MANAGEMENT OBJECTIVES

General resource objectives have been established for Spruce Allotment through the Wells RMP and the subsequent Rangeland Program Summary (RPS). Lacking allotment specific objectives for the allotment, this interim AMP identifies objectives which will be followed until the allotment evaluation is completed and allotment specific objectives can be developed through a new AMP. However during the interim the following allotment objectives will be followed. It should be noted that the permittee's signature to this interim plan does not necessarily mean that they are in concurrence with all the objectives identified in the RMP and RPS for this particular allotment.

. RESOURCE MANAGEMENT PLAN (RMP) OBJECTIVES

- 1. Provide for livestock grazing consistent with other resource uses.
- 2. Continue management of the existing wild horse herds consistent with other resource uses.
- 3. Conserve and/or enhance wildlife habitat to the maximum extent possible.
- 4. Eliminate all of the fencing hazards in crucial big game habitat, most of the fencing hazards in non-crucial big game habitat.
- 5. Eliminate all of the high and medium priority terrestrial riparian habitat conflicts in coordination with other resource uses.
- 6. Prevent undue degradation of all riparian habitat due to other uses.

. RANGELAND PROGRAM SUMMARY (RPS) OBJECTIVES

- 1. Improve livestock distribution in Steptoe Valley (north of Mizpah Point), Antelope Valley (north and east of Dolly Varden Spring), and Spruce Mountain (in the areas of Basco Spring, Latham Spring, and Coyote Basin).
- 2. Improve ecological status of winterfat and saltbush winter use areas in Antelope, Steptoe, and Clover Valleys.
- 3. Maintain summer use areas on the upper elevations of Spruce Mountain (north and west sides) and the Pequop Mountains (between Nine-mile Canyon and Brush Creek).
- Consider formal conversions from sheep to cattle on portions of the allotment.
- 5. Periodically evaluate the monitoring data for the allotment to reinstate suspended non-use when they become permanently available.

Develop an AMP to be signed in FY87.

7. Improve or maintain all seasonal big game habitat in the Spruce Allotment to good or excellent condition to provide forage and habitat capable of supporting the following reasonable numbers and forage demands:

8,838	Mule deer - 6,510 AUMs
180	Antelope - 432 AUMs
120	Bighorn Sheep - 288 AUMs

- 8. Reintroduce bighorn sheep in the Goshute Mountains.
- 9. Facilitate big game movements by modifying existing fences to Bureau standards, where necessary (46 miles).
- 10. Improve crucial deer winter habitat by cutting pinyon and juniper (thin 16,000 acres).
- 11. Improve crucial big game habitat by chaining or burning and seeding (2,500 acres).
- 12. Improve, enhance or develop 3 springs to good or excellent condition.
- 13. Manage for a wild horse herd size which will maintain a thriving ecological balance consistent with other multiple uses while remaining within the wild horse herd boundaries.
- 14. Construct the Dolly Varden and Palomino Ridge water catchments for wild horses.

C. ALLOTMENT SPECIFIC OBJECTIVES

- 1. Show a static or upward trend in ecological status on all key areas within five years of full implementation of the grazing system. Upward trend will be identified by a significant increase in % frequency of occurrence of each key species as defined by Duncan's Multiple Range Test.
- 2. Improve the ecological status of all key areas to (or maintain in) late seral stage within 10 years of full implementation of the grazing system.
- 3. Maintain the current good habitat conditions of crucial deer winter range in the Spruce/Basco Spring and Black Forest areas and improve the crucial deer winter range in the Boone Springs area from fair to good habitat condition within 10 years of full implementation of the grazing system. Habitat condition ratings will be monitored by the Wells Resource Area Wildlife Biologist.
- 4. Improve all yearlong antelope range within the Spruce Allotment from fair to good habitat condition within 10 years of full implementation of the grazing system. Habitat condition ratings will be monitored by the Wells Resource Area Wildlife Biologist.
- 5. Improve three high priority poor or fair condition spring and/or wet meadow complexes located within the Spruce Allotment to good or excellent condition within 10 years following the full implementation of the grazing system (as per Wells RPS). An inventory of the spring and/or wet meadow complexes on the Spruce Allotment will identify the specific springs or riparian areas to be improved or developed. Condition ratings will be monitored by the Wells Resource Area Wildlife Biologist.

- 6. Maintain good bighorn sheep habitat conditions in the Goshute Mountains (Subunit J) within 10 years of full implementation of the grazing system. Habitat condition ratings will be monitored by the Wells Resource Area Wildlife Biologist.
- 7. Manage livestock use so that average utilization of key forage species does not exceed the allowable percentages outlined in Appendix F.

IV. PLANNED ACTION

Under this interim AMP, the principle means to obtain the RMP, RPS and allotment specific objectives listed above will be to:

1.

Convert all of the current total grazing preference from adjudicated sheep use to cattle use. As such, the initial stocking rate for Spruce Allotment will be as follows:

Unit/Operator/Herd	Number of Livestock	Kind of Livestock	Period of Use	Total (AUMs)
EAST UNIT (Spruce Allotment):				
Spruce Mtn. Herd	700	Cattle	5/1-3/30	7,700
Secret Pass Herd	675	Cattle	10/1-5/31	5,400
TOTAL	1,375			13,100

Table 11: Initial stocking rates under the interim AMP for Spruce Allotment.

During the interim, the remaining active preference (9,028 AUMs) will be held in abeyance under voluntary nonuse. Reinstatement or suspension of active or voluntary nonuse preference will occur as verified by the evaluation of collected monitoring data.

- Provide sufficient spring forage through seeding to allow livestock to be removed from winter desert shrub ranges during the critical growth period of the key forage species.
- Divide Spruce Allotment into manageable units to allow: 1) deferred rotational use of desert shrub winter ranges; 2) deferred and/or rest rotational use of the higher elevation summer ranges; and 3) increased use of existing and proposed seedings.
- Develop stockwater facilities in Steptoe Valley, Antelope Valley and on Spruce Mountain to improve livestock distribution

A. GRAZING UNITS AND AREAS OF USE

Relative to the proposed division of Spruce Allotment, the allotment is divided upon acceptance of this plan into two units (Map 10), based largely on the historic use areas of the current livestock operations and existing grazing preference transfers. Kenneth Jones will continue to graze cattle in the West Unit, while Von Sorensen will graze cattle in the East Unit as two separate herds (i.e., the Spruce Mountain herd and the Secret Pass herd, respectively). As identified in Map 10, the Secret Pass herd will use subunits C-1, H, K-1 and I, while the Spruce Mountain herd will utilize subunits C-2, -3 and -4, D-1, -2 and -3, E-1, -2, -3 and -4, F-2, I and J.

B. GRAZING SYSTEM DESIGN

The purpose of this Interim AMP is to outline a consensus grazing plan to be followed while the necessary rangeland improvements (i.e., seedings and fences) are implemented. As a new grazing plan, slight adjustments may be required and are expected during the first two to three years of

operation to refine this grazing strategy to reflect actual field conditions. The resulting grazing plan described here is designed to:

Improve the ecological status of the native desert shrub ranges by eliminating winter livestock use when the critical growth period for key forage species begins in early April each year.

Improve the ecological status of native range on Spruce Mountain by increasing spring and fall use within the existing seedings located in Independence Valley, allowing for deferment of summer cattle use on Spruce Mountain until the first of July.

Improve crucial deer winter range in the Boone Springs area by establishing a rest rotation grazing system with cattle to decrease use of and improve age class structure of bitterbrush.

4. Improve cattle utilization patterns on desert shrub ranges by:

- a) establishing a deferred rotation grazing system and,
- b) utilizing stockwater facilities to govern use areas.

A description of the grazing plan for each herd in the East Unit follows:

Spruce Mountain Herd

3

The Spruce Mountain herd will graze Spruce Allotment eleven months each year from approximately May 1 to the following March 30 (see Table 12). During the month of April, cattle will be on private lands (which adjoins some unfenced federal land) for the spring calving period. These private land seedings will continue to be improved and expanded with a division fence constructed to allow the rotation of spring and fall cattle use.

After the calving period, cattle will be moved from the private land seedings through Subunit D-3 to graze the seedings in Independence Valley from May 1 to June 30. These existing seedings will be crossed fenced and divided into two pastures in order to rotate spring and fall cattle use. Use of these seedings will allow the deferment of cattle grazing on Spruce Mountain until July 1 each year. As outlined in Table 12, this spring grazing will occur the first year in Subunit D-1, as rotated with Subunit D-2 every other year. Until such time as the fencing called for in Appendix E is constructed, livestock use in the Independence Valley seedings will be controlled by alternating the operation of Nine Mile Well with East Spruce Well.

On July 1, cattle will be turned out from the Independence Valley seedings to Spruce Mountain summer range. Subunits E-1 and E-2 will be grazed each year from July 1 to September 30. While used in conjunction with Subunits E-1 and E-2, cattle use in Subunits E-3 and E-4 will be alternated every other year.

Cattle will begin moving off of the Spruce Mountain summer range around the first of September. Fall cattle use from September 1 to November 10 will be made in the Independence Valley seeding not grazed the previous spring. Shipping calves sometime during the period of October 15 to November 15 will require the continued use of the Feedlot Corrals each year regardless of which seeded pasture being grazed in the fall. While monitoring will be used to quantify the actual acreage required, current projections indicate that approximately 840 acres of additional seedings will be required in Independence Valley to support the Spruce Mountain herd in both the spring and fall. After calves are shipped, cattle will be herded from Independence Valley to winter range located in Steptoe Valley through Subunit D-3. Cattle use in the winter range will occur from November 20 to March 31 when cattle are again moved to private lands for calving. The winter range in Antelope and Steptoe Valleys will be divided in a north-south manner, with winter and early spring use being rotated each year. Livestock movements within the winter range will be controlled by stockwater, as specified in Table 12. As discussed in greater detail in the following section, there will be some overlap of livestock use between the Spruce Mountain and Secret Pass herds in the area of Warehouse, Crane and Indian Creek Wells. The Spruce Mountain herd will use these waters on their way to Antelope and Steptoe Valleys, while the Secret Pass herd will use these same water sources as part of their winter range in Subunit C-1.

Secret Pass Herd

As outlined in Table 13, the Secret Pass herd will be allowed to enter the Spruce Allotment for winter grazing as early as October 20 through the Polar Star and Curtis Spring pastures (Subunits I and K-1). Fall and early winter use will be made in the native range portions of Clover Valley (Subunit H) with cattle being herded around the south end of Spruce Mountain through Subunit C-1 to the winter range located in the west portions of Steptoe Valley.

To synchronize winter grazing with the Spruce Mountain herd and to alternate the area of spring use, the Secret Pass herd will alternate its arrival and departure dates in Steptoe Valley on an annual basis. During year 1, the Secret Pass herd will graze Clover Valley (Subunits H, I and K-1) from October 20 to November 30. At the end of November the herd will be herded around the south end of Spruce Mountain to arrive in Steptoe Valley on December 1. During this rotation the herd will depart Steptoe Valley by April 30 and slowly trail back to Clover Valley and exit the allotment by May 31.

In contrast, during the second year substantial use in Subunit H will be deferred until spring by hazing cattle through Clover Valley and the south end of Spruce Mountain for a November 15 arrival date in Steptoe Valley. During this rotation the herd will depart the winter range in Steptoe Valley by March 31 and will be herded back to Clover Valley (Subunit H) for a April 16 to May 31 grazing season. In effect, the interim grazing strategy alternates spring grazing between Clover and Steptoe Valleys on a yearly basis by either emphasizing fall or spring grazing in Clover Valley.

As outlined in Table 13, livestock distribution in the Steptoe Valley winter range will be controlled by alternating stockwater at the following wells:

- Group 1 Tom Eager, Indian Creek, Crane and Warehouse Wells.
- Group 2 Goshute, Old Mizpah and Mizpah Point Wells.

The sequencing of use between these two well groups will be reversed on a yearly basis so as not to conflict with livestock use in the adjacent unfenced areas grazed by the Spruce Mountain herd.

One of the primary actions of this interim grazing plan is to develop sufficient spring forage through seedings to allow livestock to be removed from the winter shrub ranges during the critical growth period (See Table 14 and Map 11 for justification and proposed locations for these seedings). When these seedings have been developed this interim grazing plan for the Secret Pass herd will be adjusted. However during the interim, spring use within the native range will be alternated between Clover and Steptoe Valleys on a yearly basis.

C. MAXIMUM USE

Based on the current active grazing preference and the overall carrying capacity of each grazing subunit, the maximum actual use for each herd may not exceed the total AUM listed in Table 11, until such time as monitoring indicates otherwise. During the interim, the remaining active preference will be held in abeyance under voluntary non-use. However, this provision does not preclude the opportunity for the permittees to cooperatively alter the ownership of the respective cattle herds as long as the total actual use does not exceed the total AUMs for each herd cited in Table 11.

D. FLEXIBILITY

In consideration of events beyond the control of the BLM and permittees (i.e., fire, snow cover, drought, insect damage, etc.) the grazing schedule may, upon written approval of the Area Manager, be modified to account for these events. A 20-day flexibility period will be allowed, that is, 10 days prior to the start of scheduled use and 10 days at the end of the scheduled use, without prior notification of the authorized officer. Average allowable utilization within the seedings will not exceed 60 percent.

Due to the currently unfenced nature of the allotment, a certain amount of cattle drift is unavoidable and expected. The permittees will work in good faith to control this drift and follow as closely as possible the proposed grazing plan as specified herein. Until the proposed fencing is in place, livestock movements will primarily be controlled through available stockwater sources and stockwaters will only be used as identified in Tables 12 and 13.

E. PROPOSED RANGE IMPROVEMENTS

Range improvement projects necessary for implementation of this interim AMP are illustrated in Map 11 and are listed and prioritized in Appendix E. Proposed range improvement projects necessary for the implementation of this plan shall be completed as soon as possible, pending the availability of funds. Expected completion dates for these improvements are also listed in Appendix E.

V. STUDIES AND EVALUATION

The studies described below are designed to monitor the attainment of the specific management objectives developed for this allotment. The selection of studies methodology and key area/key species to which these studies are correlated was accomplished in accordance with procedures established by the Nevada Rangeland Monitoring Handbook (NRMH), BLM Manual 4400, (BLM Manual Handbook H-4410-1, and Technical References TR4400-1 through 7). The actual location of key areas and selection of key species for each area will be agreed upon jointly with the permittees. BLM will notify the livestock permittees to coordinate key area selection and the actual reading of the monitoring studies. Analysis of the monitoring data to determine compliance or non-compliance with the allotment specific objectives will also include consideration of the necessary revisions to these objectives based on the determination of site potentials.

A. UTILIZATION

Utilization studies will be conducted to assist with grazing use adjustments and/or changes in the grazing management system. The method for documenting utilization of grasses and forbs will be the key forage plant technique described in the NRMH and BLM Manual TR 4400-3. As a minimum, Cole Browse Transects (as per BLM Manual 6600) will be conducted on upland browse sites utilizing bitterbrush as a key species (deer winter range).

Utilization transects will be conducted at two different times during the year: prior to cattle use; and again, within 10 days following the removal of cattle. The BLM will make every effort to coordinate the reading of utilization studies with the permittee.

Use pattern maps will also be made each year following the end of the grazing season or growing season, whichever occurs last. These maps will assist in identifying distribution problems within each pasture or use area.

The key species which will be monitored in each key area along with target utilization levels are listed in Appendix F.

B. ACTUAL USE

An Actual Grazing Use Report will be submitted by each permittee within 15 days following the end of each grazing operation each year, or:

- a) by 4/15 each year for the Spruce Mountain yearlong cattle operation; and
- b) by 6/15 each year for the Secret Pass fall/winter/spring cattle operation.

C. TREND

Trend will be measured by the Quadrat Frequency Method as per NRMH and TR 4400-4. Trend studies will continue to be read as scheduled in the monitoring file. These trend studies will be read in consultation with the permittee and other affected interests.

D. CONDITION

Ecological range condition will be determined to establish a baseline from which progress towards the desired plant community for each key area will be measured. This information will be available and used to develop long-term allotment objectives prior to the evaluation of monitoring data. Range condition will be measured as per Bureau policy outlined in the NRMH and Bureau manuals. Condition transects will be reevaluated upon measurement of a statistically significant change in frequency data.

VI. ANNUAL BILLING

Grazing fees on Spruce Allotment will follow one of the two following options: 1) payment of grazing fees will continue as a monthly payment; or 2) will be paid in full at the start of the grazing season and then reconciled at the conclusion of the grazing season (reconciliation of these before-the-fact billing options will be through submittal of actual use records as discussed in Section V.B. above).

VII. COOPERATOR'S AND BLM'S RESPONSIBILITIES

1. Von and Marian Sorensen will:

a) Be responsible for livestock control as set forth in this Allotment Management Plan.

b) Keep an up-to-date Actual Use Record during the grazing season and submit this record for final utilization computation and billing at the end of the grazing season. This record will be submitted to the BLM Elko District Office within 15 days following removal of all livestock from the allotment or no later than 6/15 for the Secret Pass herd, and, 4/15 for the Spruce Mountain herd.

- c) Be responsible for maintaining all structural range improvement projects to Bureau standards.
- d) Ensure that all salting for livestock is done in conjunction with the BLM to promote good livestock distribution and away from wet and/or dry meadows and live waters during the Interim AMP.
- e) Grant easements for all range improvement projects funded in whole or in part by BLM which cross their deeded lands.
- f) Ensure that all stocktroughs at water facilities utilized during the second half of the winter grazing season are left full of water in the spring when cattle are removed.
- 2. The Bureau of Land Management will:
 - a) Initiate and ensure compliance with the grazing system.
 - b) Conduct resource studies and allotment evaluation in conjunction with affected interests.
 - c) Maintain all land treatment projects.
 - d) Modify the plan when resource studies or other circumstances indicate that progress towards the objectives are not being made or that multiple-use values are not being maintained.
 - e) Acquire easements for improvement projects crossing deeded lands.
 - Install all range improvements in compliance with the Wells RMP.

VIII. APPROVALS

We, the undersigned, do hereby agree to and accept this Spruce Interim Allotment Management Plan. We understand that the grazing privileges so authorized herein are subject to the provisions of the Code of Federal Regulation (43 CFR 4100) which deals with grazing use on the public lands. It is also agreed that the terms and conditions of this agreement shall be binding upon the permittee, their respective heirs, executors, administrators, successors in interest or assigns unless terminated by BLM. The BLM may revise or terminate this plan or develop new plans from time to time after review and careful and considered consultation, cooperation and coordination with the parties involved, including the grazing permittees.

Von L. Sorensen, Permittee

Bill Baker, Manager Wells Resource Area

<u>April 13</u> 1993 Date

Spruce Interim AMP

SPRUCE AMP LIST OF MAPS

MAP NO. DESCRIPTION

- 1 General Location Map
- 2 Topography/Boundary Map
- 3 Old Range Unit Boundaries
- 4 Existing Range Improvements
- 5 Major Subunit Boundaries
- 6 Mule Deer Habitat
- 7 Antelope and Sagegrouse Habitats
- 8 Wild Horse Herd Use Areas
- 9 Wilderness Study Areas
- 10 Spruce Allotment and Subunit Boundaries
- 11 Proposed Range Improvements



SPRUCE ALLOTMENT




SPRUCE AMP LIST OF TABLES AND FIGURES

TABLE DESCRIPTION

- 1 Historical Use Summary Griswold Livestock Co.
- 2 Historical Use Summary Robison/Sorensen Partnership
- 3 Historical Use Summary Loyd Sorensen
- 4 Historical Use Summary Sorensen and Sorensen
- 5 Historical Use Summary Von and Marian Sorensen
- 6 Historical Use Summary Sorensen/Jones
- 7 Historical Use Summary Kenneth Jones
- 8 Historical Use Summary Spruce Allotment
- 9 Active Use Summary Spruce Allotment
- 10 Vegetation Type/Acreage Summary Spruce Allotment
- 11 Initial Stocking Rates Under the Interim AMP
- 12 Grazing Schedule for the Spruce Mountain Herd
- 13 Grazing Schedule for the Secret Pass Herd
- 14 Estimated Seeding Requirements to Defer Spring Livestock Grazing In Spruce Allotment

FIGURE DESCRIPTION

1 Historical Summary of Active Use

1

HISTORICAL ACTIVE USE GRISWOLD LIVESTOCK COMPANY 1935-1950

£

1

i. \$

-

i

Dates	Spg/Fall Numbers	Summer Numbers	Available AUMS	Active Use AUMS	Non-Use AUMS	% Active Use	Remarks
08/01/35-03/31/36 04/01/36-03/31/37 04/01/37-01/31/38	8,200 SH 8,700 SH 7,700 SH	1,500 SH 1,500 SH 1,000 SH		6,280 8,050 5,260		-	Maximum # are spg. & fall use; Winter use in Ely Dist.; Estab. "Priority Use"
04/01/38-11/15/38 04/01/39-11/15/39 04/01/40-11/15/40 04/01/41-11/15/41 04/01/42-11/15/42 04/01/43-03/01/44	8,100 SH 8,000 SH 8,000 SH 8,000 SH 9,000 SH 10,000 SH	1,000 SH 1,500 SH 1,500 SH 1,500 SH 1,650 SH 2,000 SH	9,419	5,410 5,500 5,500 5,500 6,150 8,665	 	923	10 yr. grazing permit issued in Elko for 9,419 AUMs Spring & summer use in Spruce & Shafter units. Winter use in Currie unit.
04/01/44-03/31/45 04/01/45-03/31/46 04/01/46-03/31/47 04/01/47-03/31/48 04/01/48-03/31/49 04/01/49-03/31/50	10,000 SH 10,000 SH 10,000 SH 10,000 SH 10,000 SH 10,000 SH	2,000 SH 2,000 SH 2,000 SH 2,000 SH 2,000 SH 2,000 SH	9,419 9,419 17,484 17,484 17,484 17,484	8,665 8,665 16,000 15,000 15,000	754 754 1,484 2,484 2,484 2,484	921 921 923 861 861 861	Permit transferred to Robinson/Sorensen (17,919 AUMs Spruce Unit & 4,656 AUMs

Currie Unit)

HISTORICAL USE ROBISON/SORENSEN PARTNERSHIP 1950-1974

2

Dates	Maximum Numbers (Winter)	Minimum Numbers (Summer)	Avail AUMS	able	Active Use	Non-Use AUMS	Z Active Use	Remarks
04/01/50-03/31/51	13,500 SH 100 CA	3,000 SH TOTAL	Spruce Currie	17,919 <u>4.565</u> 22,484	21,050 SH 900 CA 21,950 Total	534	982	87% F.R.
04/01/51-03/31/52	13,500 SH 100 CA	3,000 SH		22,484	21,050 SH 900 CA 21,950 Total	534	982	87% F.R.
04/01/52-03/31/53	12,920 SH	3,000 SH Total	Spruce Currie UT/ID	15,669 4,565 <u>1,508</u> 27,742	21,811 SH		100.3%	823 F.R.
04/01/53-03/31/54	12,000 SH 10 H	3,000 SH		21,742	18,834 SH <u>104</u> H 18,938 Total	2,804	87%	865 F.R.
04/01/54-03/31/55	12,000 SH 10 H	3,000 SH		21,742	18,834 SH 104 H 18,938 Total	2,804	87%	863 F.A.
04/01/55-03/31/56	12,000 SH 10 H	3,000 SH	Spruce Currie UT/ID	15,669 4,565 1,778 22,012	18,834 SH <u>104</u> H 18,938 Total	3,074	86%	861 F.R.
04/01/56-03/31/57	12,000 SH 10 H	3,000 SH		27,519	18,834 SH <u>104</u> H 18,938 Total	8,581	69%	86% F.R.
04/01/57-03/31/58	12,000 SH 10 H	3,000 SH		27,519	18,834 SH 104 H 18,938 Total	8,581	69%	86% F.R.
04/01/58-03/31/59	12,000 SH 10 H	3,000 SH		27,519	18,834 SH <u>104</u> H 18,938 Total	8,581	69%	86% F.R.
04/01/59-03/31/60	12,000 SH 10 H	3,000 SH		27,519	18,903 SH <u>104</u> H 19,007 Total	8,512	69\$	86% F.R.
04/1/60-03/31/61	12,000 SH 10 H	3,000 SH		27,519	18,903 SH <u>104</u> H 19,007 Total	8,512	69.8	863 F.R.
04/01/61-03/31/62	15,000 SH 10 H	3,000 SH		27,519	21,635 SH 101 H 21,722 Total	5,780	793	86% F.R.

HISTORICAL USE ROBISON/SORENSEN PARTNERSHIP (Continued) 1950-1974

s,

Dates	Maximum Numbers (Winter)	Minimum Numbers (Summer)	Available AUMS		Active Use AUMS	Non-Use AUMS	Z Active Use	Remarks
04/01/62-03/01/63	15,000 SH 10 H	3,000 SH	27,7	784	23,939 SH <u>107</u> H 24,046 Total	3,738	86%	89% F.R.
04/01/63-03/31/64	15,000 SH 10 H	3,000 SH	30,9	940	24,035 SH 107 H 24,142 Total	6,798	782	893 F.R.
04/01/64-03/31/65	15,000 SH 10 H	3,000 SH	Lamoille Currie 8,2 Spruce 15,9 Med. Butte 2,9 UT/ID 3,9 N-4 2 30,2	90 293 579 531 534 270 297	24,274 SH <u>107</u> H 24,381 Total	5,916	80%	892 F.R.
04/01/65-02/28/66	15,000 SH 10 H	3,000 SH	30,3	207	20,107 SH 984 20,205 total	10,002	67%	891 F.R.
03/01/66-02/28/67	13,000 SH	2,000 SH	Currie 13, UT/ID 3, Med. Butte 2, Spruce <u>10,</u> 30,	581 534 531 579 225	19,634 SH	10,591	653	893 F.R.
03/01/67-02/28/68	13,500 SH 15 H	2,000 SH	30,3	225	19,799 SH <u>101</u> H 19,900 Total	10,325	66%	89% F.R.
03/01/68-02/28/69 03/01/69-02/28/70	13,500 SH 11,070 SH 15 H	2,000 SH 3,000 SH	30,3 30,3	225 225	19,238 SH 23,647 SH <u>161</u> H 23,808 Total	10,987 6,417	78% 79%	89% F.R. 89% F.R.
03/01/70-02/28/71	10,656 SH	1,500 SH	30,	225	16,498 SH	13,727	55%	89% F.R.
03/01/71-02/28/72 03/01/72-02/28/73 03/01/73-02/28/74	9,856 SH 4,700 SH 2,950 SH	1,700 SH 1,100 SH 3,000 SH	29, 29, 29,	948 948 948	16,271 SH 14,589 SH 2,936 SH	13,874 15,359 27,012	542 492 102	1003 F.R. 1003 F.R. 1003 F.R. - Permit transferred to Loyd Sorensen

Table 3 - Spruce AMP Pg. 1 of 2

	· . ·		LOYD SORENSEN 1973-1986		×	
Dates	Maximum numbers (Beginning winter Numbers)	Available AUMS	Active Use AUMS	Non-Use AUMS	Z Active Use	Remarks
11/21/73-02/28/74	350 SH .250 CA	14,974 Act. <u>138</u> Susp. 15,112 Total	210 SH <u>817</u> CA 1,027 Total	13,947	71	100% F.R. Cattle licensed as tempor- ary pending completion of an environmental assessment for a change in kind of livestock.
03/01/74-02/28/75	3,250 SH 200 CA	14,974 Act.	4,766 SH <u>1,350</u> CA 6,116 Total	8,858 SH	41% Last year for summer	100% F.R. sheep on Spruce Mtn.
03/01/75-02/28/76	2,910 SH 300 CA	14,974 Act.	4,115 SH <u>1,690</u> CA 5,805 Total	9,169	391	1001 F.R.
03/01/76-02/28/77	2,700 SH 240 CA	14,974 Act.	2,072 SH 1,488 CA 3,560 Total	11,414	241	100% F.R. Used Boone Springs Allotment for 1200 AUMs TNR w/sheep 12/16-2/28
03/01/77-02/28/78	2,525 SH 340 ca	14,974 Act.	2,628 SH <u>1,831</u> CA 4,459 Total	10,515	30%	100% F.R. Used 240 AUMs TNR on Boone Springs Allot. w/sheep
03/01/78-02/28/79	2,256 SH 260 CA	14,974 Act.	3,164 SH <u>1,734</u> CA 4,898 Total	10,076	332	1003 F.R.
03/01/79-02/28/80	1,290 SH 300 CA	14,974 Act.	2,184 SH 1,800 CA 3,984 Total	10,990	27%	100% F.R.
03/01/80-02/28/81	1,731 SH 310 CA	14,974 Act.	2,508 SH <u>1,944</u> CA 4,452 Total	10,522	302	100% F.R.
03/01/81-02/28/82	2,220 SH 300 CA	14,974 Act.	1,846 SH <u>1,880</u> CA 3,726 Total	11,243	252	100% F.R. Used Boone Springs Allot. for 1,110 AUMs TRN w/sheep 12/16-2/28

HISTORICAL USE

1

1

1

	HISTORIC	AL USE
LOYD	SORENSEN	(Continued)
	1973-1	986

ļ

-

Dates	Maximum numbers (Beginning winter Numbers)	Available AUMS	Active Use AUMS	Non-Use AUMS	Z Active Use	Remarks
03/01/82-02/28/83	4,270 SH	14,974 Act.	4,301 SH 900 CA 5,201 Total	9,773	35%	- All Loyd Sorensen's cattle licensed on Sorensen/JonesPermit for winter 1982-83, cattle use (AUMs) is carry over from winter 81-82. - Used Boone Springs Allot. for 361 AUMs TNR (sheep).
03/01/83-02/28/84	3,376 SH 966 CA	14,974 Act.	6,126 SH <u>3,806</u> CA 9,932 Total	5,042	66%	566 cattle from 12/1-2/29 are Von Sorensen's licensed on Loyd Sorensen's Permit (1,698 AUMs).
03/01/84 - 02/28/85	3,287 SH 515 CA	14,974	5,318 SH <u>4,225</u> CA 9,543 Total	5,431	642	- Grazed Boone Springs Allot. For 706 AUMs TNR 12/21-2/28 - Von Sorensen licensed on Loyd Sordensen's permit for 617 CA 1/1-2/28 1,234 AUMs.
03/01/85- 02/28/86	3,060 SH 470 CA	14,974	2,490 SH <u>3,030</u> CA 5,570 Total	9,404	37%	- Grazed Boone Springs Allot. for 3,714 aums TNR 11/7-2/28 (Sheep)
03/01/86 - 02/28/87	3,073 SH 500 CA	14,974	3,832 SH 2,543 CA 6,380 Total	8,594	43%	- Grazed Curtis Springs Allot. for 130 AUMs TNR 3/23-1/2 (Sheep)

Table 4 - Spruce AMP Pg. 1 of 1

ł

1

HISTORICAL USE SORENSEN AND SORENSEN 1960-1968

1

	Mandaua	Total	Active lice	Non-lise	% Active	
Dates	Numbers	AUMS	AUMS	AUMS	Use	Remarks
1960	0	7,000	0	7,000	0	
1961	0	7,000	0	7,000	0	Winter cattle use licensed
1962	0	7,000	0	7,000	0	as temporary pending com-
1963	٥	7,000	0	7,000	0	pletion of an EA for change
12/20/64-02/28/65	500 CA	2832-UT/ID 654 UT/ID Trail 7.097 Currie	1,150 CA	9,433	112	in kind.
		10,583 Total				
03/01/65-02/28/66	500 CA	10,583	3,547 CA	7,035	342	• -
03/01/66-02/28/67	600 CA	9,944	4,250 CA	5,694	432	•
03/01/67-02/23/68	650 CA	5,579 Currie 2,904 UT/ID 8,583 Total	6,395 CA	2,188	752	" Permit transferred to Von & Marian
					4,848 1,235 247 6,083	Sorensen - Currie/Mid. Butta - Ut/ID (Active) - " (Susp.) - Total Active

247 - Total Susp.

i

;

HISTORICAL USE VON AND MARIAN SORENSEN 1968-1986

۲.

......

*

Dates	Maximum Numbers	Total Available AUMS	Active Use AUMS	Non-Use AUMS	Z Active Use	Remarks
02/15/68-02/29/68	237 CA	6,083	119	5,964	21	- Carry over from 1968 Sorensen/Sorensen Winter Permit
03/01/68-02/28/69	750 CA	6,083	7,927		129%	- Yearlong cattle use licensed as temp. pend- ing comple- tion of EA. - 1,744 AUMs TNR
03/01/69-02/28/70	800 CA	6,083	7,750		1272	- Cattle use temp. pend- ing EA. - 1667 AUMs TNR
03/01/70-02/28/71	800 CA	6,083	6,069	14	99.82	- Cattle use temp. pend- ing EA.
03/01/71-02/28/72	600 CA	6,083	3,438	2,645	57%	11
03/01/72 02/28/73	615	6,083	6,065	18	99.7%	H
03/01/73-10/31/73	575 CA	6,083	4,600	1,483	76%	11
03/01/74-12/06/74	620 CA	6,083	5,526	457	92%	11
03/01/75-11/30/75	675 CA	6,083	5,580	503	92%	п
03/01/76-11/20/76	778 CA	6,033	6,074	9	99.92	
03/01/77-02/28/78	595 CA	6,083	6,082	1	100%	н
03/01/78-02/28/79	694 CA	6,083	6,082	1	100%	•
03/01/79-02/28/80	574 CA	6,083	6,012	71	99%	•
03/01/80-12/31/80	552 CA	6,083	5,393	690	893	×
03/01/81-02/28/82	606 CA	6,083	6,733		1112	
03/01/82-11/30/82	606 CA	6,083	5,326	757	88%	- Cattle use temp. pend- ing EA. - 631 cattle 12/1-2/28 (1922 AUMs) on

Sorensen/JonesPermit

HISTORICAL USE VON AND MARIAN SORENSEN (Continued) 1968-1986

1

Dates	Maximum Numbers	Total Available AUMS	Active Use	Non-Use AUMS	% Active Use	Remarks
03/01/83-02/28/84	631 CA	6,083	5,598	- 485	92%	- Cattle use temp. pend- ing EA. - 566 cattle 12/1-2/29 on L. Sorensen Permit (1,698 AUMs)
03/01/84-02/28/85	692 CA	7,154	6,725	429	942	- Cattle use temp. pend- EA. - 1234 AUMs used on L. Sorensen Permit
03/01/85-02/28/86	617 CA	7,154	6,953	201	97%	- Cattle use temp. pend- ing EA.
03/01/86-02/29/87	720 CA	7,154	6,686	468	932	•

·

Table 6 - Spruce AMP Pg. 1 of 2

1

1

HISTORICAL USE SORENSEN/JONES 1973-1983

÷

	Maximum	Total			1		
	Numbers	Available	Active Use	Non-Use	Active		
Dates	(winter use)	AUMS	AUMS	AUMS	Use	Remarks	
10/13/73-02/28/74	3,400 SH	14,974 Act.	3,268 SH	8,423	442	- Cattle use	
	880 CA	139 Susp.	3,283 CA			licensed	
			6,551 Total			temp. pend- ing	
						for charge in kind	
						for enange in kind	
03/01/74-06/30/74	3.040 SH	14,974	4,476 SH	7,380	51%	•	
11/01/74-02/28/75	845 CA		3,118 CA				
			7,594 Total				
03/01/75-06/30/75	2.550 SH	14,974	4.137 SH	6,891	54%	•	
10/23/76-02/28/76	925 CA		3,946 CA				
			8,083 Total			•.	
03/01/76-06/30/76	2,475 SH	14,974	4,410 SH	6,126	59%	•	
10/26/76-02/28/77	1,045 CA		4,438 CA				
			8,848 Total				
03/01/77-06/22/77	2.800 SH	14,974	4,035 SH	8,302	45%	•	
10/30/77-02/28/78	461 CA		2.637 CA				
			6,672 Total				
03/01/78-06/30/78	3,106 SH	14.974	4.522 SH	7,809	482	•	
10/28/78-02/28/79	373 CA		2.643 CA				
			7,165 Total				
03/01/79-07/06/79	2 990 58	14.503 Act.	4.594 SH	7.279	50%	**	
11/01/79-02/28/80	486 CA	135 Susp.	2.635 CA				
			7,229 Total			· · · · ·	
03/01/80-06/30/80	2,539 SH		3,645 SH				
11/09/80-02/28/91	604 CA	14,508	3,166 CA	7,697	47%	•	
			6,811 Total				
03/01/81-05/31/81	2.700 SH	14,508	2,736 SH	9,980	31%		
11,02/81-02/28/82	250 CA	A	1,792 CA				
			4.528 Total				

- درمنه

i . .

;

HISTORICAL USE SORENSEN/JONES (Continued) 1973-1983

í

ŝ

-and

Dates	Maximum Numbers (winter use)	Total Available AUMS	Active Use	Non-Use AUMS	Z Active <u>Use</u>	Remarks
03/01/82-07/03/82 11/16/82-02/28/83	1,216 CA	14,508	2,093 SH 4,544 CA 6,637 Total	7,871	462	 No sheep on permit for winter of 82-83 sheep use is carryover from winter of 81-82 Portion of permit transferred to Yon Sorensen. 631 CA 12/1-2/28 are V. & M. Sorensen Lic. on Sor./Jones permit (1922 AUMs)

Table 7 - Spruce AMP Pg. 1 of 1

HISTORICAL USE KENNETH JONES 1983-1986

ł

:

.,

	Maximum Numbers	Total Available	Active Use	Non-Use	1 Active	
Dates	(winter use)	AUMS	AUMS	AUMS	Use	Remarks
03/01/83-05/30/83 11/28/83-02/28/84	·345 CA	13,437 Act. 125 Susp.	2,000 CA	11,437	15%	- Cattle use licensed as temp. pend- ing comple- tion of EA for change in kind.
03/01/84-06/03/84 11/21/84-02/28/85	355 CA	13,437	2,253 CA	11,184	172	
03/01/85-05/31/85 11/23/86-02/28/86	370 CA	13,437	2,274	11,163	172	·
03/01/86-05/09/86 11/20/86-02/28/87	415 CA	13,437	2,248	11,189	17%	•

HISTORICAL USE SUCHARY SPRUCE ALLOTHENT ACTIVE DEE 27 REND OF LIVESTOCE (ALMs) 1963 - 1986

.....

.

Table 8 - Spruce AMP Pg. 1 of 1

		ROBISON/	LOYD SCREE:SEX	V. & M. SORETSEN	SORE::SEX/	JONES	TOTAL
	1968	30225AV 192385H 0CA		6083AV 057 7827CA			36308AV 1923858 7827CA
_	1969	30225AV 236475R 161H		6083AV 05E 7750CA			36308AV 236475H 7911CA4H
	1970	23808TOT		7750TOT			31558TOT 36308AV
		0CA 16498101		6069CA 6069TOT			6069CA 22567T0T
	1971	29948AV 162715H 0C1 16271TOT		6083AV 0SH 3438CA 3438TOT			3603LAV 16271SE 3438CA 19709TOT
	1972	29948AV 145895H 0CA 14589TOT	12	6083AV DSE 6065CA 6065TOT		•	36031AV 1458958 6065CA 20654TOT
	1973		14974AV 31465H 817CA 3963TOT	6083AV 058 4600CA 4600TOT	14974AV 32685E 3283CA 6551101		36031AV 64145H 8700CA 15114TOT
	1974		14974AV 47665H 1350CA 6116TOT	6083AV 05H 5626CA 5626TOT	14974AV 44765H 3118CA 7594TOT		36031AV 92425H 10094CA 19336TOT
	1975		14974TOT 41155H 1690CA 5805TOT	6083TOT 05E 5580CA 5580TOT	14974TOT 41375H 3946CA 8083TOT		36031707 82525H 11216CA 19468TOT
_	1976		14974AV 20725H 1488CA 3560TOT	6083AV 058 6074CA 6074TOT	14974AV 44105H 4438CA 8848TOT		36031AV 64825H 12000CA 18482TOT
	1977		14974AV 26255H 1831CA 4459TOT	6083AV 05H 6082CA 6082TOT	14974AV 49355H 2637CA 6672TOT		36031AV 6663SH 10550CA 17213TOT
_	1978		14974AV 31645R 1734CA 4898TOT	6083AV 05H 6082CA 6082TOT	14974AV 45225H 2643CA 7165TOT		36031AV 76865H 10459CA 18145TOT
	1979		14974AV 21345H 1800CA 3984TOT	6083AV 05H 6012CA 6012TOT	14508AV 45945H 2635CA 7229TOT		35565AV 67785H 10447CA 17225TOT
_	1980		14974AV 25085H 1944CA 4452TOT	6083AV 0SH 5393CL 5393TOT	14508AV 36455H 3156CA 6811TCT		35565AV 61535H 10503CA 16636TCT
-	1981		14974AV 18465H 1880CA 3726TOT	6083AV OSH 6733CA 6733TOT	14508AV 27365H 1792CA 4528TOT		35565AV 45825H 10405CA 14987TOT
_	1982		14974AV 4301SH 900CA 5201TOT	6083AV 0SH 5326CA 5326TOT	14508AV 2093SR 4544CA 6637TOT		35565AV 63945H 10770CA 17164TOT
-	1983		14974AV 61265H 3806CA 9932TOT	7154AV OSH 5598CA 5598TOT		13437AV 0SH 2000CA -2000CA	35565AV 61265H 11404CA 17530TOT
-	1984		14974AV 5318SH 4225CA 9543TOT	7154AV OSH 6725CA 6725TOT		13437AV OSH 2253CA 2253TOT	35565AV 53185R 13203CA 18521TOT
-	1985		14974AV 24905H 3080CA 5570TOT	7154AV OSH 6953CA 6953TOT		13437AV OSH 2274CA 2274TOT	35565AV 24905H 12307CA 14797TOT
• -	1986		14794AV 3832SH 2548CA 63S0TOT	7154AV OSH 6686CA 5936T01		13437AV OSH 2248CA 2248T23	35565AV 38325H 11482CA 15314T0T

AV = Available Active Grating Privileges (AUSs) SH = Active sheen use (AUSs) CA = Active cartle use (AUSs) TOT = Total Active Use (AUSs)

٠ .

1 I.,

ACTIVE USE SUMMARY SPRUCE ALLOTMENT 1968 - 1986

Table 9 - Spruce AMP Pg. 1 of 1

į.

1:

DATES	TOTAL AVAILABLE AUMS	TOTAL AVE. ACTIVE USE (AUMs)	% OF TOTAL AVAILABLE AUMs	AVERAGE ACTIVE SHEEP USE (AUMs)	% OF TOTAL AVERAGE ACTIVE USE	AVERAGE ACTIVE CATTLE USE (AUMs)	% OF TOTAL Average Active USE
1968 - 70	36,308	27,063	75%	19,794	73%	7,269	27%
1971 - 78	36,031	18,515	51%	9,450	51%	9,065	49%
1979 - 86	35,565	16,524	47%	5,209	32%	11,315	68%

SUMMARY OF ACREAGES BY VEGETATIVE TYPES AND SUBUNITS FOR THE SPRUCE ALLOTMENT

1

.::

UNIT - A

ł

			ACRES	
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL
	ADADS ODW_CHVIS	11,954	119	12,073
D056	AKAKO-OKHI-CHVIO	211	-	211
D057	ADADO ETTAS_CHUTS	1,592	-	1,592
D059	AKARO-EULAJ-CHVIO	2,503	42	2,545
D055	ARTRZ-SAVE4	1,266	16	1,282
D058	EULAS-ARTRZ	3,172	-	3,172
D0 60	SAVE4-ATCO	3,494	11	3,505
D041	ATCO-ARTR2	1,378	12	1,390
D042	CHVI8-EULAS-ARTRZ	663	-	663
E058	ATCO-ORHY-EULAS	405	-	405
D040	ATCO-ATNU2	754	-	754
D050	ATNU2	466	-	466
D048	ARTR2-ORHY-CHV18	2 400	-	2,496
D046	ARTR2-ARAR8	5 570	-	5,572'
D045	CHV18-EULA5-ATCO	950		859
D052	CHVI8-EULA5-ARAR8	009	_	3,164
D051	ARAR8-EULA5-CHV18	3,104	_	413
D049	EULA5-ORHY-ATNU2	413	2	452
D047	FUILAS-ATCO	452	-	1.347
E05/	ARTR2-EULA5-CHV18	1,347	-	1,222
E054	ARTR2-ARAR8	1,222	-	629
EUSO	APTR2-ORHY-CHVI8	629	-	717
EUS/	APTR2-CHVI8	717	-	895
0054	FILL AS-CHVI8	895	-	130
D043	PADDEN	139	-	2 21/
E062	FULAS_OPHY_CHVI8	3,214	-	5,214
E053	EULAS-APTR2-ORHY	509	-	1 225
E044	ADTRO CHUIS	1,335	-	1,335
E064	ARTR2-CHVIO	1,965	-	1,905
E061	ARTR2-ATCO	382	-	382
E060	EULAS-ATCO	16,211	481	16,692
E037	CHV18-ORHY-AICO	1.716	-	1,716
E039	ARTR2-ORHY-ATCO	2,749	-	2,749
E047	ATCO-ORHY-ATNU2	459	-	459
E041	EULA5-ORHY-ATCO	411	-	411
E042	EULA5-CHV18	611	-	611
E063	ARAR8-CHV18	345		. 345
E043	EULAS-ARTR2	877	-	877
E055	ARAR8-CHV18	2 215	-	2,215
E048	ATCO-EULA5-CHV18	2,215	_	189
E045	EULA5	103	-	231
E046	BARREN	231	_	696
F040	EULA5-ATCO	696	_	1,674
F031	CHV18-ORHY-ARAR8	1,674		3,019
E030	CHV18-ORHY-ARAR8	3,019	_	277
F038	EULA5-ATNU2	2//	-	3.304
E033	ARAR8-POSE-JUOS	. 3,304	-	1,269
EUSS	FIILA5-ORHY-CHV18	1,269	-	892
E035	ARAR8-ORHY-CHVI8	892	-	169
E034	FILLAS-ATNIL2	169	-	649
E030	FILLAS-ORHY-ARAR8	649	-	1 645
0059	ADTD2_CHUT8	1,645	-	1,045
E032	AKIK2-OIIVIO			

0.00

		ACKES			
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL	
E029	SAVE4-STHY-ATNII2	9,370	-	9,370	
E050	FILAS-ORHY-CHVI8	765	-	765	
E051	FILAS	1.180	-	1,180	
E025	EULAS-ORHY-CHV18	6,238	-	6,238	
C058	ARTR2-ORHY-EULA5	3,382	-	3,382	
E049	EULA5-ORHY-ARTR2	1,023	-	1,023	
E028	EULA5-ORHY-ARTR2	216	-	216	
E027	ARTR2-ORHY-EULA5	5,109	-	5,109	
E026	ATCO	142	-	142	
E052	ATCO-ORHY-ATNU2	1,013	-	1,013	
C049	ARTR2-EULA5-ARAR8	4,894	-	4,894	
C053	ARTR2-ATCO-SAVE4	5,310	-	5,310	
C057	EULA5-ORHY-ARTR2	878	-	878-	
C054	ARTR2-ORHY-JUOS	2,933		2,933	
C050	ATCO-ORHY-ARTR2	936	-	936	
C051	EULA5	729	-	729	
C052	ARTR2-ORHY-EULA5	1,511	-	1,511	
C055	JUOS-POSE-PIMO	1,264	-	1,264	
C056	ARAR8-ORHY-CHV18	1,759	61	1,820	
		141,428	742	142,170	

UNIT -A (continued)

UNIT - B

		ACRES		
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL
W201		088		088
KZUI	ARTRZ-POSE-ARARN (part 20%)	988	-	988
K048	ATNU2-HAGL-EULA5 (part 10%)	39	-	39
K046	ARTR2-SIHY (part 80%)	1,221	33	1,254
E071	ARAR8-ORHY-CHVI8 (part 1/3)	837	-	837
A081	ARAR8-SIHY-ARTR2	1,094	-	1,094
D097	ARAR8-CHVI8-ORHY-ATCO (part	70%)22,854	49	22,903
D093	ARAR8-ORHY-CHVI8 (part 10%)	301	-	301
D097	ATCO-ORHY-EULA5	737	-	737
D098	EULA5-ORHY-ARTR2	40	-	40
A092	ATNU2-ATCO	611	-	1 611
A094	CHV18-EULA5-ORHY	512	-	512
A095	CHVI8-EULA5-ORHY (part 10%)	825	-	825
A091	ATCO-ORHY-CHVI8 (part 50%)	3,293	-	3,293
A090	ATNU2	171	-	171

UNIT-B (continued)

			ACRES		
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL	
A089	ATNU2 (part 10%)	62	-	62	
A093	EULA5-CHVI8-AGSM	1,288	-	1,288	
1023	ATNU2-ATCO	572	-	572	
1022	EULA5-CHV18-ORHY	203	-	203	
1012	ATCO (part 80%)	1,886	-	1,886	
1021	CHVI8-ORHY-EULA5	7,274	-	7,274	
A082	EULA5-ORHY-ARTR2 (part 5%)	93	-	93	
1020	ATNU2-HAGL	208	-	208	
1019	EULA5-HAGL	433	-	433	
K044	ARAR8-CHVI8-ORHY	2,448	-	2,448	
K045	ARAR8-POSE-ATCO	261	-	261	
1029	ARAR8-ORHY-CHVI8	513	-	513	
1009	ARTR2-SIHY-GRSP	6,915	46	6,961	
1015	ATCO-ORHY-CHVI8 (part 90%)	2,993	-	2,993	
1018	ATNU2-HAGL	817	_	817	
1016	HAGL-ATCO	191		191	
1017	HAGL-ATCO	178	-	178	
C095	ARTR2-HAGL	311	1	312	
		60,169	129	60,298	

12

UNIT-C

E073	ARTR2-ORHY-CHVI8	2,328	-	2,328
E071	ARAR8-ORHY-CHVI8 (part 2/3)	1,626	-	1,626
E072	ARAR8-ORHY-CHVI8	1,283	_	1,283
D097	ARAR8-CHVI8-ORHY-ATCO (30%)	9,816	-	9,816
D093	ARAR8-ORHY-CHVI8 (part 90%)	2,707	-	2,707
A085	ARTR2-ORHY-ARAR8	590	-	590
A099	ARAR8-JUOS-ORHY	14,161	_	14,161
A095	CHVI8-EULA5-ORHY (part 90%)	7,422	-	7,422
A091	ATCO-ORHY-CHVI8 (part 50%)	3,293		3,293
A088	ATNU2	53	-	53
A087	ATNU2-HAGL	188	-	188
A086	ATNU2	49	_	49
1012	ATCO (part 20%)	471	_	471
1015	ATCO-ORHY-CHVI8 (part 10%)	333		333
K048	ATNU2-HAGL-EULA5 (part 90%)	347	_	347
K046	ARTR2-SIHY (part 20%)	313	-	313
КО47	CHVI8-ATCO-ORHY	114	-	114
K021	ARTR2-POSE-ARARN (part 80%)	3,954	_	13,954
C076	ATCO-ORHY-ATNU2	3,969	-	3,969
1013	CHVI8-EULA5	908	-	908
D100	ATNU2	363	-	363
1026	SAVE4-ATCO	574	—	574

Table 10 - Spruce AMP Pg. 4 of 9

i.

i

UNIT-C (continued)

			ACRES	
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL
τ027	CHNA2-ACSM	411	_	411
1027	SAVE4-ATNII2-ARTR2	331	_	331
1014	HACI - ATCO	336		336
1025	CHVI8_ATCA?	517	-	517
1024	ATCO_SAVE/	855	_	855
1035	HACT	503	_	503
1032	CUUTS_ FILAS	612	_	612
2020	ADADS_DOSE_CHUIS	5 582	_	582
1034	ADTD2_CUDVC0_ACCM	5 311	_	5 311
1034	CAUE/-ATCO	1 113	6	1,119
1032	SAVE4-AICO	1,115	-	1/4
3002	AICO-HAGL	419		418
097	CHVIO-EULAD-AKIKZ	2 720		2 730
K023	ARAKN-OKHY-CHV18	2,730	-	2,130
1006	AKARN-CHV18-ORHY	4,434	-	4,434
0004	GRSP-ORHY-CHV18	129	. –	129
1011	GRSP-ORHY-ARTR2	5 100	-	5 1 2 0
1001	CHV18-ORHY	5,130	-	5,130
J001	EULA5-HAGL	1/6	-	1/6
J003	CHVI8-ATCO	1,047	-	1,047
K002	EULA5-CHVI8	690	-	690
J004	ATNU2	223	_	223
C079	ATNU2	288	52	340
Y06 4	SAVE4-ARTR2-ELCI2-CHNA2	9,479	1,168	10,647
C077	EULA5-ORHY	213	9	222
C078	ATCO-ORHY-CHV18	2,060	98	2,158
A096	EULA5-ARTR2-ORHY	1,471	-	1,471
A097	ATNU2-ORHY	165		165
F061	ATCO-ARTR2-ORHY-CHV18	3,248	965	4,213
Y061	ARARN-AGSP-CHVI8	417	757	1,174
F057	AGCR-ARTRW-ORHY-ARARN	-	512	512
Y05 0	ARTR2-SIHY-CHVI8	1,747	1,030	2,777
F056	AGCR-ARTR2	77	761	838
Y06 0	ELCI2-AGROP2	276	1,052	1,328
Y05 8	SAVE4-AGCR	-	177	177
F058	CHNA2-ELCI2-SAVE4		240	240
F054	SAVE4-ATCO-ARTR2	-	378	378
F060	SAVE4-ATCO	1,065	1,130	2,195
¥057	ARTR2-ELCI2-CHNA2	-	359	359
Y05 4	SAVE4-AGCR-ARTR2		139	139
¥055	ELCI2-AGCR-ARTRW	· · · · -	656	656
F055	CHNA2-AGCR-SAVE4	-	371	371
¥053	SAVE4-ATCO	1,085	4	1,089
Y052	ARTR2-SAVE4-ELCI2-CHNA2	487	126	613
F059	ATNII2	72	12	84
Y056	ATCO-SAVE4-SIHY	489	56	545
1038	ATCO-ATNII?	658	-	658
1037	ATNII2	1.072		1.072
0003	SAVEA-ATCO-APTR?	51 754	525	52.279
0003	ATCO-ORHY-SAUEA	6 677	-	6,677
1020		306	_	306
1020	CUNTS FILLAS ADODS	210	_	218
1030		1 014	_	1 816
JU41	AICU-AINUZ-HAGL	1,010	—	1,010

.....

.

Č,

UNIT-C (continued)

1

ł

1

**

		ACRES		
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL
K001	ATCO-EULA5-SAVE4	4,438	_	4,438
K037	· ATNU2-EULA5	629	-	629
K038	ATNU2-EULA5	. 260	-	260
R002	SAVE4-ATCO	3,284	-	3,284
0002	CHNA2-ATCO-ATNU2	6,526	-	6,526
K031	ATCO-HAGT.	518		518
K029	EIII.A5	241	-	241
1004	CHVT8-ORHY-EULA5	2.089	-	2,089
K028	CHVI8-ATCO-ORHY	298	-	298
1005	CRSP-CHVI8-SAVE4	429	-	429
1008	ATCO-CHVI8-ORHY	4,169	-	4,169
K007	EIII.A 5-HAGI.	153	_	153
K008	ATNII2-EIII.A 5	66	-	66
K005	HACL-EULAS	144	-	144
x005	ATNII2	73	-	73
K000	FILLAS-ORHY-HAGL	372		372
K005	ARTR2-CRSP	169	-	169
0005	CHUT8_FIL A5_ORHY	555	_	555
v0/0	FIL A 5-ORHY-HACL	177		177
K040	ATNII2	118	-	118
K009	CAUEA-ATCO-HACI	2,763	_	2,763
1007	ATNII2_ATCO	141	_	141
1005	ATCO_ATNU2_HACL	5,222	-	5,222
3003	ADADN_ODHY_ATCO	199	-	199
K027	CUUT 8_FIII A 5_OPHY	3, 596	_	3,596
1010 V026	CHVI8_ATCO_OPHY	877	-	877
K020 V025	FILL A 5-ATCO-ATNIL?	429	-	429
K025	CHRVSQ_CRSP_ATCO	551	_	551
K024	APTR2_CRSP_CHVI8	440	-	440
K030	ATNII2	160		160
R032	ATCO	2.272	_	2,272
K030	ATNII2	114	_	114
H001	ARAR8-POSE-EIII.A5	3,786	-	3,786
K033	ATNII2-CHVI8-EIII.A5	1,156	-	1,156
T003	FILAS	2,133	_	2,133
4005	BRTE-STCO4-EIII.A5	240	_	240
r03/	ATCO-FULAS	1,174	-	1,174
K034 V035	ATNU2_FULA5	1,779	_	1,779
N000	ATCO-OBHY-AAFF	519	_	519
1000	ARAR8-BRTE-ARARN	3,997	_	3,997
H004 H007	HACI_ATNII2	215	_	215
RU07	FIL A 5_OPHY_CHVT8	171	_	171
D10/ D106	ATNUS	341	-	341
D100	ATRO-OBHY	441	_	441
B105 B104	EULA5-ORHY	600	_	600

}

Table 10 - Spruce AMP Pg. 6 of 9

1

UNIT-C (continued)

*

			ACRES	
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL

ноо8	CHV18-ARARN-ORHY-EULA5	1,558	-	1,558
H002	ATNU2-HAGL	69		69
нооз	ARTR2-SAVE4	424	-	424
Y059	ARTR2-ELCI2-SAVE4	168	308	476
A082	EULA5-ORHY-ARTR2 (part 95%)	595	-	595
C080	SAVE4-ATCO	565	391	956
C081	ATCO-SAVE4	643	536	1,179
J040	ATCO-HAGL	412	_	412
K036	ATNU2	121	-	121
A089	ATNU2	555	_	555
		229,136	11,818	240,954

UNIT-D

B077	AGCR-ARTR2	2,605	_	2,605
B079	ARTR2-ORHY-SAVE4	615	13	618
B078	CHVI8-ELCI2-SAVE4	47.3	10	483
¥051	ARTRW-POSE-CHV18	1,630	-	1,630
B081	ATCO-CHVI8-ORHY	847	-	847
B080	ATNU2-EULA5	109	-	109
F062	SAVE4-ARTR2-CHNA2	6,473	_	6,473
F050	ATCO-ORHY-EULA5	1,204	-	1,204
F048	ARAR8-ORHY-ARTR2	716	-	716
Y049	AGCR-ORHY-ARTRW	2,734	-	2,734
F052	AGCR-ORHY-ARTR2	342	-	342
F053	ARTR2-AGCR-ATCO	1,558	-	1,558
F046	ARTR2-POSE-HAGL	4,343	-	4,343
F049	ARTR2-POSE-EULA5	288	-	288
Y048	EULA5-SIHY-HAGL	497	-	497
¥047	HAGL-EULA5-ARTR2	1,238	-	1,238
F047	ATCO-ORHY-HAGL	144	-	144
¥062	SAVE4-SIHY-ATCO	7,758	-	7,758
¥065	SAVE4-ATNU2-SUAED	3,802		3,802
F063	BARREN	1,090		1,090
F045	ATCO-ORHY	101	-	101
¥045	ARTR2-HAGL-ORHY	1,140	-	1,140
		39 697	23	39,720

!

UNIT-E

5

*

		ACRES	
VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL
WOS BING COS	21 557	/ 01	01 000
.JUUS-PIMU-AGSP	21,557	421	21,998
ARAR8-POSE-JUOS	9,345	-	9,345
ARAR8-JUOS-AGSP	5,565	53	5,618
ARTR2-AGSP-ARARN	10,816	471	11,287
ARAR8-AGSP-PIMO	300	-	300
JUOS-STCO4-PIMO	797	-	797
JUOS-AGSP-ARAR8	3,853	41	3,894
ARAR8-AGSP-CHGR6	2,288	78	2,366
JUOS-PIMO-AGSP-ARTR2	43,600	486	44,086
ARAR8-AGSP-ARTR2	8,742	64	8,806
ARARN-ORHY-JUOS	8,287	-	8,287
ARARN-AGSP-JUOS	3,936	1,296	5,232
JUOS-POSE-PIMO	760	-	760
JUOS-ARAR8-ORHY	184	-	184
	120,050	2,910	122,960
	VEGETATIVE ASPECT TYPE .JUOS-PIMO-AGSP ARAR8-POSE-JUOS ARAR8-JUOS-AGSP ARTR2-AGSP-ARARN ARAR8-AGSP-PIMO JUOS-STCO4-PIMO JUOS-AGSP-ARAR8 ARAR8-AGSP-CHGR6 JUOS-PIMO-AGSP-ARTR2 ARAR8-AGSP-ARTR2 ARAR8-AGSP-ARTR2 ARARN-ORHY-JUOS ARARN-AGSP-JUOS JUOS-POSE-PIMO JUOS-ARAR8-ORHY	VEGETATIVE ASPECT TYPE BLM .JUOS-PIMO-AGSP 21,557 ARAR8-POSE-JUOS 9,345 ARAR8-JUOS-AGSP 5,565 ARTR2-AGSP-ARARN 10,816 ARAR8-AGSP-PIMO 300 JUOS-STC04-PIMO 797 JUOS-AGSP-ARAR8 3,853 ARAR8-AGSP-CHGR6 2,288 JUOS-PIMO-AGSP-ARTR2 43,600 ARAR8-AGSP-CHGR6 2,288 JUOS-PIMO-AGSP-ARTR2 8,742 ARAR8-AGSP-JUOS 3,936 JUOS-POSE-PIMO 760 JUOS-ARAR8-ORHY 184	ACRES VEGETATIVE ASPECT TYPE BLM PRIVATE .JUOS-PIMO-AGSP 21,557 421 ARAR8-POSE-JUOS 9,345 - ARAR8-JUOS-AGSP 5,565 53 ARTR2-AGSP-ARARN 10,816 471 ARAR8-AGSP-PIMO 300 - JUOS-STC04-PIMO 797 - JUOS-AGSP-ARAR8 3,853 41 ARAR8-AGSP-CHGR6 2,288 78 JUOS-PIMO-AGSP-ARTR2 43,600 486 ARAR8-AGSP-ARTR2 8,742 64 ARARN-ORHY-JUOS 8,287 - ARARN-AGSP-JUOS 3,936 1,296 JUOS-POSE-PIMO 760 - JUOS-ARAR8-ORHY 184 -

UNIT-F1

K043	JUOS-ARTR2-ORHY	4,432	-	4,432
1028	PIMO-JUOS-ARAR8-ORHY	4,359	-	4,359
K042	ARAR8-SIHY	363	-	363
K041	JUOS-ORHY-CHVI8 (part 90%)	3,894	-	3,894
K020	PIMO-JUOS-POSE-ARTR2 (part 90)%) 5,005	-	5,005
K018	ARTR2-AGSP-ARARN (part 90%)	605	-	605
K017	PIMO-JUOS-POSE-ARARN (part 10)%) 1,909	-	1,909
		20,567	-	20,567

•

UNIT-F2

.

K041	JUOS-ORHY-CHVI8 (part 10%) 433		433
K017	PIMO-JUOS-POSE-ARARN (part 90%)17,079	101	17,180
K019	ARTR2-AGSP-PIMO-JUOS 1,943	<u> </u>	1,943
K018	ARTR2-AGSP-ARARN (part 10%) 67	-	67
K020	PIMO-JUOS-POSE-ARTR2 (part 10%) 556	-	556
K022	PIMO-JUOS-POSE-ARARN 2,086	-	2,086
	22,164	101	22,265

i.

UNIT-G

			ACRES	
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL
E059	JUOS-ARAR8-ORHY	27,729	222	27,951
E065	ARAR8-AGSP-SYAL	4,574	-	4,574
D044	ARAR8-ORHY-JUOS	5,878	12	5,890
		38,181	234	38,415

UNIT-H

D081	ARAR8-JUOS-SIHY	754	_	754
D091	ARAR8-AGSP-ARTR2	653	_	653
D053	ARTR2-ORHY-ARAR8	2,302	7	2,309
D061	ARTR2-SIHY	4,202	-	4,202
D063	ARAR8	378	-	378
D085	ATCO	1,982	-	1,982
D087	ARTR2-ARAR8	5,847	-	5,847
D064	ARTR2-CHVI8	426	-	426
D067	ARAR8-ARTR2	2,738	_	2,738
D084	SAVE4-DIST-ATCO	2,644	-	2,644
D065	ATCO-ORHY-CHV18	1,226	-	1,226
D083	ATCO-CHVI8	3,859	-	3,859
D089	ARTR2-ARAR8	2,194	-	2,194
D080	ARTR2-ORHY-ARAR8	4,896	-	4,896
D090	ARAR8-POSE-JUOS	5,915	-	5,915
D092	JUOS-POSE-PIMO	697	-	697
D073	ARAR8-ORHY-JUOS	1,874	3	1,877
D074	ARTR2-POSE-ARAR8	1,566	_	1,566
D075	ARTR2-ATCO-POSE	2,611		2,611
D082	ARAR8-SIHY-ARTR2	3,448	-	3,448
D079	ATCO-EULA5-SAVE4	5,260	-	5,260
D066	ARTR2-AAFF	1,642	-	1,642
D077	ARTR2-EULA5	2,067	-	2,067
D078	ATNU2-ORHY	63	-	63
D088	BARREN	84	-	84
D062	ARTR2	2,935	-	2,935
D068	ARTR2-CHV18-ARAR8	4,641	-	4,641
D086	HAGL-ARTR2	238	-	238
D069	ATNU2-EULA5	196	-	196
D076	ARAR8-POSE	1,118	-	1,118
		68,456	10	68,466

Table 10 - Spruce AMP Pg. 9 of 9

1

UNIT-I

			ACRES	
SWA NUMBER	VEGETATIVE ASPECT TYPE	BLM	PRIVATE	TOTAL
F020	ARTR2-ARAR8	5,513	-	5,513
F019	ARAR8-ORHY-CHVI8	3,442	26	3,468
F021	ARAR8-POSE-JUOS	3,383	132	3,515
F022	JUOS-POSE-ARAR8	272	-	272
		12,610	158	12,768

-	-	-
UIN		

K016 PIMO	JUOS-ARARN-AGSP-POSE	25,998	-	25,998
-----------	----------------------	--------	---	--------

UNIT-K

APAPS_OPHY_THOS	16 031		16 031
AKAKO-OKHI-JUUJ	10,051	-	10,051
ARTR2-ORHY	248	-	248
ARAR8-ORHY-ARTR2	2,044	-	2,044
ARAR8-ORHY-ARTR2	363	-	363
	18,686	_	18,686
	ARAR8-ORHY-JUOS ARTR2-ORHY ARAR8-ORHY-ARTR2 ARAR8-ORHY-ARTR2	ARAR8-ORHY-JUOS 16,031 ARTR2-ORHY 248 ARAR8-ORHY-ARTR2 2,044 ARAR8-ORHY-ARTR2 363 18,686	ARAR8-ORHY-JUOS 16,031 - ARTR2-ORHY 248 - ARAR8-ORHY-ARTR2 2,044 - ARAR8-ORHY-ARTR2 363 - 18,686 - -

ALLOTMENT TOTAL 797,142 16,125 813,267

Table 11 - Initial Stocking Rates Under the Interim AMP

PLEASE REFER TO PAGE 19 OF THE NARRATIVE TEXT

	Ū.	*		
Subunit/	Associated Water	APPROXIMATE TIME FRAMES*		
Use Area	Developments	Year 1	Year 2	Year 3
D-3	Jasper Well	11/1 - 11/20 5/1 - 5/10	11/1 - 11/20 5/1 - 5/10	
C-2	Warehouse Well Crane Well Indian Creek Well Goshute Well	3/1 - 3/31	11/10 - 12/10	(T)
C-4 & F-2	Goshute Well Antelope Well Dolly Varden Well Dolly Varden Spring Well	1/21 - 3/21	12/11 - 1/31	CLE
C-3	Shafter Well No. 3 Basque Well Black Point Wells Itcaina Black Point Well	11/20 - 1/20	2/1 - 3/31	СҮ
Private Land	1 Seedings	4/1 - 4/30	4/1 - 4/30	A T
D-2	Ninemile Well Feedlot Well	9/1 - 11/10	5/1 - 6/30	E 1
D-1	East Spruce Well	5/1 - 6/30	9/1 - 11/10	ЕP
E-1 & E-2	All	7-1 - 9/30	7/1 - 9/30	К
E-3	All	REST		
E-4	All	7/1 - 9/30	REST	

Table 12 Grazing schedule for the Spruce Mountain Herd

* Due to the variability of annual conditions (i.e., growing conditions, winter snow patterns, etc.), the rotation of livestock may vary somewhat from this schedule as qualified in Section IV.D. of this AMP.

Subunit/	Associated Water	APPROXIM	ATE TIME FR	RAMES*
Use Area	Development	Year 1	Year 2	Year 3
H, I & K-1	Sorensen Well Government Spring Curtis Spring	10/20 - 11/30 5/16 - 5/31	10/20 - 11/15 4/16 - 5/31	
	Sorensen Deep Well Middle Well Sorensen Well No. 6 Spruce Well East Highway Well			CLE
C-1**	Basco Spring Pipeline Spruce Spring Pipeline Gravel Pit Well East Highway Well	12/1 - 12/10 5/1 - 5/15	11/1 - 11/20 4/1 - 4/15	TCY
C-1	Tom Eager Well Indian Creek Well Crane Well Warehouse Well	12/1 - 2/28	11/15 - 11/30 2/1 - 3/31	EPEA
C-1	Goshute Well Old Mizpah Well Mizpah Point Well	3/1 - 4/30	12/1 - 1/31	R J

Table 13 Grazing schedule for the Secret Pass Herd

* Due to the variability of annual conditions (i.e., growing conditions, winter snow patterns, etc.), the rotation of livestock may vary somewhat from this schedule as qualified in Section IV.D. of this AMP.

** This area of Subunit C-1 will be used mostly for trailing between Clover and Steptoe Valleys.

Table 14

Estimated Seeding Requirements To Defer Spring Livestock Grazing In Spruce Allotment

Herd	Number of Livestock	Use Period	Forage Demand (AUMs)	Required Area of Seedings* (Ac.)	Total Seeded Area Required to Rest Half (Ac)	Existing Seeding (Ac)	Estimated Area Required for Seedings (Ac)
Spruce Mtn	700	5/1 - 6/30	1,400	4,200	8,400	7,562	838
Secret Pass	675	3/15 - 5/31	1,688	5,063	10,125	0	10,125
	TOTAL		3,088				10,963

* Estimated area for seedings is based on an assumed carrying capacity for the seedings of 3 acres per AUM.

HISTORICAL SUM .CTIVE USE SPRUCE ALLO'LA T 1968-1986



Figure 1 Spruce

1

AMP

SPRUCE AMP APPENDICES INDEX

<u>APPENDIX</u>	DESCRIPTION
А	Memo - Case History of Loyd Sorensen Grazing Privileges on the Spruce Allotment
В	Memo - Case History of Von and Marian Sorensen Grazing Privileges on the Spruce Allotment
С	Memo - Case History of Kenneth Jones Grazing Privileges on the Spruce Allotment
D	Existing Range Improvement Projects
E	Proposed Range Improvement Projects - Spruce AMP
F	Key Areas and Key Species - Spruce AMP

March 9, 1993

ţ

Spruce AMP - Appendix A - page 1 of 3

memorandum

DATE: 4-17-87

Ray Lister, Range Conservationist, Wells Resource Area

SUBJECT: Case History of Loyd Sorensen Grazing Privileges on the Spruce Allotment

TO: Case Files

1935 - What is currently the Loyd Sorensen grazing privileges in the Spruce Allotment originated with the Griswold Livestock Co. who established the "priority" use in the Spruce Unit with:

> 8,200 sheep 4/1 to 5/31 1,500 sheep 6/1 to 10/31 1,500 sheep 9/1 to 1/31

1942 - The Griswold Lvstk. Co. pruchased certain railroad properties to be used as base.

- 1943 Griswold Lvstk. Co. acquired the Andrew Tourreil base properties which had winter privileges near Currie.
- 1946 K. C. Barlow (Steptoe Lvstk. Co.) transferred 2695 AUMs in the Currie Unit to the Griswold Lvstk. Co.
- 1946 E. C. Murphy transferred 1600 AUMs in the Currie Unit to the Griswold Lvstk. Co.

146 - U. C. Land & Lvstk. transferred 3451 AUMs in the Spruce Unit to the Griswold Lvstk. Co.

- 1946 The Griswold Lvstk. Co. purchased an additional 49 AUMs in the Spruce Unit from U. C. Land and Lvstk. (Flowery Lake lands with 49 AUMs attached).
- 1946 283 AUMs were transferred from the Griswold Lvstk. Co. N-4 base to their N-1 base.
- 1947 All Griswold N-4 winter privileges were transferred to Whipple (this freed 6662 Aums from their N-1 base).
- 1947 Griswold Lvstk. Co. purchased Fred West base properties and the 752 AUMs in the Currie Unit which were attached were transferred to Griswold.
- 1947 Griswold Lvstk. Co. purchased 4248 AUMs in the Currie Unit from West.
- 1948 Griswold Lvstk. Co. transferred 1087 AUMs in the Jiggs Unit to Pete Elia.

1948 - Griswold Livestock Co. Analysis:

Original Permit (1943-1953) Barlow Purchase Murphy Transfer U. C. Cattle Co. transfer U. C. Cattle Co. purchase West transfer West purchase	9419 2965 1600 3451 49 752 4248 22,484 3,330	AUMs Spruce Unit AUMs Currie Unit AUMs Currie Unit AUMs Spruce Unit AUMs Spruce Unit AUMs Currie Unit AUMs Currie Unit AUMs Total Federal Use AUMs Unfenced Pvt.	OPTIONAL FORM NO. 10 (REV. 1-80) GSA FPMR (41 CFR) 101-11.6
	82%	Federal Range	5010-114

A U.S. GOVERNMENT PRINTING OFFICE : 1984 0 - 421-526 (9238)

- 1950 The Robison/Sorensen Partnership purchased the entire Griswold Lvstk. Co. operation (22,484 AUMs federal privileges).
- 1951 J. E. Bues transferred 2250 AUMs in the Utah-Idaho Unit to Robison/Sorensen. Robison/Sorensen did not have enough base property qualifications to support these 2250 AUMs. Therefore, they took non-use in the Spruce Unit for 2250 AUMs to allow the transfer. The 2250 AUMs in the Utah-Idaho Unit were subject to a 33% reduction.

Robison/Sorensen privileges:

		Spruce	Currie	Utah-Ida	ho
Original Griswold	Base(9419-2250)	7169			
West purch.			4248		
West trans.			752		
Barlow trans.			2965		
Murphy trans.			1600		
U.C. trans.		3451			
U.C. purch.		49			
Bues trans.				1508 (22	50X.67%)
	10	0,669	9,565	1,508	21,742 Total 3406 unfcd. pct. 82% fed. rg.

- 1955 270 AUMs transferred from Barton base to Robison/Sorensen base to be used north and west of Highway 50 in the Utah-Idaho Unit during the month of March.
- 957 Robison/Sorensen purchased 1744 AUMs in the Currie Unit and 2996 AUMs in the Medicine Butte Unit (4740 AUMs total) from Murphy.
- 1957 467 AUMs in the Medicine Butte Unit and 273 AUMs in the Currie Unit (740 AUMs total) were transferred from Murphy to Robison/Sorensen.

Robison/Sorensen current privileges:

Spruce Unit	10,669
Currie Unit	11,582
Med. Butte Unit	3,436
Ut-Id Unit	1,778
Total	27,492 AUMs

- 1957 Robison/Sorensen purchased the Medicine Springs lands with 27 AUMs attached (Medicine Butte Unit).
- 1961 Robison/Sorensen transferred 635 AUMs in the Medicine-Butte Unit to R. Gardner.
- 1961 Itcaina Lvstk. Co. transferred 900 AUMs in the Currie Unit to Robison/Sorensen.
- 1962 Robison/Sorensen transferred 98 AUMs in the Currie Unit to J. Wright.
- 1962 Beers and Sons transferred 1994 AUMs in the Ut-Id Unit and 1206 AUMs in the Currie Unit (3200 AUMs total) to Robison/Sorensen.
- 962 Robison/Sorensen purchased the Dolly Varden Spring lands from Beers and Sons which had 32 AUMs in the Ut-Id Unit and 22 AUMs in the Currie Unit attached (54 AUMs total).

.62 - Robison/Sorensen privileges to date:

Spruce Unit	10,669
Currie Unit	13,612
Med. Butte Unit	2,855
Ut-Id Unit	-3,804
Total	30,940 AUM

1963 - Michaelson/Pritchett transferred 73 AUMs in the Currie Unit to Robison/Sorensen.

- 1963 Robison/Sorensen purchased the Crane properties from Michaelson/Pritchett which had 49 AUMs in the Currie Unit attached to it.
- 1963 Robison/Sorensen transferred 441 AUMs in the Currie Unit and 324 AUMs in the Med. Butte Unit (765 AUMs total) to W. Gardner.
- 1964 A Section 8 Land Exchange for lands in Lamoille was completed and 90 AUMs in the Lamoille Unit (included as part of the Spruce Unit operation) was transferred to private ownership.
- 1964 Robison/Sorensen privileges to date:

Total	30,207	AUMs
N-4 use in Ut-Id	270	
Ut-Id	3,534	
Med. Butte	:2,531	
Currie	13,293	
Spruce Unit	10,579	

- 1965 The Clover Lvstk. Co. transferred 288 AUMs of trail use in the Currie Unit to Robison/Sorensen.
- 1966 Robison/Sorensen transferred 270 AUMS of N-4 use in the Utah-Idaho Unit to the Steptoe Lvstk. Co.
- 1970 277 AUMs in the Utah-Idaho Unit were identified as trail AUMs in a District Manager's Decision and therefore, were placed in suspended non-use.

1970 - Robison/Sorensen privileges to date:

Spruce Unit	10,579
Currie	13,581
Med. Butte	12,531
Utah-Idaho	3,257 Active & 277 Suspended
Total	29,948 AUMs

- 1973 Robison/Sorensen made application to redescribe their base property, attaching the Robison/Sorensen qualifications to the "North Unit" and the "South Unit" (See memo to the files from Oscar Anderson dated 10/25/73).
- 1973 All of the Robison/Sorensen base property was conveyed to Loyd Sorensen. The "South Unit" was subsequently sold to Von Sorensen and Kenneth Jones with 14,974 AUMs Active and 139 AUMs Suspended attached. Loyd Sorensen retained the "North Unit" with 14, 974 Active AUMs and 138 AUMs Suspended attached (see memos to the file from Oscar Anderson dated 10/25/73 and Bill Baker dated 4/1/77).

Spruce AMP - Appendix B - page 1 of 1

memorandum

DATE: 4-17-87

LY TO

Ray Lister , Range Conservationist; Wells Resource Area

SUBJECT:

Case History of Von and Marian Sorensen grazing privileges on the Spruce Allotment

TO: Case Files

The current Von and Marian Sorensen grazing privileges originated from the 1961 purchase from the Itcaina Livestock Co. as follows:

1961 - Loyd Sorensen and Von Sorensen (dba Sorensen/Sorensen) purchased 5,325 AUMs in the Currie and Medicine-Butte Units and 1,675 AUMS in the Utah-Idaho Unit (7,000 AUMs total) from the Itcaina Livestock Co.

1964 - Marguerite Carter Rich (the old Beers and Sons permit) transferred 1772 AUMs in the Currie and Medicine Butte Units and 1157 AUMs in the Utah-Idaho Unit and 654 AUMs trail use in the Utah-Idaho Unit (3583 AUMs total) to Sorensen/Sorensen. Sorensen/Sorensen grazing privileges to date:

Currie and	Medicine	Butte	Units	7097		
Utah-Idaho	Unit			2832		
Utah-Idaho	Trail			654		
				10,583	AUMs	total

1965 - Sorensen/Sorensen transferred 639 AUMs in Currie and Medicine Butte to Robison.

- 1965 Sorensen/Sorensen transferred 1256 AUMs in Currie and Medicine Butte and 105 AUMs in Utah-Idaho Unit to Robison.
- 1971 Sorensen/Sorensen transferred 354 AUMs in Currie and Medicine Butte and 1899 AUMs in Utah-Idaho to Robison.
- 1971 247 AUMs in Utah-Idaho Unit acquired in the 1964 Beers and Sons transfer were identified as trail AUMs and therefore placed in suspended non-use by District Manager's Decision.

Sorensen/Sorensen grazing privileges to date:

Currie and	Medicine Butte Units	4848
Utah-Idaho	Unit	1482 Active and 247 Suspended
Total		6083 AUMs Act. and 247 AUMs Susp.

1983 - Von Sorensen and Kenneth Jones transferred 1071 AUMs Active and 10 AUMs Suspended (1081 AUMs Total) to Von and Marian Sorensen(see memo to file from Ray Lister dated 1-28-83). The adjudication of allotments had replaced the old range units. Therefore, total use was for the Spruce Allotment as follows:

> 7154 Active 257 Suspended 7411 Total AUMs

OPTIONAL FORM NO. 10 (REV. 1-80) GSA FPMR (41 CFR) 101-11.6 5010-114

3 U.S. GOVERNMENT PRINTING OFFICE : 1984 0 - 421-526 (9238)

Spruce AMP - Appendix C - page 1 of 1

memorandum

GATE: 4-17-87

ATTN OF:

.Ray Lister, Range Conservationist, Wells Resource Area

SUBJECT:

" Case History of Kenneth Jones grazing privileges in the Spruce Allotment

TO: Case Files

- 1973 Loyd Sorensen sold the "South Unit" base property to Von Sorensen and Kenneth Jones with 14,974 AUMs Active and 139 AUMs Suspended attached (see memo to file from Oscar Anderson dated 10-25-73). A case history of these AUMs can be found in the memo to the Loyd Sorensen file from Ray Lister dated 4-17-87.
- 1979 A District Manager's Proposed Decision was issued on 4-9-79, reducing the Von Sorensen and Kenneth Jones grazing privileges in the Spruce Allotment by 466 AUMs Active and 4 AUMs Suspended because of the sale of 189.5 acres of Lamoille base property to Hooper. There was no protest to this proposed decision. Therefore, the Sorensen/Jones privileges were reduced to:

14,508 Active <u>135 Suspended</u> 14,643 AUMs Total

1983 - The "South Unit" base was conveyed to Kenneth Jones. Sorensen/Jones applied to transfer 13,437 AUMs Active and 125 AUMs Suspended to Kenneth Jones. Kenneth' Jones offered all but 802 acres of the "South Unit" base.

Sorensen/Jones also made application to transfer the remaining 1071 AUMs Active and 10 AUMs Suspended to Von and Marian Sorensen. The Sorensen/Jones case file was thereby closed (see memo to case file from Ray Lister dated 1-28-83).

> OPTIONAL FORM NO. 10 (REV. 1-80) GSA FPMR (41 CFR) 101-11.6 5010-114

Pg. 1 of 4

APPENDIX D Existing Range Improvements Spruce Alltoment

JOB								PE	RMIT	MAINTENANCE
NO.	NAME LOCAT	ION						TY	PE	RESPONSIBILITY
0014	Cordano Well	т	29 N	R. 6	5 E	Sec.	9.	NEZSEZ	S-4	Kenneth Jones
0318	Frenchy Well	Τ.	29 N.	R. 6	1 E.,	Sec.	5.	SELNWL	S-4	Kenneth Jones
0327	Itcaina Well	T.	30 N.	R. 6	3 E.,	Sec.	31.	NELNWL	S-4	Kenneth Jones
0535	Christiansen Well	Τ.	30 N.	R. 6	2 E	Sec.	33.	SWŁNWŁ	S-4	Kenneth Jones
0427	Murphy Well	Τ.	30 N.	R. 6	1 E	Sec.	7.	SELSEL	S-4	Kenneth Jones
4409	Curtis Spring Corral	т.	32 N	R. 6	1 E	Sec.	9		S-4	Kenneth Jones
5493	South Spruce Well	Т.	29 N.	R. 6	4 E	Sec.	29,	NWŁNEŁ	S-4	Kenneth Jones
5494	Gulf Well	т.	29 N.,	R. 6	5 E.,	Sec.	8,	NELSWL	S-4	Kenneth Jones
0066	Liza Jane Well	т.	31 N.,	R. 6	2 E.,	Sec.	34,	NWZSWŻ	Coop	Kenneth Jones
0574	Ruby Wash Well	т.	27 N.,	R. 5	9 E.,	Sec.	2,	SELSEL	Coop	Kenneth Jones
0321	Dry Lake Well	т.	30 N.,	R. 6	2 E.,	Sec.	18,	NEZSWZ	Coop	Kenneth Jones
4250	Basque Well No. 2	т.	29 N.,	R. 6	0 E.,	Sec.	16		Coop	Kenneth Jones
4343	Bennett Field Fence	т.	30 N.,	R. 6	0 E.				Coop	Kenneth Jones
										& Smith Bros.
4402	East Walker Well	т.	29 N.,	R. 6	5 E.,	Sec.	32,	SWINEI	Coop	Kenneth Jones
4074	East Wash Fence	т.	27 & 2	8 N.,	R. 5	9&6	0 E.	•	Coop	Kenneth Jones
									1.000	& 7H Ranch
4200	Valley Mtn. Fence	т.	31 N.,	R. 6	1 E.,	Secs	. 32	2-36	Coop	Kenneth Jones
0131	Ruby Wash Fence	т.	28 N.,	R. 5	8 & 5	9 E.			Coop	Kenneth Jones
_		-							6	& Others
0130	Murphy Fence	т.	30 & 3	1 N.,	K. 6	0 & 0	ΙĽ.	•	Coop	Cothere
1050	Contract Torra France	m	27-20	u D	63-	65 F			Coop	Kenneth Jones
4059	Sorensen-Lear Fence	1.	27-29	N., K	. 03-	0J E.			COOP	& Lear Ranches
1120	Gardner-Sorensen Guards	Т.	28 & 2	9 N.,	R. 6	2 E.,	Sec	cs. 1 & 5	5 Coop	Kenneth Jones
1000	C 1	T	20 6 2	N NI	D 6	2 5 6	э г		Coop	Kenneth Jones
1098	Sorensen-Gardner Fence	1.	28 & 2	9 N.,	K. 0	ζα 0	56.	•	COOP	& W. Dickinson
4976	Ruby 8-Spruce Fence	т.	28 & 2	9 N.,	R. 5	9 & 6	Ο Ε.		Coop	Kenneth Jones
5237	High Bald Peak Fence	т.	28 N.,	R. 6	1 E.				Coop	Kenneth Jones &
										TeMoak Lvstk Assoc.
5793	West Buttes Fence Ext.	т.	28 N.,	R. 6	2 E.,	Sec.	5		Coop	Kenneth Jones
										& W. Dickinson
4944	Ridge Fence	т.	29 N.,	R. 6	2 E.				Coop	Dickinson
5080	Ruby Seeding Fence	т.	28 N.,	R. 5	9 E.,	Sec.	16		Coop	UX Lvstk/
										L. Wines
0758	Curtis Spring	т.	32 N.,	R. 6	1 E.,	Sec.	9,	SEZSEZ	None	
0878	Gov't Spring	т.	33 N.,	R. 6	1 E.,	Sec.	23	, NELSEL	None	
	NDOT Fence	т.	29 & 3	0 N.,	R. 6	3 & 6	4 E.	•	None	NDOT
1086	Gov't Spg. Corral	т.	33 N.,	R. 6	1 E.,	Sec.	23	, NEZSEZ	None	Land Cananaan /Wan S
4223	Basque Well	Τ.	31 N.,	R. 6	7 E.,	Sec.	14		Coop	Marian Sorensen/Von a
4401	Black Point Wells	т.	30 N.,	R. 6	7 E.,	Secs	. 10	0 & 15	Coop	Loyd Sorensen/Von &
										Marian Sorensen
4403	Spruce Pipeline	т.	31 N.,	R. 6	3 & 6	4 E.			Coop	b Loyd Sorensen/Von & Marian Sorensen

Pg. 2 of 4

and a second a second

APPENDIX D (Continued)

Existing Range Improvements Spruce Alltoment

JOB '			PERMIT MA.	INTENANCE
NO.	NAME LOCAT	LON	TYPE RES	SPONSIBILITY
1295	Dolly Varden Well	T. 29 N., R. 67 E., Sec. 17	Coop	Loyd Sorensen/Von & Marian Sorensen
0836	Spruce-Shafter Fence	T. 32-34 N., R. 66-68 E.	Coop	L. Sorensen/Von & Marian Sorensen/Flyir S Land & Cattle
0517	Mound Springs Fence Ext.	T. 34 N., R. 64 E.	Coop	L. Sorensen/Von & Marian Sorensen/B. Johns
0634	Bob Cat Seeding	T. 32-33 N., R. 63-64 E.	Coop	BLM
0867	Westwood Cattleguard	T. 33 N., R. 64 E., Sec. 29	Coop	L. Sorensen/Von & Marian Sorensen/B. Johns
0746	Mound Springs Fence	T. 34 N., R. 64 E.	Соор	L. Sorensen/Von & Marian Sorensen/B. Johns
0533 0429	Spruce Mtn. Seeding Independence Valley	T. 33 N., R. 63 & 64 E.	Coop	BLM
	Seeding	T. 31 & 32 N., R. 64 & 65 E.	Coop	BLM
4668	Snow Water Fence Ext.	T. 33 N., R. 61-62 E.	Coop	L. Sorensen/Von & Marian Sorensen/Wrigh
4977	Spruce North Fence	T. 33 N., R. 63 & 64 E.	Coop	L. Sorensen/Von & Marian Sorensen/B.
				Johns
0992	White Horse Fence	T. 29 N., R. 67 & 68 E.	Соор	L. Sorensen/Von & Marian Sorensen/ Peterson
4978	Highway 50 Fence	T. 28 & 29 N., R. 67 & 68 E.	Coop	L. Sorensen/Von & Marian Sorensen
5370	Rockland Fence	T. 34 & 35 N., R. 64, 65 & 66 E.	Coop	L. Sorensen/Von & Marian Sorensen/Flyin S Land & Cattle
0665	Spruce Chaining-West	T. 31 N., R. 63 E.	Coop	BLM
0665	Spurce Chaining-South	T. 30 N., R. 63 & 64 E.	Coop	BLM
4108	Honeymoon Chaining	T. 31 N., R. 64 E.	Coop	BLM
Pg. 3 of 4

APPENDIX D (Continued)

Existing Range Improvements Spruce Alltoment

. !

- 2.

JOB NO.	NAME LOCAT	ION								P T	ERMIT YPE	MAINTENANCE RESPONSIBILITY	
N1-4-174	Unnamed Spring	т.	30	N.,	R.	63	Ε.,	Sec.	2,	SWŁNWŁ	S-4	Loyd Sorensen/Von	&
.4993	Basco Spring	т.	30	N.,	R.	63	E.,	Sec.	2,	SELNEL	S-4	Marian Sorensen Loyd Sorensen/Von	å
N1-4-174	Unnamed Spring	т.	31	N.,	R.	63	Ε.,	Sec.	35,	SELSWL	S-4	Marian Sorensen Loyd Sorensen/Von	&
N1-4-174	Unnamed Spring	т.	31	N.,	R.	63	Ε.,	Sec.	1,	SWŁSWŁ	S-4	Loyd Sorensen/Von	&
N1-4-174	Latham Spring	т.	31	N.,	R.	63	Ε.,	Sec.	12,	NWŁNWŁ	S-4	Loyd Sorensen/Von Marian Sorensen	&
N1-4-174	Townsite Spring	т.	31	N.,	R.	63	Ε.,	Sec.	27,	NE ² SE ²	S-4	Loyd Sorensen/Von Marian Sorensen	ά
N1-4-174	Unnamed Spring	т.	31	N.,	R.	63	Ε.,	Sec.	25,	SELSEL	S-4	Loyd Sorensen/Von Marian Sorensen	&
N1-4-174	Unnamed Spring	т.	31	N.,	R.	63	Ε.,	Sec.	36,	SEZNWZ	S-4	Loyd Sorensen/Von Marian Sorensen	&
N1-4-174	Unnamed Spring	т.	31	N.,	R.	65	Ε.,	Sec.	19,	SELSEL	S-4	Loyd Sorensen/Von Marian Sorensen	&
N1-4-174	Lower Boone Spring	Τ.	31	N.,	R.	65	Ε.,	Sec.	20,	NEZSWZ	S-4	Loyd Sorensen/Von Marian Sorensen	&
N1-4-173	Well	т.	33	N.,	R.	65	Ε.,	Sec.	10,	SWZSWZ	S-4	Loyd Sorensen/Von Marian Sorensen	&
0322	Itcaina Mizpah Well	т.	30	N.,	R.	66	Ε.,	Sec.	28,	NWZSWZ	S-4	Loyd Sorensen/Von Marian Sorensen	&
0324	Itcaina Black Point Well	т.	29	N.,	R.	68	Ε.,	Sec.	6,	SWZSWZ	S-4	Loyd Sorensen/Von Marian Sorensen	å
0328	Itcaina Spruce Well	т.	31	N.,	R.	62	Ε.,	Sec.	3,	SELNEL	S-4	Loyd Sorensen/Von Marian Sorensen	&
0418	Spruce Well	Τ.	30	N.,	R.	65	Ε.,	Sec.	16,	NWLSEL	S-4	Loyd Sorensen/Von Marian Sorensen	&
0421	Sorensen Deep Well (Spruce Well)	Τ.	32	N.,	R.	63	Ε.,	Sec.	20,	NWZSWZ	S-4	Loyd Sorensen/Von Marian Sorensen	&
0423	Nine Mile Well	т.	32	N.,	R.	64	Ε.,	Sec.	1,	SELSEL	S-4	Loyd Sorensen/Von Marian Sorensen	ŝ
0425	Jasper Well	Τ.	33	Ν.,	R.	65	Е.,	Sec.	10,	SWLSEL	S-4	Loyd Sorensen/Von Marian Sorensen	8
0430	Shafter Well No.3	т.	32	Ν.,	R.	67	Ε.,	Sec.	36,	SELNWL	S-4	Loyd Sorensen/Von Marian Sorensen	Z,
0432	Sorensen Well No.4	Τ.	32	Ν.,	R.	64	Ε.,	Sec.	26,	SWANNA	S-4	Loyd Sorensen/Von Marian Sorensen	ų
0435	Sorensen Well No.5	Τ.	32	N.,	R.	64	Ε.,	Sec.	17,	SEZNWZ	S-4	Loyd Sorensen/Von Marian Sorensen	£
0437	Sorensen Well No.6	Т.	33	Ν.,	R.	63	Ε.,	Sec.	28,	NEZSEZ	S-4	Loyd Sorensen/Von Marian Sorensen	8

Pg. 4 of 4

APPENDIX D (Continued)

Existing Range Improvements Spruce Alltoment

JOB			PI	ERMIT	MAINTENANCE	
NO.	NAME LOCAT	LON	T	TPE	RESPONSIBILITY	
0439	Warehouse Well	T. 31 N., R. 66	E., Sec. 7, SELSEL	S-4	Loyd Sorensen/Von &	
0441	Shafter Well No. 4	T. 31 N., R. 67	E., Sec. 35, SELSWL	S-4	Loyd Sorensen/Von & Marian Sorensen	100
0442	Lower Spruce Well	T. 31 N., R. 65	E., Sec. 36, NEŁNWŁ	S-4	Loyd Sorensen/Von & Marian Sorensen	
4415	Cole Creek Tank	T. 31 N., R. 64	E., Sec. 18	S-4	Loyd Sorensen/Von & Marian Sorensen	1
4413	Cole Creek Corrals	T. 31 N., R. 64	E., Sec. 18	S-4	Loyd Sorensen/Von & Marian Sorensen	į
4414	Cole Creek Cabins	T. 31 N., R. 64	E., Sec. 18	S-4	Loyd Sorensen/Von & Marian Sorensen	;
4412	Sprucemont Corral	T. 31 N., R. 63	E., Sec. 21	S-4	Loyd Sorensen/Von & Marian Sorensen	:
N1-4-276	Spruce Shearing	T. 32 N., R. 64	E., Sec. 5	S-4	Loyd Sorensen/Von & Marian Sorensen	t
N1-4-175	Spruce Corral	T. 32 N., R. 64	E., Sec. 5	S-4	Loyd Sorensen/Von & Marian Sorensen	£
5341	Spruce-93 Drift Fence	T. 30 N., R. 63	E., Sec. 7 & 8	S-4	Loyd Sorensen/Von & Marian Sorensen/K.	¢
5504	Gravel Pits Well	T. 30 N., R. 63	E., Sec. 21, SEŁNWŁ	S-4	Loyd Sorensen/Von & Marian Sorensen	×
5560	Basco Spring	T. 30 N., R. 63	E., Sec. 1, 2, & 12	S-4	Loyd Sorensen/Von & Marian Sorensen	×
5559	Spruce Spring Pipeline	T. 31 & 32 N.,	R. 63 & 64 E.	S-4	Loyd Sorensen/Von & Marian Sorensen	×

APPENDIX E

Spruce Interim AMP Proposed Range Improvements (In Priority Order)

	Type of Improvement	Approximate Completion Date	Funding Source
1.	South Spruce Allotment Boundary Fence (approx. 16 miles)	FY 91-93	BLM & Permittee
2.	Highway 93 Seeding Protection Fences	As seedings are implemented	BLM & Permittee
3.	11,000 ac. Crested Wheatgrass Seedings	FY 92-97	BLM
4.	Independence Valley Seeding Fences	FY 94-95	BLM & Permittee
5.	Basco Spring Pipeline Extension	FY 96	Permittee
6.	Spruce Spring Pipeline Extension	FY 97	Permittee
7.	Latham Spring Pipeline Extension	FY 98	Permittee

-in-

Spruce Interim AMP

March 9, 1993

APPENDIX F KEY AREAS & KEY SPECIES SPRUCE ALLOTMENT

E.

ł

			ALLOWABLE
VEV AREA	RANGE SITE	KEY SPECIES	UTILIZATION
SP-01	Coarse Gravelly Loam 6-10"	EULA5	50%
31 01		ORHY	50%
SP-02	Silty 8-12"	EULA5	50%
31 02		ORHY	50%
CP-03	Silty 8-12"	EULA5	50%
SE-05		ORHY	50%
SB-04	Silty 8-12"	EULA5	50%
5r-04	0110)	ORHY	50%
CB-05	Coarse Gravelly Loam 6-10"	EULA5	50%
52-05		ORHY	50%
GD 06	Silty 8-12"	EULA5	50%
SP-06	Silly 0 12	ORHY	50%
	St1ty 8-12"	EULA5	50%
SP-07	Silly 0 12	ORHY	50%
	Cilty 8-12"	EULA5	50%
SP-08	Silly 0 12	ORHY	50%
	Califor Torrace 5-8"	ATNU2	50%
SP-09	Saline ferface 5 0	EULA5	50%
SP-10	Silty 8-12	ORHY	50%
	0.11. 0.10"	EIILA5	50%
SP-11	Silty 8-12	ORHY	50%
	0.10"	EIII.A 5	50%
SP-13	Silty 8-12	ORHY	50%
		ARCPS	25%
		FIILAS	50%
SP-14	Coarse Gravelly Loam 6-10	OPHY	50%
		ETT A 5	50%
SP-15	Silty 8-12"	EULAS	50%
SP-16	Coarse Gravelly Loam 6-10	LULAJ	50%
		UKILI A 5	50%
SP-17	Coarse Gravelly Loam 6-10	COLAS	50%
		UKHI	50%
SP-18	Silty 8-12"	EULAD	50%
		OKHI	50%
SP-19	Silty 8-12"	EULAS	50%
SP-20	Silty 8-12"	EULAS	50%
U -		ORHY	50%
SP-21	Silty 8-12"	EULAS	50%
SP-22	Silty 8-12"	EULAS	50%
SP-23	Silty 8-12"	EULAS	50%
51 25		ORHY	50%
SP - 24 (DW - 2 - T - 01)	*	AGSP	50%
51 24 (51 2 2		PUTR2	25%
CD-25	*	AGSP	50%
51-25		PUTR2	25%
cp_26	*	AGSP	50%
5r-20		PUTR2	25%
		POA++	50%
an 07 (nu-0-m-0/)	*	AGSP	50%
Sr-2/ (Dw-2-1-04)		PUTR2	25%
	*	AGSP	50%
2-28		AGSP	50%
3P-29	0		

*Production data and ecological condition currently being tabulated

BOB MILLER Governor

STATE OF NEVADA



COMMISSIONERS

Dan Keiserman. Chairman Las Vegas. Nevada

Michael Kirk, D.V.M., Vice Chairman Reno, Nevada

Paula S. Askew Carson City, Nevada

Steven Fulstone Smith Valley. Nevada

Dawn Lappin Reno, Nevada



COMMISSION FOR THE PRESERVATION OF WILD HORSES

Stewart Facility Capitol Complex Carson City, Nevada 89710 (702) 687-5589

July 7, 1993

Bill Baker, Manager Wells Resource Area BLM-Elko District Office 3900 E. Idaho St. Box 831 Elko, Nevada 89801

Dear Mr. Baker,

We are in receipt of the interim AMP that was signed on April 13, 1993. We received this document on the 7th of June, therefore we are within our legal framework to appeal this document within the 30 day time frame from receipt of such work.

We formally appeal your decision to sign this plan. We formally request that this appeal stop this action on the basis that you are in violation of BLM regulations, policy, as well as wild horse and burro policy.

We have severe concerns that you have a special interest dictating management that affects all users without those users having their legal right recognized. According to 40 CFR 1502.3, 1501.4 (a)(b), an EIS or EA <u>must</u> be completed <u>before</u> approval of the Spruce AMP. In addition you have violated the entire consultation process according FLPMA and NEPA.

There are too many violations and arguments to list at this time. Surely it does not require 29 years to produce an environmental assessment for the change-in-kind of livestock taking this allotment from sheep in 1964 to livestock. However, now the urgency appears to be approval of an interim AMP to support an expenditure for a fence and seedings that may or may not have impacts on other users.

We have worked very hard and long with the BLM in Nevada to affect good range management and a trusting relationship. This is Bill Baker, Manager July 7, 1993 Page 2

a blatant example of the BLM intentionally shutting affected interests out of the process due them by law.

Sincerely,

affrein Bareart

CATHERINE BARCOMB Executive Director

> TYPE-ERASE 25% COTTON FIBER USA