

APPENDIX 1-1 2005

Qualitative Assessment Worksheet: Indicators of Rangeland Health

| Degree of Departure from Ecological Site Description and/or Ecological Reference Area(s) | | | | | |
|--|--|---|---|---|--|
| Indicator | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| 1. Rills | Rill formation is severe and well defined throughout most of the site. | Rill formation is moderately active and well defined throughout most of the site. | Active rill formation is slight at infrequent intervals; mostly in exposed areas. | No recent formation of rills; old rill have blunted or muted features. | Current or past formation of rills as expected for the site. |
| 2. Water Flow Patterns | Water flow patterns extensive and numerous; unstable with active erosion; usually connected. | Water flow patterns more numerous and extensive than expected; deposition and cut areas common; occasionally connected. | Number and length of water flow patterns nearly match what is expected for the site; erosion is minor with some instability and deposition. | Number and length of water flow patterns match what is expected for the site; some evidence of minor erosion. Flow patterns are stable and short. | Matches what is expected for the site; minimal evidence of past or current soil deposition or erosion. |
| 3. Pedestals and/or Terracettes (Wind and Water) | Abundant active pedestalling and numerous terracettes. Many rocks and plants are pedestalled; exposed plant roots are common. | Moderate active pedestalling; terracettes common. Some rocks and plants are pedestalled with occasional exposed roots. | Slight active pedestalling; most pedestals are in flow paths and interspaces and/or on exposed slopes. Occasional terracettes present. | Active pedestalling or terracette formation is rare; some evidence of past pedestal formation, especially in water flow patterns and on exposed slopes. | Current or past evidence of pedestalled plants or rocks as expected for the site. Terracettes absent or uncommon. |
| 4. Bare Ground | Much higher than expected for the site. Bare areas are large and generally connected. | Moderately to much higher than expected for the site. Bare areas are large and occasionally connected. | Moderately higher than expected for the site. Bare areas are of moderate size and sporadically connected. | Slightly to moderately higher than expected for the site. Bare areas are small and rarely connected. | Amount and size of bare areas match that expected for the site. |
| 5. Gullies | Common with indications of active erosion and downcutting; vegetation is infrequent on slopes and/or bed. Nickpoints and headcuts are numerous and active. | Moderate in number to common with indications of active erosion; vegetation is intermittent on slopes and/or bed. Headcuts are active; downcutting is not apparent. | Moderate in number with indications of active erosion; vegetation is intermittent on slopes and/or bed. Occasional headcuts may be present. | Uncommon, vegetation is stabilizing the bed and slopes; no signs of active headcuts, nickpoints, or bed erosion. | Match what is expected for the site; drainages are represented as natural stable channels; vegetation common and no signs of erosion. |
| 6. Wind-Scoured, Blowout, and/or Depositional Areas | Extensive. | Common. | Occasionally present. | Infrequent and few. | Match what is expected for the site. |
| 7. Litter Movement (wind or water) | Extreme; concentrated around obstructions. Most size classes of litter have been displaced. | Moderate to extreme; loosely concentrated near obstructions. Moderate to small size classes of litter have been displaced. | Moderate movement of smaller size classes in scattered concentrations around obstructions and in depressions. | Slightly to moderately more than expected for the site with only small size classes of litter being displaced. | Matches that expected for the site with a fairly uniform distribution of litter. |
| 8. Soil Surface Resistance to Erosion | Extremely reduced throughout the site. Biological stabilization agents including organic matter and biological crusts virtually absent. | Significantly reduced in most plant canopy interspaces and moderately reduced beneath plant canopies. Stabilizing agents present only in isolated patches. | Significantly reduced in at least half of the plant canopy interspaces, or moderately reduced throughout the site. | Some reduction in soil surface stability in plant interspaces or slight reduction throughout the site. Stabilizing agents reduced below expected. | Resistance of soil surface to erosion matches that expected for the site. Surface soil is stabilized by organic matter decomposition products and/or a biological crust. |

| Degree of Departure from Ecological Site Description and/or Ecological Reference Area(s) | | | | | |
|--|---|---|---|---|---|
| Indicator | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| 9. Soil Surface Loss or Degradation | Soil surface horizon absent. Soil structure near surface is similar to, or more degraded, than that in subsurface horizons. No distinguishable difference in subsurface organic matter content. | Soil loss or degradation severe throughout site. Minimal differences in soil organic matter content and structure of surface and subsurface layers. | Moderate soil loss or degradation in plant interspaces with some degradation beneath plant canopies. Soil structure is degraded and soil organic matter content is significantly reduced. | Some soil loss has occurred and/or soil structure shows signs of degradation, especially in plant interspaces. | Soil surface horizon intact. Soil structure and organic matter content match that expected for site. |
| 10. Plant Community Composition & Distribution Relative to Infiltration & Runoff | Infiltration is severely decreased due to adverse changes in plant community composition and/or distribution. Adverse plant cover changes have occurred. | Infiltration is greatly decreased due to adverse changes in plant community composition and/or distribution. Detrimental plant cover changes have occurred. | Infiltration is moderately reduced due to adverse changes in plant community composition and/or distribution. Plant cover changes negatively affect infiltration. | Infiltration is slightly to moderately affected by minor changes in plant community composition and/or distribution. Plant cover changes have only a minor effect on infiltration. | Infiltration and runoff are not affected by any changes in plant community composition and distribution. Any changes in infiltration and runoff can be attributed to other factors (e.g. compaction). |
| 11. Compaction Layer | Extensive; severely restricts water movement and root penetration. | Widespread; greatly restricts water movement and root penetration | Moderately wide-spread, moderately restricts water movement and root penetration. | Rarely present or is thin and weakly restrictive to water movement and root penetration. | Matches that expected for the site; none to minimal, not restrictive to water movement and root penetration. |
| 12. Functional/Structural Groups | Number of F/S groups greatly reduced and/or Relative dominance of F/S groups has been dramatically altered and/or Number of species within F/S groups dramatically reduced. | Number of F/S groups reduced and/or one dominant group and/or one or more sub-dominant group replaced by F/S groups not expected for the site and/or Number of species within F/S groups significantly reduced. | Number of F/S groups moderately reduced and/or One or more subdominant F/S groups replaced by F/S groups not expected for the site and/or Number of species within F/S groups moderately reduced. | Number of F/S groups slightly reduced and/or Relative dominance of F/S groups has been modified from that expected for the site and/or number of species within F/S slightly reduced. | F/S groups and number of species in each group closely match that expected for the site. |
| 13. Plant Mortality/Decadence | Dead and/or decadent plants are common. | Dead plants and/or decadent plants are somewhat common. | Some dead and/or decadent plants are present. | Slight plant mortality and/or decadence. | Plant mortality and decadence match that expected for the site. |
| 14. Litter Amount | Largely absent or dominant relative to site potential and weather. | Greatly reduced or increased relative to site potential and weather. | Moderately more or less relative to site potential and weather. | Slightly more or less relative to site potential and weather. | Amount is what is expected for the site potential and weather. |
| 15. Annual Production | Less than 20% of potential production for the site based on recent weather. | 20-40% of potential production for the site based on recent weather. | 40-60% of potential production for the site based on recent weather. | 60-80% of potential production for the site based on recent weather. | Exceeds 80% of potential production for the site based on recent weather. |
| 16. Invasive Plants | Dominate the site. | Common throughout the site. | Scattered throughout the site. | Present primarily in disturbed areas within the site. | If present, composition of invasive species matches that expected for the site. |
| 17. Reproductive Capability of Perennial Plants | Capability to produce seed or vegetative tillers is severely reduced relative to recent climatic conditions. | Capability to produce seed or vegetative tillers is greatly reduced relative to recent climatic conditions. | Capability to produce seed or vegetative tillers is moderately reduced relative to recent climatic conditions. | Capability to produce seed or vegetative tillers is slightly limited relative to recent climatic conditions. | Capability to produce seed or vegetative tillers is not reduced relative to recent climatic conditions. |

Appendix 1-2 Standard Checklists For Riparian Areas

Lotic

| Yes | No | N/A | Hydrologic | Yes | No | N/A | Vegetative | Yes | No | N/A | Soils-Erosion Deposition | |
|-----|----|-----|---|-----|----|-----|--|-----|----|-----|--------------------------|---|
| | | | 1. Floodplain above bankfull inundated in "relatively frequent" events | | | | 6. There is diverse age-class distribution of riparian wetland vegetation (recruitment for maintenance/recovery) | | | | X | 13. Flood plain and channel characteristics (i.e., rocks overflow channel, coarse and/or large woody material) are adequate to dissipate energy |
| | | | 2. Where beaver dams are present they are active and stable | | | | 7. There is diverse composition of riparian-wetland vegetation (for maintenance/recovery) | | | | | 14. Point bars are revegetating with riparian-wetland vegetation |
| | | X | 3. Sinuosity, width/depth ratio, and gradient are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region) | | | | 8. Species present indicate maintenance of riparian soil moisture characteristics | | | | X | 15. Lateral stream movement is associated with natural sinuosity |
| | | | 4. Riparian-wetland area is widening or has achieved potential extent | | | | 9. Streambank vegetation is comprised of those plant or plant communities that have root masses capable of withstanding high streamflow events | | | | X | 16. System is vertically stable |
| | | X | 5. Upland watershed is not contributing to riparian degradation | | | | 10. Riparian-wetland plants exhibit high vigor | | | | X | 17. Stream is in balance with the water and sediment being supplied by the watershed (i.e. no excessive erosion or deposition) |
| | | | | | | | 11. Adequate riparian-wetland vegetative cover present to protect banks and dissipate energy during high flows | | | | | |
| | | | | | | | 12. Plant communities are an adequate source of coarse and/or large woody material (for maintenance/recovery) | | | | | |

Lentic

| Yes | No | N/A | Hydrologic | Yes | No | N/A | Vegetative | Yes | No | N/A | Soils-Erosion Deposition | |
|-----|----|-----|---|-----|----|-----|---|-----|----|-----|--------------------------|--|
| | | | 1. Riparian-wetland area is saturated at or near the surface or inundated in "relatively frequent" events | | | | 8. Diverse age-class distribution (recruitment for maintenance or recovery) | | | | | 16. Accumulation of chemicals affecting plant productivity/composition is not apparent |
| | | | 2. Fluctuation of water levels is not excessive | | | | 9. Diverse composition of vegetation (for maintenance/recovery) | | | | | 17. Saturation of soils (i.e., ponding, flooding frequency and duration) is sufficient to compose and maintain hydric soils |
| | | | 3. Riparian-wetland zone is enlarging or has achieved potential extent | | | | 10. Species present indicate maintenance of riparian-wetland soil moisture characteristics | | | | X | 18. Underlying geologic structure/soil material/permafrost is capable of restricting water percolation |
| | | X | 4. Upland watershed is not contributing to riparian-wetland degradation | | | | 11. Vegetation is comprised of those plants or plant communities that have root masses capable of withstanding wind events, wave flow events, or overland flows(e.g., storm events, snowmelt) | | | | X | 19. Riparian-wetland is in balance with water and sediment being supplied by the watershed (i.e., no excessive erosion or deposition) |
| | | | 5. Water quality is sufficient to support riparian-wetland degradation | | | | 12. Riparian-wetland plants exhibit high vigor | | | | | 20. Islands and shoreline characteristics (i.e., rocks, course and/or large woody debris) adequate to dissipate wind and wave event energies |
| | | | 6. Natural surface or subsurface flow patterns are not altered by disturbance (i.e., hoof action, dam, dikes, trails, roads, rills, gullies, drilling activities) | | | | 13. Adequate vegetative cover present to protect shorelines/soil surface and dissipate energy during high wind and wave events or overland flows | | | | | |
| | | | 7. Structure accommodates safe passage of flows (e.g., no headcut affecting dam or spillway) | | | | 14. Frost or abnormal hydrologic heaving is not present | | | | | |
| | | | | | | | 15. Favorable microsite conditions (i.e., woody debris, water temperature, etc.) is maintained by adjacent site characteristics | | | | | |

Appendix 1-3 2005

Standard 8 Sage Grouse Habitat Assessment Worksheet - Breeding Habitat

| Habitat Indicator | Suitable Habitat | Marginal Habitat | Unsuitable Habitat |
|--|--|--|---|
| Average Sagebrush Canopy Cover | ≥ 15% but ≤ 25% | 10-15% or >25% | <10% |
| Average Sagebrush Height Mesic Site | 15-30" | 10-14" or > 30" | < 10" |
| Arid Site | 12-30" | 10-11" or > 30" | < 10" |
| Sagebrush Growth Form | Spreading form, few, if any, dead branches for most plants | Mix of spreading and columnar growth forms present | Tall, columnar growth form with dead branches for most plants |
| Average Grass and Forb Height | ≥ 7" | 5 - <7" | < 5" |
| Average Perennial Grass Canopy Cover Mesic Site | ≥ 15% | 5 - < 15% | < 5% |
| Arid Site | ≥ 10% | 5 - < 10% | < 5% |
| Average Forb Canopy Cover Mesic Site | ≥ 10% | 5 - < 15% | < 5% |
| Arid Site | ≥ 5% | 5 - < 10% | < 3% |
| Preferred Forb Abundance and Diversity | Forbs common with at least a few preferred species present | Forbs common but only 1 or 2 preferred species present | Forbs rare to sparsely present |

Standard 8 Sage Grouse Habitat Assessment Worksheet - Late Brood-rearing

| Indicator | Suitable Habitat | Marginal | Unsuitable Habitat |
|--|---|--|---|
| Riparian and Wet Meadow Communities: | | | |
| Riparian and wet meadow plant community | Mesic or wetland plant species dominate wet meadow or riparian area | Xeric plant species invading wet meadow or riparian area | Xeric plant species along water's edge or near center of wet meadow |
| Riparian and wet meadow stability | No erosion evident; some bare ground may be evident but vegetative cover dominates the site | Minor erosion occurring and bare ground may be evident but vegetative cover dominates the site | Major erosion evident; large patches of bare ground |
| Forb availability in uplands and wetland areas | Succulent, green forbs are readily available in terms of distribution and plant structure | Succulent, green forbs are available though distribution is spotty or plant structure limits effective use | Succulent, green forbs are not available |
| Proximity of sagebrush cover | Sagebrush cover is adjacent to brood-rearing area (< 100 yards) | Sagebrush cover is in close proximity (100 - 300 yards) of brood-rearing areas | Sagebrush cover is unavailable (> 300 yards). |
| Upland Sagebrush Communities: | | | |
| Forb availability | Succulent, green forbs are readily available in terms of distribution and plant structure | Succulent, green forbs are available though distribution is spotty or plant structure limits effective use | Succulent, green forbs are scarce or not available despite favorable growing conditions |

Standard 8 Sage Grouse Habitat Assessment Worksheet - Winter Habitat

| Habitat Indicator | Suitable Habitat | Marginal Habitat | Unsuitable Habitat |
|---|---|---|--|
| Sagebrush canopy cover | 10-30% | 5-9% or >30% | <5% |
| Sagebrush height (availability during the winter) | Generally tall or a diversity of sagebrush heights present relative to species and site potential | Some tall plants but generally more moderate to short plants relative to species and site potential | Poor height diversity with generally short plants relative to species and site potential |

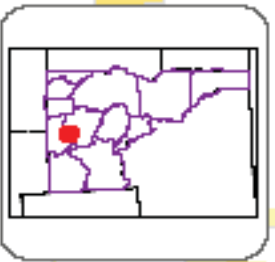
Site Forb Abundance Form for Sage Grouse Evaluations

| Species | Rare | Sparse | Common |
|---|------|--------|--------|
| Sage Grouse Preferred Forbs: | | | |
| Broomrape (<i>Orobanche</i> spp.) | | | |
| Composites | | | |
| Daisies (<i>Erigeron</i> and <i>Aster</i> spp.) | | | |
| Dandelion, C. (<i>Taraxacum officinale</i>) | | | |
| Dandelion, Mt. (Agoseris spp.) | | | |
| Hawksbeard (<i>Crepis</i> spp.) | | | |
| Microsteris (<i>Microsteris</i> spp.) | | | |
| Prickly lettuce (<i>Lactuca scariola</i>) | | | |
| Salsify (<i>Tragopogon dubius</i>) | | | |
| Desert-parsley (<i>Lomatium</i> and <i>Gymnocarpus</i> spp.) | | | |
| Everlasting (<i>Antennaria</i> spp.) | | | |
| Groundsmoke (<i>Gnaphalium</i> spp.) | | | |
| Knotweed (<i>Polygonum</i> spp.) | | | |
| Legumes (other than <i>Lupinus</i> spp.) | | | |
| Alfalfa (<i>Medicago</i> spp.) | | | |
| Bird's foot tre-foil (<i>Lotus</i> spp.) | | | |
| Clover (<i>Trifolium</i> spp.) | | | |
| Sweet clover (<i>Melilotus</i> spp.) | | | |
| Sweet vetch (<i>Hedysarum</i> spp.) | | | |
| Vetch (<i>Vicia</i> spp.) | | | |
| Milkvetch (<i>Astragalus</i> spp.) | | | |
| Peppergrass (<i>Lepidium</i> spp.) | | | |
| Phlox (<i>Phlox</i> spp.) | | | |
| Prairie star flower (<i>Lithophygara</i> spp.) | | | |
| Yarrow (<i>Achillea millefolium</i>) | | | |
| Other Forbs: | | | |

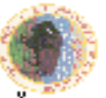
Directions:

1. Walk around an area generally the size of a 100-foot radius circle and observe the relative abundance of forbs based on the following ratings:

- Rare:** Less than 5 plants
- Sparse:** 5-25 plants
- Common:** 26+ plants



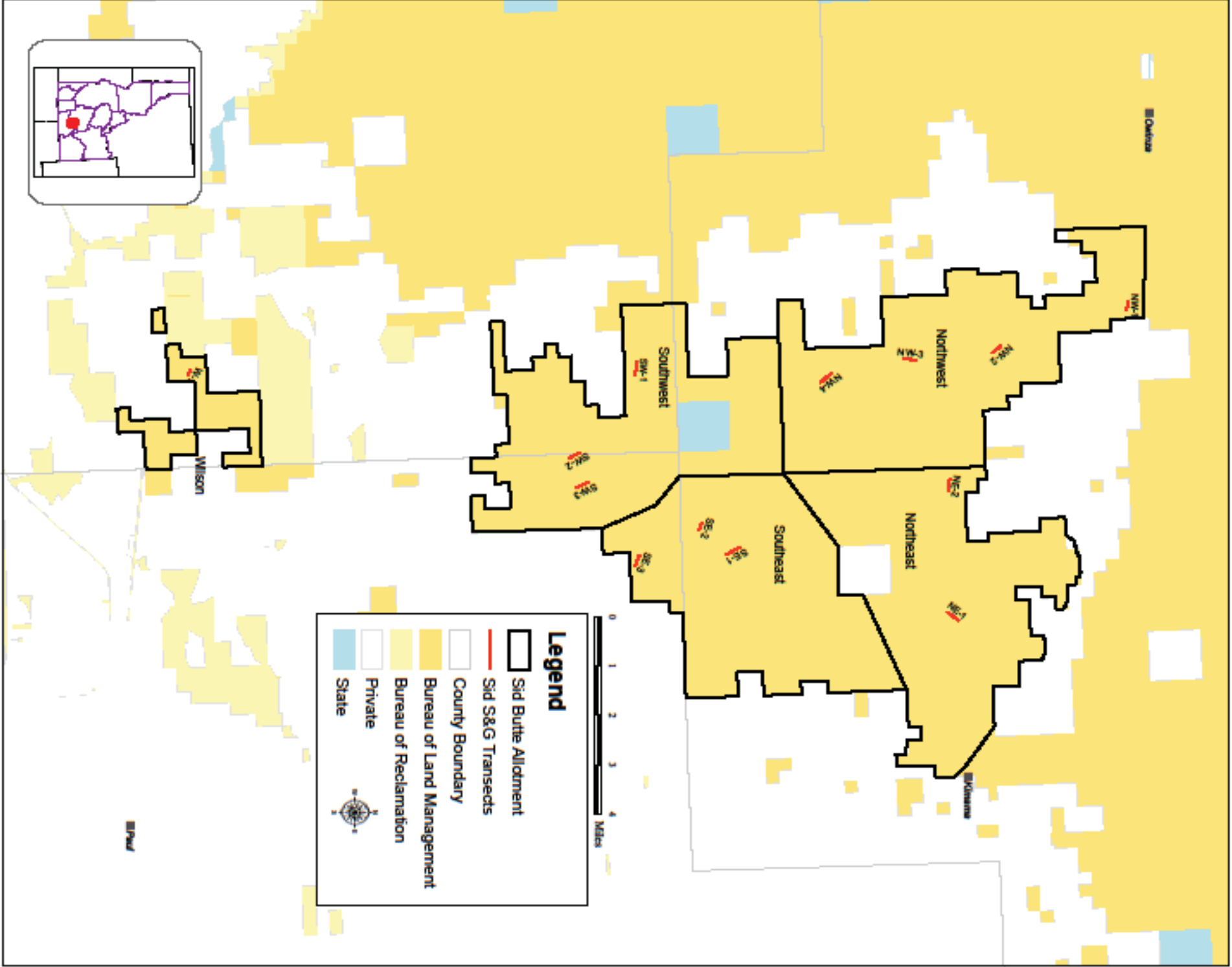
United States Department of the Interior
 Bureau of Land Management
 Teton Falls District, Idaho



Coordinates: 7 north to the shown standard
 Vertical datum: NAD 1983 UTM Zone 12N
 Horizontal datum: NAD 1983 UTM Zone 12N
 or other datum as noted on the map



Map Created on September 25, 2009
 Data Displayed is NAD 1983 UTM Zone 12N projection
 File: S&G\Teton\Adm\Teton Falls\Sidelines\SidelinesMap.mxd
 Author: dpaton



Legend

- Sid Butte Allotment
- Sid S&G Transects
- County Boundary
- Bureau of Land Management
- Bureau of Reclamation
- Private
- State




Camden

Alhambra

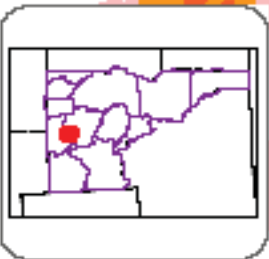
Northwest

Northeast

Southeast

Southwest

Wilson



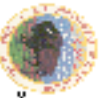
Legend

- Sid Butte Allotment
- County Boundary

Number of Times Burned

- 1 Time Burned
- 2 Times Burned
- 3 Times Burned
- 4 Times Burned
- 5 Times Burned
- 6 Times Burned
- 7 Times Burned
- 8 Times Burned
- 9 Times Burned

United States Department of the Interior
Bureau of Land Management
Twin Falls District, Idaho



FOR INFORMATION ONLY
This map is for informational purposes only and does not constitute a warranty or any other form of assurance.



Map Created on September 25, 2009
Data Displayed is NAD 1983 UTM Zone 11N projection
File: \\blm\geoplant\id\idistrict\Twin Falls\idistrict\burnfreq\burnfreq.mxd
Author: dpaton

Table A2-1: Sid Butte Allotment Fires

| Fire Year | Fire Name | Acres | Fire Year | Fire Name | Acres |
|---------------------------------------|-----------------|---------|-----------|-----------------|--------|
| 1962 | | 64.6 | 1995 | SCHODDE | 23.0 |
| 1963 | | 1896.5 | 1996 | CEPTOR | 2543.9 |
| 1966 | | 2870.0 | 1996 | KIMAMA S | 16.4 |
| 1969 | | 3.7 | 1998 | HIDDEN VALLEY 1 | 144.1 |
| 1979 | ARSON | 543.4 | 1998 | CRESTVIEW 1 | 11.6 |
| 1979 | SEENTER | 0.3 | 1998 | SCHODDE | 14.1 |
| 1976 | 1650 N | 393.3 | 1999 | CRESTVIEW | 20.7 |
| 1976 | KIMAMA BUTTE | 379.1 | 1999 | KIMAMA BUTTE | 164.3 |
| 1976 | POWERLINE | 1.6 | 1995 | KIMAMA | 751.7 |
| 1974 | HYNES | 1587.0 | 1995 | 1550W 570N | 1214.5 |
| 1970 | SERR FIRE | 15.0 | 1997 | SCHAEFFER | 40.7 |
| 1970 | KIMAMA EAST 1 | 17.2 | 2003 | KIMAMA | 72.5 |
| 1971 | SOUTH SID | 4336.4 | 2003 | SID BUTTE | 2003.8 |
| 1972 | KIMAMA NORTH | 13346.1 | 2002 | HWY24MM46 | 85.9 |
| 1972 | KIMAMA WEST | 2001.6 | 2001 | SID SEC 28 | 48.9 |
| 1972 | STAGE BARN SE 5 | 153.5 | 2001 | WEST KIMAMA | 21.6 |
| 1972 | KIMAMA EAST | 768.9 | 2000 | HIGH POINT | 1.6 |
| 1973 | HIDDEN VALLEY | 117.2 | 2000 | SID BUTTE | 1125.8 |
| 1973 | JUNE GRASS | 7.7 | 2000 | HIDDEN VALLEY | 541.3 |
| 1973 | GREENWOOD | 32.6 | 2001 | KIMAMA BUTTE | 175.9 |
| 1985 | SID BUTTE | 400.7 | 2001 | HIDDEN | 0.1 |
| 1985 | KIMAMA BUTTE 1 | 9.1 | 2001 | HYNES WEST | 28.8 |
| 1984 | SID BUTTE 3S | 4888.8 | 2001 | SCHODDE 1 | 952.9 |
| 1983 | REC 6 | 0.1 | 2005 | HOMESTEAD | 1209.9 |
| 1982 | N750 WWS | 2153.9 | 2005 | SCHODDE | 19.5 |
| 1981 | ONE HUNDRED | 480.7 | 2006 | SID | 688.6 |
| 1981 | HAYSTACK 2 | 1.6 | 2006 | 4 WD | 4954.4 |
| 1981 | ANTELOPE | 271.5 | 2006 | REUNION | 257.2 |
| 1980 | GREENWOOD | 601.8 | 2006 | CRESTVIEW | 506.9 |
| 1980 | SCHODDE | 371.3 | 2006 | HYNES | 49.4 |
| 1983 | RR MP299.8N | 0.8 | 2007 | EAST SIDE | 15.9 |
| 1993 | HAWK #2 | 59.7 | 2008 | WEST | 11.5 |
| 1993 | HAWK #1 | 1.3 | 2009 | KIMAMA | 2.7 |
| 1995 | 1650W550S | 261.0 | 2009 | KIMAMA | 71.3 |
| 1995 | SCHODDE NO 2 | 131.0 | 2009 | KIMAMA BUTTE 2 | 151.0 |
| 1995 | HINES | 231.1 | | | |
| Total Allotment Acreage Burned | | | | 56342.7 | |

APPENDIX 3: ALLOTMENT STUDIES TABLES

Table A3-1: Actual Use Summary

| Year | Grazing Use Period | Active Preference (AUMs) | Number of Livestock | AUMs Used | Percent of Active Use |
|------|--------------------|--------------------------|---------------------|-----------|-----------------------|
| 1974 | 04/06 – 06/20 | 1,528 | 574c | 1,358 | 89% |
| | 04/06 – 06/01 | 1,771 | 14,125s | 1,791 | 101% |
| | Allotment Total | 3,299 | | 3,149 | 95% |
| 1975 | Nonuse | 2,925 | 0 | 0 | 0% |
| | Unknown | 2,137 | Unknown | 2,238 | 105% |
| | Unknown | 2,921 | Unknown | 902 | 31% |
| | Allotment Total | 7,983 | | 3,140 | 39% |
| 1976 | 06/15 – 08/19 | 2,925 | Unknown | 2,874 | 98% |
| | 04/01 – 06/15 | 2,137 | Unknown | 1,600 | 75% |
| | Unknown | 1,931 | 7,000s | 666 | 34% |
| | Allotment Total | 6,993 | | 5,140 | 74% |
| 1977 | 04/18 – 06/25 | 2,925 | Unknown | 733 | 25% |
| | Unknown | 2,137 | 14,115s | 2,398 | 112% |
| | Unknown | 1,931 | 1,400s | 84 | 4% |
| | Allotment Total | 6,993 | | 3,215 | 46% |
| 1978 | 04/01 – 06/25 | 2,925 | 450c | 1,071 | 37% |
| | 04/01 – 06/01 | 2,137 | 10,530s | 1,645 | 77% |
| | 11/10 – 12/31 | 1,931 | 9,160s | 1,386 | 72% |
| | Allotment Total | 6,993 | | 4,102 | 59% |
| 1979 | 04/06 – 07/05 | 2,925 | 786c | 1,826 | 62% |
| | 04/01 – 05/19 | 2,137 | 11,155s | 1,532 | 72% |
| | 11/23 – 12/29 | 1,931 | 7,980s | 747 | 39% |
| | Allotment Total | 6,993 | | 4,105 | 59% |
| 1980 | 04/01 – 08/11 | 2,925 | 750c | 2,027 | 69% |
| | 04/01 – 06/15 | 2,137 | 7,086s | 1,431 | 67% |
| | 11/28 – 12/31 | 1,931 | 10,095 | 1,142 | 59% |
| | Allotment Total | 6,993 | | 4,600 | 66% |
| 1981 | 04/06 – 07/03 | 2,925 | 818c | 1,942 | 66% |
| | 04/01 – 07/03 | 2,137 | 10,258s | 1,661 | 78% |
| | 11/26 – 12/15 | 1,931 | 10,120s | 780 | 40% |
| | Allotment Total | 6,993 | | 4,383 | 63% |
| 1982 | 04/01 – 07/06 | 2,925 | 873c | 2,339 | 80% |
| | 04/02 – 07/02 | 2,137 | 8,343s | 1,087 | 51% |
| | 11/24 – 12/31 | 1,931 | 7,360s | 638 | 33% |
| | Allotment Total | 6,993 | | 4,064 | 58% |
| 1983 | 04/01 – 06/15 | 2,925 | 751c | 1,295 | 44% |
| | 03/25 – 06/10 | 2,137 | 7,526s | 1,110 | 52% |

| Year | Grazing Use Period | Active Preference (AUMs) | Number of Livestock | AUMs Used | Percent of Active Use |
|------|--------------------|--------------------------|---------------------|-----------|-----------------------|
| | 12/05 – 12/16 | 1,931 | 1,640s | 131 | 7% |
| | Allotment Total | 6,993 | | 2,536 | 36% |
| 1984 | 04/07 – 06/22 | 2,925 | 354c | 735 | 25% |
| | 04/07 – 05/31 | 2,137 | 9,285s | 1,735 | 81% |
| | 11/01 – 12/27 | 1,931 | 7,760s | 669 | 35% |
| | Allotment Total | 6,993 | | 3,139 | 45% |
| 1985 | 04/12 – 06/22 | 2,925 | 337c | 643 | 22% |
| | 04/10 – 05/15 | 2,137 | 18,993s | 1,809 | 85% |
| | 11/25 – 12/05 | 1,931 | 2,905 | 111 | 6% |
| | Allotment Total | 6,993 | | 2,563 | 37% |
| 1986 | 03/25 – 07/06 | 2,925 | 646c | 1,759 | 60% |
| | 03/18 – 05/16 | 2,137 | 8,274s | 1,323 | 62% |
| | 11/29 – 12/27 | 1,931 | 2,680s | 390 | 20% |
| | Allotment Total | 6,993 | | 3,472 | 50% |
| 1987 | 04/07 – 06/20 | 2,925 | 408c | 838 | 29% |
| | 03/23 – 04/26 | 2,137 | 9,394s | 887 | 42% |
| | 4-Dec | 1,931 | 1,670 | 11 | 1% |
| | Allotment Total | 6,993 | | 1,736 | 25% |
| 1988 | 04/08 – 06/18 | 2,925 | 436c | 846 | 29% |
| | 03/29 – 06/15 | 2,137 | 9,607s | 1,841 | 86% |
| | 11/23 – 12/18 | 1,931 | 4,220s | 223 | 12% |
| | Allotment Total | 6,993 | | 2,910 | 42% |
| 1989 | 04/05 – 06/20 | 2,925 | 820c | 1,715 | 59% |
| | 03/30 – 06/14 | 2,137 | 11,258s | 2,226 | 104% |
| | 12/07 – 12/25 | 1,931 | 2,000s | 251 | 13% |
| | Allotment Total | 6,993 | | 4,192 | 60% |
| 1990 | 04/02 – 06/15 | 2,925 | 425c | 883 | 30% |
| | 03/27 – 05/13 | 2,137 | 14,318s | 1,861 | 87% |
| | 11/30 – 01/16 | 1,931 | 6,450s | 267 | 14% |
| | Allotment Total | 6,993 | | 3,011 | 43% |
| 1991 | 04/05 – 06/18 | 2,925 | 438c | 898 | 31% |
| | 04/01 – 06/05 | 2,137 | 11,355s | 2,230 | 104% |
| | 12/13 – 01/16 | 1,931 | 3,100s | 639 | 33% |
| | Allotment Total | 6,993 | | 3,767 | 54% |
| 1992 | 04/17 – 05/22 | 2,736 | 194c | 200 | 7% |
| | 03/27 – 05/13 | 2,328 | 10,083s | 1,541 | 66% |
| | Nonuse | 1,931 | 0 | 0 | 0% |
| | Allotment Total | 6,995 | | 1,741 | 25% |
| 1993 | 04/14 – 06/12 | 2,736 | 189c | 273 | 10% |

| Year | Grazing Use Period | Active Preference (AUMs) | Number of Livestock | AUMs Used | Percent of Active Use |
|------|-------------------------------|--------------------------|---------------------|-----------|-----------------------|
| | 04/07 – 05/22 | 2,328 | 5,640s | 841 | 36% |
| | Unknown | 1,931 | 1,350s | 280 | 15% |
| | Allotment Total | 6,995 | | 1,394 | 20% |
| 1994 | Unknown | 2,736 | Unknown | 12 | 0% |
| | 03/28 – 07/04 | 2,328 | 9,552s | 2,120 | 91% |
| | Nonuse | 1,931 | 0 | 0 | 0% |
| | Allotment Total | 6,995 | | 2,132 | 30% |
| 1995 | Unknown | 2,736 | Unknown | 12 | 0% |
| | 03/25 – 07/17 | 2,328 | 7,573s | 2,318 | 100% |
| | Unknown | 1,931 | 1,400s | 9 | 0% |
| | Allotment Total | 6,995 | | 2,339 | 33% |
| 1996 | Unknown | 2,736 | Unknown | 14 | 1% |
| | 03/26 – 07/05 | 2,328 | 8,851s | 2,758 | 118% |
| | 11/20 – 12/02 | 1,931 | 1,492s | 128 | 7% |
| | Allotment Total | 6,995 | | 2,900 | 41% |
| 1997 | 04/26 – 07/19 | 2,736 | 362c | 884 | 32% |
| | 04/01 – 07/15 | 2,328 | 10,198s | 3,109 | 134% |
| | Nonuse | 1,931 | 0 | 0 | 0% |
| | Allotment Total | 6,995 | | 3,993 | 57% |
| 1998 | 04/08 – 07/04 | 1,898 | 198c | 573 | 30% |
| | 03/28 – 07/15 | 3,166 | 11,834s | 3,126 | 99% |
| | 07/16 – 10/15 | 1,931 | 3,801s | 1,210 | 63% |
| | Allotment Total | 6,995 | | 4,909 | 70% |
| 1999 | Nonuse | 1,898 | 0 | 0 | 0% |
| | 04/01 – 06/21 | 3,166 | 11,011s | 2,482 | 78% |
| | Unknown | 1,931 | 2,000s | 158 | 8% |
| | Allotment Total | 6,995 | | 2,640 | 38% |
| 2000 | Nonuse | 1,898 | 0 | 0 | 0% |
| | 04/01 – 06/27 | 3,166 | 11,862s | 2,662 | 84% |
| | 12/12 – 12/27 | 1,931 | 3,600s | 213 | 11% |
| | Allotment Total | 6,995 | | 2,875 | 41% |
| 2001 | 04/23 – 05/25 | 1,898 | 478c | 505 | 27% |
| | 03/30 – 05/25 | 3,166 | 8,049s | 1,516 | 48% |
| | Nonuse | 1,931 | 0 | 0 | 0% |
| | Allotment Total | 6,995 | | 2,021 | 29% |
| 2002 | 04/10 – 07/01 & 10/23 – 01/22 | 1,898 | 351c | 1,933 | 102% |
| | 04/05 – 06/01 | 3,166 | 8,701s | 1,633 | 52% |
| | 12/30 – 01/01 | 1,931 | 1,100s | 22 | 1% |
| | Allotment Total | 6,995 | | 3,588 | 51% |

| Year | Grazing Use Period | Active Preference (AUMs) | Number of Livestock | AUMs Used | Percent of Active Use |
|------|--------------------|--------------------------|---------------------|-----------|-----------------------|
| 2003 | 04/01 – 09/11 | 1,898 | 327c | 1,764 | 93% |
| | 03/29 – 06/06 | 3,166 | 8,452s | 2,015 | 64% |
| | 12/19 – 12/26 | 1,931 | 2,830s | 56 | 3% |
| | Allotment Total | 6,995 | | 3,835 | 55% |
| 2004 | 12/10 – 01/15 | 1,898 | 495c | 586 | 31% |
| | 03/27 – 07/01 | 3,166 | 9,770s | 1,910 | 60% |
| | 12/14 – 01/01 | 1,931 | 2,775s | 228 | 12% |
| | Allotment Total | 6,995 | | 2,724 | 39% |
| 2005 | 04/01 – 09/09 | 2,736 | 500c | 2,902 | 106% |
| | 03/25 – 06/24 | 3,166 | 8,480s | 2,176 | 69% |
| | 01/16 – 02/03 | 1,931 | 2,400s | 37 | 2% |
| | Allotment Total | 7,833 | | 5,115 | 65% |
| 2006 | 04/17 – 10/28 | 2,736 | 443c | 2,131 | 78% |
| | 04/01 – 05/23 | 3,166 | 10,593s | 1,854 | 59% |
| | 12/23 – 01/17 | 1,931 | 2,520s | 148 | 8% |
| | Allotment Total | 7,833 | | 4,133 | 53% |
| 2007 | 04/18 – 1/12 | 2,736 | 430c | 2,654 | 97% |
| | 03/28 – 06/15 | 3,166 | 9,251s | 2,090 | 66% |
| | 11/12 – 02/02 | 1,931 | 2,990s | 427 | 22% |
| | Allotment Total | 7,833 | | 5,171 | 66% |
| 2008 | 04/16 – 11/11 | 2,736 | 460c | 2,505 | 92% |
| | 04/01 – 06/29 | 3,166 | 8,046s | 1,697 | 54% |
| | 11/26 – 1/17 | 1,931 | 1,500s | 167 | 9% |
| | Allotment Total | 7,833 | | 4,369 | 56% |

Table A3-2: Trend Plot 1 Annual Summary (Percent Ground Cover)

| Species | 1973 | 1974 | 1980 | 1986 | 1990 | 2001 | 2007 |
|----------------------|------|------|------|------|------|------|------|
| Crested wheatgrass | | | 1 | <1 | | 6 | 19 |
| Sandberg bluegrass | | | | 1 | | 1 | 12 |
| Long-leafed phlox | | | 4 | | | | 1 |
| Cryptantha | | | | | | | 1 |
| Antelope bitterbrush | 1 | 1 | 12 | 25 | 31 | | |

Table A3-3: Trend Plot 1 Nested Frequency Annual Summary (Percent Frequency of Occurrence)

| Species | 1986 | 1990 | 2001 | 2007 |
|-----------------------|------|------|------|------|
| Sandberg bluegrass | 73 | 55 | 93 | 89 |
| Crested wheatgrass | 93 | 65 | 80 | 85 |
| Thurber needlegrass | 3 | 1 | | |
| Sixweeks fescue | | | 63 | 28 |
| Cheatgrass | | | 99 | 68 |
| Prickly lettuce | 94 | | 18 | |
| Longleafed phlox | 38 | 4 | | 15 |
| Hood's phlox | 9 | | | |
| Annual agoseris | 9 | | | |
| Stoneseed | 3 | | | |
| Willowherb | | | 5 | 1 |
| Tumble Mustard | | | | 11 |
| Blue-eyed Mary | | | | 6 |
| Hooker's balsamroot | 1 | | | |
| Wyoming big sagebrush | | | 16 | 20 |
| Rubber rabbitbrush | | | | 3 |
| Antelope bitterbrush | 3 | | | |

Table A3-4: Trend Plot 2 Annual Summary (Percent Ground Cover)

| Species | 1973 | 1974 | 1983 | 1987 | 1991 | 2001 | 2007 |
|--------------------------|------|------|------|------|------|------|------|
| Thurber needlegrass | 1 | | 2 | 1 | <1 | | |
| Bluebunch wheatgrass | <1 | | | | <1 | | |
| Sandberg's bluegrass | | | 9 | 3 | 3 | <1 | 18 |
| Bottlebrush squirreltail | | | <1 | | <1 | | |
| Long-leafed phlox | | | 4 | | | 1 | |
| Hooker's balsamroot | | | <1 | | <1 | | |
| Antelope bitterbrush | 1 | 1 | 19 | | | | |

Table A3-5: Trend Plot 2 Nested Frequency Annual Summary (Percent Frequency of Occurrence)

| Species | 1983 | 1987 | 1991 | 2001 | 2007 |
|--------------------------|------|------|------|------|------|
| Bottlebrush squirreltail | 43 | 24 | 14 | 8 | |
| Thurber needlegrass | 26 | 21 | 6 | | |
| Sandberg's bluegrass | 84 | 69 | 80 | 86 | 94 |
| Bluebunch wheatgrass | 14 | | 6 | 1 | 1 |
| Cheatgrass | 83 | 30 | 80 | 98 | 73 |
| Six-weeks fescue | 8 | 4 | 11 | 48 | 59 |
| Hooker's balsamroot | 25 | 14 | 7 | | |
| Long-leaved phlox | 44 | 6 | 2 | | 11 |
| Wild onion | 18 | 0 | 0 | 15 | 3 |
| Tumble mustard | 43 | 76 | 31 | | 23 |
| Prickly lettuce | 28 | 1 | 0 | 10 | |
| Aster | 5 | | | 1 | |
| Milkvetch | 1 | | 1 | | |
| Willowherb | 4 | 9 | | | |
| Salsify | 6 | | | 3 | |
| Hood's phlox | 6 | 6 | 2 | 5 | |
| Wyoming big sagebrush | 4 | 5 | 25 | 35 | 24 |
| Three-tip sagebrush | 11 | 6 | 11 | | |

Table A3-6: Trend Plot 3 Annual Summary (Percent Ground Cover)

| Species | 1973 | 1981 | 1984 | 1988 | 2001 | 2007 |
|----------------------|------|------|------|------|------|------|
| Crested wheatgrass | 1 | 21 | 10 | 3 | 2 | |
| Sandberg's bluegrass | | 1 | 5 | 5 | 27 | 20 |
| Bulbous bluegrass | | <1 | 1 | | 2 | |
| Alfalfa | 1 | 2 | 16 | | | |
| Wild onion | | <1 | | | | |

Table A3-7: Trend Plot 3 Nested Frequency Annual Summary (Percent Frequency of Occurrence)

| Species | 1984 | 1988 | 2001 | 2007 |
|-----------------------|------|------|------|------|
| Sandberg's bluegrass | 60 | 93 | 100 | 90 |
| Crested wheatgrass | 96 | 96 | 65 | 55 |
| Bulbous bluegrass | 30 | | 84 | 41 |
| Thurber needlegrass | 3 | 3 | 1 | |
| Tumble mustard | 31 | 51 | | 13 |
| Stickseed | 3 | | | |
| Prickly lettuce | 36 | 4 | | 4 |
| Willowherb | 29 | 4 | | |
| Long-leafed phlox | 8 | 6 | 9 | |
| Salsify | 8 | 1 | 3 | |
| Milkvetch | 3 | | | |
| Hooker's balsamroot | 34 | | | |
| Tansymustard | 34 | | | |
| Blue-eyed Mary | 3 | | | 3 |
| Alfalfa | 36 | | 1 | |
| Agoseris | 4 | | | |
| Lupine | 6 | | | |
| Wild onion | 14 | | | |
| Three-tip sagebrush | 1 | | 4 | 4 |
| Wyoming big sagebrush | 3 | 1 | 15 | 16 |

Table A3-8: Trend Plot 4 Annual Summary (Percent Ground Cover)

| Species | 1974 | 1978 | 1982 | 1986 | 1989 | 2001 | 2007 |
|-----------------------|------|------|------|------|------|------|------|
| Crested wheatgrass | 5 | 10 | 2 | 5 | 1 | <1 | 1 |
| Sandberg's bluegrass | | <1 | <1 | <1 | <1 | 8 | 14 |
| Long-leafed phlox | <1 | 1 | 1 | 1 | | <1 | |
| Wyoming big sagebrush | | | | | | 2 | |

Table A3-9: Trend Plot 4 Nested Frequency Annual Summary (Percent Frequency of Occurrence)

| Species | 1986 | 1989 | 1995 | 2007 |
|-----------------------|-------------|-------------|-------------|-------------|
| Crested wheatgrass | 78 | 66 | 52 | 64 |
| Sandberg's bluegrass | 9 | 20 | 14 | 73 |
| Cheatgrass | 69 | 56 | 79 | 51 |
| Six-weeks fescue | | | | 15 |
| Tumble mustard | | | | 29 |
| Fleabane | 1 | | 1 | |
| Prickly lettuce | 28 | 16 | | 19 |
| Long-leafed phlox | 6 | 9 | 7 | 20 |
| Clasping pepperweed | 5 | 39 | 15 | |
| Salsify | 1 | | | |
| Sticksseed | | | 44 | |
| Alfalfa | | | | 16 |
| Basin big sagebrush | | | 1 | |
| Wyoming big sagebrush | 1 | 28 | 40 | 3 |