



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Egan Field Office  
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[http://www.blm.gov/nv/st/en/fo/ely\\_field\\_office.html](http://www.blm.gov/nv/st/en/fo/ely_field_office.html)



October 30, 2008

In Reply Refer to:  
4160 (NV-043)  
Project File  
Case File

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Sam and Clelia Henriod

### **FINAL DECISION**

#### **Grazing Permit Renewal for Auth#2704544**

#### **for the South Butte Allotment (00504) and South Butte Seeding Allotment (00506)**

#### **Background Information**

On August 26, 2008 the Categorical Exclusion (CX) was signed for Sam and Clelia Henriod (South Butte Allotment and South Butte Seeding Allotment) term permit renewal (CX-NV-043-08-012). The CX and Standards Determination Document are enclosed. This Final Decision is issued in accordance with 43 CFR 4160.3. The Proposed Decision was issued on September 11, 2008, in accordance with 43 CFR 4160.1.

This decision complies with BLM Nevada Instruction Memorandum (IM) No. NV-2008-019 which provides guidance to facilitate the preparation of grazing permit renewal CXs as per the requirement set forth in BLM Washington Office IM WO 2008-019.

This decision is in conformance with the Ely District Record of Decision and Approved Resource Management Plan dated August 20, 2008. This decision is specifically provided for in the following Management Decisions: "LG-1; Make approximately 11,246,900 acres and 545,267 animal unit months available for livestock grazing on a long-term basis. LG-5; Maintain the current preference, season-of-use, and kind of livestock until the allotments that have not been evaluated for meeting or making progress toward meeting the Standards or are in conformance with the policies are evaluated. Depending on the results of the standards assessment, maintain or modify grazing preference, seasons-of-use, kind of livestock, and grazing management practices to achieve the Standards for Rangeland Health. Changes, such as improved livestock management, new range improvement projects, and changes in the amount and kinds of forage permanently available for livestock use, can lead to changes in preference, authorized season-of-use, or kind of livestock. Ensure changes continue to meet the RMP goals and objectives, including the Standards for Rangeland Health."

The term grazing permit under consideration is for the South Butte Allotment and South Butte Seeding Allotment. The current permit is issued for the period of March 1, 2008 to

February 28, 2018. The permit authorizes cattle use only with a permitted use of 508 Animal Unit Months (AUMs) for South Butte Allotment and 342 AUMs for the South Butte Seeding Allotment. For the South Butte Allotment, 396 AUMs are active and 112 AUMs are suspended nonuse with the season of use from April 15 to February 28. For the South Butte Seeding Allotment, 245 AUMs are active and 97 AUMs are suspended nonuse with the season of use from May 1 to October 31. The South Butte Allotment and the South Butte Seeding Allotment encompasses approximately 26,081 public land acres and 968 public land acres, respectively.

Fully processing and renewing the term permit for Sam and Clelia Henriod for the South Butte Allotment and South Butte Seeding Allotment provides for a legitimate multiple use of the public lands. The term permit will include terms and conditions for grazing use that conform to Guidelines and will continue to achieve the Standards for Nevada's Northeastern Great Basin Area. The term permit is issued in accordance with all applicable laws, regulations, and policies and in accordance with Title 43 CFR 4130.2(a) which states "Grazing permits or leases shall be issued to qualified applicants to authorize use on the public lands and other lands under the administration of the Bureau of Land Management that are designated as available for livestock grazing through land use plans". This decision specifically identifies terms and conditions appropriate to continue to achieve management and resource condition objectives. The actions that were developed under the proposed and final decisions execute management actions that will ensure that Standards for Rangeland Health and multiple use objectives continue to be met and that significant progress is made towards those that are currently not met.

The standards were assessed for the South Butte Allotment and South Butte Seeding Allotment by a BLM interdisciplinary team consisting of rangeland management specialists, wildlife biologist, weeds specialist, and watershed specialist. Documents and publications used in the assessment process include the Soil Survey of Western White Pine Area, Nevada, Parts of White Pine and Eureka Counties, Ecological Site Descriptions for Major Land Resource Area 28B, Interpreting Indicators of Rangeland Health (USDI-BLM et al. 2000), Sampling Vegetation Attributes (USDI-BLM et al. 1996) and the National Range and Pasture Handbook (USDA-NRCS 1997). All are available for public review at the Egan Field Office. The interdisciplinary team used rangeland monitoring data, professional observations, and photographs to assess achievement of the Standards and conformance with the Guidelines.

The assessment of rangeland health for the South Butte Allotment and South Butte Seeding Allotment was conducted in the summer, 2008. It was determined that two of the three Standards are being achieved. Standard 3 Habitat is not being achieved, but is making significant progress towards achieving the standard and that livestock are not a contributing factor to not achieving this Standard, failure to meet the standard is related to other issues or conditions. It was also determined that grazing management is in complete conformance with the Guidelines for all the Standards. A review and analysis of the monitoring data was conducted. A summary of the findings for both allotments are as follows:

**Standard 1. Upland Sites:** Standard achieved for both allotments. Rangeland monitoring and professional observation indicates that overall soil condition is currently being maintained on the native range. Soils are stable and productive and the topsoil is holding in place.

**Standard 2. Riparian and Wetland Sites:** There are six springs on the South Butte Allotment on public land. Five of these springs are located at high elevations in steep terrain that is not accessed by cattle. The sixth spring is a developed water source that has been piped and considered non-functional due to development. Due to this development, this spring is no longer considered a riparian area. In addition, there are no public land riparian areas for the South Butte Seeding Allotment therefore the standard assessment was not conducted for the Riparian and Wetland Sites Standard.

**Standard 3. Habitat:** The Habitat Standard is not being achieving for the South Butte Allotment, but making significant progress towards. Livestock are not a contributing factor to not achieving the Standard, failure to meet the standard is related to other issues or conditions. The Habitat Standard is being achieving for the South Butte Seeding Allotment. For the South Butte Allotment the Habitat Standard is not being achieved due to the decline trend of the winterfat plant community at Key Area SB-1. Precipitation data since 1981 shows an overall decline in precipitation, but whether this is a factor in why this area of has a declining trend has not been determined. It has been determined that this declining trend is not attributed to current livestock grazing since utilization levels are primarily in the slight to light range.

The project proposal was posted on the Ely BLM District Office web site, on or about April 30, 2008, at [http://www.blm.gov/nv/st/en/fo/ely\\_field\\_office.html](http://www.blm.gov/nv/st/en/fo/ely_field_office.html). No comments were received to the proposal.

The Standard Determination Document was posted on the Ely external webpage on August 4, 2008 for a fifteen day comment period. A hard copy of the determination was mailed to the permittee and those publics who have specifically requested one and who expressed an interest in range management actions on the South Butte Allotment and South Butte Seeding Allotment. No comments were received. A protest to the proposed decision to renew a grazing permit for Sam and Clelia Henriod for the South Butte Allotment and South Butte Seeding Allotment was received from Western Watersheds Project on October 1, 2008. A written response to the substantial protest points was prepared on October 24, 2008 and placed in the BLM administrative record for this permit renewal. Based upon the substantial protest points and a range team review of the protest points, this final decision has not been changed from the proposed decision.

### **LIVESTOCK MANAGEMENT DECISION**

In accordance with 43 CFR 4110.3, 4110.3-2(b) and 4130.3-1 permitted use for Sam and Clelia Henriod on the South Butte Allotment and South Butte Seeding Allotment will remain unchanged and will appear as follows on the permit:

**Table 1. Term Permit for Sam and Clelia Henriod (#2704544)**

Allotment Name and Number	Livestock Number/Kind	Grazing Period		% Public Land*	Type Use	AUMs**
		Begin	End			
South Butte (00504)	37 Cattle	04/15	02/28	100	Active	396
South Butte Seeding (00506)	40 Cattle	05/01	10/31	100	Active	245
* % Public Land is the percent of public land for billing purposes.						
** AUMs may differ from Active Use due to a rounding difference with the number of livestock and the period of use.						
Allotment AUMs Summary						
Allotment Name and Number	ACTIVE AUMS		SUSPENDED AUMS		PERMITTED AUMS	
South Butte (00504)	396		112		508	
South Butte Seeding (00506)	245		97		342	

The proposed term permit and allotment information is as follows:

The renewal of the term grazing permit will be for a period of ten years. This decision will be effective upon the decision becoming final or pending final determination on appeal.

Terms and conditions for grazing use which will become pertinent to the Sam and Clelia Henriod permit are proposed as follows:

South Butte Allotment (00504):

1. The total number of AUMS that can be licensed from 4/15 to 6/15 is 10% of the active preference to prevent over-utilization of key forage species during the critical growing season.
2. Grazing use will be in accordance with the Northeastern Great Basin Area Standards and Guidelines, and with the Final Multiple Use Decision dated December 24, 1992 and Settled on May 27, 1994. All other terms and conditions agreed upon by the BLM and Warren Robinson in settling the appeal on the South Butte Allotment (Appeal NV-04-93-6) are made binding on this permit.
3. Water hauling is required for proper livestock distribution. The location of water hauling sites will be determined by the authorized officer in cooperation with the livestock permittee.
4. Maximum allowable use levels will be established as follows:
  - Perennial grasses: 50% current year's growth  
*This use level is necessary to allow desirable key herbaceous species to 1) develop above ground biomass for protection of soils, 2) to contribute to litter cover, and 3) develop roots to improve carbohydrate storage for vigor, reproduction, and improve/increase desirable perennial cover.*
  - Perennial shrubs and half-shrubs: 50% use on current annual production.

*This use level is necessary to allow desirable perennial key browse species to develop branchlets and woody stature able to withstand the pressure of grazing use. Use would be read in April or prior to the spring re-growth. Use during spring contributes to following season's use level.*

South Butte Seeding Allotment (00506):

1. Grazing use will be in accordance with the Northeastern Great Basin Area Standards and Guidelines, and with the Final Multiple Use Decision dated January 27, 1992.
2. Maximum allowable use levels will be established as follows:
  - Crested wheat grass: 65% current year's growth  
*This use level is necessary to allow desirable key herbaceous species to 1) develop above ground biomass for protection of soils, 2) to contribute to litter cover, and 3) develop roots to improve carbohydrate storage for vigor, reproduction, and improve/increase desirable cover.*

Both Allotments:

1. Salt and/or mineral supplements for livestock will be located no closer than ¼ mile from water sources. Use of nutritional supplements (not forage) is encouraged to improve the ability of cattle to utilize forage in the winter months and to improve livestock distribution across the allotment.

Stipulations Common to All Allotments:

1. "Livestock numbers identified in the Term Grazing Permit are a function of seasons of use and permitted use. Deviations from those livestock numbers and seasons of use may be authorized on an annual basis where such deviations would not prevent attainment of the multiple-use objectives for the allotment."
2. "Deviations from specified grazing use dates will be allowed when consistent with multiple-use objectives. Such deviations will require an application and written authorization from the authorized officer prior to grazing use."
3. The authorized officer is requiring that an actual use report (form 4130-5) be submitted within 15 days after completing your annual grazing use.
4. The payment of your grazing fees is due on or before the date specified in the grazing bill. This date is generally the opening date of your allotment. If payment is not received within 15 days of the due date, you will be charged a late fee assessment of \$25 or 10 percent of the grazing bill, whichever is greater, not to exceed \$250. Payment with Visa, MasterCard or American Express is accepted. Failure to make payment within 30 days of the due date may result in trespass action.
5. Pursuant to 43 CFR 10.4 (G) the holder of this authorization must notify the authorized officer by telephone, with written confirmation, immediately upon discovery of human remains, funerary objects, sacred objects, or objects of cultural patrimony (as

defined at 43 CFR 10.2). Further, pursuant to 43 CFR 10.4 (C) and (D), you must stop activities in the immediate vicinity of the discovery and protect it from your activities for 30 days or until notified to proceed by the authorized officer.

6. Grazing use in White Pine County will be in accordance with the Northeastern Great Basin Area Standards and Guidelines for Grazing Administration. The Standards and Guidelines have been developed by the respective Resource Advisory Council and approved by the Secretary of the Interior on February 12, 1997. Grazing use will also be in accordance with 43 CFR Subpart 4180 - Fundamentals of Rangeland Health and Standards and Guidelines for Grazing Administration.

7. If future monitoring data indicates that Standards and Guidelines for Grazing Administration are not being met, the permit will be reissued subject to revised terms and conditions.

8. The permittee must notify the authorized officer by telephone, with written confirmation, immediately upon discovery of any hazardous or solid wastes as defined in 40 CFR Part 261.

9. The permittee is responsible for all maintenance of assigned range improvements including wildlife escape ramps for both permanent and temporary water troughs.

#### **Rationale For No Changes in Grazing Use**

Monitoring data review and assessment findings indicate that two of the three Standards are being achieved on the allotments. Standard 3 Habitat is not being achieved, but is making significant progress towards achieving the standard and that livestock are not a contributing factor to not achieving this Standard, failure to meet the standard is related to other issues or conditions. Grazing is in conformance with all applicable Guidelines. It is anticipated that the Standards for Rangeland Health will continue to be achieved or progress toward meeting the Standards and grazing use levels will remain at or below allowable use levels throughout a majority of the two allotments.

**AUTHORITY:** The authority for this decision is contained in Title 43 of the Code of Federal Regulations, which states in pertinent part:

4100.0-8: “The authorized officer shall manage livestock grazing on public lands under the principle of multiple-use and sustained yield and in accordance with applicable land use plans. Land use plans shall establish allowable resource uses (either singly or in combination), related levels of production or use to be maintained, areas of use, and resource condition goals and objectives to be obtained. The plans also set forth program constraints and general management practices needed to achieve management objectives. Livestock grazing activities and management actions approved by the authorized officer shall be in conformance with the land use plan as defined at 43 CFR 1601.0-5(b).”

4110.3: “The authorized officer shall periodically review the permitted use specified in a grazing permit or lease and shall make changes in the permitted use as needed to manage, maintain or improve rangeland productivity, to assist in restoring ecosystems to properly functioning condition, to conform with land use plans or activity plans, or to comply with the provisions of subpart 4180 of this part. These changes must be supported by monitoring, field observations, ecological site inventory or other data acceptable to the authorized officer.”

4110.3-2 (b): “When monitoring or field observations show grazing use or patterns of use are not consistent with the provisions of subpart 4180, or grazing use is otherwise causing an unacceptable level or pattern of utilization, or when use exceeds the livestock carrying capacity as determined through monitoring, ecological site inventory or other acceptable methods, the authorized officer shall reduce permitted grazing use or otherwise modify management practices.”

4130.3: “Livestock grazing permits and leases shall contain terms and conditions determined by the authorized officer to be appropriate to achieve the management and resource condition objectives for the public lands and other lands administered by the Bureau of Land Management, and ensure conformance with the provisions of subpart 4180 of this part.”

4130.3-1(a): “The authorized officer shall specify the kind and number of livestock, the period(s) of use, the allotment(s) to be used, and the amount of use, in animal unit months, for every grazing permit or lease. The authorized livestock grazing use shall not exceed the livestock carrying capacity of the allotment.”

4130.3-1 (c) “Permits and leases shall incorporate terms and conditions that ensure conformance with subpart 4180 of this part.”

4130.3-2: “The authorized officer may specify in grazing permits or leases other terms and conditions which will assist in achieving management objectives, provide for proper range management or assist in the orderly administration of the public rangelands....”

4130.3-3: “Following consultation, cooperation, and coordination with the affected lessees or permittees, the State having lands or responsible for managing resources within the area, and the interested public, the authorized officer may modify terms and conditions of the permit or lease when the active use or related management practices are not meeting the land use plan, allotment management plan or other activity plan, or management objectives, or is not in conformance with the provisions of subpart 4180 of this part...”

4160.3 (a) “In the absence of a protest, the proposed decision will become the final decision of the authorized officer without further notice unless otherwise provided in the proposed decision.

(b) Upon the timely filing of a protest, the authorized officer shall reconsider her/his proposed decision in light of the protestant's statement of reasons for protest and in light of other information pertinent to the case. At the conclusion to her/his review of the

protest, the authorized officer shall serve her/his final decision on the protestant or her/his agent, or both, and the interested public.

(c) A period of 30 days following receipt of the final decision, or 30 days after the date the proposed decision becomes final as provided in paragraph (a) of this section, is provided for filing an appeal and petition for stay of the decision pending final determination on appeal. A decision will not be effective during the 30-day appeal period, except as provided in paragraph (f) of this section. See Sec. Sec. 4.21 and 4.470 of this title for general provisions of the appeal and stay processes.”

4180.1: “The authorized officer shall take appropriate action under subparts 4110, 4120, 4130, and 4160 of this part as soon as practicable but not later than the start of the next grazing year upon determining that existing grazing management needs to be modified to ensure that the following conditions exist.

- (a) Watersheds are in, or are making significant progress toward, properly functioning physical condition, including their upland, riparian-wetland, and aquatic components; soil and plant conditions support infiltration, soil moisture storage, and the release of water that are in balance with climate and landform and maintain or improve water quality, water quantity, and timing and duration of flow.
- (b) Ecological processes, including the hydrologic cycle, nutrient cycle, and energy flow, are maintained, or there is significant progress toward their attainment, in order to support healthy biotic populations and communities.
- (c) Water quality complies with State water quality standards and achieves, or is making significant progress toward achieving, established BLM management objectives such as meeting wildlife needs.
- (d) Habitats are, or are making significant progress toward being, restored or maintained for Federal threatened and endangered species, Federal Proposed, Category 1 and 2 Federal candidate and other special status species.”

## **Appeal**

In accordance with 43 CFR 4.470 and 4160.4, any person who wishes to appeal or seek a stay of a BLM grazing decision must follow the requirements set forth in 4.470 through 4.480 of this title. The appeal or petition for stay must be filed with the BLM office that issued the decision within 30 days after its receipt or within 30 days after the proposed decision becomes final as provided in 4160.3 (a).

The appeal and any petition for stay must be filed at the office of the authorized officer, Jeffrey A. Weeks, Field Manager for the Egan Field Office, HC 33 Box 33500, 702



Industrial Way, Ely, Nevada 89301. Within 15 days of filing the appeal and any petition for stay, the appellant also must serve a copy of the appeal and any petition for stay on any person named in the decision and listed at the end of the decision, and on the Office of the Solicitor, Regional Solicitor, Pacific Southwest Region, U.S. Department of the Interior, 2800 Cottage Way, Room E-1712, Sacramento, California 95825-1890.

Pursuant to 43 CFR 4.471(c), a petition for stay, if filed, must show sufficient justification based on the following standards:

- (1) The relative harm to the parties if the stay is granted or denied;
- (2) The likelihood of the appellant's success on the merits;
- (3) The likelihood of immediate and irreparable harm if the stay is not granted; and,
- (4) Whether the public interest favors granting the stay.

43 CFR 4.471(d) provides that the appellant requesting a stay bears the burden of proof to demonstrate that a stay should be granted.

Any person named in the decision from which an appeal is taken (other than the appellant) who wishes to file a response to the petition for a stay may file with the Hearings Division in Salt Lake City, Utah, a motion to intervene in the appeal, together with the response, within 10 days after receiving the petition. Within 15 days after filing the motion to intervene and response, the person must serve copies on the appellant, the Office of the Solicitor and any other person named in the decision (43 CFR 4.472(b)).

At the conclusion of any document that a party must serve, the party or its representative must sign a written statement certifying that service has been or will be made in accordance with the applicable rules and specifying the date and manner of such service (43 CFR 4.422(c)(2)).

Sincerely,

/s/ Jeffrey A. Weeks

Jeffrey A. Weeks  
Field Manager  
Egan Field Office

Enclosures

**U.S. Department of the Interior  
Bureau of Land Management**

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**Categorical Exclusion NV-043-08-012  
August 26, 2008**

**Sam and Clelia Henriod (Operator No. 2704544)  
Term Permit Renewal  
South Butte Allotment (00504) and  
South Butte Seeding Allotment (00506)**

*Location: Ely, Nevada  
Project Lead: Mindy Seal*

U.S. Department of the Interior  
Bureau of Land Management  
Ely District Office  
Egan Field Office  
Phone: (775) 289-1800  
Fax: (775) 289-1910



# Categorical Exclusion Documentation Format for Actions Other Than Hazardous Fuels and Fire Rehabilitation Actions Egan Field Office

## A. Background

BLM Office: Ely District Office    Lease/Serial/Case File No.: NV-043-08-012

Proposed Action Title/Type: Sam and Clelia Henriod Permit Renewal for the South Butte Allotment and the South Butte Seeding Allotment

Location of Proposed Action: South Butte Allotment and South Butte Seeding Allotment

Description of Proposed Action: The BLM would issue and fully process a new term grazing permit for Sam and Clelia Henriod, and authorize grazing on the South Butte Allotment and the South Butte Seeding Allotment. There are no proposed changes to the terms and conditions. The permit would be issued for a period of ten years. The issuance of the term grazing permit would be effective upon the proposed decision becoming final or pending final determination on appeal. The number and kind of livestock, season-of-use and permitted use will remain as follows on the South Butte Allotment and the South Butte Seeding Allotment:

Allotment	Livestock Number & Kind	Period of Use	Permitted Use (AUMs)	Type Use
South Butte	37 Cattle	04/15 to 02/28	396	Active
South Butte Seeding	40 Cattle	05/01 to 10/31	245	Active

An assessment of the Northeastern Great Basin Area Standards for Rangeland Health was conducted for the South Butte Allotment and the South Butte Seeding Allotment in 2008 during the permit renewal process. During the assessment, a review and analysis of the monitoring data was conducted.

### Standard 1. Upland Sites

The Uplands Standard is being achieved for both allotments.

### Standard 2. Riparian and Wetland Sites

There are six springs on the South Butte Allotment on public land. Five of these springs are located at high elevations in steep terrain that is not accessed by cattle. The sixth spring is a developed water source that has been piped and considered non-functional due to development. Due to this development, this spring is no longer considered a riparian area; therefore the standard assessment was not conducted for the Riparian and Wetland Sites Standard for the South Butte Allotment. There are no public land riparian areas for the South Butte Seeding Allotment therefore the standard assessment was not conducted for the Riparian and Wetland Sites Standard.

### Standard 3. Habitat:

The Habitat Standard is not being achieving for the South Butte Allotment, but making significant progress towards. Livestock are not a contributing factor to not achieving the Standard, failure to meet the standard is related to other issues or conditions. The Habitat Standard is being achieving for the South Butte Seeding Allotment. For the South Butte Allotment utilization of winterfat at Key Area SB-1 have been primarily in the slight to light range, with 2002 being the only year utilization reached the moderate range. Due to the decrease in halogeton along with winterfat, the description for the decline of ecological condition does not explain why the trend at this area is declining. Precipitation data since 1981 does show an overall decline in precipitation, but whether this is a factor in why this area has a declining trend has not been determine. It has been determined that this declining trend is not attributed to current livestock grazing since utilization levels are primarily in the slight to light range.

### **B. Land Use Plan Conformance**

Land Use Plan Name: Ely District Record of Decision and Approved Resource Management Plan Date Approved: August 20, 2008.

The proposed action is in conformance with the applicable LUP because it is specifically provided for in the following Management Decisions: “LG-1, Make approximately 11,246,900 acres and 545,267 animal unit months available for livestock grazing on a long-term basis. LG-5; Maintain the current preference, season-of-use, and kind of livestock until the allotments that have not been evaluated for meeting or making progress toward meeting the standards or are in conformance with the policies are evaluated. Depending on the results of the standards assessment, maintain or modify grazing preference, seasons-of-use, kind of livestock, and grazing management practices to achieve the standards for rangeland health. Changes, such as improved livestock management, new range improvement projects, and changes in the amount and kinds of forage permanently available for livestock use, can lead to changes in preference, authorized season-of-use, or kind of livestock. Ensure changes continue to meet the RMP goals and objectives, including the standards for rangeland health.”

Monitoring for livestock grazing is also included in the Management Decisions and stated as follows: “Monitoring to assess rangeland health standards will include records of actual livestock use, measurements of forage utilization, ecological site inventory data, cover data, soil mapping, and allotment evaluations or rangeland health assessments. Conditions and trends of resources affected by livestock grazing will be monitored to support periodic analysis/evaluation, site-specific adjustments of livestock management actions, and term permit renewals. Monitoring will determine when grazing will be authorized in burned areas, and will contribute to the selection of prescribed burn treatments or other types of treatments based on attainment of resource objectives.”

### **C: Compliance with NEPA:**

The Proposed Action is categorically excluded from further documentation under the National Environmental Policy Act (NEPA) in accordance with 516 DM 6, Appendix 5-5.4 D.(11)

D. Rangeland Management 11. Issuance of livestock grazing permits/leases where: a. The new grazing permit/lease is consistent with the use specified on the previous permit/lease, such that (i) the same kind of livestock is grazed (ii) the active use previously authorized is not exceeded, and (iii) grazing does not occur more than 14 days earlier or later than as specified on the previous permit/lease, and b. The grazing allotment(s) has been assessed and evaluated and the Responsible Official has documented in a determination that the allotment (s) is (i) meeting land health standards, or (ii) not meeting land health standards due to factors that do not include existing livestock grazing.

This categorical exclusion is appropriate in this situation because there are no extraordinary circumstances potentially having effects that may significantly affect the environment. The proposed action has been reviewed, and none of the extraordinary circumstances described in 516 DM2 apply.

**D: Signature**

Authorizing Official: /s/ Jeffrey A. Weeks Date: 8/26/08  
(Signature)

Name: Jeffrey A. Weeks  
Title: Field Manager, Egan Field Office

**Contact Person**

For additional information concerning this CX review, contact Chris Mayer, Supervisory Rangeland Management Specialist, Egan Field Office, Ely District, HC33 Box33500 Ely, Nevada, 89301-9408, 775-289-1800.

## **Categorical Exclusions: Extraordinary Circumstances**

If any of these extraordinary circumstances apply a CX cannot be used.

Extraordinary circumstances exist for individual actions within CXs which may:

2.1: Have significant impacts on public health or safety.

Review: The proposed action would not affect public health or safety.

2.2: Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds; and other ecologically significant or critical areas.

Review: NONE

2.3: Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA Section 102(2)(E)].

Review: There are no unresolved conflicts nor highly controversial environmental affects.

2.4: Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks.

Review: No uncertain effects or environmental risks.

2.5: Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects.

Review: The action would not set a precedent for future actions.

2.6: Have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects.

Review: The proposed action does not contribute to significant environmental effects.

2.7: Have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by either the bureau or office.

Review: No properties exist in the allotment.

2.8: Have significant impacts on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species.

Review: The allotment does not provide habitat for any threatened or endangered species. Refer to the attached write up by Wildlife Biologist.

2.9: Violate a Federal law, or a State, local, or tribal law or requirement imposed for the protection of the environment.

Review: None of the listed laws are being violated.

2.10: Have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898).

Review: No minority populations affected.

2.11: Limit access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007).

Review: The proposed action would not impact any of these activities.

2.12: Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112).

Review: A Weed Risk Assessment was conducted in conjunction with the permit renewal process for the South Butte Allotment and the South Butte Seeding Allotment. Although noxious and invasive species are not problematic on these allotments, a moderate risk rating was assigned anyway due to the presence of four species found within the South Butte Allotment and several species in the vicinity on roads leading to both allotments. Musk thistle, bull thistle, hoary cress and scotch thistle have been identified as occurring on the South Butte Allotment. There are currently no mapped weed infestations within the South Butte Seeding Allotment. The assessment incorporates mitigation measures to diminish the threat of invasive and noxious weed introduction and spread as follows:

- Prior to entering public lands, the BLM will provide information regarding noxious weed management and identification to the permit holders affiliated with the project. The importance of preventing the spread of weeds to unfested areas and importance of controlling existing populations of weeds will be explained.
- The range specialist for the allotment will include weed detection into project compliance inspection activities. If the spread of noxious weeds is noted, appropriated weed control procedures will be determined in consultation with BLM personnel and

will be in compliance with the appropriate BLM handbook sections and applicable laws and regulations.

- To eliminate the introduction of noxious weed seeds, roots, or rhizomes all interim and final seed mixes, hay, straw, hay/straw, or other organic products used for feed or bedding will be certified free of plant species listed on the Nevada noxious weed list or specifically identified by the BLM Ely Field Office.
- Grazing will be conducted in compliance with the Ely District BLM noxious weed schedules. The scheduled procedures can significantly and effectively reduce noxious weed spread or introduction into the project area.
- Any newly established populations of noxious/invasive weeds discovered will be communicated to the Ely District Noxious and Invasive Weeds Coordinator for treatment.



**NEPA DOCUMENTATION AND REVIEW  
FOR  
RANGE PROJECTS**

Project Name: Paris Livestock permit on the South Butte and South Butte Seeding Allotments  
Proposed Action: The proposal is to fully process the grazing term permit and reissue a permit for Sam and Clelia Henriod

Resource: Wildlife

Briefly describe conflicts or issues associated with the action.

**Big Game:**

Elk – the allotments are in yearlong elk habitat.

Deer – The allotments are in yearlong and summer habitat

**Special Status Species:**

Sage Grouse – there are two leks within the allotments, of inactive or unknown status. The allotment contains nesting, summer and winter habitat.

Raptors – there are nesting locations or sightings of Ferruginous Hawks and Golden eagles in or near the allotments.

The allotments contain habitat for the Pygmy Rabbit, a BLM Sensitive Species which requires areas of deep soils and tall sagebrush.

**Migratory Birds:**

There is habitat for a variety of migratory birds within the allotments. These may include, but are not limited to; Loggerhead Shrike, Sage Sparrow and Sage Thrasher.

**Possible Effects:**

Grazing may have effects on habitats through alteration of vegetative communities, degradation of riparian or aquatic areas, or directly through trampling of ground dwelling wildlife habitats such as bird nests and small mammal burrows. Grazing at appropriate levels may reduce these possible impacts.

Information on species presence comes from Nevada Natural Heritage Program (NNHP) or Nevada Department of wildlife (NDOW) GIS layers.

**U.S. Department of the Interior  
Bureau of Land Management**

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STANDARDS AND DETERMINATION DOCUMENT  
August 25, 2008

**Sam and Clelia Henriod (Operator No. 2704544)  
Term Permit Renewal  
South Butte Allotment (00504) and  
South Butte Seeding Allotment (00506)**

*Location: Ely, Nevada  
Applicant/Address:*

U.S. Department of the Interior  
Bureau of Land Management  
Ely District Office  
Egan Field Office  
Phone: (775) 289-1800  
Fax: (775) 289-1910



## STANDARDS AND DETERMINATION DOCUMENT

Sam and Clelia Henriod (**Operator No. 2704544**) Term Permit Renewal  
South Butte Allotment (**00504**) and South Butte Seeding Allotment (**00506**)

### **Standards and Guidelines Assessment**

The Standards and Guidelines for Nevada's Northeastern Great Basin Area were developed by the Northeastern Great Basin Area Resource Advisory Council (RAC) and approved in 1997. Standards and guidelines are likened to objectives for healthy watersheds, healthy native plant communities, and healthy rangelands. Standards are expressions of physical and biological conditions required for sustaining rangelands for multiple uses. Guidelines point to management actions related to livestock grazing for achieving the standards.

This Standards and Determination Document evaluates and assesses livestock grazing management achievement of the Standards and conformance with the Guidelines for the South Butte Allotment and South Butte Seeding Allotment in the Ely BLM District. This document does not evaluate or assess achievement of the wild horse and burro or the off highway vehicle Standards or conformance to their respective Guidelines.

The Standards were assessed for the South Butte Allotment and South Butte Seeding Allotment by a BLM interdisciplinary team consisting of rangeland management specialists, wildlife biologist, weeds specialist, and watershed specialist. Documents and publications used in the assessment process include the Soil Survey of Western White Pine Area, Nevada, Parts of White Pine and Eureka Counties, Ecological Site Descriptions for Major Land Resource Area 28B, Interpreting Indicators of Rangeland Health (USDI-BLM et al. 2000), Sampling Vegetation Attributes (USDI-BLM et al. 1996) and the National Range and Pasture Handbook (USDA-NRCS 1997). A complete list of references is included at the end of this document. All are available for public review in the Ely BLM District Office. The interdisciplinary team used rangeland monitoring data, professional observations, and photographs to assess achievement of the Standards and conformance with the Guidelines.

The South Butte Allotment and the South Butte Seeding Allotment encompasses approximately 26,081 public land acres and 968 public land acres, respectively. The grazing permit area occurs entirely within White Pine County, and is situated approximately 18 miles northwest of Ely, Nevada. The permit area occurs within the Butte Watershed (041). Most of the South Butte Allotment is within the Butte Wild Horse Herd Management Area. Both allotments are located within the Butte sage grouse population unit. The permitted area occurs within the Nevada Department of Wildlife hunting management areas #10 and #12. No wilderness occurs within the permitted area. The nearest wilderness is the Bristlecone Peak Wilderness, which is approximately two miles away.

The South Butte Allotment and the South Butte Seeding Allotment have one permittee, Sam and Clelia Henriod. The current term permit for Sam and Clelia Henriod is issued for the period 03/01/2008 to 02/28/2018. These are both cattle allotments with a total

grazing preference of 508 Animal Unit Months (AUMs) for South Butte Allotment and 342 AUMs for the South Butte Seeding Allotment. For the South Butte Allotment, 396 AUMs are active and 112 AUMs are suspended nonuse, with the current term permit authorizing approximately 37 head of cattle with a season of use from 04/15 to 02/28. For the South Butte Seeding Allotment, 245 AUMs are active and 97 AUMs are suspended nonuse, with the current term permit authorizing approximately 40 head of cattle with a season of use from 05/01 to 10/31.

Final Multiple Use Decisions were issued for the South Butte Allotment on December 24, 1992 and for the South Butte Seeding Allotment on January 27, 1992. Each decision was reviewed and included in the analysis of existing data. These Final Multiple Use Decisions were based upon the evaluation of monitoring data, recommendations from district staff, and input received through consultation, coordination, and cooperation from the permittee and public interest groups to determine progress in meeting management objectives for each allotment. Based on these decisions range management actions were implemented to meet the land use plan objectives as stipulated in the Egan Resource Area Record of Decision.

Four key areas have been established over the past twenty years on the South Butte Allotment and two key areas have been established for the South Butte Seeding Allotment. The establishment of these key areas is based on accessibility and general use by livestock, vegetation, and ecological range sites. Key areas for the South Butte Allotment were monitored and utilization data collected from 1994 to 2007 was included in this assessment. Key forage species include Indian ricegrass, needle and thread, and winter fat. Key areas for the South Butte Seeding Allotment were established to collect utilization data of the crested wheatgrass, which is the key forage for this allotment. A summary of monitoring data for both allotments is located in Appendix I of this document.

## **PART 1. STANDARD CONFORMANCE REVIEW**

### **South Butte Allotment Standards Review**

#### **Standard 1. Upland Sites**

*Upland soils exhibit infiltration and permeability rates that are appropriate to soil type, climate and land form.*

As indicated by:

- Indicators are canopy and ground cover, including litter, live vegetation and rock, appropriate to potential of the site.

Determination:

#### **X Achieving the Standard**

- Not Achieving the Standard, but making significant progress towards achieving
- Not Achieving the Standard, and not making significant progress toward standard

#### Causal Factors

- Livestock are a contributing factor to not achieving the standard.
- Livestock are not a contributing factor to not achieving the standard
- Failure to meet the standard is related to other issues or conditions

#### Guidelines Conformance:

##### **X In conformance with the Guidelines**

- Not in conformance with the Guidelines

#### *Conclusion: Standard Achieved*

UPLANDS Sites: Rangeland monitoring and professional observation indicates that overall soil condition is currently being maintained on the native range. Soils are stable and productive and the topsoil is holding in place. Line intercept cover data collected on the allotment shows the majority of the South Butte Allotment is meeting the standard. Vegetative cover registered within the appropriate ground cover percentage for three of the four key areas where data was collected (see Appendix I).

Key Area SB-1 occurs in the Heist soil type, 353 soil mapping unit – (silty loam, 0-4% slopes). The ecological site for Key Area SB-1 is an 8-10” P.Z. – 028BY013 – winterfat/Indian ricegrass. The approximate potential ground cover (basal and crown) according to the range site is 10-20%. Cover measured at the key area is 11%. The level of vegetative cover is appropriate for the site which is dominated by winterfat. The soil surface is silty and the topography ranges from flat to slight slopes. According to the Ecological Site Description, the soil permeability is moderate to moderately rapid with moderate to high available water holding capacity. Potential for sheet and rill erosion is slight; however, this soil has a potential for formation of gullies, especially in areas near shallow drainages. Utilization at this key area has been slight to light, with moderate use only recorded in 2002. There are no obvious signs of erosion, such as gullies, rills, and minimal pedestalling of plants. All indications are that the site is stable and functioning according to potential of the site.

Key Area SB-2 occurs in the Alley soil type, 1251 soil mapping unit – (loamy, 2-8% slopes). This soil mapping unit occurs on over 50% of the allotment. The ecological site for Key Area SB-2 is an 8-10” P.Z. – 028BY010 – Wyoming big sagebrush/Indian ricegrass. The approximate potential ground cover (basal and crown) according to the range site is 10-20%. Cover measured at the key area is 26%. The level of vegetative cover is appropriate for the site which is dominated by needle and thread grass. This key area occurs within an area that had a fire in 1986. The soil surface is gravelly sandy loam and the topography is dominated by fan piedmonts and low rolling hills. According to the Ecological Site Description, the water holding capacity of the soil varies, ranging from low to moderate. Potential for sheet and rill erosion is moderate to high depending on slope. Utilization at this key area has been predominately moderate to heavy. Although utilization has been above the moderate level recommended in the Final Multiple Use Decision, cover has increased from 8% to 26%. Even with the potential for increased erosion following the fire, the site does not demonstrate signs of erosion, such

as gullies, rills, or pedestalling. All indications are that the site is stable and functioning according to potential of the site.

Key Area SB-3 also occurs in the Alley soil type, 1251 soil mapping unit – (loamy, 2-8% slopes). The ecological site for Key Area SB-3 is an 8-10” P.Z. – 028BY010 – Wyoming big sagebrush/Indian ricegrass. The approximate potential ground cover (basal and crown) according to the range site is 10-20%. Cover measured at the key area is 10%. The level of vegetative cover is appropriate for the site which is dominated by needle and thread grass. This key area also occurs within the area that was burned in 1986. The soil surface is gravelly sandy loam and the topography is dominated by fan piedmonts and low rolling hills. According to the Ecological Site Description, the water holding capacity of the soil varies, ranging from low to moderate. Potential for sheet and rill erosion is moderate to high depending on slope. Utilization at this key area has been predominately moderate to heavy. Although utilization has been above the moderate level recommended in the Final Multiple Use Decision, cover is within the range of approximate potential ground cover for this range site. Even with the potential for increased erosion following the fire, the site does not demonstrate signs of erosion, such as gullies, rills, or pedestalling. All indications are that the site is stable and functioning according to potential of the site.

Key Area SB-4 occurs in the Hessing soil type, 1511 soil mapping unit – (coarse gravelly loam, 0-2% slopes). The ecological site for Key Area SB-4 is a 6-8” P.Z. – 028BY075 – shadscale/Indian ricegrass. The approximate potential ground cover (basal and crown) according to the range site is 15-25%. Cover measured at the key area is 7%. The level of vegetative cover is not appropriate for the site. However, due to the soil and topography characteristics of this site, the potential for sheet and rill erosion is slight to moderate. The soil surface is loamy surface with subsoils loamy to sandy in texture. Gravelly sandy loam and the topography is flat with slight sloping. According to the Ecological Site Description, these soils have moderately rapid permeability and are well drained. Utilization at this key area has been slight to light. The site does not demonstrate signs of erosion, such as gullies, rills, or pedestalling. Although vegetative cover is less than what is appropriate for this site, all other indications are that the site is stable and functioning according to potential of the site.

## **Standard 2. Riparian and Wetland Sites**

*Riparian and wetland areas exhibit a properly functioning condition and achieve state water quality criteria.*

As indicated by:

- Stream side riparian areas are functioning properly when adequate vegetation, large woody debris, or rock is present to dissipate stream energy associated with high water flows. Elements indicating proper functioning condition such as avoiding accelerating erosion, capturing sediment, and providing for groundwater recharge and release are determined by the following measurements as appropriate to the site characteristics:

- Width/Depth ratio; Channel roughness; Sinuosity of stream channel; Bank stability; Vegetative cover (amount, spacing, life form); and other cover (large woody debris, rock).
- Natural springs, seeps, and marsh areas are functioning properly when adequate vegetation is present to facilitate water retention, filtering, and release as indicated by plant species and cover appropriate to the site characteristics.
- Chemical, physical and biological water constituents are not exceeding the state water quality standards.

The above indicators shall be applied to the potential of the site.

Determination:

**X Achieving the Standard**

- Not Achieving the Standard, but making significant progress towards
- Not Achieving the Standard, and not making significant progress toward standard

Causal Factors

- Livestock are a contributing factor to not achieving the standard.
- Livestock are not a contributing factor to not achieving the standard
- Failure to meet the standard is related to other issues or conditions

Guidelines Conformance:

**X In conformance with the Guidelines**

- Not in conformance with the Guidelines

*Conclusion: Standard Achieved*

Riparian: There are six springs on the South Butte Allotment on public land. Five of these springs are located at high elevations in steep terrain that is not accessed by cattle. The sixth spring is a developed water source that has been piped and considered non-functional due to development. Due to this development this spring is no longer considered a riparian area. This piped water source is located at approximately 6,650 feet elevation and developed for stock water use. Dense high sage brush and rabbit brush around the developed water source were observed in 2007, but no water is visible at the spring source. The remaining springs located within this allotment are located on private land. Bothwick Creek is also within the allotment. Flow of this creek occurs on private land, but flow dissipates before reaching public land. Water for this creek may reach public lands during high flow years, but it does not flow frequently enough to support a riparian area with riparian characteristics. See Appendix II, Figure IV for a map of water sources for this allotment.

**Standard 3. Habitat:**

*Habitats exhibit a healthy, productive, and diverse population of native and/or desirable plant species, appropriate to the site characteristics, to provide suitable feed, water, cover and living space for animal species and maintain ecological processes. Habitat conditions meet the life cycle requirements of threatened and endangered species.*

As indicated by:

- Vegetation composition (relative abundance of species);
- Vegetation structure (life forms, cover, height, or age class);
- Vegetation distribution (patchiness, corridors);
- Vegetation productivity; and
- Vegetation nutritional value.

Determination:

Achieving the Standard

**Not Achieving the Standard, but making significant progress towards**

Not Achieving the Standard, not making significant progress toward standard

Causal Factors

Livestock are a contributing factor to not achieving the standard.

**Livestock are not a contributing factor to not achieving the standard**

**Failure to meet the standard is related to other issues or conditions**

Guidelines Conformance:

**In conformance with the Guidelines**

Not in conformance with the Guidelines

*Conclusion: Not achieving the Standard, but making significant progress towards. Livestock are not a contributing factor to not achieving the Standard, failure to meet the standard is related to other issues or conditions.*

Rangeland monitoring (including frequency trend, composition, use pattern mapping, and key forage plant utilization) show habitat conditions overall exhibit a healthy, productive, and diverse plant community that is progressing toward providing suitable habitat for wildlife and maintaining ecological processes over the majority of the allotment. Vegetative structure and distribution are appropriate for the allotment as determined by ecological site descriptions, monitoring data, range observations and professional judgment.

Within the South Butte Allotment current vegetation communities are not meeting the standard, however since the Final Multiple Use Decision issued in 1992 they are progressing toward the standard. Utilization studies conducted on the allotment showed livestock grazing to be within proper use levels. Vegetative composition is appropriate for the potential of the site and the site characteristics. Sagebrush communities exhibit a healthy herbaceous understory. Percent composition for the shrub component is higher than what is appropriate at some sites. Vegetation distribution with respect to patchiness, is present, this is due to natural wildfires that occurred within the community types. The winterfat site is demonstrating a declining frequency trend that is not attributed to livestock grazing since utilization has been slight to light most years. Below is a summary of each key area from Appendix I.



Key Area SB-1: Utilization of winterfat at Key Area SB-1 have been primarily in the slight to light range, with 2002 being the only year utilization reached the moderate range. Due to the decrease in halogeton along with winterfat, the description for the decline of ecological condition does not explain why the trend at this area is declining. Precipitation data since 1981 does show an overall decline in precipitation, but whether this is a factor in why this area has a declining trend has not been determine. It has been determined that this declining trend is not attributed to current livestock grazing since utilization levels are primarily in the slight to light range.

Key Area SB-2: Plant community dynamics for this ecological range site include as ecological condition declines, Wyoming big sagebrush and Douglas' rabbitbrush increase, while Indian ricegrass and needle and thread decrease.

This site is in the mid seral range. This key area and SB-3 both occur within an area that had a fire disturbance in 1986. This key area is dominated by needle and thread grass, with Indian rice grass also present. Although shrubs are present in the area, none were recorded in the transect. Ecological condition of this site is on an upturn with increased grasses and shrubs not currently outcompeting these grasses.

Key Area SB-3: See plant community dynamics described above for key area SB-2. This site is in the early seral range. This key area and SB-2 both occur within an area that had a fire disturbance in 1986. This key area is dominated by needle and thread grass, with a small amount of Sandberg's bluegrass present. Douglas rabbitbrush is beginning to increase in the area, however ecological condition of this site is stable with a good grass component and the shrubs are not currently outcompeting grasses.

Key Area SB-4: Plant community dynamics for this range site include as ecological condition declines, shadscale and Douglas' rabbitbrush will increase in density, while Indian ricegrass composition will be reduced. With further degradation, shadscale may become dominant to the extent of a nearly pure stand. After a major disturbance such as a fire, Douglas' rabbitbrush may become dominant on this site.

This site is in a mid seral range. This key area is dominated by bottlebrush squirreltail and shadscale. There are traces of halogeton present. Although shadscale is increasing, this site still has a good grass component and the ecological condition is stable.

### **South Butte Seeding Allotment Standards Review**

#### **Standard 1. Upland Sites**

*Upland soils exhibit infiltration and permeability rates that are appropriate to soil type, climate and land form.*

As indicated by:

- Indicators are canopy and ground cover, including litter, live vegetation and rock, appropriate to potential of the site.

Determination:

**X Achieving the Standard**

- Not Achieving the Standard, but making significant progress towards achieving
- Not Achieving the Standard, and not making significant progress toward standard

Causal Factors

- Livestock are a contributing factor to not achieving the standard.
- Livestock are not a contributing factor to not achieving the standard
- Failure to meet the standard is related to other issues or conditions

Guidelines Conformance:

**X In conformance with the Guidelines**

- Not in conformance with the Guidelines

*Conclusion: Standard Achieved*

UPLANDS Sites: Rangeland monitoring and professional observation indicates that overall soil condition is currently being maintained on the native range. Soils are stable and productive and the topsoil is holding in place.

Key Areas SBS-1 and SBS-2 both occur in the Alley soil type, 1251 soil mapping unit – (loamy, 2-8% slopes). This soil mapping unit occurs on over 50% of the allotment. The ecological site for these key areas is an 8-10” P.Z. – 028BY010 – Both key areas have crested wheatgrass as the dominate vegetation. The soil surface is gravelly sandy loam and the topography is dominated by fan piedmonts and low rolling hills. According to the Ecological Site Description, the water holding capacity of the soil varies, ranging from low to moderate. Potential for sheet and rill erosion is moderate to high depending on slope. Utilization at these key areas has ranged from moderate to severe. Although utilization has been above the 65% level recommended in the Final Multiple Use Decision, neither key area shows visible signs of erosion, such as gullies, rills, or pedestalling. All indications are that these areas are stable and functioning according to potential of the site.

**Standard 2. Riparian and Wetland Sites**

*Riparian and wetland areas exhibit a properly functioning condition and achieve state water quality criteria.*

As indicated by:

- Stream side riparian areas are functioning properly when adequate vegetation, large woody debris, or rock is present to dissipate stream energy associated with high water flows. Elements indicating proper functioning condition such as avoiding accelerating erosion, capturing sediment, and providing for groundwater recharge and release are determined by the following measurements as appropriate to the site characteristics:
  - Width/Depth ratio; Channel roughness; Sinuosity of stream channel; Bank

stability; Vegetative cover (amount, spacing, life form); and other cover (large woody debris, rock).

- Natural springs, seeps, and marsh areas are functioning properly when adequate vegetation is present to facilitate water retention, filtering, and release as indicated by plant species and cover appropriate to the site characteristics.
- Chemical, physical and biological water constituents are not exceeding the state water quality standards.

The above indicators shall be applied to the potential of the site.

Determination:

**X Achieving the Standard**

- Not Achieving the Standard, but making significant progress towards
- Not Achieving the Standard, and not making significant progress toward standard

Causal Factors

- Livestock are a contributing factor to not achieving the standard.
- Livestock are not a contributing factor to not achieving the standard
- Failure to meet the standard is related to other issues or conditions

Guidelines Conformance:

**X In conformance with the Guidelines**

- Not in conformance with the Guidelines

*Conclusion: Standard Achieved*

Riparian: No natural water sources are located in the South Butte Seeding Allotment. See Appendix II, Figure IV for a map of water sources on this allotment.

**Standard 3. Habitat:**

*Habitats exhibit a healthy, productive, and diverse population of native and/or desirable plant species, appropriate to the site characteristics, to provide suitable feed, water, cover and living space for animal species and maintain ecological processes. Habitat conditions meet the life cycle requirements of threatened and endangered species.*

As indicated by:

- Vegetation composition (relative abundance of species);
- Vegetation structure (life forms, cover, height, or age class);
- Vegetation distribution (patchiness, corridors);
- Vegetation productivity; and
- Vegetation nutritional value.

Determination:

**X Achieving the Standard**

- Not Achieving the Standard, but making significant progress towards
- Not Achieving the Standard, not making significant progress toward standard

#### Causal Factors

- Livestock are a contributing factor to not achieving the standard.
- Livestock are not a contributing factor to not achieving the standard
- Failure to meet the standard is related to other issues or conditions

#### Guidelines Conformance:

##### **X In conformance with the Guidelines**

- Not in conformance with the Guidelines

*Conclusion: Standard Achieved.*

Rangeland monitoring (including professional observations and key forage plant utilization) show habitat conditions overall exhibit a healthy, and productive, plant community that is progressing toward providing suitable habitat for wildlife and maintaining ecological processes over the majority of the allotment. Vegetative structure and distribution is appropriate for this crested wheat seeding allotment as determined by ecological site descriptions, monitoring data, range observations and professional judgment.

Key Areas SBS-1 and SBS-2: Both key areas occur in same ecological range site, 028BY010. The plant community dynamics for this ecological range site would normally include as ecological condition declines, Wyoming big sagebrush and Douglas' rabbitbrush increase, while Indian ricegrass and needle and thread decrease.

However, since this allotment is a crested wheat seeding, the plant community dynamics have been altered. Although shrub densities are increasing within the South Butte Seeding Allotment, the crested wheatgrass is maintaining good vigor and this grass species is able to handle the grazing pressure, especially during the critical growing season.

## **PART 2. ARE LIVESTOCK A CONTRIBUTING FACTOR TO NOT MEETING THE STANDARDS? SUMMARY REVIEW:**

### **South Butte Allotment Standards Summary Review**

#### Standard #1: Upland Sites

The Standard is being achieved.

#### Standard #2: Riparian and Wetlands

The Standard is being achieved.

#### Standard #3: Habitat

The Standard is not being achieved. Livestock are not a contributing factor to not achieving the Standard. Utilization of winterfat at Key Area SB-1 have been primarily in the slight to light range, with 2002 being the only year utilization reached the moderate

range. Due to the decrease in halogeton along with winterfat, the description for the decline of ecological condition does not explain why the trend at this area is declining. Precipitation data since 1981 does show an overall decline in precipitation, but whether this is a factor in why this area has a declining trend has not been determine. It has been determined that this declining trend is not attributed to current livestock grazing since utilization levels are primarily in the slight to light range.

### **South Butte Seeding Allotment Standards Summary Review**

Standard #1: Upland Sites

The Standard is being achieved.

Standard #2: Riparian and Wetlands

The Standard is being achieved.

Standard #3: Habitat

The Standard is being achieved.

### **PART 3. GUIDELINE CONFORMANCE REVIEW AND SUMMARY**

Grazing is in conformance with all applicable Guidelines as provided in the Northeastern Great Basin Standards and Guidelines.

### **PART 4. MANAGEMENT PRACTICES TO CONFORM WITH GUIDELINES AND ACHIEVE STANDARDS**

#### Discussion:

Current management practices implemented since the Final Multiple Use Decisions were issued for the South Butte Allotment on December 24, 1992 and for the South Butte Seeding Allotment on January 27, 1992 are helping these allotments to achieve standards.

#### Recommendations:

Continue all desirable livestock management practices currently being implemented as established in the Final Multiple Use Decisions for these allotments and identified below. Use levels will also be carried forward from the Multiple Use Decisions as identified below. Continue rangeland monitoring of these allotments for livestock in compliance with proper allowable use levels established in the Final Multiple Use Decisions for these allotments.

1. The seasons of use are recommended to remain April 15 to February 28 on the South Butte Allotment and May 1 to October 31 on the South Butte Seeding Allotment
2. The Active AUMs are recommended to remain at 396 Active AUMs on the South Butte Allotment and 245 Active AUMs on the South Butte Seeding Allotment.
2. Salt and/or mineral supplements for livestock shall be located no closer than ¼ mile from water sources. Supplements are to be placed ½ mile from existing waters.

3. Utilization levels should remain as follows:
  - South Butte Allotment maximum utilization on native key species at 50%
  - South Butte Seeding Allotment allowable use for crested wheatgrass at 65%
4. Wildlife escape ramps would be installed and maintained by the permittee at each trough used on the allotment (permanent or temporary).

REFERENCES

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USDI – BLM. 2008. Integrated Vegetation Management Handbook H-1740-2

Prepared by:

/s/Mindy Seal  
 Mindy Seal, Rangeland Management Specialist  
 (SCEP)

8/20/08  
 Date

Reviewed by:

/s/ Gary Medlyn for Kari Harrison Soil/water/air/floodplains/riparian/wetlands	8/25/08 Date
/s/Bonnie Waggoner Bonnie Waggoner Noxious and invasive non-native species	8/20/08 Date
/s/ Nicholas Pay Nicholas Pay Cultural resources	8/20/08 Date
/s/Ruth Thompson for Benjamin Noyes Wild horses and burros	8/21/08 Date
/s/ Marian Lichtler Marian Lichtler Wildlife/migratory birds/special status animals/plants	8/21/08 Date
/s/ Dave Jacobson Dave Jacobson Wilderness Values/ACEC/Special designations	8/21/08 Date
/s/ Kalem Lenard Kalem Lenard VRM/recreation	8/22/08 Date
/s/ Melanie Peterson Melanie Peterson Hazardous and solid wastes	8/20/08 Date
/s/ Elvis Wall Elvis Wall Native American religious concerns	8/22/08 Date
/s/ Gina Jones Gina Jones Ecology/environmental coordination	8/25/08 Date

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/s/ Gary Medlyn  
Gary Medlyn  
Watershed analyses

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8/25/08  
Date

I concur:

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/s/Chris Mayer  
Chris Mayer  
Supervisory Rangeland Management Specialist  
Egan Field Office

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8/26/08  
Date

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/s/ Jeffrey A. Weeks  
Jeffrey A. Weeks  
Field Manager  
Egan Field Office

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8/26/08  
Date



APPENDIX I  
DATA ANALYSIS  
South Butte Allotment and South Butte Seeding Allotment

**1. Review of Final Multiple Use Decisions**

Final Multiple Use Decisions were issue for the South Butte Allotment on December 24, 1992 and for the South Butte Seeding Allotment on January 27, 1992. These were reviewed and included in the analysis of existing data.

**2. Key Areas and Ecological Sites**

A key area is a relatively small portion of a unit selected as a point for monitoring change in vegetation or soil and the impacts of management. Key areas, if properly located, reflect the current management over similar important areas in the unit. Key areas represent range conditions, trends, seasonal degrees of use, and resource production and values. Table 2-1 and Table 2-2 depict key areas and their location within each allotment as well as the ecological site number associated with the key area.

Ecological Sites are interpretive units into which landscapes of native vegetation are separated for study, evaluation, and management. An ecological site, as defined for rangeland, is a distinctive kind of land with specific physical characteristics that differs from other kinds of land in its ability to produce a distinctive kind and amount of vegetation (NRCS 1997). The ecological site of a key area is determined based several factors including soil mapping unit, topography, and plant community.

**Table 2-1.**

<b>South Butte Allotment Key Areas</b>				
<b>Key Area</b>	<b>Location</b>	<b>Ecological Site</b>	<b>Major Plant Community Common to this Ecological Site</b>	<b>Soil Type</b>
SB-1	T20N, R62E, sec 31, SE1/4,SE1/4	028BYO013NV	winterfat/Indian ricegrass	silty 8-10"
SB-2	T19N, R62E, sec 17, SE1/4,NW1/4	028BYO010NV	Wyoming big sagebrush/Indian ricegrass/needle and thread grass	loamy 8-10"
SB-3	T19N, R62E, sec 19, NW1/4,NE1/4	028BYO010NV	Wyoming big sagebrush/Indian ricegrass/needle and thread grass	loamy 8-10"
SB-4	T20N, R61E, sec 36, SW1/4, SW1/4	028BYO075NV	shadscale/Indian ricegrass	coarse gravelly loam 6-10"

**Table 2-2.**

South Butte Seeding Allotment Key Areas				
Key Area	Location	Ecological Site	Major Plant Community	Soil Type
SBS-1	T20N, R62E, sec 31, SE1/4,SE1/4	028BYO010NV	crested wheat	loamy 8-10"
SBS-2	T19N, R62E, sec 17, SE1/4,NW1/4	028BYO010NV	crested wheat	loamy 8-10"

**3. Licensed Livestock Use**

Over the last nine grazing seasons from 1999 to 2007, livestock licensed actual use on the South Butte Allotment has varied only a small degree with a high of 396 AUMs in 2000 and 2007, and a low of 313 AUMs in 2003. During this same time period livestock licensed actual use on the South Butte Seeding Allotment ranged from a high of 215 AUMs in 2005 to a low of 75 AUMs in 1999. Livestock use on both allotments has varied dependent on growing conditions, available forage, and management objectives of the permittee and the BLM. Table 3-1 included licensed actual use and percentage of licensed actual use compared to total active AUMs permitted by allotment. Active AUMs permitted for the South Butte Allotment are 396, and active AUMs permitted for the South Butte Seeding Allotment are 245.

Table 3-1. grazing year	South Butte Allotment		South Butte Seeding Allotment	
	Licensed Actual Use (AUMs)	% Licensed Actual Use of Permitted Use (AUMs)	Licensed Actual Use (AUMs)	% Licensed Actual Use of Permitted Use (AUMs)
1999	0	0%	75	31%
2000	396	100%	124	51%
2001	394	99%	155	63%
2002	395	100%	141	58%
2003	313	79%	168	69%
2004	395	100%	110	45%
2005	375	95%	215	88%
2006	322	81%	168	69%
2007	396	100%	166	68%

**4. Utilization**

The following is a summary of the livestock utilization data collected on the South Butte Allotment and the South Butte Seeding Allotment. The South Butte Allotment Final Multiple Use Decision sets maximum utilization on native key species at 50%, and the South Butte Seeding Allotment Final Multiple Use Decision sets allowable use for

crested wheatgrass at 65%. The general utilization objective for all allotments in the former Egan Resource Area of the Ely Field Office Area according to the Egan Resources Management Plan and Final Environmental Impact Statement (RMP/FEIS – September, 1984) and Record of Decision (ROD – February, 1987) is to “Establish utilization limits to maintain watershed cover, plant vigor and soil fertility in consideration of plant phenology, physiology, terrain, water availability, wildlife needs, grazing systems and aesthetic values.” (Egan ROD, p. 44). The Nevada Rangeland Monitoring Handbook gives recommendations as to the proper use levels by plant category (grass, forbs, shrubs) and by grazing season (spring, summer, fall, winter, yearlong). Proper use levels for all allotments are also implied by the Standards and Guidelines for Rangeland Health and Grazing Administration (February 1997).

Key forage plant utilization method (KFPM) was used to collect utilization data at the key areas. There are four key areas established on the South Butte Allotment and two key areas established on the South Butte Seeding Allotment. Utilization for each of these areas is summarized in Table 4-1 and Table 4-2. Average utilization for the South Butte Allotment key areas from 1994 to 2004 is 40%. Average utilization for the South Butte Seeding Allotment key areas from 2002 to 2003 is 70%.

**Table 4-1. South Butte Allotment Utilization**

Key Area	Key Species	Grazing Year	Utilization	Total
SB-1	winter fat	1994	light	22%
		1996	slight	10%
		1997	slight	14%
		1998	light	24%
		1999	slight	14%
		2001	light	24%
		2002	moderate	42%
		2003	slight	18%
		2004	slight	20%
SB-2	needle and thread	1994	heavy	60%
		1996	light	24%
		1997	moderate	46%
		1998	moderate	44%
		1999	severe	90%
		2001	heavy	80%
		2002	heavy	70%
		2003	heavy	70%
SB-3	needle and thread	1994	heavy	66%
		1996	light	22%
		1997	heavy	60%
		1998	moderate	44%

		1999	severe	82%
		2001	heavy	72%
		2002	moderate	54%
		2003	moderate	52%
		2004	heavy	62%
SB-4	bottlebrush squirreltail	1997	slight	16%
		1998	light	28%
		1999	light	12%
		2001	light	26%
		2002	slight	10%
		2003	slight	10%
		2004	light	34%
<b>Additional sites utilization data was collected.</b>				
T19N, R61E, S36, NESE	needle and thread	1996	heavy	64%
UPPER Bradley Canyon	needle and thread	1997	moderate	58%
	needle and thread	1999	heavy	80%

**Table 4-2. South Butte Seeding Allotment Utilization**

Key Area	Key Species	Grazing		
		Year	Utilization	Total
SBS-1	crested wheatgrass	2002	heavy	70%
		2003	severe	90%
SBS-2	crested wheatgrass	2002	moderate	56%
		2003	heavy	62%

Use pattern mapping has also been completed for the primary areas used by cattle of the South Butte Allotment. These primary areas received the majority of use in the light to moderate range for 1995, and slight to light range in 1999. Heavy use does occur near water sources within the allotment, but as seen in the maps in Figure II and Figure III of Appendix II, this use decreases away from the water sources. The table below depicts acres of use that were mapped and percent of use based on total acres mapped each year. Use pattern mapping data was not collected for the remainder of the allotment. Also, use pattern mapping data was not collected for the South Butte Seeding Allotment.

**Table 4-3. South Butte Allotment Use Pattern Mapping**

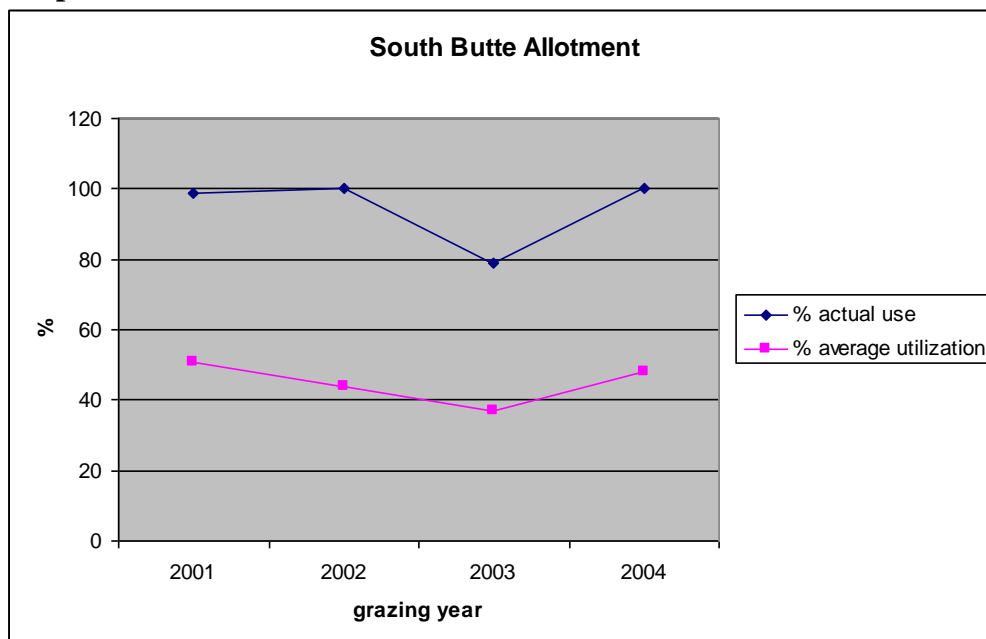
Year	Type of Use	Acres	Percent of Use Based on Total Acres Mapped Each Year
1995	No Use	405	9%

	Slight	0	0%
	Light	2525	53%
	Moderate	1070	22%
	Heavy	764	16%
1999	No Use	294	15%
	Slight	951	48%
	Light	489	25%
	Moderate	138	7%
	<b>Heavy</b>	<b>100</b>	<b>5%</b>

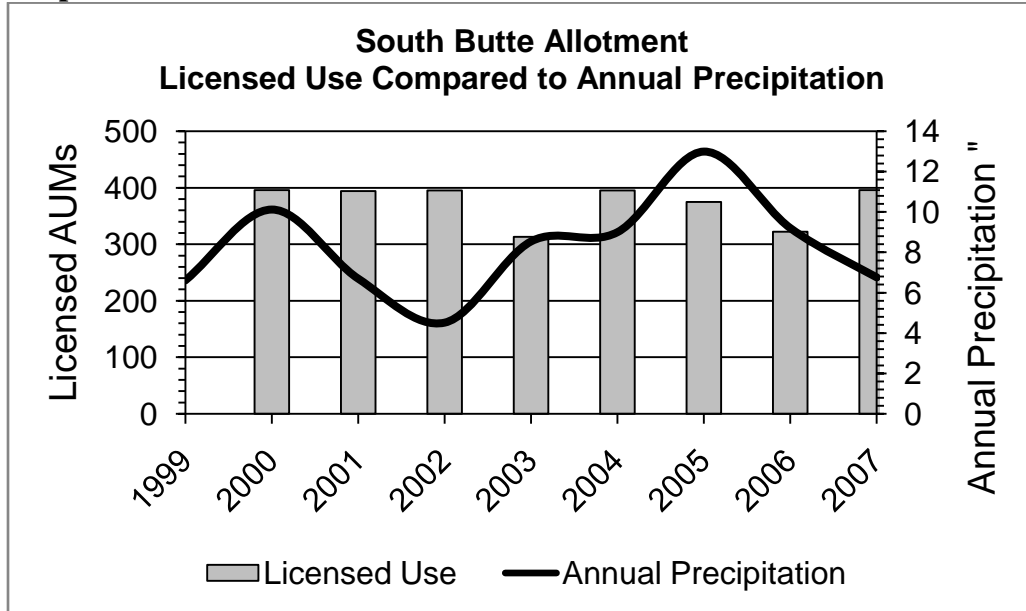
### 5. Analysis of Licensed Livestock Use Compared to Utilization and Precipitation

A comparison of licensed actual use to utilization and a comparison of licensed actual use to annual precipitation based on data available for each grazing year is shown in the following graphs. Utilization in the South Butte Allotment was moderate for most years with all or almost all AUMs for this allotment being activated. Utilization in the South Butte Seeding Allotment was heavy with an average of over 60% of the AUMs for this allotment being activated. Licensed use on the South Butte Allotment was relatively constant with the amount of precipitation impacting available forage only to a small extent. This is attributed to the changes implemented from the final multiple use decision and the implementation of improved grazing practices for better livestock distribution on this allotment. The South Butte Seeding Allotment, however, has been impacted by the available precipitation, with licensed use varying greatly due to the lack of forage availability. Utilization has also been above the moderate range due to lack of precipitation, even with the permittee reducing grazing in this allotment.

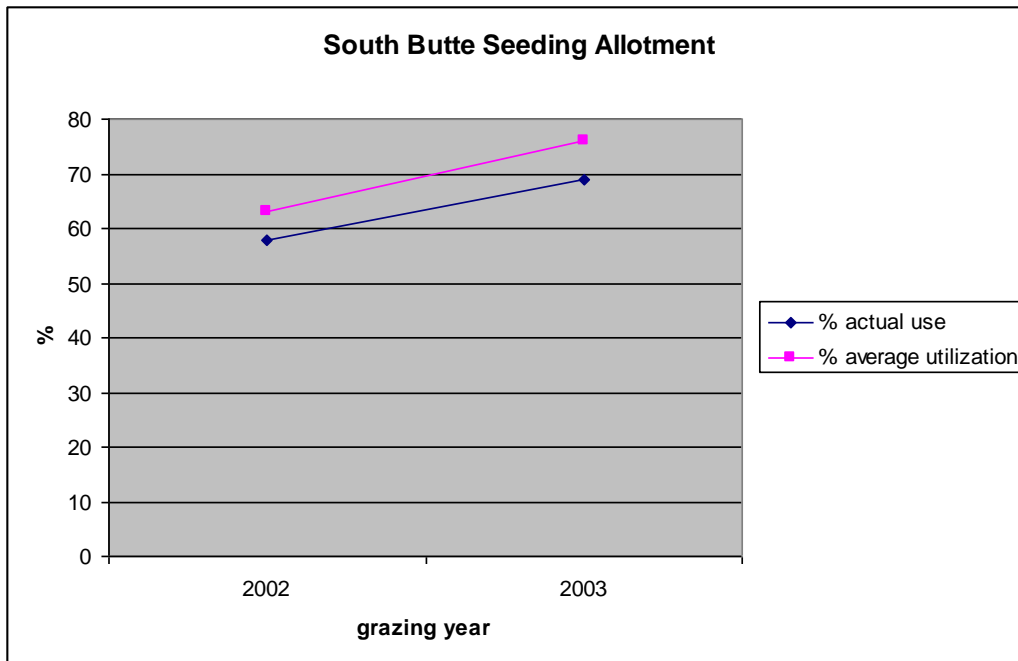
**Graph 5-1.**



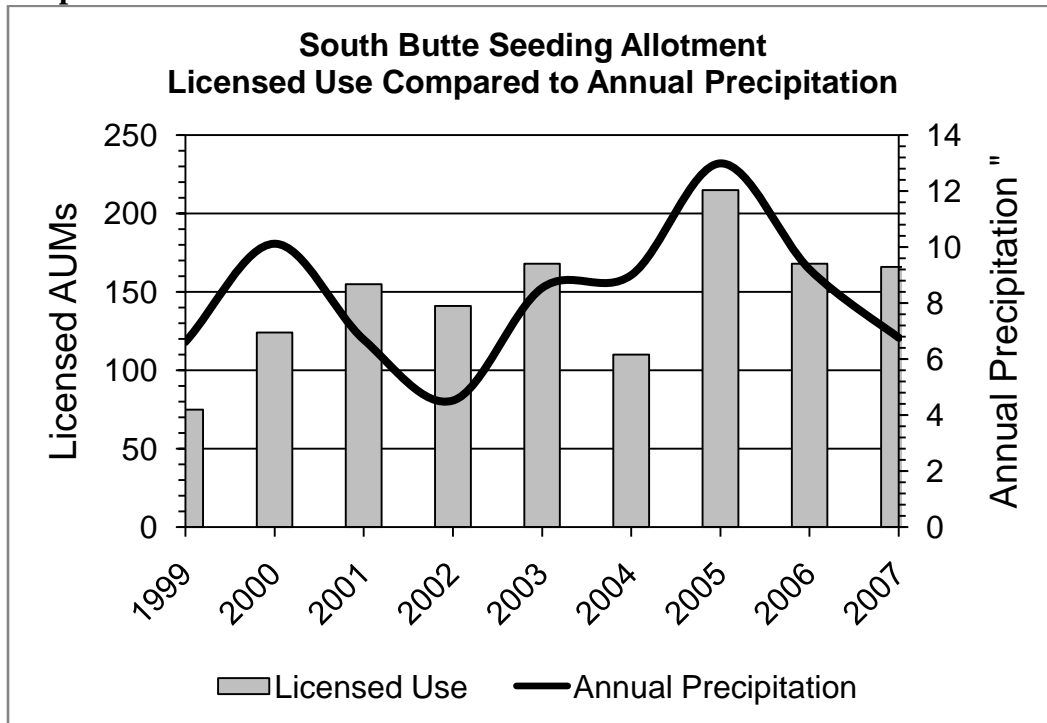
**Graph 5-2.**



**Graph 5-3.**



**Graph 5-4.**



**6. Line Intercept Cover Studies**

The Line Intercept Cover Study is a commonly used method of estimating the relative percent live foliar cover of a range site by plant class (tree, shrub, grass, forb, or annual). The method also estimates the percent live foliar cover by plant species. The results are then compared to the appropriate cover for each range site as indicated by the Natural Resources Conservation Service (NRCS) range site guides. Results are also compared to what is known about healthy rangelands in general.

Line intercept cover studies have been conducted at the four key areas on the South Butte Allotment. The table below demonstrates data collect at these four key areas and the range site potential for each site. Line intercept cover studies have not been done for South Butte Seeding Allotment.

**Table 6-1.**

South Butte Allotment Cover Data				
Date	Key Area	Range Site	Existing Cover (%)	Potential Cover (%)
6/3/2003	SB-1	028BYO013NV	11%	10% to 20%
6/4/2003	SB-2	028BYO010NV	8%	10% to 20%
9/25/2007	SB-2	028BYO010NV	26%	10% to 20%
6/4/2003	SB-3	028BYO010NV	10%	10% to 20%
6/4/2003	SB-4	028BYO075NV	7%	15% to 25%

**7. Frequency Trend Studies**

Frequency trend studies have been established on four native key grazing areas in the South Butte Allotment. The study at Key Area SB-1 was established and read on June 18, 1993 and read again on June 3, 2003 (10 year difference). The trend studies for SB-2, SB-3, and SB-4 were established and read in June of 2003. However, these three key areas have no additional data, so trend has not been determined. The table and photos below show that Key Area SB-1 is demonstrating a declining trend.

Utilization of winterfat at Key Area SB-1 have been primarily in the slight to light range, with 2002 being the only year utilization reached the moderate range. The ecological site description for this area states that “As ecological condition declines, bottlebrush squirreltail and shadscale increase as winterfat and Indian ricegrass decrease. With further site deterioration, cheatgrass, halogeton and annual mustards invade the interspace areas between shrub species. On heavily disturbed sites, these annual species, particularly halogeton, become dominant.” Due to the decrease in halogeton along with winterfat, the description for the decline of ecological condition does not explain why the trend at this area is declining. Precipitation data since 1981 as seen in Graph 7-1, does show an overall decline in precipitation, but whether this is a factor in why this area has a declining trend has not been determine. It has been determined that this declining trend is not attributed to current livestock grazing since utilization levels are primarily in the slight to light range.

**Table 7-1.**

Key Area	Years Read	Changes
SB-1	1993/2003	less winter fat less halogeton

**Figure 7-1 Comparison of Frequency Trend Photos**

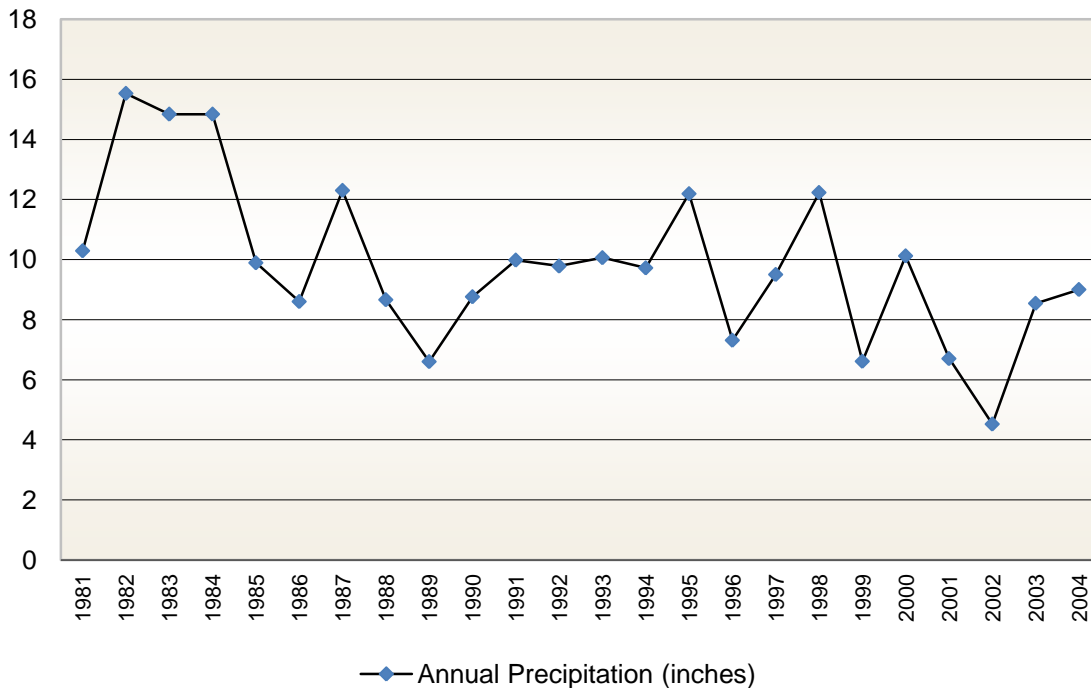
6/18/1993

6/03/2003





Chart 7-1



### 8. Similarity Index of Ecological Site Inventory

The Integrated Vegetation Management Handbook H-1740-2 describes the similarity index of Ecological Site Inventory to assess vegetation condition. The similarity index is a calculation based on a comparison of the plant species composition of a presently existing plant community to the plant species composition of a reference condition (potential natural community or climax). When the similarity index is computed, a successional status category is derived that signals how far away or how close the presently existing plant community is successional to the historic climax plant community or the potential natural community for that ecological site. A similarity index of 0 to 25% represents an early seral plant community. A similarity index of 26 to 50% represents a mid-seral plant community. A similarity index of 51 to 75% represents a late seral plant community. A similarity index of 76 to 100% represents the potential natural community.

It should be understood that vegetation objectives that are developed using successional status (seral status) categories are not always focused on achieving the reference condition(s). Another way of saying this is that the potential natural community or the historic climax plant community is not always the target endpoint of vegetation management. The reference indicators are the range in production (pounds per acre) of each plant species' annual aboveground production (air-dry weight), or less frequently, cover, for the potential natural community or the historic climax plant community. Sometimes the range in production or range in cover is also converted to a range in percent of plant species composition. Existing plant species composition is compared against the reference indicators to estimate successional or seral status.

It should also be noted that BLM no longer links the seral status categories of potential natural community, late seral, mid-seral, and early seral, to range condition categories of excellent, good, fair, and poor. The range condition categories of excellent, good, fair, and poor were developed to connote forage condition of the rangeland for livestock types (for example cattle and sheep). Instead this technique in conjunction with other data ascertains livestock forage condition, assesses the relative value of vegetation communities for wildlife and their habitat, and ascertains the achievement of health standards in relation to vegetation.

The following table summarizes data collected at four key areas by the similarity index and composition for the South Butte Allotment.

**Table 8-1. Similarity Index/Seral Stages and Composition of South Butte Allotment Key Areas**

Key Area: SB-1

Date: 7/24/2003

Range Site: 028BY013NV

Plant Common Name	% Composition	* Percent Composition by Weight	% Composition Allowed from Data to Calculate Seral Stage
winterfat	100	20-30	30

The ecological site description describes the plant community dynamics for this key area stating that as ecological condition declines, bottlebrush squirreltail and shadscale increase as winterfat and Indian ricegrass decrease. With further site degradation, cheatgrass, halogeton and annual mustards invade the interspace areas between shrub species. On heavily disturbed sites, annual species, particularly halogeton, become dominant. Soils of this site are easily eroded and gullies often form, interrupting the overland flow patterns.

This site is in the mid seral range. This site is dominated by winterfat, Indian rice grass is not present at the key area. Halogeton is also present at the key area. Soils are stable at this site.

Key Area: SB-2

Date: 7/29/2003

Range Site: 028BY010NV

Plant Common Name	% Composition	* Percent Composition by Weight	% Composition Allowed from Data to Calculate Seral Stage
needle and thread	93	10-20	20
Indian ricegrass	7	20-30	7
bottlebrush squirreltail		2-8	
Sandberg's bluegrass		2-5	

Plant community dynamics for this range site include as ecological condition declines, Wyoming big sagebrush and Douglas' rabbitbrush increase, while Indian ricegrass and needle and thread decrease. Various annual species are likely to invade this site. Utah juniper readily invades this site where it occurs adjacent to this woodland. When Utah juniper occupies this site it competes with other species for available light, moisture, and nutrients. If Utah juniper canopies are allowed to close, they can eliminate all understory vegetation.

This site is in the mid seral range. This key area and SB-3 both occur within an area that had a fire disturbance in 1986. This key area is dominated by needle and thread grass, with Indian rice grass also present. Although shrubs are present in the area, none were found in the transect. Ecological condition of this site is on an upturn with increased grasses and shrubs not currently outcompeting these grasses.

Key Area: SB-3  
 Date: 7/30/2003  
 Range Site: 028BY010NV

Plant Common Name	% Composition	* Percent Composition by Weight	% Composition Allowed from Data to Calculate Seral Stage
needle and thread	16	10-20	16
Sandberg's bluegrass	1	2-5	1
Douglas' rabbitbrush	83	3	3
cheatgrass	N/A		

See plant community dynamics described above for key area SB-2.

This site is in the early seral range. This key area and SB-2 both occur within an area that had a fire disturbance in 1986. This key area is dominated by needle and thread grass, with a small amount of Sandberg's bluegrass present. Douglas rabbitbrush is beginning to increase in the area, Ecological condition of this site is stable with a good grass component and the shrubs not currently outcompeting grasses.

Key Area: SB-4  
 Date: 7/30/2003  
 Range Site: 028BY075NV

Plant Common Name	% Composition	* Percent Composition by Weight	% Composition Allowed from Data to Calculate Seral Stage
bottlebrush squirreltail	47	2-5	5
shadscale	53	25-35	35
halogeton	trace		

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Plant community dynamics for this range site include as ecological condition declines, shadscale and Douglas' rabbitbrush will increase in density, while Indian ricegrass composition will be reduced. With further degradation, shadscale may become dominant to the extent of a nearly pure stand. After a major disturbance such as a fire, Douglas' rabbitbrush may become dominant on this site. Cheatgrass, halogeton and mustards are the likely species to invade this site.

This site is in a mid seral range. This key area is dominated by bottlebrush squirreltail and shadscale. There are traces of halogeton present. Although shadscale is increasing, this site still has a grass component and the ecological condition is stable.

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**9. Precipitation data**

Historical climate data from the Western Regional Climate Center in Ely, Nevada is being used for this assessment. The table below includes data annual precipitation data collected since 1981.

**Table 9-1**

YEAR	ANNUAL PRECIPITATION	YEAR	ANNUAL PRECIPITATION	YEAR	ANNUAL PRECIPITATION
1981	10.29	1991	9.98	2001	6.7
1982	15.53	1992	9.78	2002	4.52
1983	14.84	1993	10.06	2003	8.54
1984	14.84	1994	9.72	2004	9
1985	9.89	1995	12.19	2005	12.99
1986	8.6	1996	7.31	2006	9.2
1987	12.3	1997	9.5	2007	6.76
1988	8.66	1998	12.23		
1989	6.6	1999	6.61		
1990	8.76	2000	10.12		

## Appendix II Maps

Figure I.

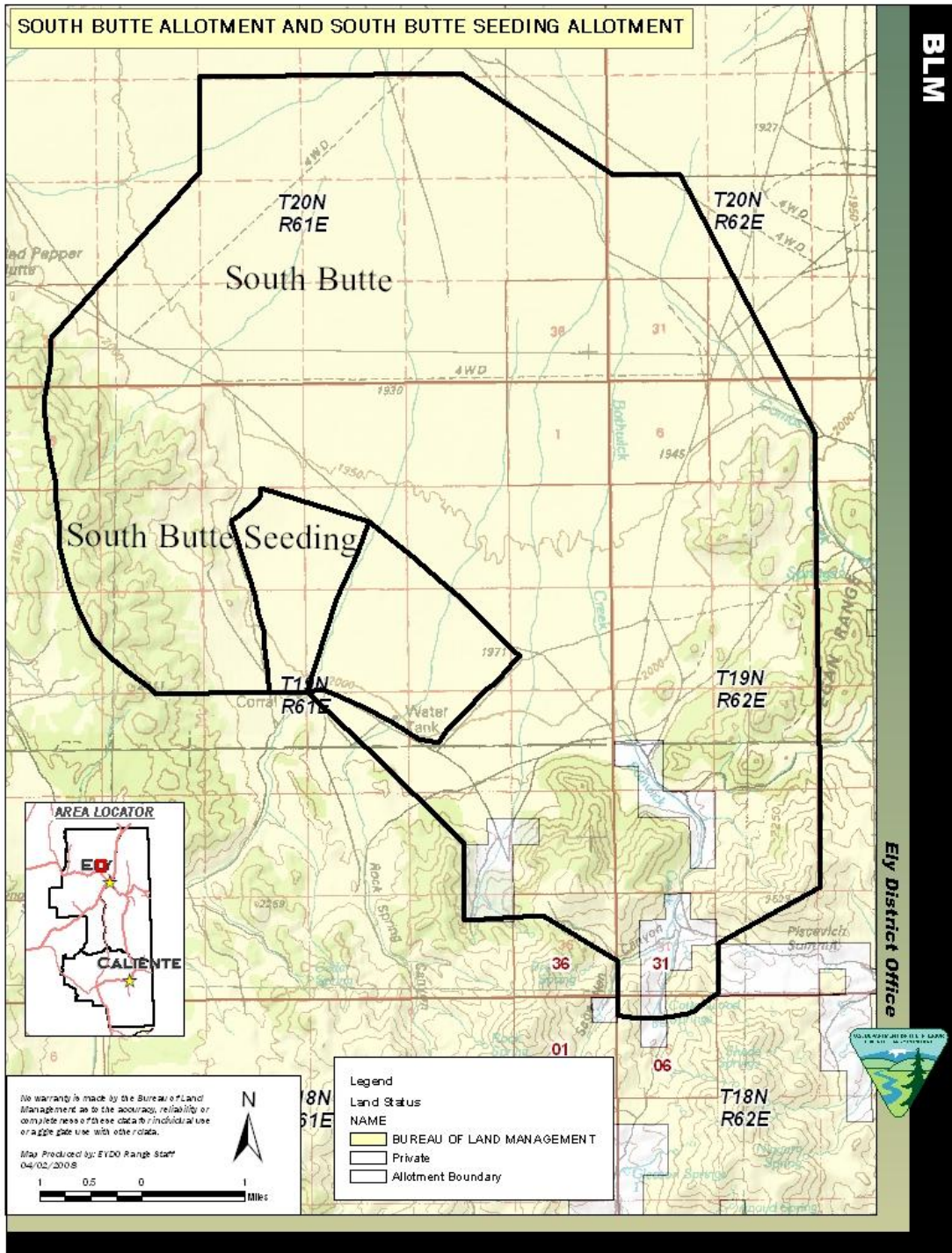


Figure II.

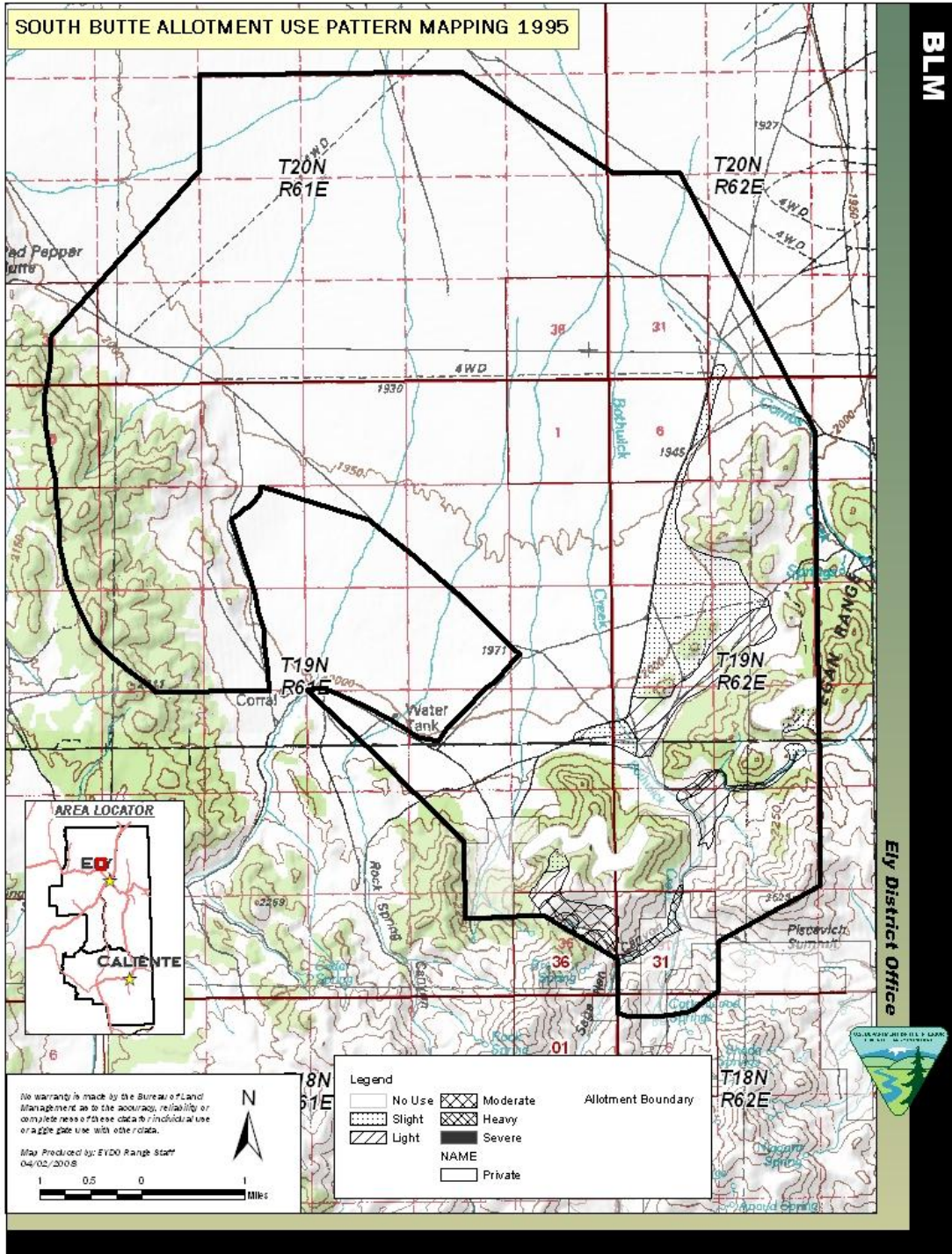


Figure III.

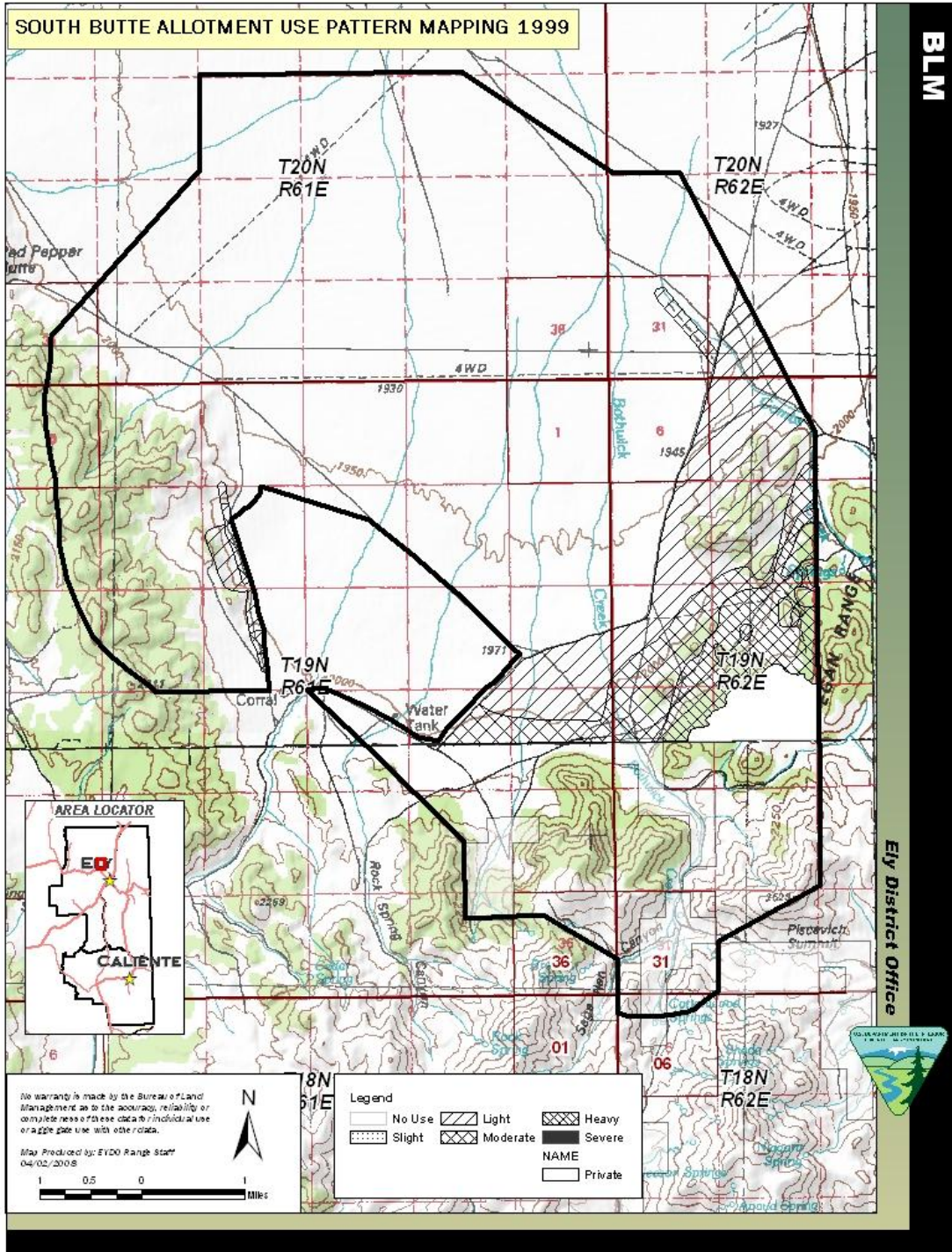
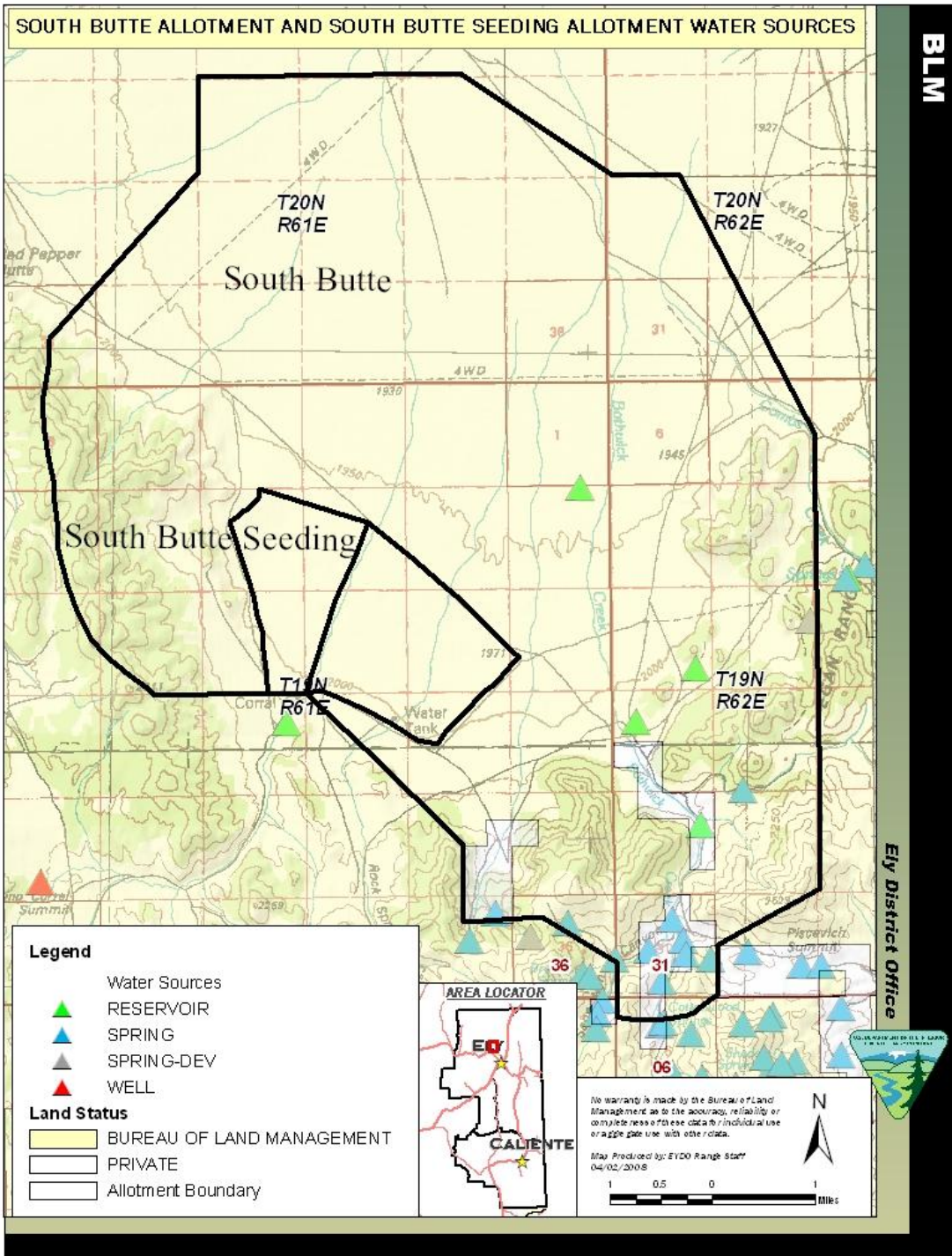


Figure IV.





Appendix III

GRAZING PERMIT TERMS AND CONDITIONS FOR SAM AND CLELIA HENRIOD FOR THE SOUTH BUTTE ALLOTMENT AND SOUTH BUTTE SEEDING ALLOTMENT

Allotment Name and Number	Livestock Number/Kind	Grazing Period Begin End	% Public Land*	Type Use	AUMs**
South Butte #00504	37 Cattle	04/15 to 02/28	100	Active	389
South Butte Seeding #00506	40 Cattle	05/01 to 10/31	100	Active	242
*% Public Land is the percent of public land for billing purposes. **AUMs may differ from Active Permitted Use due to a rounding difference with the number of livestock and the period of use.					
Allotment AUMs Summary					
Allotment Name	ACTIVE AUMS	SUSPENDED AUMS	GRAZING PERMITTED USE		
South Butte	396	112	508		
South Butte Seeding	245	97	342		

Livestock Management Practices - Terms and Conditions

In accordance with 43 CFR §4130.3 and §4130.3-2 the following terms and conditions shall be included in the term grazing permit for Sam and Clelia Henriod for the South Butte Allotment and the South Butte Seeding Allotment:

South Butte Allotment (00504):

5. The total number of AUMS that can be licensed from 4/15 to 6/15 is 10% of the active preference to prevent over-utilization of key forage species during the critical growing season.
6. Grazing use will be in accordance with the Northeastern Great Basin Area Standards and Guidelines, and with the Final Multiple Use Decision dated December 24, 1992 and Settled on May 27, 1994. All other terms and conditions agreed upon by the BLM and Warren Robinson in settling the appeal on the South Butte Allotment (Appeal NV-04-93-6) are made binding on this permit.
7. Water hauling is required for proper livestock distribution. The location of water hauling sites will be determined by the authorized officer in cooperation with the livestock permittee.
8. Maximum allowable use levels will be established as follows:
  - Perennial grasses: 50% current year's growth  
*This use level is necessary to allow desirable key herbaceous species to 1) develop above ground biomass for protection of soils, 2) to contribute to litter cover, and 3) develop roots to improve carbohydrate storage for vigor, reproduction, and improve/increase desirable perennial cover.*
  - Perennial shrubs and half-shrubs: 50% use on current annual production.

*This use level is necessary to allow desirable perennial key browse species to develop branchlets and woody stature able to withstand the pressure of grazing use. Use would be read in April or prior to the spring re-growth. Use during spring contributes to following season's use level.*

South Butte Seeding Allotment (00506):

3. Grazing use will be in accordance with the Northeastern Great Basin Area Standards and Guidelines, and with the Final Multiple Use Decision dated January 27, 1992.
4. Maximum allowable use levels will be established as follows:
  - Crested wheat grass: 65% current year's growth  
*This use level is necessary to allow desirable key herbaceous species to 1) develop above ground biomass for protection of soils, 2) to contribute to litter cover, and 3) develop roots to improve carbohydrate storage for vigor, reproduction, and improve/increase desirable cover.*

Both Allotments:

2. Salt and/or mineral supplements for livestock will be located no closer than ¼ mile from water sources. Use of nutritional supplements (not forage) is encouraged to improve the ability of cattle to utilize forage in the winter months and to improve livestock distribution across the allotment.
3. Wildlife escape ramps are required to be installed and maintained by the permittee at each trough (permanent or temporary) used on the allotment.

Additional Stipulations Common to All Grazing Allotments:

1. "Livestock numbers identified in the Term Grazing Permit are a function of seasons of use and permitted use. Deviations from those livestock numbers and seasons of use may be authorized on an annual basis where such deviations would not prevent attainment of the multiple-use objectives for the allotment."
2. "Deviations from specified grazing use dates will be allowed when consistent with multiple-use objectives. Such deviations will require an application and written authorization from the authorized officer prior to grazing use."
3. The authorized officer is requiring that an actual use report (form 4130-5) be submitted within 15 days after completing your annual grazing use.
4. The payment of your grazing fees is due on or before the date specified in the grazing bill. This date is generally the opening date of your allotment. If payment is not received within 15 days of the due date, you will be charged a late fee assessment of \$25 or 10 percent of the grazing bill, whichever is greater, not to exceed \$250. Payment with Visa, MasterCard or American Express is accepted. Failure to make payment within 30 days of the due date may result in trespass action.
5. Pursuant to 43 CFR 10.4 (G) the holder of this authorization must notify the authorized officer by telephone, with written confirmation, immediately upon discovery of human remains, funerary objects, sacred objects, or objects of cultural patrimony (as defined at 43 CFR 10.2). Further, pursuant to 43 CFR 10.4 (C) and (D), you must stop activities in the immediate vicinity

of the discovery and protect it from your activities for 30 days or until notified to proceed by the authorized officer.

6. Grazing use in White Pine County will be in accordance with the Northeastern Great Basin Area Standards and Guidelines for Grazing Administration. The Standards and Guidelines have been developed by the respective Resource Advisory Council and approved by the Secretary of the Interior on February 12, 1997. Grazing use will also be in accordance with 43 CFR Subpart 4180 - Fundamentals of Rangeland Health and Standards and Guidelines for Grazing Administration.

7. If future monitoring data indicates that Standards and Guidelines for Grazing Administration are not being met, the permit will be reissued subject to revised terms and conditions.

8. The permittee must notify the authorized officer by telephone, with written confirmation, immediately upon discovery of any hazardous or solid wastes as defined in 40 CFR Part 261.

9. The permittee is responsible for all maintenance of assigned range improvements including wildlife escape ramps for both permanent and temporary water troughs.

**RISK ASSESSMENT FOR NOXIOUS & INVASIVE WEEDS**

**Term Grazing Permit Renewal for Sam & Clelia Henriod**

**South Butte & South Butte Seeding Allotments**

**White Pine County, Nevada**

On March 10<sup>th</sup>, 2008 a Noxious & Invasive Weed Risk Assessment was completed for the term grazing permit renewal for Sam and Clelia Henriod on the South Butte and South Butte Seeding allotments in White Pine County, NV. Butte and South Butte Seeding are cattle allotments with a total grazing preference of 850 AUMs. Of these, 641 AUMs are active and 209 AUMs are suspended nonuse. The current season of use is from April 15 to February 28. The term permit would be issued for a period of ten years. The South Butte allotment encompasses 26,081 acres and the South Butte Seeding allotment encompasses 968 acres of BLM administered public lands.

No field weed surveys were completed for this project. Instead the Ely District weed inventory data was consulted. There are currently no mapped weed infestations within the South Butte Seeding allotment. The following species are found within the boundaries of the South Butte allotment:

<i>Carduus nutans</i>	Musk thistle
<i>Cirsium vulgare</i>	Bull thistle
<i>Lepidium draba</i>	Hoary cress
<i>Onopordum acanthium</i>	Scotch thistle

The following species are found along roads and drainages leading to the both allotments:

<i>Acroptilon repens</i>	Russian knapweed
<i>Carduus nutans</i>	Musk thistle
<i>Centaurea stoebe</i>	Spotted knapweed
<i>Cicuta maculata</i>	Water hemlock
<i>Cirsium vulgare</i>	Bull thistle
<i>Hyoscyamus niger</i>	Black henbane
<i>Lepidium draba</i>	Hoary cress
<i>Onopordum acanthium</i>	Scotch thistle
<i>Sorghum halepense</i>	Johnsongrass

Both allotments were last inventoried for noxious weeds in 2006. While not officially documented the following non-native invasive weeds probably occur in or around the allotment: cheatgrass (*Bromus tectorum*), halogeton (*Halogeton glomerus*), horehound (*Marrubium vulgare*), bur buttercup (*Ranunculus testiculatus*), and Russian thistle (*Salsola kali*).

**Factor 1 assesses the likelihood of noxious/invasive weed species spreading to the project area.**

None (0)	Noxious/invasive weed species are not located within or adjacent to the project area. Project activity is not likely to result in the establishment of noxious/invasive weed species in the project area.
Low (1-3)	Noxious/invasive weed species are present in the areas adjacent to but not within the project area. Project activities can be implemented and prevent the spread of noxious/invasive weeds into the project area.
Moderate (4-7)	Noxious/invasive weed species located immediately adjacent to or within the project area. Project activities are likely to result in some areas becoming infested with noxious/invasive weed species even when preventative management actions are followed. Control measures are essential to prevent the spread of noxious/invasive weeds within the project area.
High (8-10)	Heavy infestations of noxious/invasive weeds are located within or immediately adjacent to the project area. Project activities, even with preventative management actions, are likely to result in the establishment and spread of noxious/invasive weeds on disturbed sites throughout much of the project area.

For this project, the factor rates as Moderate (4) at the present time. The proposed action could increase the populations of the noxious and invasive weeds already within the allotment and could aid in the introduction of weeds from surrounding areas. Within the allotment, watering and salt block sites are of particular concern of new weed infestations due to the concentration of livestock around those sites and the amount of ground disturbance associated with that.

**Factor 2 assesses the consequences of noxious/invasive weed establishment in the project area.**

Low to Nonexistent (1-3)	None. No cumulative effects expected.
Moderate (4-7)	Possible adverse effects on site and possible expansion of infestation within the project area. Cumulative effects on native plant communities are likely but limited.
High (8-10)	Obvious adverse effects within the project area and probable expansion of noxious/invasive weed infestations to areas outside the project area. Adverse cumulative effects on native plant communities are probable.

This project rates as High (8) at the present time. If new weed infestations establish within the allotment this could have an adverse impact those native plant communities since the allotment is currently considered to be mostly weed-free. Also, any increase of cheatgrass could alter the fire regime in the area.

**The Risk Rating is obtained by multiplying Factor 1 by Factor 2.**

None (0)	Proceed as planned.
Low (1-10)	Proceed as planned. Initiate control treatment on noxious/invasive weed populations that get established in the area.
Moderate (11-49)	Develop preventative management measures for the proposed project to reduce the risk of introduction of spread of noxious/invasive weeds into the area. Preventative management measures should include modifying the project to include seeding the area to occupy disturbed sites with desirable species. Monitor the area for at least 3 consecutive years and provide for control of newly established populations of noxious/invasive weeds and follow-up treatment for previously treated infestations.
High (50-100)	Project must be modified to reduce risk level through preventative management measures, including seeding with desirable species to occupy disturbed site and controlling existing infestations of noxious/invasive weeds prior to project activity. Project must provide at least 5 consecutive years of monitoring. Projects must also provide for control of newly established populations of noxious/invasive weeds and follow-up treatment for previously treated infestations.

For this project, the Risk Rating is Moderate (32). This indicates that the project can proceed as planned as long as the following measures are followed:

- Prior to entering public lands, the BLM will provide information regarding noxious weed management and identification to the permit holders affiliated with the project. The importance of preventing the spread of weeds to uninfested areas and importance of controlling existing populations of weeds will be explained.
- The range specialist for the allotments will include weed detection into project compliance inspection activities. If the spread of noxious weeds is noted, appropriated weed control procedures will be determined in consultation with BLM personnel and will be in compliance with the appropriate BLM handbook sections and applicable laws and regulations.
- To eliminate the introduction of noxious weed seeds, roots, or rhizomes all interim and final seed mixes, hay, straw, hay/straw, or other organic products used for feed or bedding will be certified free of plant species listed on the Nevada noxious weed list or specifically identified by the BLM Ely Field Office.
- Grazing will be conducted in compliance with the Ely District BLM noxious weed schedules. The scheduled procedures can significantly and effectively reduce noxious weed spread or introduction into the project area.
- Any newly established populations of noxious/invasive weeds discovered will be communicated to the Ely District Noxious and Invasive Weeds Coordinator for treatment.

Reviewed by:  /s/ Bonnie Waggoner  3/10/08  
 Bonnie Waggoner  Date  
 Ely District Noxious & Invasive Weeds Coordinator

