

Determination of Public Land (Rangeland) Health for 64060 HONDO CANYON

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. There are concerns with the Biotic standard in several areas; these concerns center on invasive plants and the effects to wildlife habitat. The indicators associated with this standard will continue to be monitored and vegetative treatments to reverse the trend with invasive plants will be considered for implementation.

Based on the assessments, it is my determination that the public land within the Hondo Canyon allotment #64060 meets the Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ T. R. Kreager
Assistant Field Manager

6/28/2005
Date

Standards of Public Land Health

Evaluation of 64060 HONDO CANYON Allotment

[02/04/2004]

The Roswell Field Office conducted rangeland health assessments at 11 study sites within the Hondo Canyon Allotment #64060. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

| Study Area or Assessment Area | UPLAND | | | BIOTIC | | | RIPARIAN | | |
|-------------------------------|--------|----------------------|---------------|--------|----------------------|---------------|----------|----------------------|---------------|
| | Meets | Monitor an Indicator | Does Not Meet | Meets | Monitor an Indicator | Does Not Meet | Meets | Monitor an Indicator | Does Not Meet |
| 64060-3Z-F196 (*) | X | * | | X | | | N/A | | |
| 64060-DIAMOND A-F198 | X | * | | X | * | | N/A | | |
| 64060-EAST BAR H-F201 (*) | X | | | X | | | N/A | | |
| 64060-EAST BORDER-F191 (*) | X | | | X | * | | N/A | | |
| 64060-HONDO-F199 (*) | X | | | X | | | N/A | | |
| 64060-HORSE-F193 (*) | X | * | | X | | | N/A | | |
| 64060-NO COLE-F195 (*) | X | * | | X | * | | N/A | | |
| 64060-NUNEZ EAST | X | | | X | | | N/A | | |
| 64060-SCHOOLHOUSE-F197 (*) | X | | | X | | | N/A | | |
| 64060-SO COLE-F192 (*) | X | | | X | | | N/A | | |
| 64060-VAT-F194 (*) | X | | | X | | | N/A | | |
| 64060-WEST BORDER-F200 | X | | | X | | | N/A | | |

Twenty-two (22) indicators for Rangeland Health were evaluated for the public land on the Hondo Canyon allotment #64060. Ten of these assessed soil site stability, 11 hydrologic function and 13 biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected on 12 study locations within the allotment were used in making evaluations. Quantitative evaluations were performed by the Roswell Field office, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. These studies are scheduled and conducted approximately every 5 years.

Range - Three major Ecological Range sites were reviewed on the Diamond A - Hondo Canyon Allotment. They are the Shallow CP-4, Very Shallow CP-4 and the Shallow SD-3. The range sites vary in soil depth, slope, elevation and vegetation composition. The Shallow SD-3 ranges in elevation from 2,842 to 4,500 feet', while the Shallow CP-4 and Very Shallow CP-4 sites range from 4,000 feet to 7,000 feet: the difference here is in the depth of soil over either indurated caliche or over unfractured limestone.. Black grama is the defining grass at lower elevations changing to a blue grama standard for the Shallow CP-4 at higher elevations, while the Very Shallow CP-4 changes to become dominated by sideoats at the upper elevations for the site.

Horse pasture, 3Z, Diamond A and East Border Pasture have studies located in the Shallow SD-3 Range site. In each case there are None to Slight departures from the range site description for the Rills Attribute, the Gullies attribute and for Compaction layers. Water Flow patterns are within acceptable ranges, generally with slight to moderate variations, while Pedestals and Terracettes also vary from slight to moderate. The Bare Ground attribute was rated at Moderate for each of the study locations. The Wind Scours and Blowout Attributes for each of the studies rated from None to Slight to Slight to Moderate, depending on the slope and exposure of the study location. Variations were noted across each of the pastures. Litter movement was noted in some locations, but the concentrations were not consistently around obstructions. Soil surface resistance to runoff remained at either slight to moderate, depending on the amount of rock and vegetation present. Soil surface loss was rated at slight to Moderate for each of the four pastures. The concerns in each of these four pastures was felt to be in the Plant Community compositions and Distribution Relative to Infiltration and Runoff Attribute. In each of the pastures this attribute was rated at Moderate to Extreme variation from the Range site description. Plants groups such as Grasses had been reduced, apparently from the long term drought which the allotment was experiencing. Grasses would serve to slow any received precipitation and help its infiltration into the soil. This same drought situation is also affecting the Functional and Structural groups. In the Diamond A Pasture, the 3 Z pasture and the East Border Pasture the variation from the range site was rated at Moderate, while the Horse pasture was rated at Moderate to Extreme; while all groups were still represented in the pastures the number of species was becoming restricted, and the aspect was changing from one of a grassland to one more noted as shrubland. Plant Mortality and Decadence was rated at Moderate in both the East Border and the Diamond A pasture; plants were noted to be old and decadent, but not dead, while more plant death was noted in the Horse Pasture and 3 Z pasture. As utilization by livestock is not apparent, plant mortality may be again linked to low precipitation. Litter amounts in the

four pastures were higher than expected for the range site, given the low precipitation. Annual production was very low in both Horse and 3 Z pastures; both pastures rated at Extreme variation from the Range site description, while the Diamond A and the East Border pastures both produced more, still producing only from 26 to 47% of the drought level production. Plants such as cholla, snakeweed and mesquite were evident in the Horse, East Border and Diamond A pastures but were not extensively noted in 3 Z pasture. Reproductive capability was diminished within each of these four pastures, due in large part to low precipitation levels over the last several years. Utilization levels by livestock were not apparent except in 3 Z, where they were still light to moderate use.

The study sites within the North and South Cole Pastures and in School House pastures all fall into the Shallow CP-4 Range Site. Historic plant community indicates that black grama is the dominant species with sideoats grama occurring as the sub dominant. A wide variety of shrubs occur here, such as catclaw acacia, yucca, creosote bush, javalina bush and cholla. An increase in threeawns, tridens, wolftail, dropseeds and hairy grama can be indicators of an area under stress.

The indicators for Rills, Water Flow patterns, Pedestals and Terracettes, Gullies, Wind Scours, Litter Movement, Soil Surface Resistance to Erosion and Soils Surface Loss or Degradation and Compaction all were rated at either none to slight or slight to moderate, leaning toward slight for each of these three pastures. The indicator Plant Community Composition and Distribution Relative to Infiltration and Runoff moved from being slight to moderate for the South Cole Pasture to moderate in both School House and North Cole Pastures. It is to be noted that in recent vegetation studies for both of these pastures that grass cover had dropped, and shrubs had increased since the previous study. As both of these factors had been commensurate with the precipitation in previous years, the current levels would indicate the low rainfall received here over the last several years. The Functional Structural Groups assessment indicated that even though all groups were present and had good species diversity, that the number of individual plants appeared reduced. The North Cole Pasture while having all groups was beginning to have a shrub aspect. Plant Mortality and Decadence in these pastures was rated at Slight to Moderate; plants appeared to be a good level of viability, but the production level were low. Consequently, the Litter amounts appeared low, even though they did fall within the expected levels for the range site. Annual Production in each of these pastures was rated at Moderate to Extreme variation from the range site description, producing an average of 30% of what might be expected in drought conditions. Reproductive capability of the plants was also rated at either slight to moderate or moderate. These are an indication of the low levels of precipitation received over the past several years. Species which can be considered to be invasive, such as cholla and acacia are present, but are not outside of what might be expected and are scattered throughout the pastures.

The remaining four pastures, Vat, East Bar H, Hondo and West Border fall predominately into the Very Shallow CP-4 Range site. The site occurs on upland plains, on top slopes of hills and ridges where the soil is very shallow over unfractured limestone. The historic plant community is one of a grassland/shrub/succulent - mix, dominated by grasses with an even distribution of shrubs and succulents. Black grama is the dominant species at

lower elevations while sideoats would be the dominant grass at higher elevations. Competition for available water may be a factor contributing to the transitions to a shrub dominated site. Suppression of natural fire may also be a factor. Bare ground and surface cobble/stone can be expected to make up 65% of the ground cover for this site.

The Indicators for Rills, Water Flow Patterns, Bare Ground, Gullies, Wind Scours, Soil Surface Resistance to Erosion and Soil Surface Loss or Degradation and Compaction Layers rated either None to slight or Slight to Moderate, on the slight side. The general rating for the Functional -Structural Groups for the four pastures was consistently Slight to Moderate, based on that there was good species diversity, and a good mix of the groups, but all groups and species were low in production for this year. Decadent plants were noted in all four pastures, resulting in a Moderate rating; the plants were not dead, but in response to the drought were not vigorously growing and appeared dormant. The Litter Indicator also reflected the drought, plants were not dead but were dry. The amount of litter did exceed what was expected for the site. Production was low in response to the drought and in two of the four pastures was approximately 1/3 of dry condition production levels. The remaining two pastures had approximately 66% of drought level production, resulting in a rating of slight to moderate, leaning toward moderate. The Invasive plants found in these four pastures were of the species expected and were present primarily in disturbed sites in the East Bar H, West Border and Vat pasture. But the levels were higher or more dense in the Hondo pasture and included species such as catclaw acacia, yucca, cholla, prickly pear, and mesquite, with some scattered broom snakeweed. A herbicide treatment could be effective at controlling the infestation, along with growing season rest for a minimum of two years post treatment.

The Reproductive Capability for East Bar H pasture was rated at None to Slight departure from the Range site guide as seedheads and tillers were still present on many of the plants. This attribute was rated at Slight to Moderate for both Hondo and Vat pastures, no utilization was apparent on the plants, but fewer tillers and seedheads were evident here. It appears that the limiting factor for reproduction again is the ongoing drought. The West Border pasture did show some utilization, however reproduction was limited through out the pasture, resulting in a Moderate Rating.

Hydrology - 3Z pasture - The Bare Ground indicator rated as moderate. The amount of bareground has possibly increased due to recent dry conditions and also wind and water erosion processes. The litter movement indicator rated in the moderate category. The decrease in litter movement suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is produced and litter movement. Soil surface resistance to erosion rated in the Moderate category. Organic matter is lacking on this site, but this is expected for an area that has a small amount of litter present. The plant community composition and distribution relative to infiltration and runoff rated as moderate to extreme. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The litter amount rated in the moderate to extreme category. The decrease in litter amount suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is

produced. Additionally, the decrease in litter amount can have the effect of increasing the amount of bare soil. The physical/biological crust indicator rated as moderate. The soil crusts were only found in protected areas with a minor component in interspaces. All other indicators rated as none to slight or slight to moderate. Limestone and gypsum deposits of the San Andres Formation outcrop in the area.

Diamond A Pasture - The pedestal indicator rated as moderate. The recent dry conditions in combination with wind and water erosion has possibly decreased the amount of plant cover and possibly decreased infiltration into the soils which may have increased the amount of pedestaling of plants and rocks. The bareground indicator rated as moderate. The amount of bare ground has possibly increased due to recent dry conditions and also wind and water erosion processes. The plant community composition and distribution relative to infiltration and runoff rated as moderate. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The litter amount rated in the moderate category. The decrease in litter amount suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is produced. Additionally, the decrease in litter amount can have the effect of increasing the amount of bare soil. All other indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary Alluvial deposits and limestone and gypsum deposits of the San Andres Formation outcrop in the area.

East Pasture - All the soil and hydrology indicators rated as none to slight or slight to moderate. Limestone and gypsum deposits of the San Andres Formation outcrop in the area.

East Border Pasture - The bareground indicator rated as moderate. The amount of bareground has possibly increased due to recent dry conditions and also wind and water erosion processes. The plant community composition and distribution relative to infiltration and runoff rated as moderate. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The litter amount rated in the moderate category. The decrease in litter amount suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is produced. Additionally, the decrease in litter amount can have the effect of increasing the amount of bare soil. All the other soil and hydrology indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary Alluvial deposits and limestone and gypsum deposits of the San Andres Formation outcrop in the area.

Hondo Pasture - The plant community composition and distribution relative to infiltration and runoff rated as moderate. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The increase of all species and class would help increase water infiltration and decrease runoff. The litter amount rated in the moderate category. The decrease in litter amount suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is

produced. Additionally, the decrease in litter amount can have the effect of increasing the amount of bare soil. All the other soil and hydrology indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary Alluvial deposits outcrop in the area. Horse Pasture - The water flow patterns indicator rated as moderate. Erosion is minor with some instability and deposition. The pedestal indicator rated as moderate. The recent dry conditions in combination with wind and water erosion has possibly decreased the amount of plant cover and possibly decreased infiltration into the soils which may have increased the amount of pedestaling of plants and rocks. The bareground indicator rated as moderate to extreme. The amount of bareground has possibly increased due to recent dry conditions and also wind and water erosion processes. The litter movement indicator rated in the moderate category. The decrease in litter movement suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is produced and litter movement. The plant community composition and distribution relative to infiltration and runoff rated as moderate to extreme. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The increase of all species and class would help increase water infiltration and decrease runoff. All the other soil and hydrology indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary Alluvial deposits and limestone and gypsum deposits of the San Andres Formation outcrop in the area.

No Cole Pasture - The bareground indicator rated as moderate to extreme. The amount of bareground has possibly increased due to recent dry conditions and also wind and water erosion processes. The plant community composition and distribution relative to infiltration and runoff rated as moderate. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The increase of all species and class would help increase water infiltration and decrease runoff. The litter amount rated in the moderate category. The decrease in litter amount suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is produced. Additionally, the decrease in litter amount can have the effect of increasing the amount of bare soil. All the other soil and hydrology indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary Alluvial deposits outcrop in the area.

School House Pasture - The plant community composition and distribution relative to infiltration and runoff rated as moderate. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The increase of all species and class would help increase water infiltration and decrease runoff. All the other soil and hydrology indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary Terrace Gravel deposits outcrop in the area.

VAT pasture - The pedestal indicator rated as moderate. The recent dry conditions in combination with wind and water erosion has possibly decreased the amount of plant cover and possibly decreased infiltration into the soil which may have increased the

amount of pedestaling of plants and rocks. The bareground indicator rated as moderate to extreme. The amount of bareground has possibly increased due to recent dry conditions and also wind and water erosion processes. The plant community composition and distribution relative to infiltration and runoff rated as moderate. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The increase of all species and class would help increase water infiltration and decrease runoff. The plant community composition and distribution relative to infiltration and runoff rated as moderate. The recent dry conditions or drought conditions have possibly increased the amount of conversion of grassland to shrub land which has reduced infiltration and increased runoff. The increase of all species and class would help increase water infiltration and decrease runoff. All the other soil and hydrology indicators rated as none to slight or slight to moderate. Limestone and gypsum deposits of the San Andres Formation outcrop in the area.

West Border pasture - The bareground indicator rated as moderate to extreme. The amount of bareground has possibly increased due to recent dry conditions and also wind and water erosion processes. The gullies indicator rated moderate with active erosion and gully formation taking place. The increase in gullies has occurred because pit development and the vegetation is very sparse and intermittent on slopes. The lack of vegetation has decreased infiltration and increased runoff. The litter amount rated in the moderate to extreme category. The decrease in litter amount suggests that the dry conditions have had a negative affect on the growing conditions which decreases the amount of litter that is produced. Additionally, the decrease in litter amount can have the effect of increasing the amount of bare soil. All the other soil and hydrology indicators rated as none to slight or slight to moderate. Sand and gravel deposits of Quaternary Alluvial deposits and limestone and gypsum deposits of the San Andres Formation outcrop in the area.

Wildlife/Biotic - Evaluation of the integrity of the biotic community considered several indicators as attribute indices for the area of interest. Biotic indicators are interrelated with several other indicators, including soil/site stability, hydrologic function, and vegetation. Several indicators are singularly biotic and address the vegetation aspect of the ecological site, such as Functional/Structural Groups and Plant Mortality & Decadence, as described above. In addition to the standard worksheet biotic factors, four specific wildlife indicators are included in the biotic evaluation.

The area is within the limestone rolling hills and drainages approximately 15 miles west of Roswell. Access to the area is available to most of the allotment via hwy 70/380.

Specifically annual production for two sites was in the extreme category. Using current monitoring data and field observations, annual production was less than 20% of potential. All other sites for the annual production indicator was moderate to extreme. Long term lack of precipitation as had cumulative effects on composition and frequency. The invasive plant species indicator was moderate to extreme on three sites, inferring a need for treatment of brush and cholla species. The Plant Mortality and Functional Structural

groups indicators was moderate to extreme on two other sites which reflects composition problems and the lack of plants to survive. Numerous indicators for all sites fell within the moderate category. All of which are reflected by continued drought conditions and past grazing management. All of these indicators will rebound over time with normal climatic conditions and proper grazing management in accordance with vegetative production levels.

The Assessment Team made follow-up visits in the spring of 2005 to some of the sites where the indicators have been rated as moderate to extreme or extreme. Average to above average amounts of precipitation was received in the summer and winter of 2004. Resource conditions are dramatically improved due to these climatic events however, periodic field reviews need to continue to monitor these indicators.

It is the opinion of the Assessment Team that the public lands within allotment 64060 meet the Public Land Health Standards. There are concerns with the Biotic standard in several areas; these concerns center on invasive plants and the effect to wildlife habitat.

The (*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

- Bare Ground
- Plant Community Composition and Distribution Relative to Infiltration and Runoff
- Functional/Structural Groups
- Annual Production
- Invasive Plants
- Reproductive Capability of Perennial Plants

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

Recommendations: It is recommended that vegetation treatments be considered for cholla, acacia catclaw, creosote and mesquite in various pastures across the allotment. Due to the rough terrain, treatments such as prescribed fire be used in some locations, while a chemical or herbicide treatment, or a mechanical treatment might be effective in other locations. In all cases, a minimum of two growing season rests should be implemented after the treatment, and potentially prior to any prescribed burn. This should not be a difficult arrangement for the current allottee as the grazing management on this allotment is able to include the private lands in the center of the allotment. Cattle are removed from the public lands during the growing season, leaving only a light scatter of sheep across the allotment.

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-3Z-F196

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|------------------|
| Legal Land Desc | NWNE 29 0110S 0210E Meridian 23 | Acreage | 1384 |
| Ecosite | 042CY025NM SHALLOW SD-3 | Photo Taken | N |
| Watershed | 13060008090 HONDO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/22/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | Tg | Soil Taxon Name | TENCEE |
| Texture Class | NM666 GR-L | Soil Phase | TENCEE- UPTON |
| Texture Modifier | NM666 GRAVELLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| | | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| Attribute | Indicators | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | | | | | | |
| S H | Pedestals and/or Terracettes | | | | X | |
| Comments: | | | | | | |
| S H | Bare Ground | | | X | | |

| | | | | | | |
|-----------|----------------------------------------------------------------------------------|---|---|---|---|---|
| Comments: | | | | | | |
| S H | Gullies | | | | | X |
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | X | |
| Comments: | | | | | | |
| H | Litter Movement | | | X | | |
| Comments: | | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | X | | |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | Moving toward moderate | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | X | | | |
| Comments: | | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | X | | |
| Comments: | Grass species are limited, very low diversity on this site. | | | | | |
| B | Plant Mortality/Decadence | | | X | | |
| Comments: | | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | | | | | | |
| B | Annual Production | X | | | | |
| Comments: | 13% of Drought level production. | | | | | |
| B | Invasive Plants | | | | X | |
| Comments: | In keeping with the range site | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | X | |
| Comments: | Limited by precipitation. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | X | | |
| Comments: | | | | | | |
| B | Wildlife Habitat | | | X | | |

| | | | | | | |
|-----------|-----------------------------------------|--|--|--|---|---|
| Comments: | Quality, quantity, adjacent farm field. | | | | | |
| B | Wildlife Populations | | | | X | |
| Comments: | | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 3 | 4 | 3 |
| H | Hydrologic | 0 | 1 | 3 | 4 | 3 |
| B | Biotic | 1 | 0 | 4 | 5 | 3 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 3 | 7 |
| Hydrologic | | 1 | 3 | 7 |
| Biotic | | 1 | 4 | 8 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-DIAMOND A-F198

| | | | |
|--------------------------------------|-----------------------------------|----------------------------------------------|------------------|
| Legal Land Desc | NWSE 7 0110S 0210E Meridian 23 | Acreage | 1129 |
| Ecosite | 042CY025NM SHALLOW SD-3 | Photo Taken | N |
| Watershed | 13060008120 PICACHO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/09/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | Tg | Soil Taxon Name | TENCEE |
| Texture Class | NM666 GR-L | Soil Phase | TENCEE- UPTON |
| Texture Modifier | NM666 GRAVELLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| | | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| Attribute | Indicators | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | | X |
| Comments: | | | | | | |
| S H | Pedestals and/or Terracettes | | | X | | |
| Comments: | | | | | | |
| S H | Bare Ground | | | X | | |

| | | | | | | |
|-----------|----------------------------------------------------------------------------------|--|--|---|---|---|
| Comments: | Upper end of what is expected for the site. | | | | | |
| S H | Gullies | | | | | X |
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | X | |
| Comments: | Little litter production, therefore little litter movement | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | moving towards moderate. | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | X | | |
| Comments: | Grasses are reduced, would help in infiltration. | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | X | | |
| Comments: | Grass species diversity is low as is shrub component. | | | | | |
| B | Plant Mortality/Decadence | | | X | | |
| Comments: | | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | Low litter amount due to low production. | | | | | |
| B | Annual Production | | | X | | |
| Comments: | Limited by climate, 46% of Drought level production | | | | | |
| B | Invasive Plants | | | X | | |
| Comments: | Scattered cholla and mesquite. Higher levels of acacia in pockets. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | X | | |
| Comments: | limited due to climatic conditions, utilization is slight to none. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | X | |
| Comments: | Continuity is broken within the site. but crusts are apparent | | | | | |
| B | Wildlife Habitat | | | X | | |

| | | | | | | |
|-----------|--------------------------------------|--|--|---|--|---|
| Comments: | Forage quality and quantity. cover | | | | | |
| B | Wildlife Populations | | | X | | |
| Comments: | Mule deer - - outside of BLM control | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 2 | 3 | 5 |
| H | Hydrologic | 0 | 0 | 3 | 4 | 4 |
| B | Biotic | 0 | 0 | 7 | 3 | 3 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 2 | 8 |
| Hydrologic | | 0 | 3 | 8 |
| Biotic | | 0 | 7 | 6 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-EAST BAR H-F201

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|---------------|
| Legal Land Desc | SWSW 33 0110S 0200E Meridian 23 | Acreage | 2208 |
| Ecosite | 070DY158NM VERY SHALLOW CP-4 | Photo Taken | N |
| Watershed | 13060008090 HONDO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/22/2004 |
| County Soil Survey | NM632 LINCOLN | Soil Var/Taxad | |
| Soil Map Unit | 017 | Soil Taxon Name | ECTOR |
| Texture Class | NM632 CB-L | Soil Phase | ECTOR- ROC |
| Texture Modifier | NM632 VERY COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | | | | | | |
| S H | Pedestals and/or Terracettes | | | | | X |
| Comments: | | | | | | |
| S H | Bare Ground | | | | X | |
| Comments: | | | | | | |

| | | | | | | |
|-----------|------------------------------------------------------------------------------------------------------------------------|--|---|---|---|---|
| S H | Gullies | | | | | X |
| Comments: | Some erosion in bottoms of drainages, but not in study site or on associated soils. | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | X | |
| Comments: | | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | | X | |
| Comments: | | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | | X | |
| Comments: | Species diversity is here, but production is'nt. | | | | | |
| B | Plant Mortality/Decadence | | | X | | |
| Comments: | | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | | | | | | |
| B | Annual Production | | X | | | |
| Comments: | Very little evidence of grazing, production is limited by climate. | | | | | |
| B | Invasive Plants | | | | X | |
| Comments: | Species mix is good per range site description | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | | X |
| Comments: | Reproduction is evident in seed head and tillers; grazing is not apparent. Production is low due to low precipitation. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | | X |
| Comments: | | | | | | |
| B | Wildlife Habitat | | | | X | |

| | | | | | | |
|-----------|----------------------------------------------------|--|--|--|---|---|
| Comments: | Forage quality and quantity | | | | | |
| B | Wildlife Populations | | | | X | |
| Comments: | Mule deers, barbary sheep, private land influence. | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 0 | 4 | 6 |
| H | Hydrologic | 0 | 0 | 0 | 7 | 4 |
| B | Biotic | 0 | 1 | 1 | 7 | 4 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 0 | 10 |
| Hydrologic | | 0 | 0 | 11 |
| Biotic | | 1 | 1 | 11 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-EAST BORDER-F191

| | | | |
|--------------------------------------|-----------------------------------|----------------------------------------------|-----------------|
| Legal Land Desc | SESE 5 0110S 0210E Meridian 23 | Acreage | 1692 |
| Ecosite | 042CY025NM SHALLOW SD-3 | Photo Taken | N |
| Watershed | 13060008120 PICACHO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/09/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | UA | Soil Taxon Name | UPTON |
| Texture Class | NM666 GR-L | Soil Phase | UPTON- ATOKA |
| Texture Modifier | NM666 GRAVELLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| | | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|------------------------------|------------------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| Attribute | Indicators | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | | Flow patterns are stable & short, acceptable for the site, no erosion is apparent. | | | | |
| S H | Pedestals and/or Terracettes | | | | X | |
| Comments: | | | | | | |
| S H | Bare Ground | | | X | | |

| | | | | | | |
|-----------|-------------------------------------------------------------------------------------------|--|---|---|---|---|
| Comments: | | | | | | |
| S H | Gullies | | | | X | |
| Comments: | No signs of active headcutting. | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | X | |
| Comments: | slight displacement of litter. | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | moving toward moderate | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | Moving toward moderate - plant interspacing | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | X | | |
| Comments: | Tied to cholla & mesquite - bare ground is at high end for the site | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | X | | |
| Comments: | Shrub component is too high - in cholla and mesquite, desirable grasses are low. | | | | | |
| B | Plant Mortality/Decadence | | | X | | |
| Comments: | Tobosa is decadent, but not dead - low growth and production is due to drought condition. | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | Low litter due to low production | | | | | |
| B | Annual Production | | X | | | |
| Comments: | Low production due to drought. 26% of drought level production | | | | | |
| B | Invasive Plants | | X | | | |
| Comments: | Cholla and mesquite. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | X | |
| Comments: | Reproduction is low and limited by climate. Utilization is very low to minimal. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | | X |
| Comments: | Crusts are apparent thru the site. | | | | | |

| | | | | | | |
|-----------|-------------------------------------------------------------------------------------|--|--|---|--|---|
| B | Wildlife Habitat | | | X | | |
| Comments: | Mule deer, quail, forbs are low, cover is low to lacking - tied to plant production | | | | | |
| B | Wildlife Populations | | | X | | |
| Comments: | Outside of BLM control | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 1 | 5 | 4 |
| H | Hydrologic | 0 | 0 | 2 | 7 | 2 |
| B | Biotic | 0 | 2 | 4 | 4 | 3 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 1 | 9 |
| Hydrologic | | 0 | 2 | 9 |
| Biotic | | 2 | 4 | 7 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-HONDO-F199

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|---------------------|
| Legal Land Desc | NWNW 13 0110S 0200E Meridian 23 | Acreage | 2745 |
| Ecosite | 070DY158NM VERY SHALLOW CP-4 | Photo Taken | N |
| Watershed | 13060008120 PICACHO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/09/2004 |
| County Soil Survey | NM632 LINCOLN | Soil Var/Taxad | |
| Soil Map Unit | 016 | Soil Taxon Name | ECTOR |
| Texture Class | NM632 CB-L | Soil Phase | ECTOR- KIMBROUGH |
| Texture Modifier | NM632 VERY COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|-----------------------------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | Short and stable | | | | | |
| S H | Pedestals and/or Terracettes | | | | | X |
| Comments: | | | | | | |
| S H | Bare Ground | | | | X | |
| Comments: | Within expected range - more grass cover is needed. | | | | | |

| | | | | | | |
|-----------|-------------------------------------------------------------------------------------------------------------------|--|---|---|---|---|
| S H | Gullies | | | | | X |
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | | X |
| Comments: | Litter distribution is uniform on this site. | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | X | | |
| Comments: | Infiltration would be better with more plants of all species and class. | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | X | | |
| Comments: | Higher levels of prickly pear and catclaw | | | | | |
| B | Plant Mortality/Decadence | | | X | | |
| Comments: | Shrubs are well established, few young plants of shrubs or grasses noted; grasses are not dead, but are decadent. | | | | | |
| H B | Litter Amount | | | | | X |
| Comments: | | | | | | |
| B | Annual Production | | | X | | |
| Comments: | annual production is low due to drought: Any current year production has not been removed by grazing. | | | | | |
| B | Invasive Plants | | X | | | |
| Comments: | Cholla, prickly pear, acacia, some mesquite and acacia. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | X | |
| Comments: | Low due to drought, not removed by grazing. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | X | |
| Comments: | Within site expectation. | | | | | |

| | | | | | | |
|-----------|------------------------------------|--|--|---|---|---|
| B | Wildlife Habitat | | | | X | |
| Comments: | Forage availability. | | | | | |
| B | Wildlife Populations | | | X | | |
| Comments: | Mule deer | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 0 | 5 | 5 |
| H | Hydrologic | 0 | 0 | 1 | 4 | 6 |
| B | Biotic | 0 | 1 | 4 | 4 | 4 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 0 | 10 |
| Hydrologic | | 0 | 1 | 10 |
| Biotic | | 1 | 4 | 8 |

Site Notes: this site is scheduled for acacia /creosote control, via herbicide application.

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-HORSE-F193

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|------------------|
| Legal Land Desc | NWNE 33 0110S 0210E Meridian 23 | Acreage | 666 |
| Ecosite | 042CY025NM SHALLOW SD-3 | Photo Taken | N |
| Watershed | 13060008090 HONDO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/22/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | Tg | Soil Taxon Name | TENCEE |
| Texture Class | NM666 GR-L | Soil Phase | TENCEE- UPTON |
| Texture Modifier | NM666 GRAVELLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| | | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| Attribute | Indicators | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | X | | |
| Comments: | | | | | | |
| S H | Pedestals and/or Terracettes | | | X | | |
| Comments: | | | | | | |
| S H | Bare Ground | | | X | | |

| | | | | | | |
|-----------|-------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
| Comments: | | | | | | |
| S H | Gullies | | | | | X |
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | X | |
| Comments: | | | | | | |
| H | Litter Movement | | | X | | |
| Comments: | | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | Moving toward Moderate. | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | X | | |
| Comments: | | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | X | | | |
| Comments: | Fewer grass species here than site should show; shrubs dominate. | | | | | |
| B | Plant Mortality/Decadence | | | X | | |
| Comments: | | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | More litter here than expected. | | | | | |
| B | Annual Production | X | | | | |
| Comments: | 5% of Drought level production | | | | | |
| B | Invasive Plants | | X | | | |
| Comments: | Cholla, mesquite and snakeweed. | | | | | |
| B | Reproductive Capability of Perennial Plants | | X | | | |
| Comments: | Precipitation limited, low to no utilization. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | | X |
| Comments: | Physical crusts are present, no or few biological crusts are present..this is within the limitations of the site. | | | | | |

| | | | | | | |
|-----------|------------------------------------------------|--|--|---|--|---|
| B | Wildlife Habitat | | | X | | |
| Comments: | Quality, Quantity (none) farm fields adjacent. | | | | | |
| B | Wildlife Populations | | | X | | |
| Comments: | Mule Deer, and quail | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 3 | 3 | 4 |
| H | Hydrologic | 0 | 0 | 5 | 3 | 3 |
| B | Biotic | 1 | 3 | 3 | 3 | 3 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 3 | 7 |
| Hydrologic | | 0 | 5 | 6 |
| Biotic | | 4 | 3 | 6 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-NO COLE-F195

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|------------|
| Legal Land Desc | NWSE 14 0110S 0210E Meridian 23 | Acreage | 1024 |
| Ecosite | 070DY152NM SHALLOW CP-4 | Photo Taken | N |
| Watershed | 13060008120 PICACHO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/09/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | TfD | Soil Taxon Name | TENCEE |
| Texture Class | NM666 CB-L | Soil Phase | TENCEE |
| Texture Modifier | NM666 COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|---------------------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | moving toward moderate | | | | | |
| S H | Pedestals and/or Terracettes | | | | X | |
| Comments: | | | | | | |
| S H | Bare Ground | | X | | | |
| Comments: | exceeds upper end of range site description | | | | | |
| S H | Gullies | | | | X | |

| | | | | | | |
|-----------|-------------------------------------------------------------------------------------------|--|---|---|---|---|
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | X | |
| Comments: | | | | | | |
| H | Litter Movement | | | | X | |
| Comments: | litter is not being displaced | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | More plant cover would it more resistant, but within the limits of the site. | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | In plant interspacings | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | X | | |
| Comments: | reduced to low amount of grass cover | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | X | | | |
| Comments: | Shrub component is diverse, but grass and forbs are limited to low levels | | | | | |
| B | Plant Mortality/Decadence | | | | X | |
| Comments: | plants have high viability, but low productin | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | Reduced amount of litter due to reduced amount of production. | | | | | |
| B | Annual Production | | X | | | |
| Comments: | Limited by precipitation | | | | | |
| B | Invasive Plants | | | X | | |
| Comments: | Cholla scattered thru the site, but not dense. Current levels lend diversity to the site. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | X | | |
| Comments: | Limited by precipitation | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | X | |
| Comments: | | | | | | |
| B | Wildlife Habitat | | | X | | |
| Comments: | Forage - farm fields are within 2+ miles, little cover for ground nesting birds. | | | | | |

| | | | | | | |
|-----------|------------------------------------|--|--|---|--|---|
| B | Wildlife Populations | | | X | | |
| Comments: | | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 1 | 0 | 7 | 2 |
| H | Hydrologic | 0 | 1 | 1 | 7 | 2 |
| B | Biotic | 0 | 2 | 4 | 4 | 3 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 1 | 0 | 9 |
| Hydrologic | | 1 | 1 | 9 |
| Biotic | | 2 | 4 | 7 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-NUNEZ EAST

| | | | |
|--------------------------------------|----------------------------------|----------------------------------------------|---------------|
| Legal Land Desc | NW 27 0110S 0200E Meridian 23 | Acreage | 160 |
| Ecosite | 070DY151NM LIMESTONE HILLS CP | Photo Taken | Y |
| Watershed | 13060008090 HONDO | | |
| Observers | MILLER, NAVARRO | Observation Date | 01/05/2005 |
| County Soil Survey | NM632 LINCOLN | Soil Var/Taxad | |
| Soil Map Unit | 018 | Soil Taxon Name | ECTOR |
| Texture Class | NM632 CB-L | Soil Phase | ECTOR- ROC |
| Texture Modifier | NM632 VERY COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.98 | NOAA Avg Growing Season Precipitation | 10.78 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | | X |
| Comments: | | | | | | |
| S H | Pedestals and/or Terracettes | | | | X | |
| Comments: | On the Slight side; typical plants showing any pedestals were muhlys. | | | | | |
| S H | Bare Ground | | | | | X |
| Comments: | | | | | | |

| | | | | | | |
|-----------|----------------------------------------------------------------------------------|--|--|--|---|---|
| S H | Gullies | | | | | X |
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | | X |
| Comments: | | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | | X |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | | X |
| Comments: | | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | | X | |
| Comments: | On the slight side, moving toward none to slight | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | | X | |
| Comments: | | | | | | |
| B | Plant Mortality/Decadence | | | | | X |
| Comments: | | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | On slight side, moving toward None to Slight. | | | | | |
| B | Annual Production | | | | X | |
| Comments: | On the Slight side, moving toward None to Slight. | | | | | |
| B | Invasive Plants | | | | | X |
| Comments: | Some scattered cholla, yucca, cactus and widely scattered acacia. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | | X |
| Comments: | Great reproductive materail present here. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | X | |
| Comments: | On the slight side, moving toward None to Slight. | | | | | |
| B | Wildlife Habitat | | | | | X |
| Comments: | | | | | | |

| | | | | | | |
|-----------|------------------------------------|--|--|--|--|---|
| B | Wildlife Populations | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 0 | 2 | 8 |
| H | Hydrologic | 0 | 0 | 0 | 3 | 8 |
| B | Biotic | 0 | 0 | 0 | 3 | 10 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 0 | 10 |
| Hydrologic | | 0 | 0 | 11 |
| Biotic | | 0 | 0 | 13 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-SCHOOLHOUSE-F197

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|------------|
| Legal Land Desc | SWSE 15 0110S 0210E Meridian 23 | Acreage | 804 |
| Ecosite | 070DY152NM SHALLOW CP-4 | Photo Taken | N |
| Watershed | 13060008090 HONDO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/09/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | TfD | Soil Taxon Name | TENCEE |
| Texture Class | NM666 CB-L | Soil Phase | TENCEE |
| Texture Modifier | NM666 COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | | | | | | |
| S H | Pedestals and/or Terracettes | | | | | X |
| Comments: | | | | | | |
| S H | Bare Ground | | | | X | |
| Comments: | | | | | | |
| S H | Gullies | | | | | X |

| | | | | | | |
|-----------|----------------------------------------------------------------------------------------------------------------|--|---|---|---|---|
| Comments: | Some gullies exist in the bottoms of this pasture, minor head cuts exist. | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | Matches what is expected for the site. | | | | | |
| H | Litter Movement | | | | | X |
| Comments: | Litter is evenly distributed and uniform. | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | | X |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | | X |
| Comments: | | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | X | | |
| Comments: | | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | | X | |
| Comments: | All groups are present, with good species diversity. | | | | | |
| B | Plant Mortality/Decadence | | | | X | |
| Comments: | | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | Moving toward moderate.; appropriate for amount of production, which is limited here by precipitation. | | | | | |
| B | Annual Production | | X | | | |
| Comments: | Production in this site is not limited by grazing, or any other factor other than low amount of precipitation. | | | | | |
| B | Invasive Plants | | | X | | |
| Comments: | Invasive plants include some cholla and evenly distributed acacia across the pasture. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | X | |
| Comments: | Reproductive capability is good. Plants should be able to recover from the drought conditions. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | | X |
| Comments: | Matches the site capability. | | | | | |

| | | | | | | |
|-----------|-----------------------------------------|--|--|---|---|---|
| B | Wildlife Habitat | | | | X | |
| Comments: | Forb production is better at this site. | | | | | |
| B | Wildlife Populations | | | X | | |
| Comments: | Mule deer, ground nesting birds. | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 0 | 2 | 8 |
| H | Hydrologic | 0 | 0 | 1 | 3 | 7 |
| B | Biotic | 0 | 1 | 2 | 5 | 5 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 0 | 10 |
| Hydrologic | | 0 | 1 | 10 |
| Biotic | | 1 | 2 | 10 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-SO COLE-F192

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|------------|
| Legal Land Desc | NESW 23 0110S 0210E Meridian 23 | Acreage | 1146 |
| Ecosite | 070DY152NM SHALLOW CP-4 | Photo Taken | N |
| Watershed | 13060008090 HONDO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/09/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | TfD | Soil Taxon Name | TENCEE |
| Texture Class | NM666 CB-L | Soil Phase | TENCEE |
| Texture Modifier | NM666 COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|-------------------------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | Some flow is apparent, but no resulting erosion | | | | | |
| S H | Pedestals and/or Terracettes | | | | | X |
| Comments: | | | | | | |
| S H | Bare Ground | | | | X | |
| Comments: | | | | | | |
| S H | Gullies | | | | X | |

| | | | | | | |
|-----------|----------------------------------------------------------------------------------|--|---|---|---|---|
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | | X |
| Comments: | No apparent displacement | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | | X |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | | X |
| Comments: | | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | | X | |
| Comments: | Infiltration would be better is plant cover was higher. | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | | X | |
| Comments: | Number of species slightly reduced. | | | | | |
| B | Plant Mortality/Decadence | | | | X | |
| Comments: | moving towards slight | | | | | |
| H B | Litter Amount | | | | X | |
| Comments: | within the limits of the site | | | | | |
| B | Annual Production | | X | | | |
| Comments: | Low production due to climatic conditions | | | | | |
| B | Invasive Plants | | | X | | |
| Comments: | Broom snakeweed. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | X | | |
| Comments: | not limited by grazing, but due to climate | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | | X |
| Comments: | within the limits of the site | | | | | |
| B | Wildlife Habitat | | | | X | |
| Comments: | Forage factors & ground cover, farm fields are within approximately one mile | | | | | |
| B | Wildlife Populations | | | | X | |

| | | | | | | |
|-----------|------------------------------------|--|--|--|--|---|
| Comments: | Mule deer and antelope | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 0 | 3 | 7 |
| H | Hydrologic | 0 | 0 | 0 | 5 | 6 |
| B | Biotic | 0 | 1 | 2 | 5 | 5 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 0 | 10 |
| Hydrologic | | 0 | 0 | 11 |
| Biotic | | 1 | 2 | 10 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-VAT-F194

| | | | |
|--------------------------------------|------------------------------------|----------------------------------------------|---------------|
| Legal Land Desc | NESE 25 0110S 0200E Meridian 23 | Acreage | 2602 |
| Ecosite | 070DY158NM VERY SHALLOW CP-4 | Photo Taken | N |
| Watershed | 13060008090 HONDO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/22/2004 |
| County Soil Survey | NM666 CHAVES SOUTH | Soil Var/Taxad | |
| Soil Map Unit | EcC | Soil Taxon Name | ECTOR |
| Texture Class | NM666 CB-L | Soil Phase | ECTOR- ROC |
| Texture Modifier | NM666 COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | Moving towards moderate | | | | | |
| S H | Pedestals and/or Terracettes | | | X | | |
| Comments: | | | | | | |
| S H | Bare Ground | | | X | | |
| Comments: | | | | | | |
| S H | Gullies | | | | | X |

| | | | | | | |
|-----------|----------------------------------------------------------------------------------|--|---|---|---|---|
| Comments: | | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | X | |
| Comments: | | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | X | |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | X | |
| Comments: | Towards Moderate | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | X | | |
| Comments: | | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | | X | |
| Comments: | Plant diversity is here, production is low, due to low precipitation. | | | | | |
| B | Plant Mortality/Decadence | | | | X | |
| Comments: | | | | | | |
| H B | Litter Amount | | | | | X |
| Comments: | Litter is limited by the low production, but is higher than expected. | | | | | |
| B | Annual Production | | X | | | |
| Comments: | Not limited by grazing. | | | | | |
| B | Invasive Plants | | | | X | |
| Comments: | As described in the Range site | | | | | |
| B | Reproductive Capability of Perennial Plants | | | | X | |
| Comments: | Limited by climate. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | X | |
| Comments: | Limited by site structure. | | | | | |
| B | Wildlife Habitat | | | | X | |
| Comments: | Quality & Quantity | | | | | |
| B | Wildlife Populations | | | | X | |

| | | | | | | |
|-----------|-------------------------------------------------|--|--|--|--|---|
| Comments: | Private land influence - farm fields are close. | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 2 | 4 | 4 |
| H | Hydrologic | 0 | 0 | 3 | 4 | 4 |
| B | Biotic | 0 | 1 | 0 | 8 | 4 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 2 | 8 |
| Hydrologic | | 0 | 3 | 8 |
| Biotic | | 1 | 0 | 12 |

Site Notes:

RFOs Upland and Biotic Standard Assessment Summary Worksheet

SITE 64060-WEST BORDER-F200

| | | | |
|--------------------------------------|-----------------------------------|----------------------------------------------|---------------------|
| Legal Land Desc | SESE 1 0110S 0200E Meridian 23 | Acreage | 1079 |
| Ecosite | 070DY158NM VERY SHALLOW CP-4 | Photo Taken | N |
| Watershed | 13060008120 PICACHO | | |
| Observers | FRENCH & MILLER | Observation Date | 03/09/2004 |
| County Soil Survey | NM632 LINCOLN | Soil Var/Taxad | |
| Soil Map Unit | 016 | Soil Taxon Name | ECTOR |
| Texture Class | NM632 CB-L | Soil Phase | ECTOR- KIMBROUGH |
| Texture Modifier | NM632 VERY COBBLY LOAM | | |
| Observed Avg Annual Precipitation | | Observed Avg Growing Season Precipitation | |
| NOAA Annual Precipitation | 7.92 | NOAA Growing Season Precipitation | 4.91 |
| NOAA Avg Annual Precipitation | 12.84 | NOAA Avg Growing Season Precipitation | 10.65 |
| Disturbances and Animal Use: | | | |

Part 2. Attributes and Indicators

| Attribute | Indicators | Departure from Ecological Site Description/Ecological Reference Areas | | | | |
|-----------|--------------------------------------|--------------------------------------------------------------------------|---------------------------|----------|-----------------------|----------------------|
| | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
| S H | Rills | | | | | X |
| Comments: | | | | | | |
| S H | Water Flow Patterns | | | | X | |
| Comments: | Stable and short. | | | | | |
| S H | Pedestals and/or Terracettes | | | | X | |
| Comments: | | | | | | |
| S H | Bare Ground | | | X | | |
| Comments: | Upper end of range site expectations | | | | | |

| | | | | | | |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|--|--|---|---|---|
| S H | Gullies | | | X | | |
| Comments: | gullies here are due to past pit development and are healing. | | | | | |
| S | Wind-scoured, Blowouts, and/or Deposition Areas | | | | | X |
| Comments: | | | | | | |
| H | Litter Movement | | | | | X |
| Comments: | Matches site description - is uniform | | | | | |
| S H B | Soil Surface Resistance to Erosion | | | | | X |
| Comments: | | | | | | |
| S H B | Soil Surface Loss or Degradation | | | | | X |
| Comments: | More plant cover would protect the exposed soils | | | | | |
| H | Plant Community Composition and Distribution Relative to Infiltration and Runoff | | | | X | |
| Comments: | More infiltration would occur with more plants. | | | | | |
| S H B | Compaction Layer | | | | | X |
| Comments: | | | | | | |
| B | Functional/Structural Groups | | | | X | |
| Comments: | Grass species are here, but low in production. Shrub component is diverse. | | | | | |
| B | Plant Mortality/Decadence | | | X | | |
| Comments: | Plants appear to be decadent, not dying. | | | | | |
| H B | Litter Amount | | | | | X |
| Comments: | Litter is low due to low production, but is much higher than expected | | | | | |
| B | Annual Production | | | | X | |
| Comments: | Low production on all plants due to drought. | | | | | |
| B | Invasive Plants | | | | | X |
| Comments: | Very few cholla or yucca at this site. | | | | | |
| B | Reproductive Capability of Perennial Plants | | | X | | |
| Comments: | Reproduction is low, tied to low precipitation & climatic factors. Utilization is evident, but not intense or high or excessive. | | | | | |
| S | Physical/Chemical/Biological Crusts | | | | | X |
| Comments: | | | | | | |
| B | Wildlife Habitat | | | | X | |

| | | | | | | |
|-----------|--------------------------------------------------------|--|--|---|--|---|
| Comments: | Due to weather, diverse | | | | | |
| B | Wildlife Populations | | | X | | |
| Comments: | Mule deer and or other species requiring ground cover. | | | | | |
| B | Special Status Species Habitat | | | | | X |
| Comments: | | | | | | |
| B | Special Status Species Populations | | | | | X |
| Comments: | | | | | | |
| | | | | | | |

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

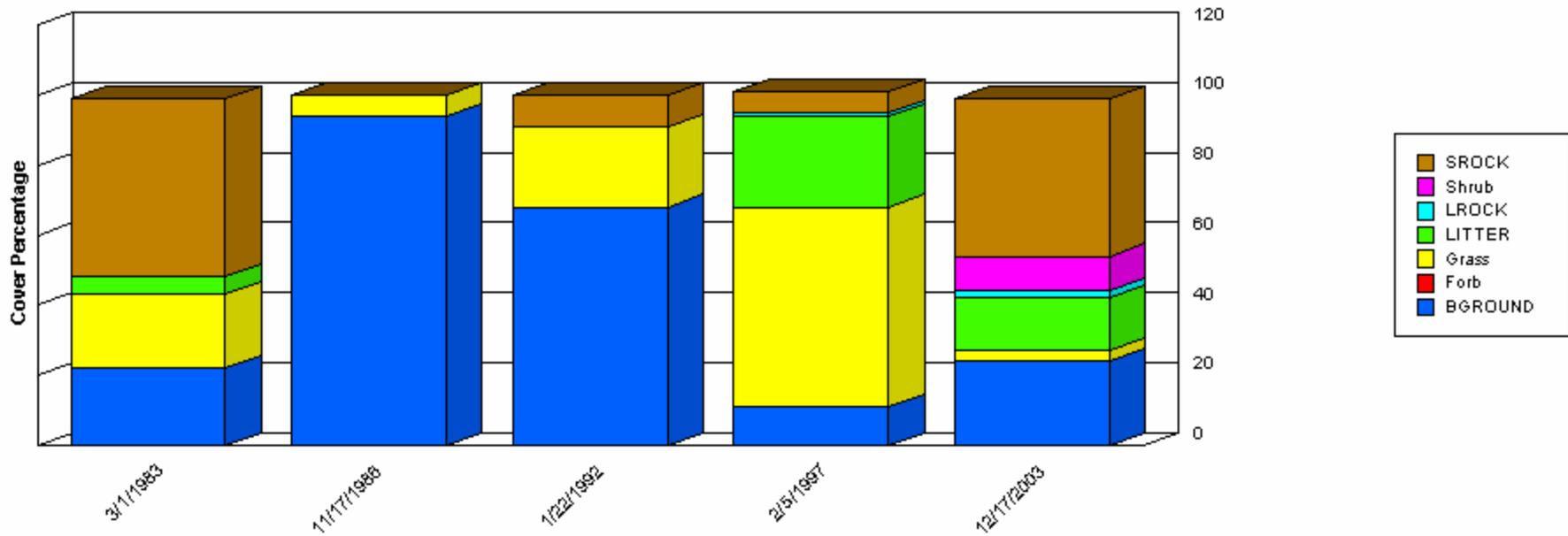
| Standard Attribute | | Extreme | Moderate to Extreme | Moderate | Slight to Moderate | None to Slight |
|--------------------|------------|---------|---------------------|----------|--------------------|----------------|
| S | Soil | 0 | 0 | 2 | 2 | 6 |
| H | Hydrologic | 0 | 0 | 2 | 3 | 6 |
| B | Biotic | 0 | 0 | 3 | 3 | 7 |
| | | | | | | |

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

| Attribute | Rationale | Does Not Meet | May Need More Info | Meets |
|------------|-----------|---------------|--------------------|-------|
| Soil | | 0 | 2 | 8 |
| Hydrologic | | 0 | 2 | 9 |
| Biotic | | 0 | 3 | 10 |

Site Notes:

Ground Cover Trends



| | 3/1/1983 | 11/17/1986 | 1/22/1992 | 2/5/1997 | 12/17/2003 |
|---------|----------|------------|-----------|----------|------------|
| BGROUND | 22.00 | 94.00 | 68.00 | 11.00 | 24.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 21.00 | 6.00 | 23.00 | 57.00 | 3.00 |
| LITTER | 5.00 | 0.00 | 0.00 | 26.00 | 15.00 |
| LROCK | 0.00 | 0.00 | 0.00 | 1.00 | 2.00 |
| Shrub | 0.00 | 0.00 | 0.00 | 0.00 | 10.00 |
| SROCK | 51.00 | 0.00 | 9.00 | 6.00 | 45.00 |

| | | | | | |
|-------|----------|------------|-----------|----------|------------|
| | 3/1/1983 | 11/17/1986 | 1/22/1992 | 2/5/1997 | 12/17/2003 |
| Total | 99.00 | 100.00 | 100.00 | 101.00 | 99.00 |

Report Parameters

SITE NAME LIKE 64060-3Z-F196
ON/AFTER 10/01/1982
ON/BEFORE 09/30/2004

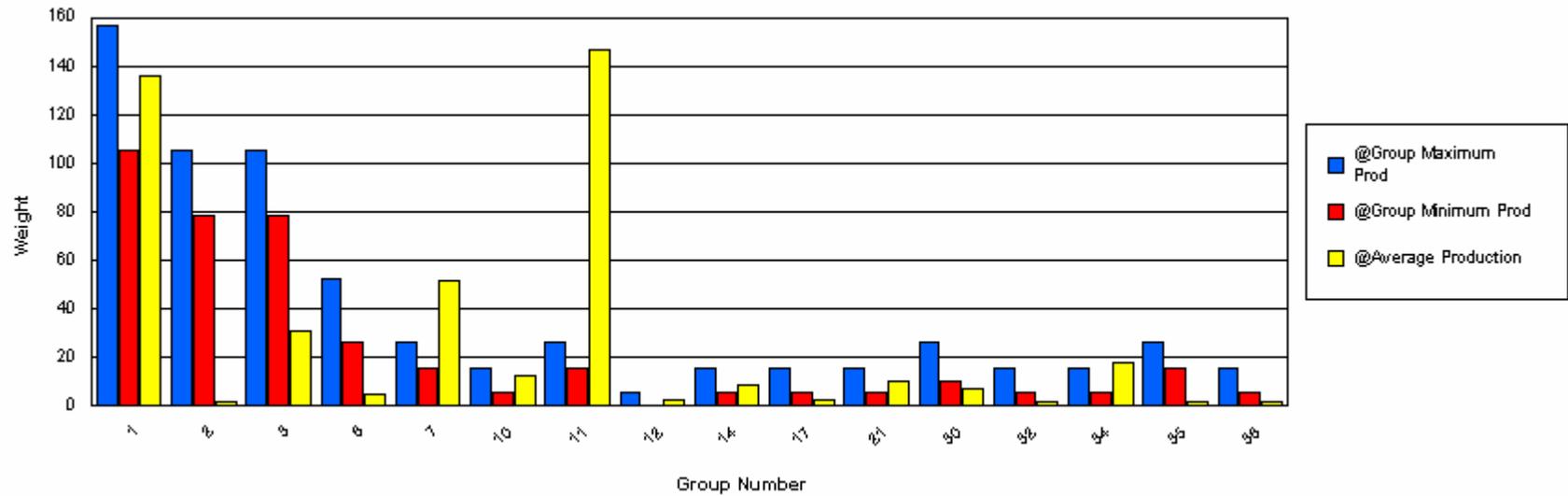
Functional / Structural Groups

Report Parameters

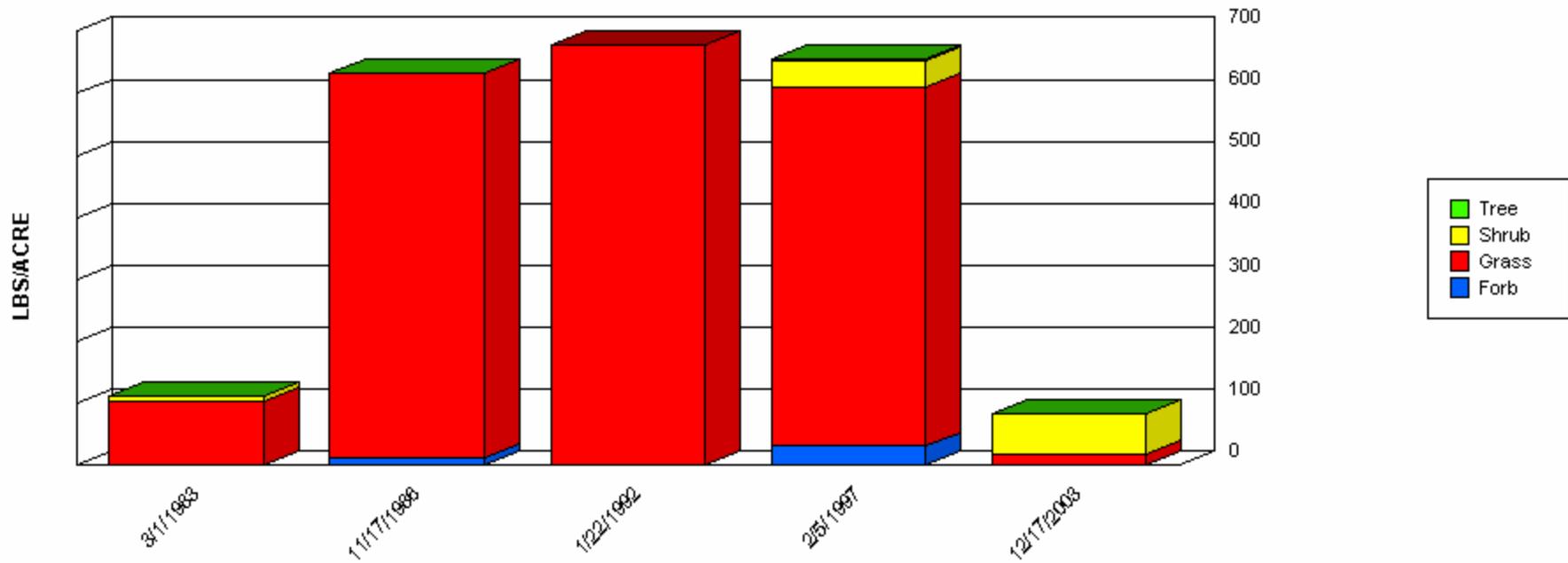
SITE NAME LIKE 64060-3Z-F196
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 042CY025NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|--------|
| 1 | Grass | BOER4 | 105 | 157 | 12.00 | 303.00 | 136.23 | 131.79 |
| 2 | Grass | BOCU | 78 | 105 | 0.00 | 6.00 | 1.50 | 2.60 |
| 3 | Grass | BOGR2 | 78 | 105 | 0.62 | 67.00 | 30.52 | 26.84 |
| 3 | Grass | BOHI2 | 78 | 105 | 0.00 | 1.00 | 0.25 | 0.43 |
| 6 | Grass | SPCR | 26 | 52 | 0.00 | 11.00 | 4.25 | 4.09 |
| 7 | Grass | TRMU | 15 | 26 | 0.00 | 63.00 | 25.25 | 26.75 |
| 7 | Grass | TRPI2 | 15 | 26 | 0.00 | 69.00 | 26.50 | 25.73 |
| 10 | Grass | ERPU8 | 5 | 15 | 0.00 | 26.00 | 12.60 | 11.16 |
| 11 | Grass | ARIST | 15 | 26 | 0.00 | 44.00 | 21.20 | 16.04 |
| 11 | Grass | HIMU2 | 15 | 26 | 0.00 | 80.00 | 19.00 | 30.57 |
| 11 | Grass | MUAR2 | 15 | 26 | 0.00 | 286.00 | 91.60 | 102.32 |
| 11 | Grass | PAOB | 15 | 26 | 0.00 | 15.00 | 3.60 | 5.82 |
| 11 | Grass | SCBR2 | 15 | 26 | 0.59 | 39.00 | 10.90 | 16.25 |
| 11 | Grass | SEMA5 | 15 | 26 | 0.00 | 3.00 | 0.75 | 1.30 |
| 12 | Grass | AAGG | 0 | 5 | 0.00 | 9.00 | 2.25 | 3.90 |
| 14 | Grass | ENDE | 5 | 15 | 0.00 | 35.00 | 8.75 | 15.16 |
| 17 | Forb | SPHAE | 5 | 15 | 1.00 | 3.00 | 2.00 | 1.00 |
| 20 | Forb | CROTO | 10 | 26 | 0.00 | 2.00 | 0.62 | 0.82 |
| 21 | Forb | AAFF | 5 | 15 | 0.00 | 29.00 | 9.75 | 11.65 |
| 22 | Forb | ERTE13 | 5 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | Forb | OENOT | 5 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | Forb | SOEL | 5 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | Shrub | PRGL2 | 10 | 26 | 0.00 | 25.00 | 7.00 | 10.46 |
| 32 | Shrub | OPIM | 5 | 15 | 0.00 | 7.00 | 1.75 | 3.03 |
| 34 | Shrub | GUSA2 | 5 | 15 | 0.00 | 63.84 | 17.71 | 26.73 |
| 35 | Shrub | EPHED | 15 | 26 | 0.00 | 2.00 | 0.50 | 0.87 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 35 | Tree | YUEL | 15 | 26 | 0.00 | 3.00 | 0.75 | 1.30 |
| 36 | Shrub | ACACI | 5 | 15 | 0.00 | 7.00 | 1.75 | 3.03 |



Production Lbs/Acre Trends

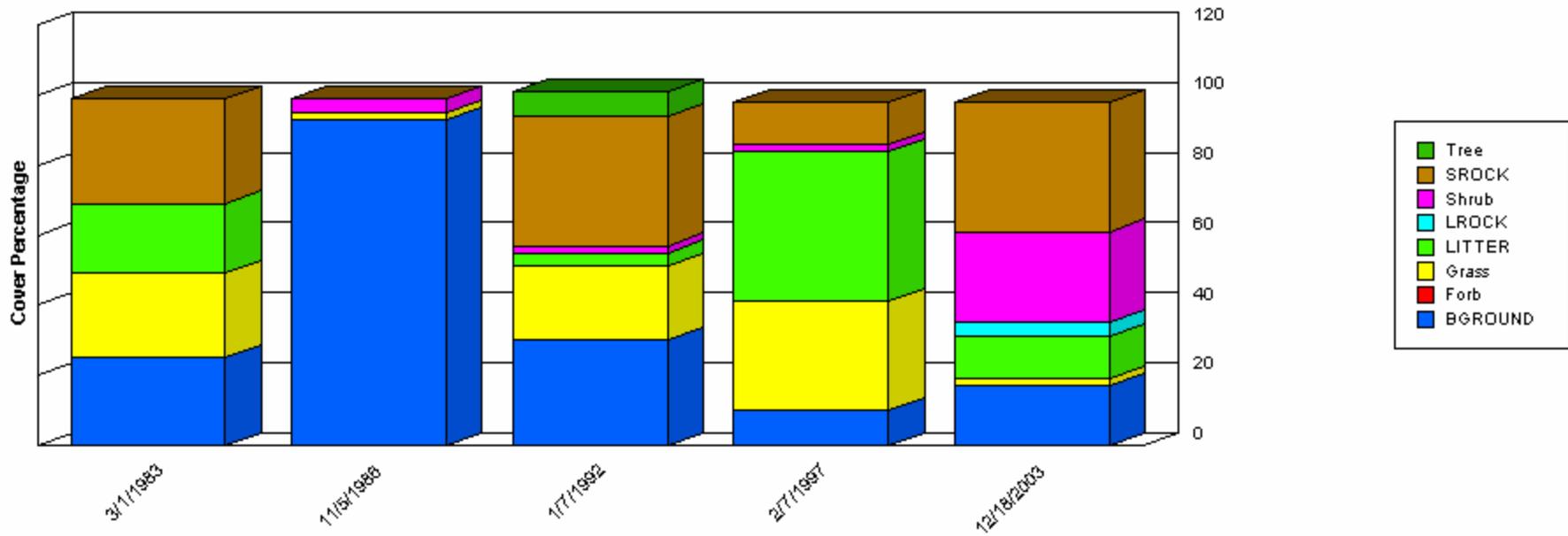


| | 3/1/1983 | 11/17/1986 | 1/22/1992 | 2/5/1997 | 12/17/2003 |
|-------|----------|------------|-----------|----------|------------|
| Forb | 2.00 | 12.00 | 0.00 | 31.00 | 1.12 |
| Grass | 101.00 | 620.00 | 678.00 | 580.00 | 17.81 |
| Shrub | 9.00 | 0.00 | 0.00 | 42.00 | 64.19 |
| Tree | 0.00 | 0.00 | 0.00 | 3.00 | 0.00 |
| Total | 112.00 | 632.00 | 678.00 | 656.00 | 83.12 |

Report Parameters

SITE NAME LIKE 64060-3Z-F196
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/1/1983 | 11/5/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|---------|----------|-----------|----------|----------|------------|
| BGROUND | 25.00 | 93.00 | 30.00 | 10.00 | 17.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 24.00 | 2.00 | 21.00 | 31.00 | 2.00 |
| LITTER | 20.00 | 0.00 | 4.00 | 43.00 | 12.00 |
| LROCK | 0.00 | 0.00 | 0.00 | 0.00 | 4.00 |
| Shrub | 0.00 | 4.00 | 2.00 | 2.00 | 26.00 |
| SROCK | 30.00 | 0.00 | 37.00 | 12.00 | 37.00 |

| | 3/1/1983 | 11/5/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|-----------|----------|----------|------------|
| Tree | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 |
| Total | 99.00 | 99.00 | 101.00 | 98.00 | 98.00 |

Report Parameters

SITE NAME LIKE 64060-DIAMOND A-F198
ON/AFTER 10/01/1982
ON/BEFORE 09/30/2004

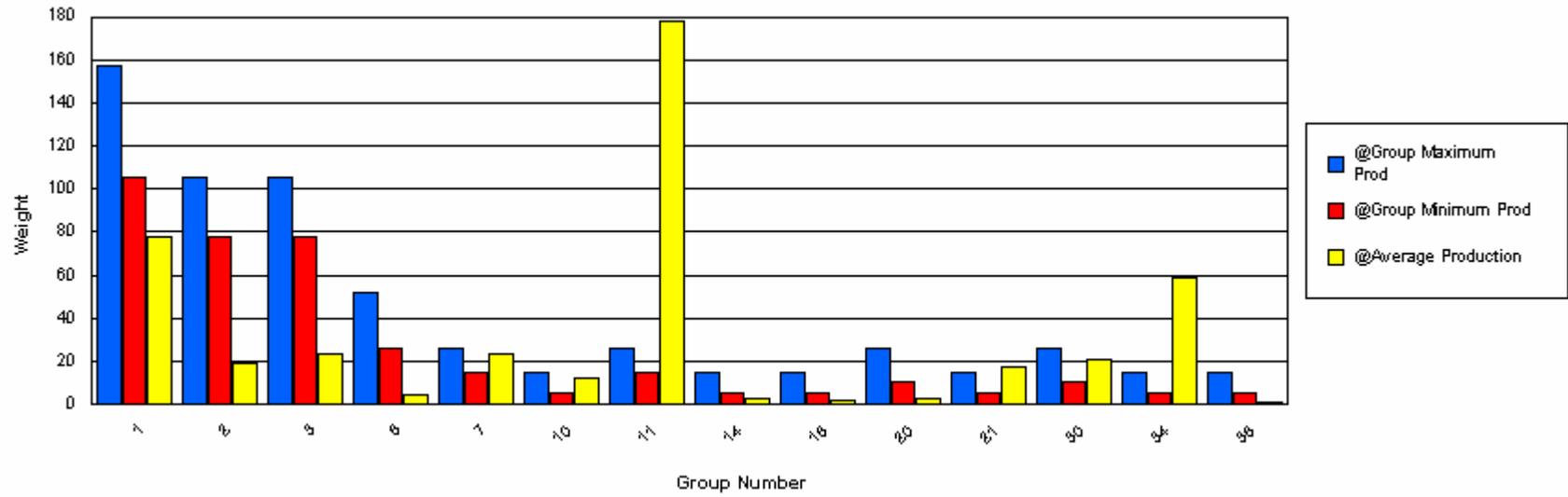
Functional / Structural Groups

Report Parameters

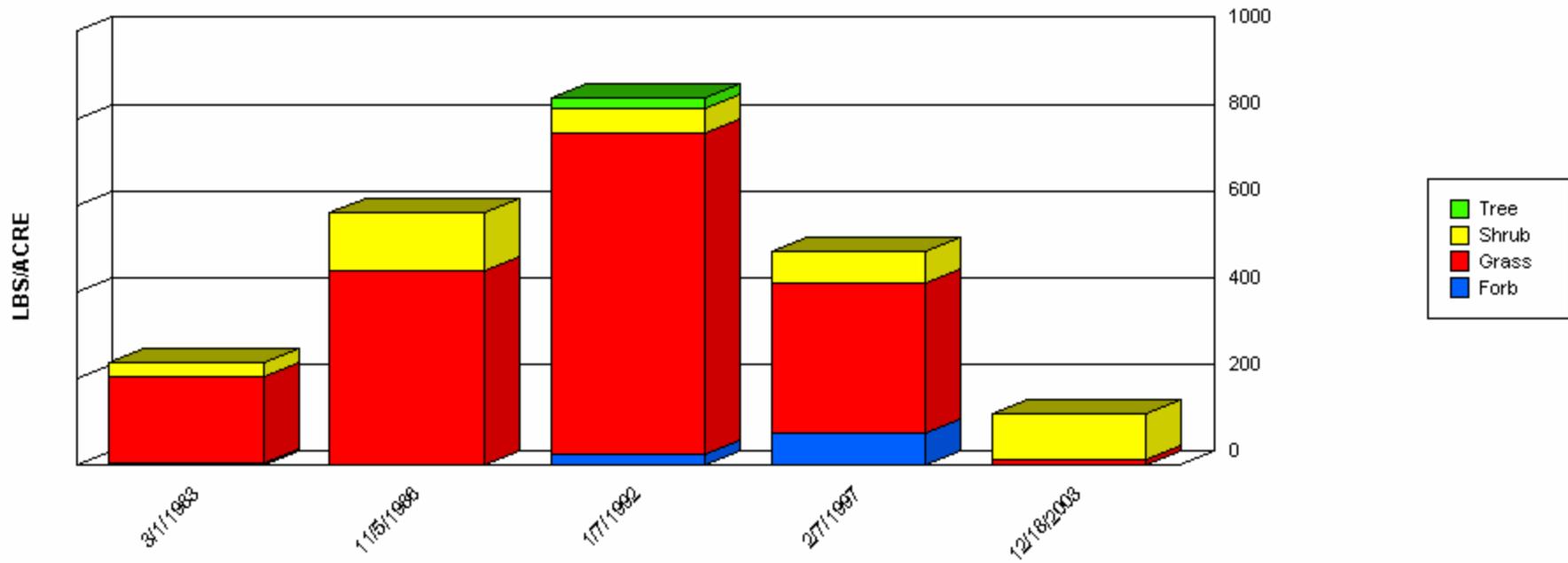
SITE NAME LIKE 64060-DIAMOND A-F198
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 042CY025NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 1 | Grass | BOER4 | 105 | 157 | 10.77 | 190.00 | 77.95 | 65.30 |
| 2 | Grass | BOCU | 78 | 105 | 0.00 | 68.00 | 19.33 | 26.61 |
| 3 | Grass | BOGR2 | 78 | 105 | 0.00 | 16.00 | 7.80 | 5.81 |
| 3 | Grass | BOHI2 | 78 | 105 | 0.00 | 44.00 | 15.33 | 20.29 |
| 6 | Grass | SPCR | 26 | 52 | 0.00 | 10.00 | 4.50 | 3.64 |
| 7 | Grass | TRMU | 15 | 26 | 0.00 | 35.00 | 13.00 | 13.29 |
| 7 | Grass | TRPI2 | 15 | 26 | 0.00 | 23.00 | 10.25 | 8.23 |
| 10 | Grass | ERPU8 | 5 | 15 | 0.00 | 32.00 | 12.00 | 11.58 |
| 11 | Grass | ARIST | 15 | 26 | 0.00 | 158.00 | 65.00 | 56.56 |
| 11 | Grass | HIMU2 | 15 | 26 | 0.00 | 40.00 | 19.50 | 19.51 |
| 11 | Grass | MUAR2 | 15 | 26 | 0.00 | 209.00 | 90.60 | 76.44 |
| 11 | Grass | SCBR2 | 15 | 26 | 0.59 | 8.00 | 2.65 | 3.09 |
| 14 | Grass | LYPH | 5 | 15 | 0.00 | 4.00 | 1.75 | 1.79 |
| 14 | Grass | PAHA | 5 | 15 | 0.00 | 2.00 | 0.75 | 0.83 |
| 16 | Forb | SENEC | 5 | 15 | 0.00 | 4.00 | 2.00 | 2.00 |
| 18 | Forb | LESQU | 5 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | Forb | CASSI | 5 | 15 | 0.00 | 3.00 | 0.75 | 1.30 |
| 20 | Forb | CROTO | 10 | 26 | 0.00 | 6.00 | 2.29 | 2.32 |
| 21 | Forb | AAFF | 5 | 15 | 0.00 | 66.00 | 17.20 | 25.32 |
| 22 | Forb | SOEL | 5 | 15 | 0.00 | 1.00 | 0.25 | 0.43 |
| 23 | Forb | CIRSI | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | Shrub | PRGL2 | 10 | 26 | 0.00 | 62.00 | 21.04 | 22.65 |
| 32 | Shrub | OPIM | 5 | 15 | 0.00 | 3.00 | 0.75 | 1.30 |
| 34 | Shrub | GUSA2 | 5 | 15 | 9.00 | 107.00 | 58.66 | 38.79 |
| 36 | Shrub | ACCO2 | 5 | 15 | 0.00 | 2.00 | 1.00 | 1.00 |

Group Plant Type Species Low Wt Allowed High Wt Allowed Minimum Maximum Average STDEV



Production Lbs/Acre Trends

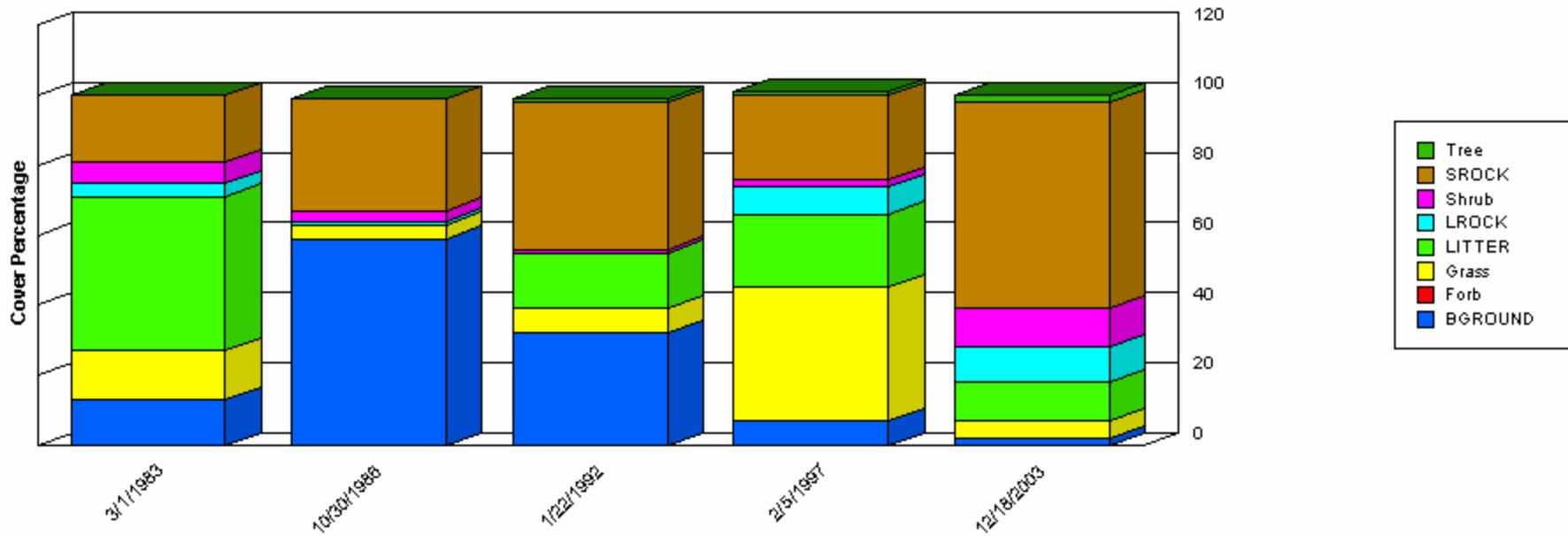


| | 3/1/1983 | 11/5/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|-----------|----------|----------|------------|
| Forb | 4.00 | 3.00 | 26.00 | 76.00 | 0.47 |
| Grass | 200.00 | 445.00 | 739.00 | 343.00 | 14.42 |
| Shrub | 35.00 | 134.00 | 59.00 | 74.00 | 103.02 |
| Tree | 0.00 | 0.00 | 24.00 | 0.00 | 0.00 |
| Total | 239.00 | 582.00 | 848.00 | 493.00 | 117.91 |

Report Parameters

SITE NAME LIKE 64060-DIAMOND A-F198
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/5/1997 | 12/18/2003 |
|---------|----------|------------|-----------|----------|------------|
| BGROUND | 13.00 | 59.00 | 32.00 | 7.00 | 2.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 14.00 | 4.00 | 7.00 | 38.00 | 5.00 |
| LITTER | 44.00 | 0.00 | 16.00 | 21.00 | 11.00 |
| LROCK | 4.00 | 1.00 | 0.00 | 8.00 | 10.00 |
| Shrub | 6.00 | 3.00 | 1.00 | 2.00 | 11.00 |
| SROCK | 19.00 | 32.00 | 42.00 | 24.00 | 59.00 |

| | | | | | |
|-------|----------|------------|-----------|----------|------------|
| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/5/1997 | 12/18/2003 |
| Tree | 0.00 | 0.00 | 1.00 | 1.00 | 2.00 |
| Total | 100.00 | 99.00 | 99.00 | 101.00 | 100.00 |

Report Parameters

SITE NAME LIKE 64060-EAST BAR H-F201
ON/AFTER 10/01/1982
ON/BEFORE 09/30/2004

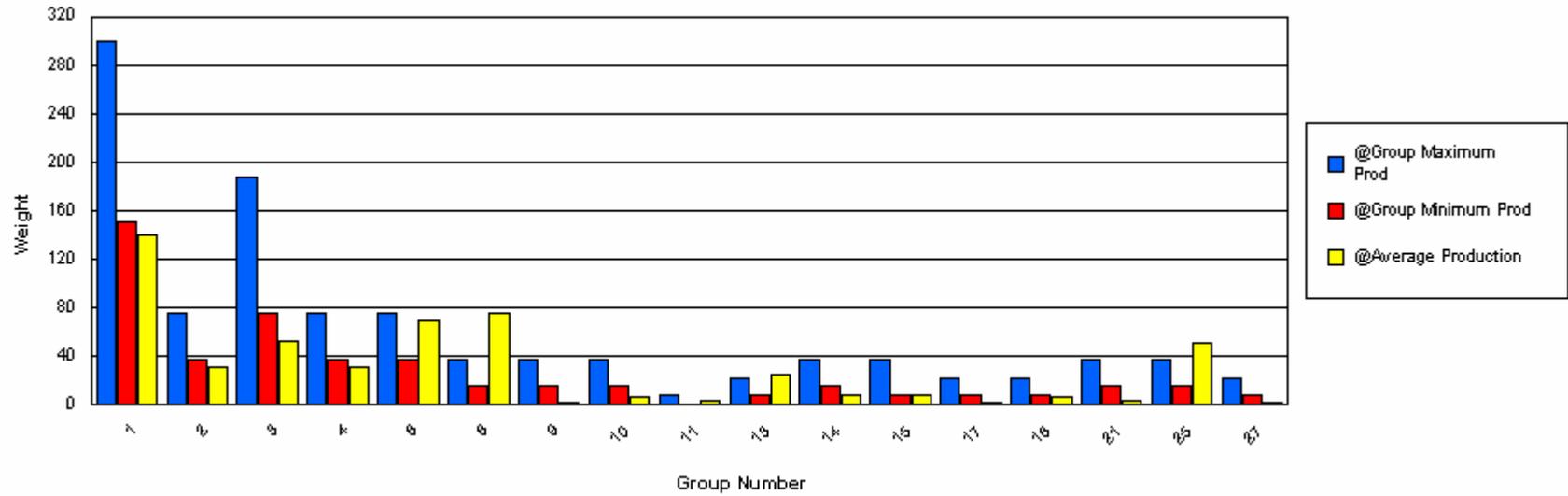
Functional / Structural Groups

Report Parameters

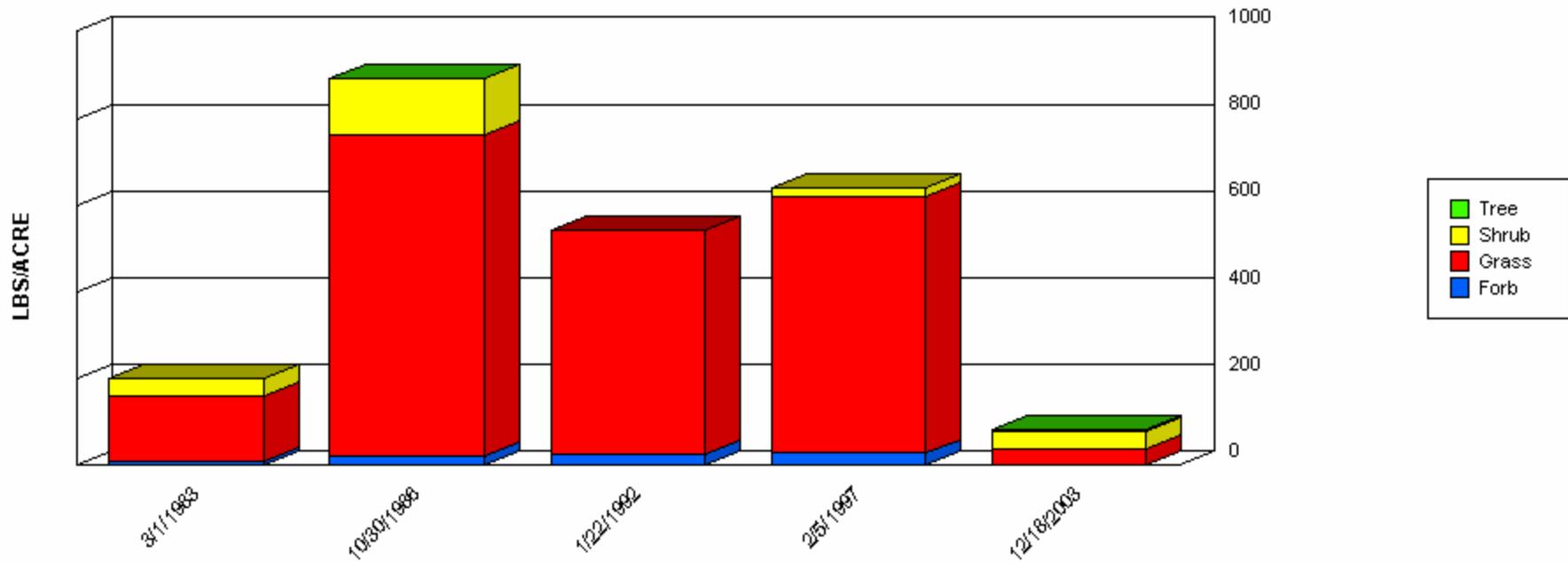
SITE NAME LIKE 64060-EAST BAR H-F201
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070DY158NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|--------|
| 1 | Grass | BOER4 | 150 | 300 | 18.70 | 291.00 | 140.14 | 114.58 |
| 2 | Grass | BOCU | 37 | 75 | 2.22 | 62.00 | 30.81 | 26.07 |
| 3 | Grass | TRMU | 75 | 187 | 1.21 | 90.00 | 33.55 | 33.78 |
| 3 | Grass | TRPI2 | 75 | 187 | 0.00 | 41.00 | 18.50 | 14.64 |
| 4 | Grass | BOGR2 | 37 | 75 | 0.31 | 40.00 | 23.06 | 17.56 |
| 4 | Grass | SPCR | 37 | 75 | 0.00 | 27.00 | 8.25 | 10.99 |
| 6 | Grass | ARDI5 | 37 | 75 | 0.00 | 28.00 | 14.00 | 14.00 |
| 6 | Grass | ARIST | 37 | 75 | 0.00 | 141.00 | 54.80 | 53.52 |
| 7 | Grass | MUSE | 75 | 112 | 0.00 | 3.00 | 0.75 | 1.30 |
| 8 | Grass | LYPH | 15 | 37 | 0.00 | 188.00 | 75.00 | 74.43 |
| 9 | Grass | PAHA | 15 | 37 | 0.00 | 5.00 | 2.00 | 1.67 |
| 10 | Grass | BOHI2 | 15 | 37 | 0.00 | 13.00 | 4.00 | 5.34 |
| 10 | Grass | MURE | 15 | 37 | 0.00 | 1.00 | 0.50 | 0.50 |
| 10 | Grass | SIHY | 15 | 37 | 1.00 | 2.00 | 1.50 | 0.50 |
| 11 | Grass | AAGG | 0 | 7 | 0.00 | 7.00 | 1.80 | 2.71 |
| 11 | Grass | MUSQ | 0 | 7 | 0.00 | 6.00 | 1.50 | 2.60 |
| 13 | Grass | ENDE | 7 | 22 | 0.00 | 7.00 | 1.75 | 3.03 |
| 13 | Grass | MUAR2 | 7 | 22 | 0.00 | 62.00 | 22.40 | 21.53 |
| 14 | Forb | CROTO | 15 | 37 | 0.00 | 20.00 | 8.39 | 7.41 |
| 15 | Forb | SELO | 7 | 37 | 5.00 | 11.00 | 8.00 | 3.00 |
| 17 | Forb | DYPE2 | 7 | 22 | 0.00 | 2.00 | 1.00 | 1.00 |
| 18 | Forb | AAFF | 7 | 22 | 0.19 | 16.00 | 5.44 | 5.78 |
| 19 | Forb | LEER | 7 | 22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | Shrub | MIBI3 | 15 | 37 | 0.00 | 11.00 | 3.78 | 5.11 |
| 24 | Shrub | OPLE | 7 | 15 | 0.00 | 1.00 | 0.50 | 0.50 |
| 24 | Shrub | OPUNT | 7 | 15 | 0.00 | 1.00 | 0.25 | 0.43 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 25 | Shrub | GUSA2 | 15 | 37 | 15.00 | 128.00 | 50.89 | 45.06 |
| 27 | Tree | ACGR | 7 | 22 | 1.00 | 2.00 | 1.50 | 0.50 |
| 27 | Shrub | ALWR | 7 | 22 | 0.00 | 2.00 | 0.50 | 0.87 |



Production Lbs/Acre Trends

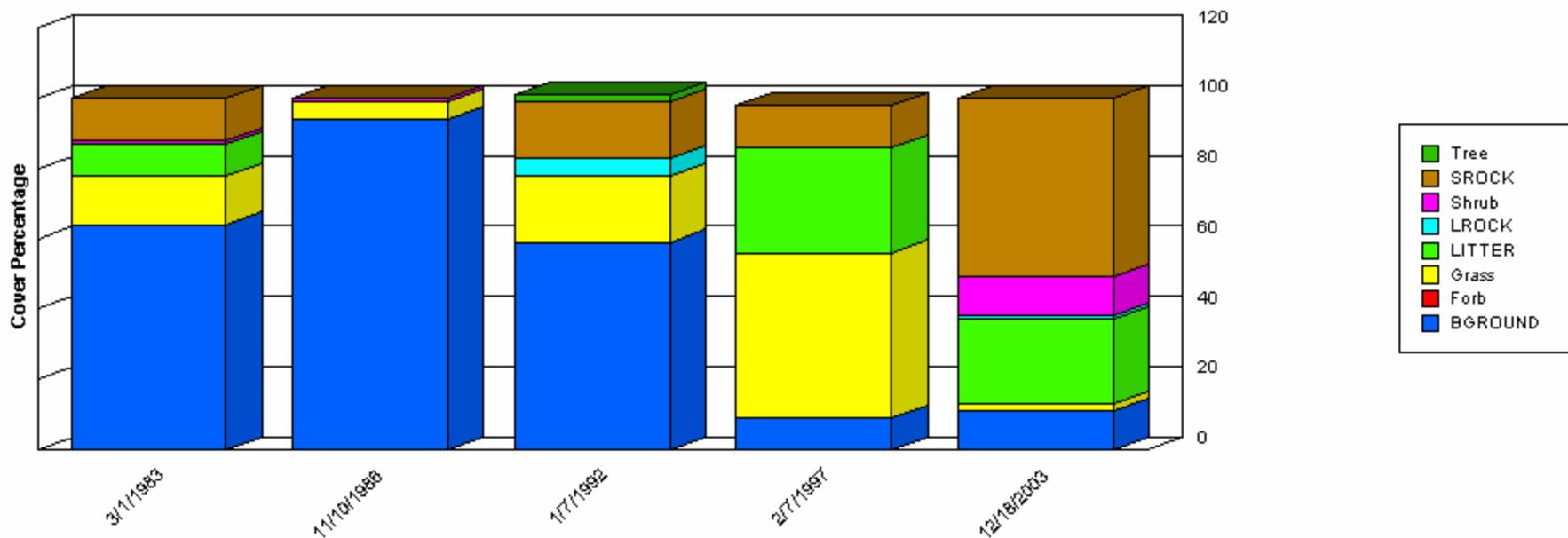


| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/5/1997 | 12/18/2003 |
|-------|----------|------------|-----------|----------|------------|
| Forb | 8.00 | 23.00 | 27.00 | 28.00 | 1.61 |
| Grass | 153.00 | 737.00 | 514.00 | 592.00 | 35.81 |
| Shrub | 38.00 | 132.00 | 0.00 | 18.00 | 43.30 |
| Tree | 0.00 | 1.00 | 0.00 | 0.00 | 2.00 |
| Total | 199.00 | 893.00 | 541.00 | 638.00 | 82.72 |

Report Parameters

SITE NAME LIKE 64060-EAST BAR H-F201
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/1/1983 | 11/10/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|---------|----------|------------|----------|----------|------------|
| BGROUND | 64.00 | 94.00 | 59.00 | 9.00 | 11.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 14.00 | 5.00 | 19.00 | 47.00 | 2.00 |
| LITTER | 9.00 | 0.00 | 0.00 | 30.00 | 24.00 |
| LROCK | 0.00 | 0.00 | 5.00 | 0.00 | 1.00 |
| Shrub | 1.00 | 1.00 | 0.00 | 0.00 | 11.00 |
| SROCK | 12.00 | 0.00 | 16.00 | 12.00 | 51.00 |
| Tree | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | 3/1/1983 | 11/10/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|------------|----------|----------|------------|
| Tree | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 |
| Total | 100.00 | 100.00 | 101.00 | 98.00 | 100.00 |

Report Parameters

SITE NAME LIKE 64060-EAST BORDER-F191
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

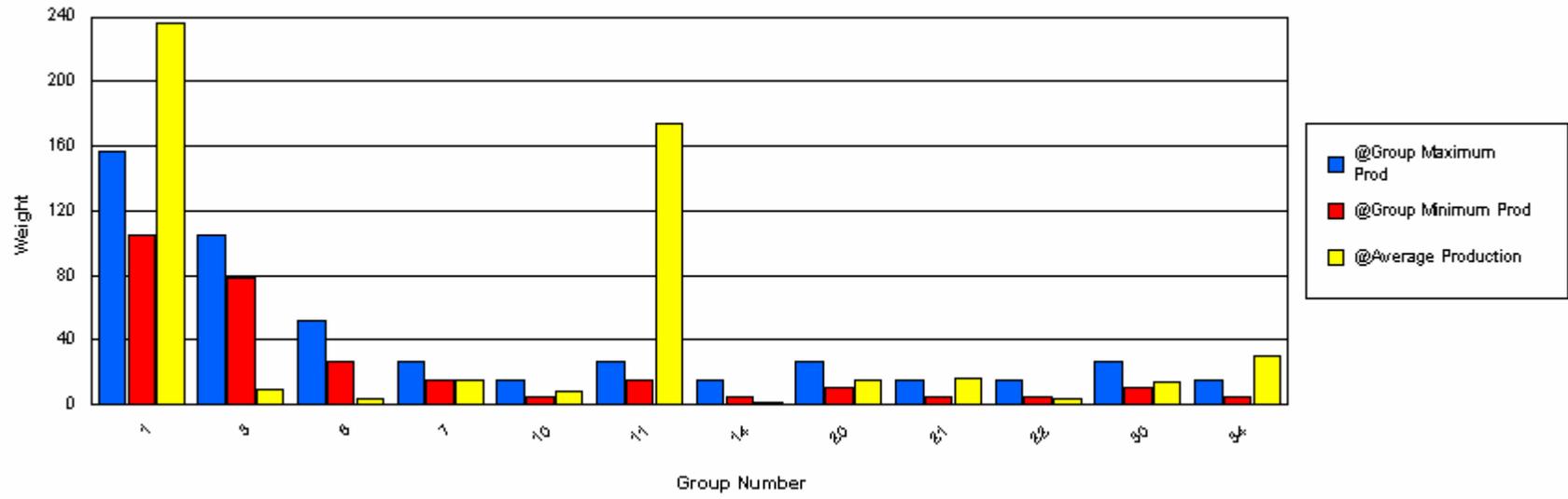
Functional / Structural Groups

Report Parameters

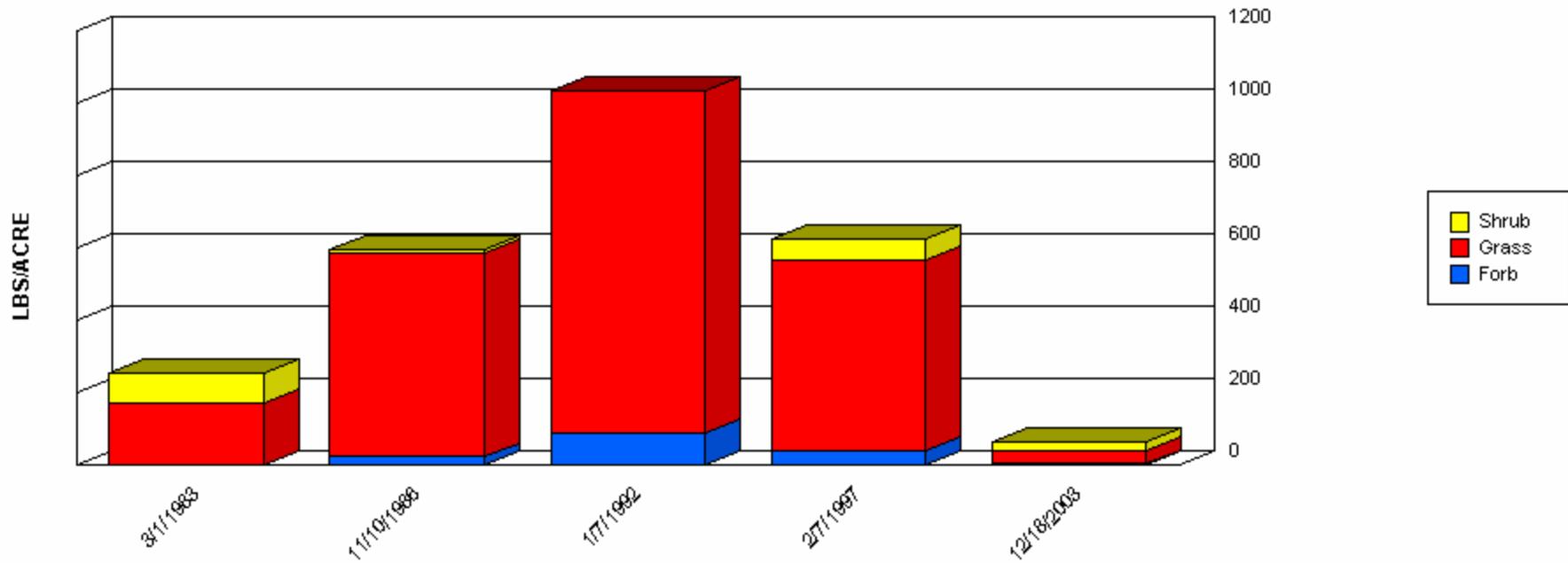
SITE NAME LIKE 64060-EAST BORDER-F191
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 042CY025NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|--------|
| 1 | Grass | BOER4 | 105 | 157 | 9.63 | 716.00 | 236.73 | 259.83 |
| 3 | Grass | BOGR2 | 78 | 105 | 0.00 | 25.00 | 9.00 | 8.63 |
| 3 | Grass | BOHI2 | 78 | 105 | 0.00 | 1.00 | 0.25 | 0.43 |
| 6 | Grass | SPCR | 26 | 52 | 0.00 | 10.00 | 3.75 | 3.77 |
| 7 | Grass | TRMU | 15 | 26 | 0.00 | 17.00 | 6.75 | 7.19 |
| 7 | Grass | TRPI2 | 15 | 26 | 0.00 | 25.00 | 8.75 | 9.60 |
| 10 | Grass | ERPU8 | 5 | 15 | 0.00 | 20.00 | 7.80 | 6.88 |
| 11 | Grass | ARIST | 15 | 26 | 0.00 | 27.00 | 16.40 | 9.31 |
| 11 | Grass | HIMU2 | 15 | 26 | 2.00 | 58.00 | 20.93 | 22.31 |
| 11 | Grass | MUAR2 | 15 | 26 | 0.00 | 411.00 | 128.80 | 150.97 |
| 11 | Grass | SCBR2 | 15 | 26 | 2.00 | 16.00 | 7.49 | 5.60 |
| 12 | Grass | AAGG | 0 | 5 | 0.00 | 2.00 | 0.50 | 0.87 |
| 14 | Grass | ENDE | 5 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | Grass | PAHA | 5 | 15 | 0.00 | 4.00 | 1.25 | 1.64 |
| 17 | Forb | SPHAE | 5 | 15 | 0.00 | 1.00 | 0.50 | 0.50 |
| 18 | Forb | LESQU | 5 | 15 | 0.00 | 1.00 | 0.40 | 0.49 |
| 20 | Forb | CROTO | 10 | 26 | 0.00 | 52.00 | 15.35 | 18.79 |
| 21 | Forb | AAFF | 5 | 15 | 0.00 | 37.00 | 16.20 | 15.18 |
| 22 | Forb | ASTRA | 5 | 15 | 0.00 | 3.00 | 1.50 | 1.50 |
| 22 | Forb | ERTE13 | 5 | 15 | 1.00 | 2.00 | 1.50 | 0.50 |
| 30 | Shrub | PRGL2 | 10 | 26 | 0.00 | 46.00 | 14.15 | 18.81 |
| 32 | Shrub | OPUNT | 5 | 15 | 0.00 | 1.00 | 0.25 | 0.43 |
| 34 | Shrub | GUSA2 | 5 | 15 | 0.00 | 85.00 | 29.63 | 33.04 |

Group Plant Type Species Low Wt Allowed High Wt Allowed Minimum Maximum Average STDEV



Production Lbs/Acre Trends

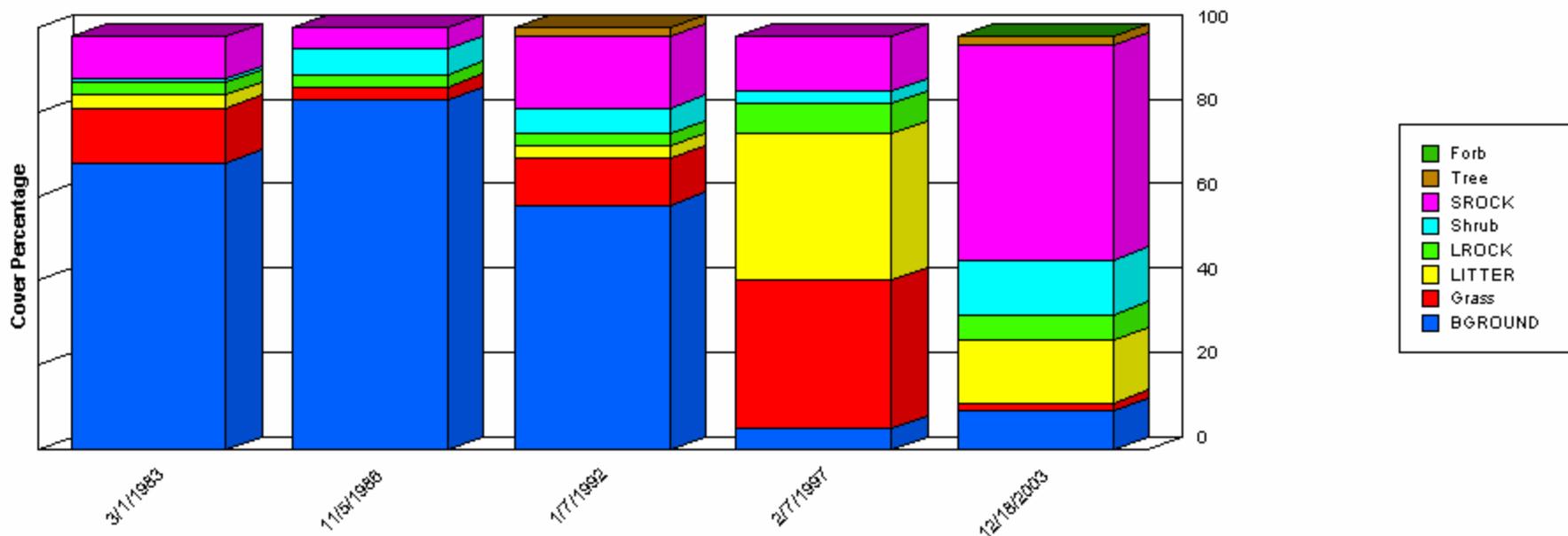


| | 3/1/1983 | 11/10/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|------------|----------|----------|------------|
| Forb | 4.00 | 24.00 | 92.00 | 43.00 | 4.39 |
| Grass | 168.00 | 562.00 | 944.00 | 525.00 | 35.55 |
| Shrub | 85.00 | 10.00 | 0.00 | 57.00 | 24.79 |
| Total | 257.00 | 596.00 | 1,036.00 | 625.00 | 64.73 |

Report Parameters

SITE NAME LIKE 64060-EAST BORDER-F191
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/1/1983 | 11/5/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|---------|----------|-----------|----------|----------|------------|
| BGROUND | 68.00 | 83.00 | 58.00 | 5.00 | 9.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 13.00 | 3.00 | 11.00 | 35.00 | 2.00 |
| LITTER | 3.00 | 0.00 | 3.00 | 35.00 | 15.00 |
| LROCK | 3.00 | 3.00 | 3.00 | 7.00 | 6.00 |
| Shrub | 1.00 | 6.00 | 6.00 | 3.00 | 13.00 |
| SROCK | 10.00 | 5.00 | 17.00 | 13.00 | 51.00 |
| Tree | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | 3/1/1983 | 11/5/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|-----------|----------|----------|------------|
| Tree | 0.00 | 0.00 | 2.00 | 0.00 | 2.00 |
| Total | 98.00 | 100.00 | 100.00 | 98.00 | 98.00 |

Report Parameters

SITE NAME LIKE 64060-HONDO-F199
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

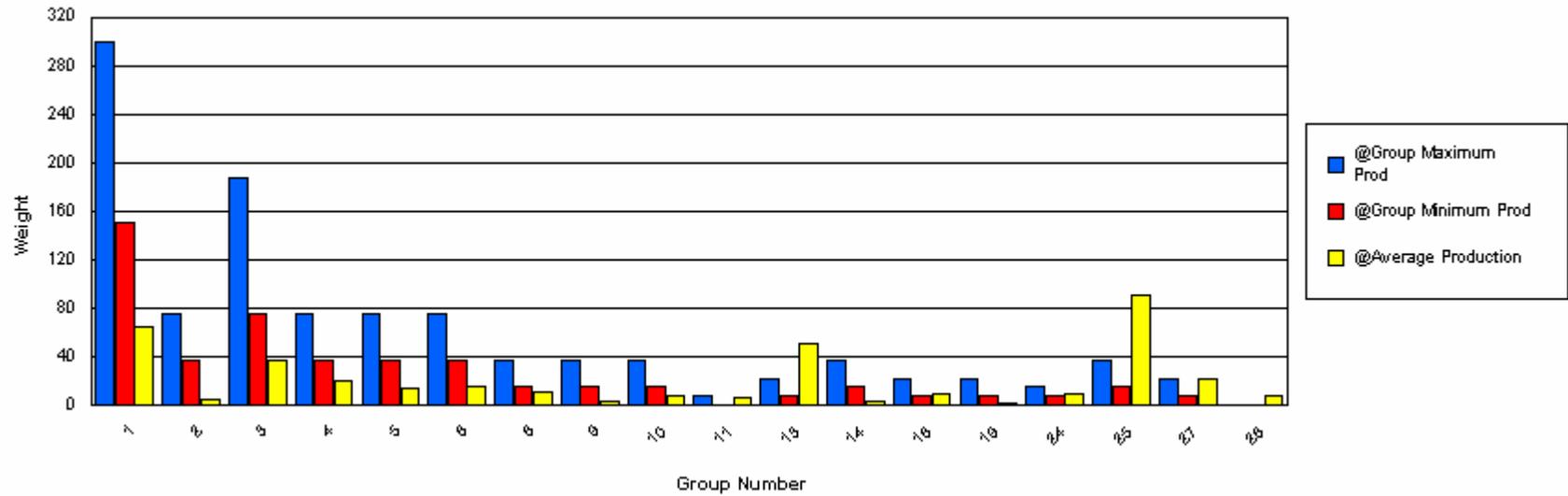
Functional / Structural Groups

Report Parameters

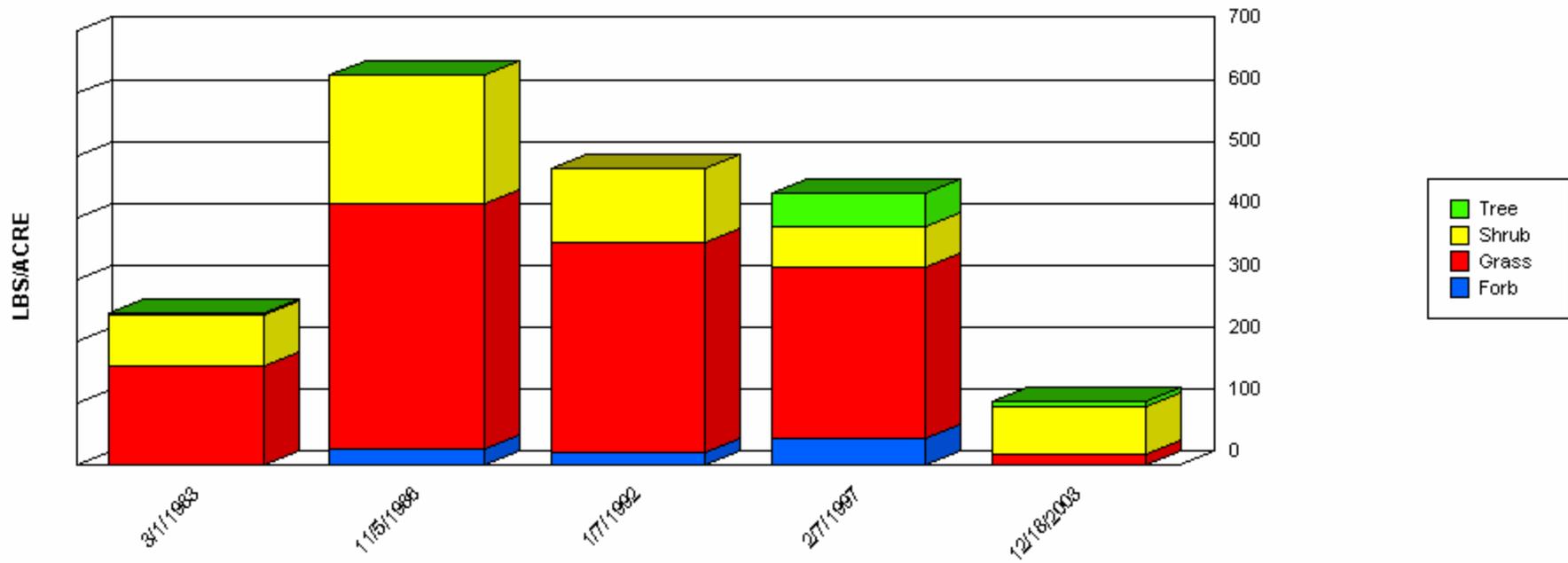
SITE NAME LIKE 64060-HONDO-F199
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070DY158NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 1 | Grass | BOER4 | 150 | 300 | 4.53 | 133.00 | 64.31 | 41.82 |
| 2 | Grass | BOCU | 37 | 75 | 2.85 | 10.00 | 4.96 | 2.94 |
| 3 | Grass | TRMU | 75 | 187 | 0.91 | 47.00 | 16.73 | 17.91 |
| 3 | Grass | TRPI2 | 75 | 187 | 0.00 | 44.00 | 20.00 | 15.94 |
| 4 | Grass | BOGR2 | 37 | 75 | 0.62 | 40.00 | 14.52 | 13.34 |
| 4 | Grass | SPCR | 37 | 75 | 0.00 | 15.00 | 6.00 | 5.52 |
| 5 | Grass | SCBR2 | 37 | 75 | 0.30 | 42.00 | 14.06 | 15.00 |
| 6 | Grass | ARIST | 37 | 75 | 0.00 | 35.00 | 14.60 | 12.21 |
| 8 | Grass | LYPH | 15 | 37 | 0.00 | 28.00 | 10.00 | 9.65 |
| 9 | Grass | PAHA | 15 | 37 | 0.00 | 6.00 | 2.40 | 1.96 |
| 10 | Grass | BOHI2 | 15 | 37 | 0.00 | 7.00 | 2.25 | 2.86 |
| 10 | Grass | ERPU8 | 15 | 37 | 1.67 | 9.00 | 5.53 | 3.09 |
| 11 | Grass | AAGG | 0 | 7 | 0.00 | 16.00 | 6.00 | 7.38 |
| 13 | Grass | ENDE | 7 | 22 | 0.00 | 63.00 | 16.17 | 27.05 |
| 13 | Grass | LECO | 7 | 22 | 0.00 | 4.00 | 1.00 | 1.73 |
| 13 | Grass | MUAR | 7 | 22 | 0.00 | 7.00 | 2.25 | 2.86 |
| 13 | Grass | MUAR2 | 7 | 22 | 0.00 | 80.00 | 31.60 | 30.66 |
| 13 | Grass | PAOB | 7 | 22 | 0.00 | 1.00 | 0.25 | 0.43 |
| 14 | Forb | CROTO | 15 | 37 | 0.00 | 6.00 | 2.39 | 2.25 |
| 14 | Forb | ERIOG | 15 | 37 | 0.00 | 2.00 | 0.80 | 0.98 |
| 17 | Forb | DYSSO | 7 | 22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | Forb | SPHAE | 7 | 22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | Forb | AAFF | 7 | 22 | 0.00 | 31.00 | 9.40 | 11.60 |
| 19 | Forb | PENA | 7 | 22 | 0.00 | 2.00 | 0.50 | 0.87 |
| 19 | Forb | PPFF | 7 | 22 | 0.00 | 3.00 | 0.79 | 1.28 |
| 19 | Forb | SOEL | 7 | 22 | 0.00 | 1.00 | 0.25 | 0.43 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 24 | Shrub | OPIM | 7 | 15 | 0.00 | 33.00 | 8.67 | 14.06 |
| 25 | Shrub | GUSA2 | 15 | 37 | 22.00 | 198.00 | 90.09 | 61.58 |
| 27 | Tree | ACGR | 7 | 22 | 1.00 | 53.00 | 16.58 | 21.15 |
| 27 | Shrub | SELO3 | 7 | 22 | 0.00 | 12.00 | 4.60 | 5.64 |
| 28 | Shrub | PRGL2 | 0 | 0 | 4.00 | 10.00 | 7.00 | 3.00 |



Production Lbs/Acre Trends

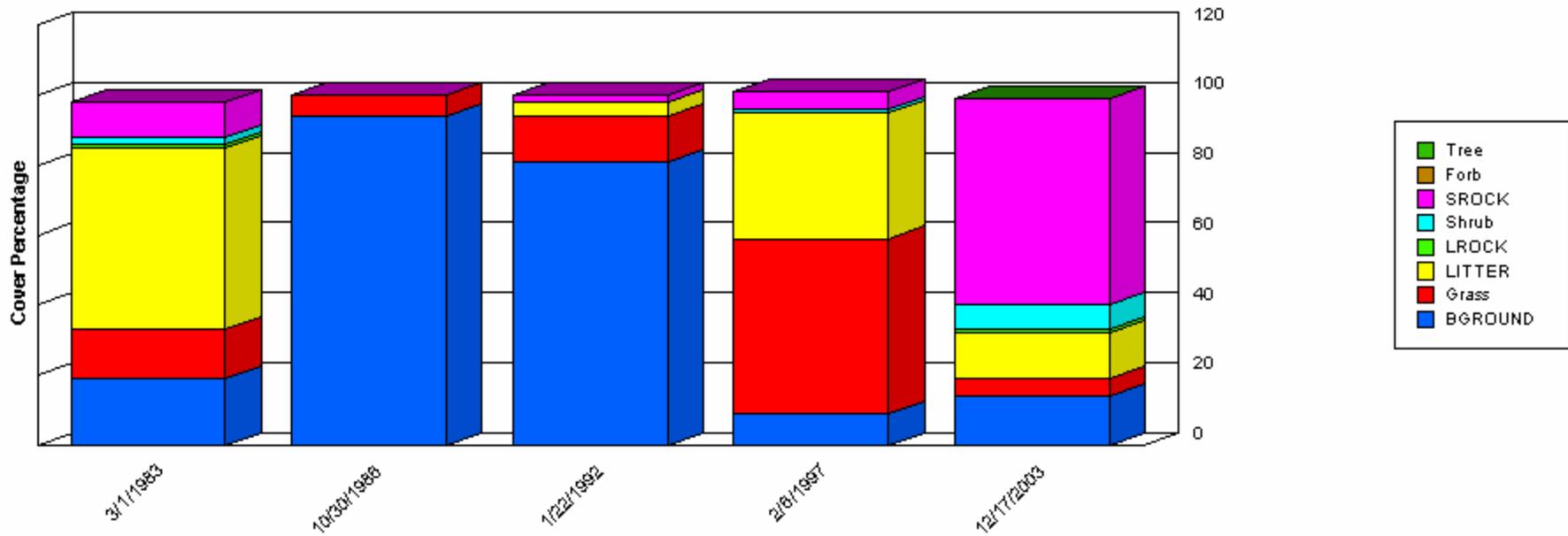


| | 3/1/1983 | 11/5/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|-----------|----------|----------|------------|
| Forb | 1.00 | 27.00 | 20.00 | 43.00 | 1.62 |
| Grass | 159.00 | 394.00 | 339.00 | 276.00 | 17.04 |
| Shrub | 82.00 | 208.00 | 120.00 | 67.00 | 77.62 |
| Tree | 5.00 | 1.00 | 0.00 | 53.00 | 7.33 |
| Total | 247.00 | 630.00 | 479.00 | 439.00 | 103.61 |

Report Parameters

SITE NAME LIKE 64060-HONDO-F199
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/6/1997 | 12/17/2003 |
|---------|----------|------------|-----------|----------|------------|
| BGROUND | 19.00 | 94.00 | 81.00 | 9.00 | 14.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 14.00 | 6.00 | 13.00 | 50.00 | 5.00 |
| LITTER | 52.00 | 0.00 | 4.00 | 36.00 | 13.00 |
| LROCK | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Shrub | 2.00 | 0.00 | 0.00 | 1.00 | 7.00 |
| SROCK | 10.00 | 0.00 | 2.00 | 5.00 | 59.00 |

| | | | | | |
|-------|----------|------------|-----------|----------|------------|
| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/6/1997 | 12/17/2003 |
| Tree | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 98.00 | 100.00 | 100.00 | 101.00 | 99.00 |

Report Parameters

SITE NAME LIKE 64060-HORSE-F193
ON/AFTER 10/01/1982
ON/BEFORE 09/30/2004

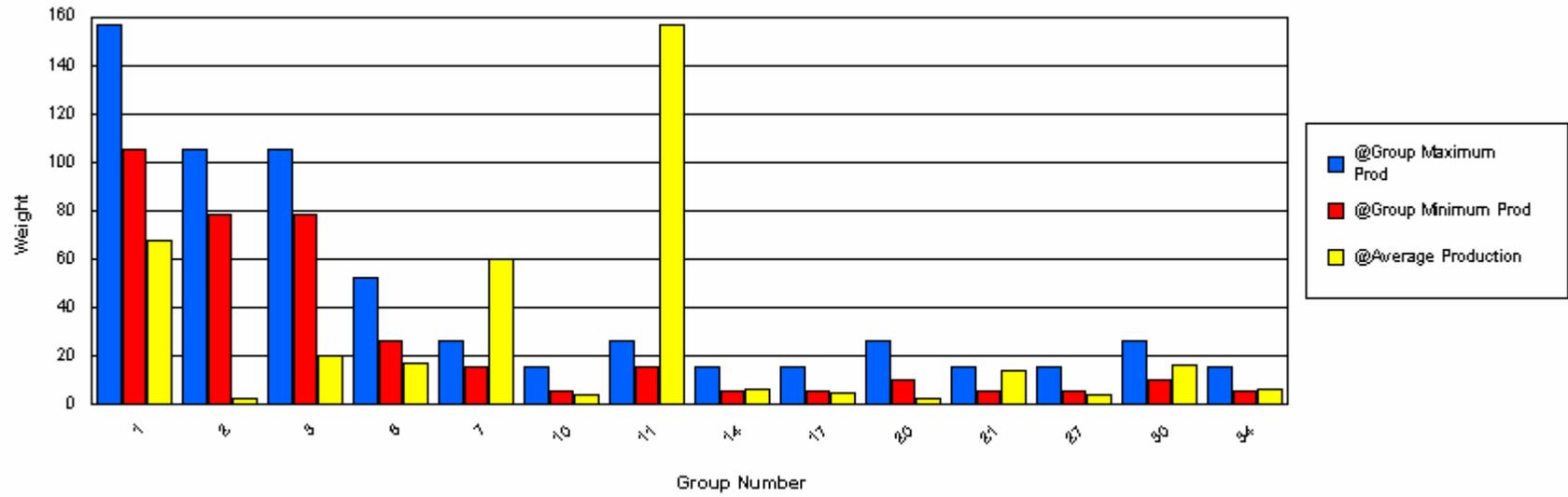
Functional / Structural Groups

Report Parameters

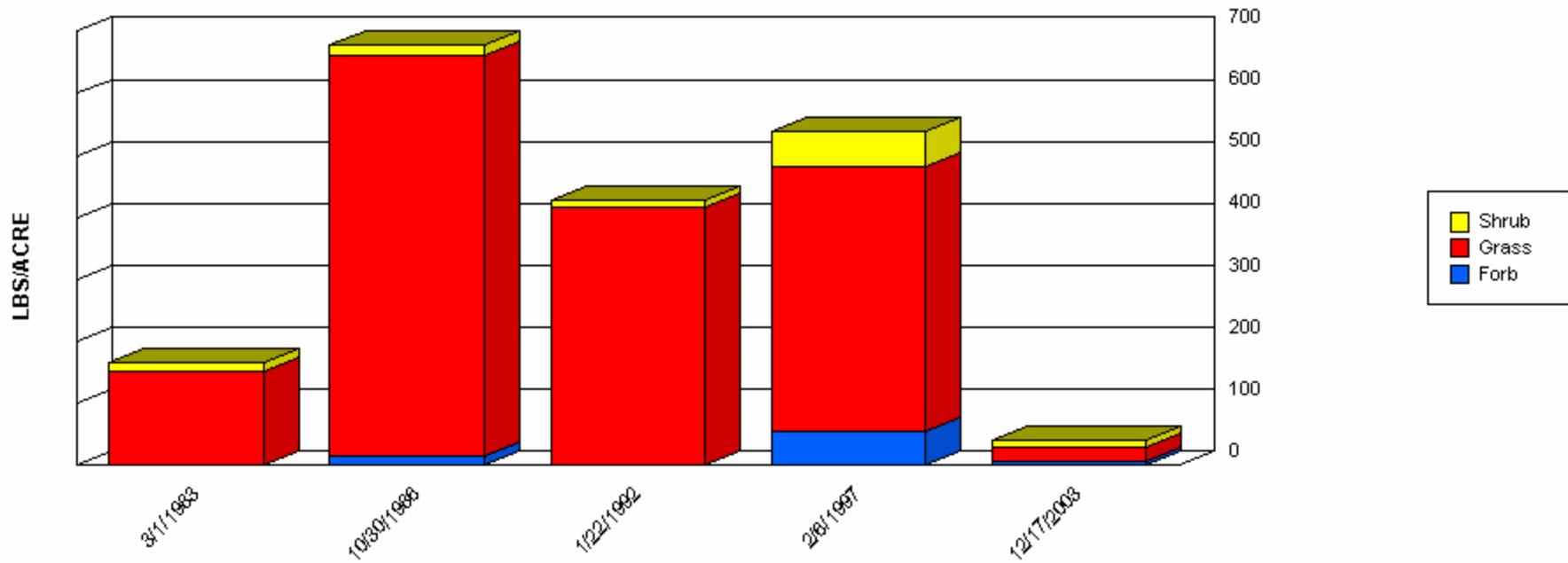
SITE NAME LIKE 64060-HORSE-F193
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 042CY025NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 1 | Grass | BOER4 | 105 | 157 | 8.50 | 227.00 | 67.70 | 80.29 |
| 2 | Grass | BOCU | 78 | 105 | 0.00 | 10.00 | 2.50 | 4.33 |
| 3 | Grass | BOGR2 | 78 | 105 | 0.00 | 54.00 | 19.16 | 21.98 |
| 3 | Grass | BOHI2 | 78 | 105 | 0.00 | 2.00 | 0.50 | 0.87 |
| 6 | Grass | SPCR | 26 | 52 | 0.00 | 43.00 | 17.00 | 17.22 |
| 7 | Grass | TRMU | 15 | 26 | 2.00 | 134.00 | 45.71 | 53.36 |
| 7 | Grass | TRPI2 | 15 | 26 | 0.00 | 30.00 | 14.25 | 10.64 |
| 10 | Grass | ERPU8 | 5 | 15 | 0.00 | 9.00 | 4.00 | 3.74 |
| 11 | Grass | ARDI5 | 15 | 26 | 0.00 | 7.00 | 3.50 | 3.50 |
| 11 | Grass | ARIST | 15 | 26 | 0.00 | 29.00 | 11.20 | 13.35 |
| 11 | Grass | HIMU2 | 15 | 26 | 0.00 | 27.00 | 13.00 | 11.45 |
| 11 | Grass | MUAR2 | 15 | 26 | 0.00 | 235.00 | 110.00 | 97.74 |
| 11 | Grass | SCBR2 | 15 | 26 | 4.75 | 43.00 | 18.94 | 14.40 |
| 12 | Grass | AAGG | 0 | 5 | 0.00 | 1.00 | 0.25 | 0.43 |
| 14 | Grass | ENDE | 5 | 15 | 0.00 | 23.00 | 5.75 | 9.96 |
| 14 | Grass | LYPH | 5 | 15 | 0.00 | 1.00 | 0.25 | 0.43 |
| 17 | Forb | SPHAE | 5 | 15 | 0.00 | 9.00 | 4.50 | 4.50 |
| 18 | Forb | LESQU | 5 | 15 | 0.00 | 2.00 | 0.50 | 0.87 |
| 20 | Forb | CROTO | 10 | 26 | 0.00 | 6.00 | 2.43 | 2.56 |
| 21 | Forb | AAFF | 5 | 15 | 1.00 | 47.00 | 13.98 | 19.16 |
| 22 | Forb | SOEL | 5 | 15 | 0.00 | 1.00 | 0.25 | 0.43 |
| 27 | Shrub | COER5 | 5 | 15 | 0.00 | 7.00 | 3.50 | 3.50 |
| 30 | Shrub | PRGL2 | 10 | 26 | 1.20 | 54.00 | 16.24 | 19.12 |
| 34 | Shrub | GUSA2 | 5 | 15 | 2.00 | 10.08 | 6.27 | 3.79 |

Group Plant Type Species Low Wt Allowed High Wt Allowed Minimum Maximum Average STDEV



Production Lbs/Acre Trends

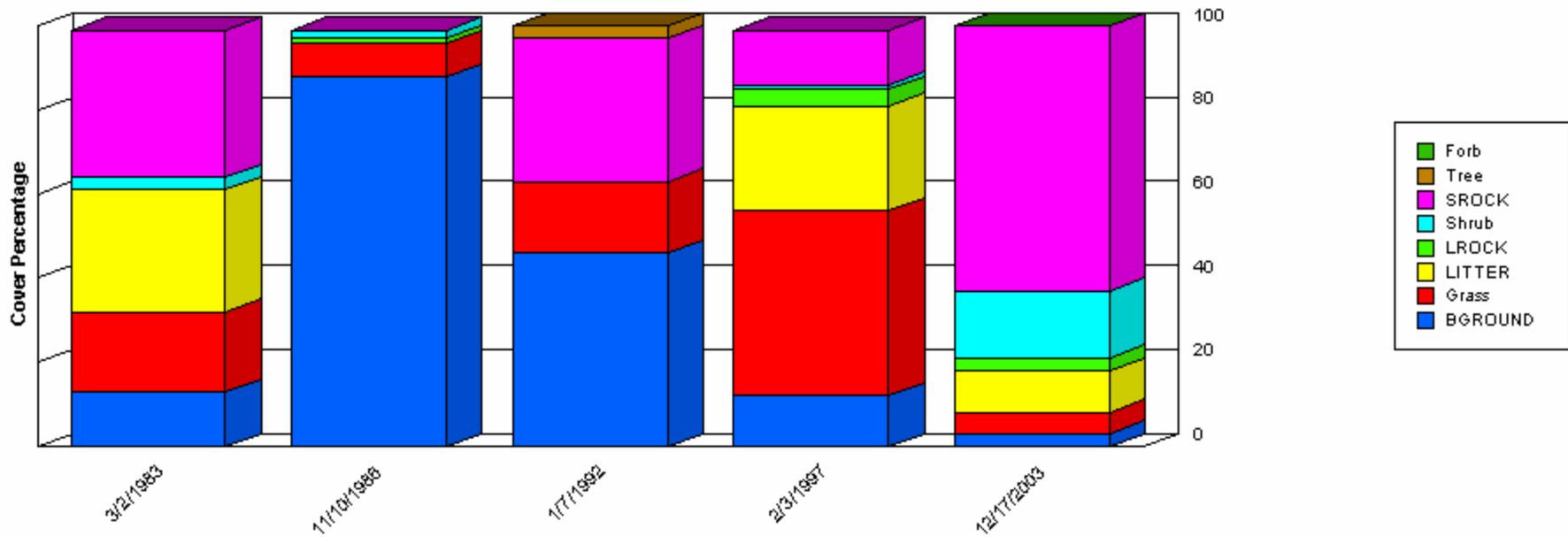


| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/6/1997 | 12/17/2003 |
|-------|----------|------------|-----------|----------|------------|
| Forb | 1.00 | 15.00 | 0.00 | 56.00 | 5.96 |
| Grass | 150.00 | 645.00 | 417.00 | 427.00 | 22.36 |
| Shrub | 16.00 | 19.00 | 10.00 | 57.00 | 11.64 |
| Total | 167.00 | 679.00 | 427.00 | 540.00 | 39.96 |

Report Parameters

SITE NAME LIKE 64060-HORSE-F193
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/2/1983 | 11/10/1986 | 1/7/1992 | 2/3/1997 | 12/17/2003 |
|---------|----------|------------|----------|----------|------------|
| BGROUND | 13.00 | 88.00 | 46.00 | 12.00 | 3.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 19.00 | 8.00 | 17.00 | 44.00 | 5.00 |
| LITTER | 29.00 | 0.00 | 0.00 | 25.00 | 10.00 |
| LROCK | 0.00 | 1.00 | 0.00 | 4.00 | 3.00 |
| Shrub | 3.00 | 2.00 | 0.00 | 1.00 | 16.00 |
| SROCK | 35.00 | 0.00 | 34.00 | 13.00 | 63.00 |

| | 3/2/1983 | 11/10/1986 | 1/7/1992 | 2/3/1997 | 12/17/2003 |
|-------|----------|------------|----------|----------|------------|
| Tree | 0.00 | 0.00 | 3.00 | 0.00 | 0.00 |
| Total | 99.00 | 99.00 | 100.00 | 99.00 | 100.00 |

Report Parameters

SITE NAME LIKE 64060-NO COLE-F195
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

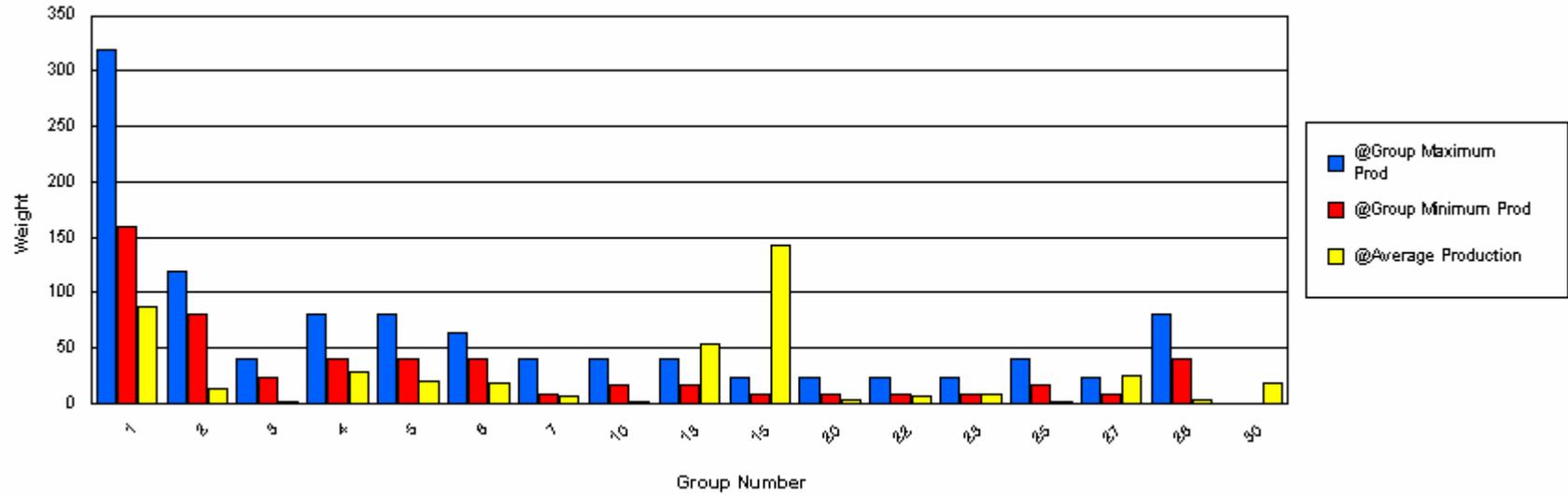
Functional / Structural Groups

Report Parameters

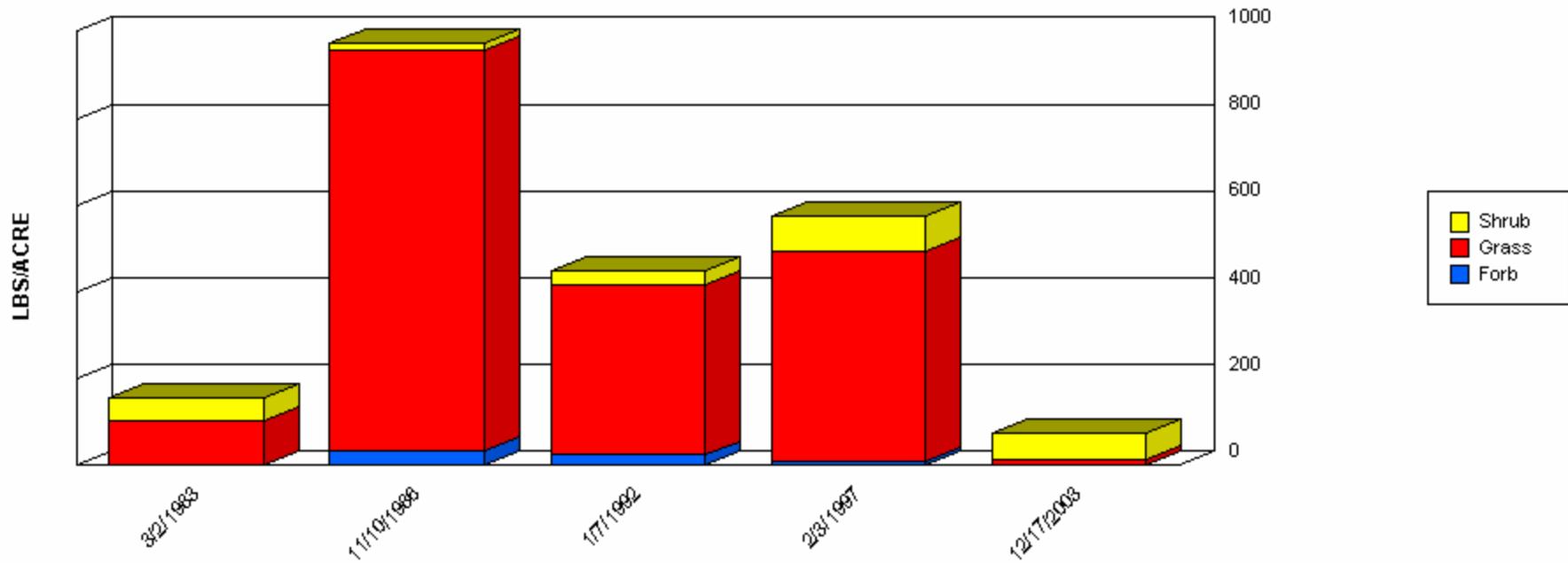
SITE NAME LIKE 64060-NO COLE-F195
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070DY152NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|--------|
| 1 | Grass | BOER4 | 160 | 320 | 5.95 | 261.00 | 87.39 | 92.76 |
| 2 | Grass | BOCU | 80 | 120 | 0.00 | 49.00 | 13.08 | 20.77 |
| 3 | Grass | SCBR2 | 24 | 40 | 0.00 | 3.00 | 1.62 | 1.08 |
| 4 | Grass | TRMU | 40 | 80 | 1.82 | 33.00 | 13.71 | 11.72 |
| 4 | Grass | TRPI2 | 40 | 80 | 0.00 | 36.00 | 14.50 | 13.28 |
| 5 | Grass | BOGR2 | 40 | 80 | 0.00 | 86.00 | 18.40 | 33.83 |
| 5 | Grass | BOHI2 | 40 | 80 | 0.00 | 5.00 | 1.25 | 2.17 |
| 6 | Grass | ARIST | 40 | 64 | 0.00 | 39.00 | 18.00 | 14.90 |
| 7 | Grass | SPCR | 8 | 40 | 0.00 | 13.00 | 7.00 | 5.61 |
| 10 | Grass | SEMA5 | 16 | 40 | 0.00 | 7.00 | 1.75 | 3.03 |
| 11 | Grass | PAHA | 16 | 40 | 0.00 | 2.00 | 0.75 | 0.83 |
| 13 | Grass | ERPU8 | 16 | 40 | 0.00 | 18.00 | 8.60 | 6.02 |
| 13 | Grass | HIMU2 | 16 | 40 | 0.28 | 97.00 | 42.26 | 36.46 |
| 13 | Grass | LEDU | 16 | 40 | 0.00 | 6.00 | 1.50 | 2.60 |
| 13 | Grass | LYPH | 16 | 40 | 0.00 | 4.00 | 1.25 | 1.64 |
| 15 | Grass | ENDE | 8 | 24 | 0.00 | 1.00 | 0.25 | 0.43 |
| 15 | Grass | MUAR | 8 | 24 | 0.00 | 2.00 | 0.75 | 0.83 |
| 15 | Grass | MUAR2 | 8 | 24 | 1.68 | 496.00 | 141.14 | 182.05 |
| 15 | Grass | PAOB | 8 | 24 | 0.00 | 6.00 | 1.50 | 2.60 |
| 20 | Forb | CROTO | 8 | 24 | 0.00 | 10.00 | 2.74 | 3.69 |
| 21 | Forb | LESQU | 40 | 56 | 0.00 | 3.00 | 0.60 | 1.20 |
| 22 | Forb | AAFF | 8 | 24 | 0.00 | 12.00 | 6.20 | 4.96 |
| 23 | Forb | SELO | 8 | 24 | 0.00 | 1.00 | 0.50 | 0.50 |
| 23 | Forb | SOEL | 8 | 24 | 4.00 | 11.00 | 7.50 | 3.50 |
| 25 | Shrub | ACACI | 16 | 40 | 0.00 | 7.00 | 1.75 | 3.03 |
| 27 | Shrub | GUSA2 | 8 | 24 | 4.00 | 54.48 | 25.70 | 19.48 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 28 | Shrub | COER5 | 40 | 80 | 0.00 | 15.00 | 3.75 | 6.50 |
| 30 | Shrub | PRGL2 | 0 | 0 | 3.00 | 56.00 | 17.86 | 20.05 |



Production Lbs/Acre Trends

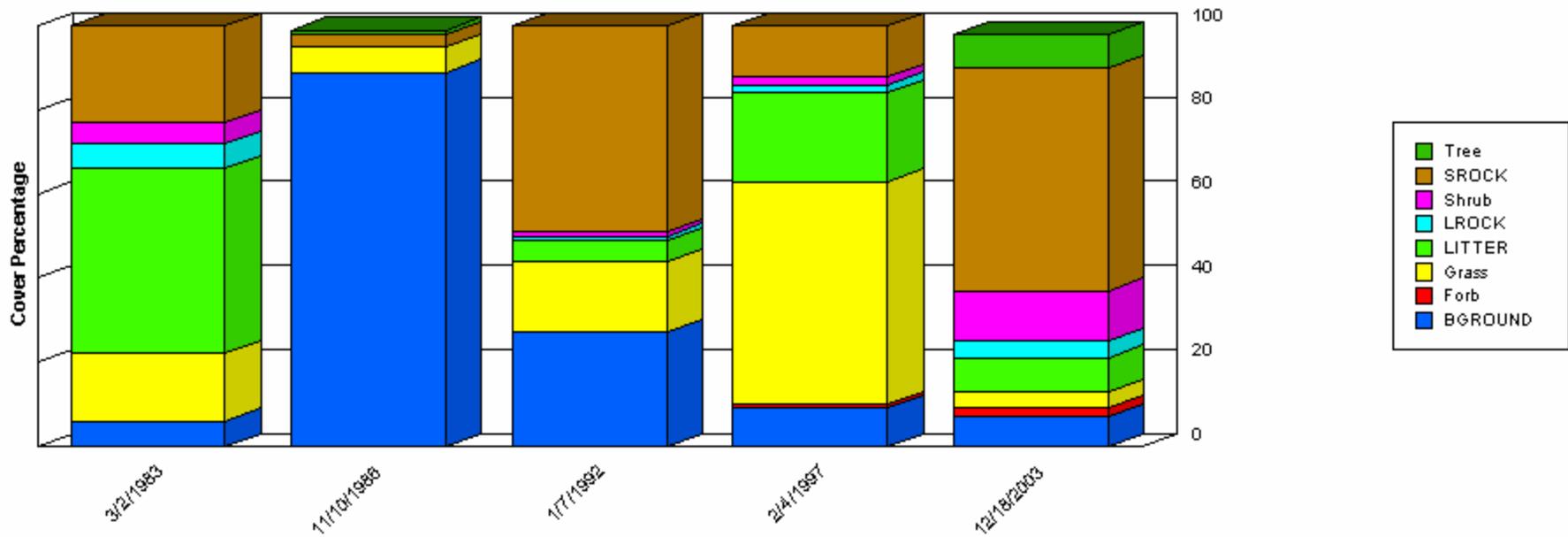


| | 3/2/1983 | 11/10/1986 | 1/7/1992 | 2/3/1997 | 12/17/2003 |
|-------|----------|------------|----------|----------|------------|
| Forb | 2.00 | 33.00 | 24.00 | 8.00 | 1.15 |
| Grass | 103.00 | 922.00 | 392.00 | 484.00 | 13.65 |
| Shrub | 50.00 | 16.00 | 34.00 | 82.00 | 58.11 |
| Total | 155.00 | 971.00 | 450.00 | 574.00 | 72.91 |

Report Parameters

SITE NAME LIKE 64060-NO COLE-F195
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/2/1983 | 11/10/1986 | 1/7/1992 | 2/4/1997 | 12/18/2003 |
|---------|----------|------------|----------|----------|------------|
| BGROUND | 6.00 | 89.00 | 27.00 | 9.00 | 7.00 |
| Forb | 0.00 | 0.00 | 0.00 | 1.00 | 2.00 |
| Grass | 16.00 | 6.00 | 17.00 | 53.00 | 4.00 |
| LITTER | 44.00 | 0.00 | 5.00 | 21.00 | 8.00 |
| LROCK | 6.00 | 0.00 | 1.00 | 2.00 | 4.00 |
| Shrub | 5.00 | 0.00 | 1.00 | 2.00 | 12.00 |
| SROCK | 23.00 | 3.00 | 49.00 | 12.00 | 53.00 |

| | 3/2/1983 | 11/10/1986 | 1/7/1992 | 2/4/1997 | 12/18/2003 |
|-------|----------|------------|----------|----------|------------|
| Tree | 0.00 | 1.00 | 0.00 | 0.00 | 8.00 |
| Total | 100.00 | 99.00 | 100.00 | 100.00 | 98.00 |

Report Parameters

SITE NAME LIKE 64060-SCHOOLHOUSE-F197
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

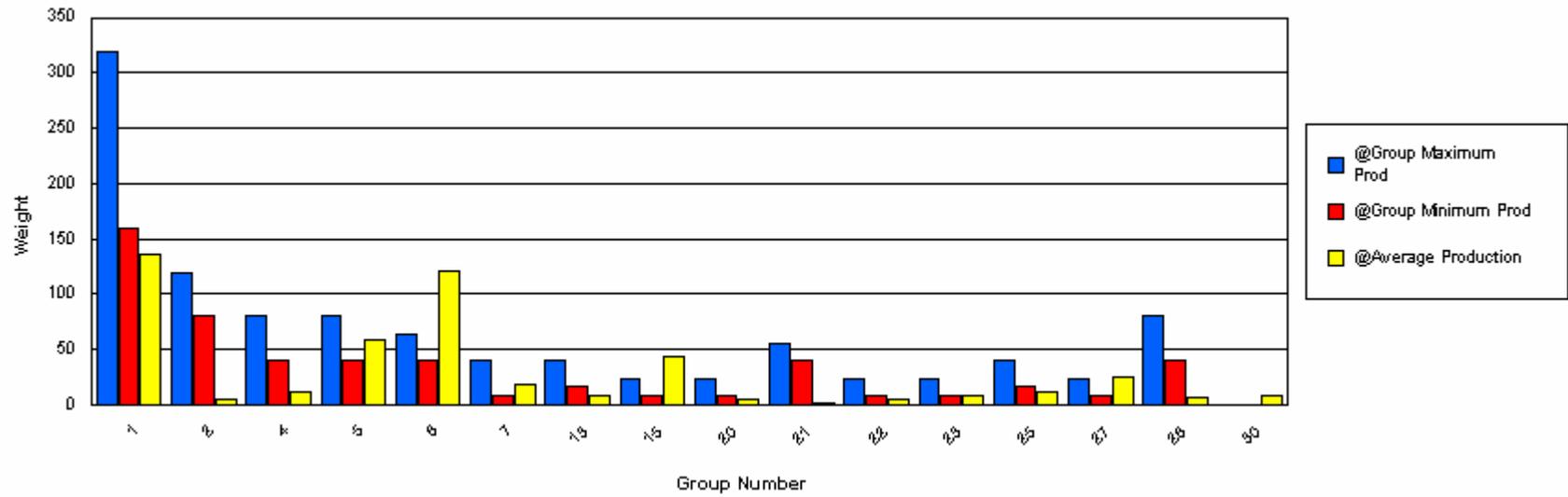
Functional / Structural Groups

Report Parameters

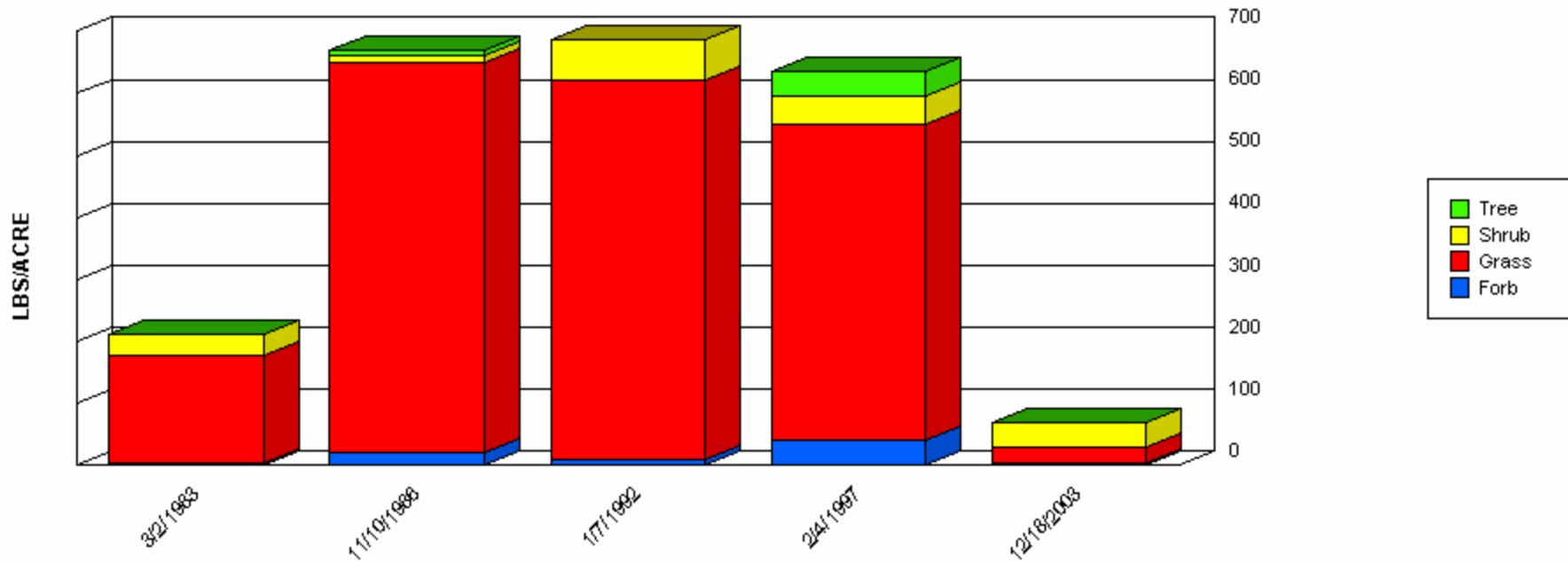
SITE NAME LIKE 64060-SCHOOLHOUSE-F197
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070DY152NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|--------|
| 1 | Grass | BOER4 | 160 | 320 | 5.38 | 298.00 | 135.68 | 106.28 |
| 2 | Grass | BOCU | 80 | 120 | 0.00 | 17.00 | 4.25 | 7.36 |
| 4 | Grass | TRMU | 40 | 80 | 0.30 | 13.00 | 6.58 | 4.61 |
| 4 | Grass | TRPI2 | 40 | 80 | 0.00 | 11.00 | 5.00 | 4.06 |
| 5 | Grass | BOGR2 | 40 | 80 | 0.00 | 37.00 | 13.00 | 14.45 |
| 5 | Grass | BOHI2 | 40 | 80 | 0.00 | 86.00 | 45.80 | 32.85 |
| 6 | Grass | ARDI5 | 40 | 64 | 0.00 | 57.00 | 28.50 | 28.50 |
| 6 | Grass | ARIST | 40 | 64 | 0.00 | 201.00 | 92.80 | 80.13 |
| 7 | Grass | SPCR | 8 | 40 | 0.00 | 51.00 | 18.25 | 20.93 |
| 13 | Grass | ERPU8 | 16 | 40 | 0.33 | 5.00 | 2.08 | 1.79 |
| 13 | Grass | LYPH | 16 | 40 | 0.00 | 18.00 | 6.50 | 6.98 |
| 15 | Grass | MUAR2 | 8 | 24 | 0.00 | 142.00 | 40.60 | 52.21 |
| 15 | Grass | PAOB | 8 | 24 | 0.00 | 14.00 | 3.50 | 6.06 |
| 20 | Forb | CROTO | 8 | 24 | 0.00 | 14.00 | 4.43 | 4.98 |
| 21 | Forb | LESQU | 40 | 56 | 0.00 | 6.00 | 1.40 | 2.33 |
| 21 | Forb | PENA | 40 | 56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | Forb | AAFF | 8 | 24 | 0.00 | 9.00 | 4.55 | 3.66 |
| 22 | Forb | ALLIU | 8 | 24 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | Forb | DYPE2 | 8 | 24 | 0.00 | 13.00 | 6.00 | 5.24 |
| 23 | Forb | LEFE | 8 | 24 | 0.00 | 2.64 | 1.55 | 1.12 |
| 23 | Forb | PENST | 8 | 24 | 0.00 | 1.00 | 0.50 | 0.50 |
| 25 | Tree | ACGR | 16 | 40 | 0.00 | 39.00 | 12.33 | 15.91 |
| 27 | Shrub | GUSA2 | 8 | 24 | 4.00 | 39.36 | 25.09 | 13.00 |
| 28 | Shrub | COER5 | 40 | 80 | 0.27 | 7.00 | 3.82 | 2.77 |
| 28 | Shrub | MIBI3 | 40 | 80 | 0.00 | 1.00 | 0.50 | 0.50 |
| 28 | Shrub | OPUNT | 40 | 80 | 0.00 | 8.00 | 2.00 | 3.46 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 30 | Shrub | PRGL2 | 0 | 0 | 0.00 | 40.00 | 9.20 | 15.57 |



Production Lbs/Acre Trends

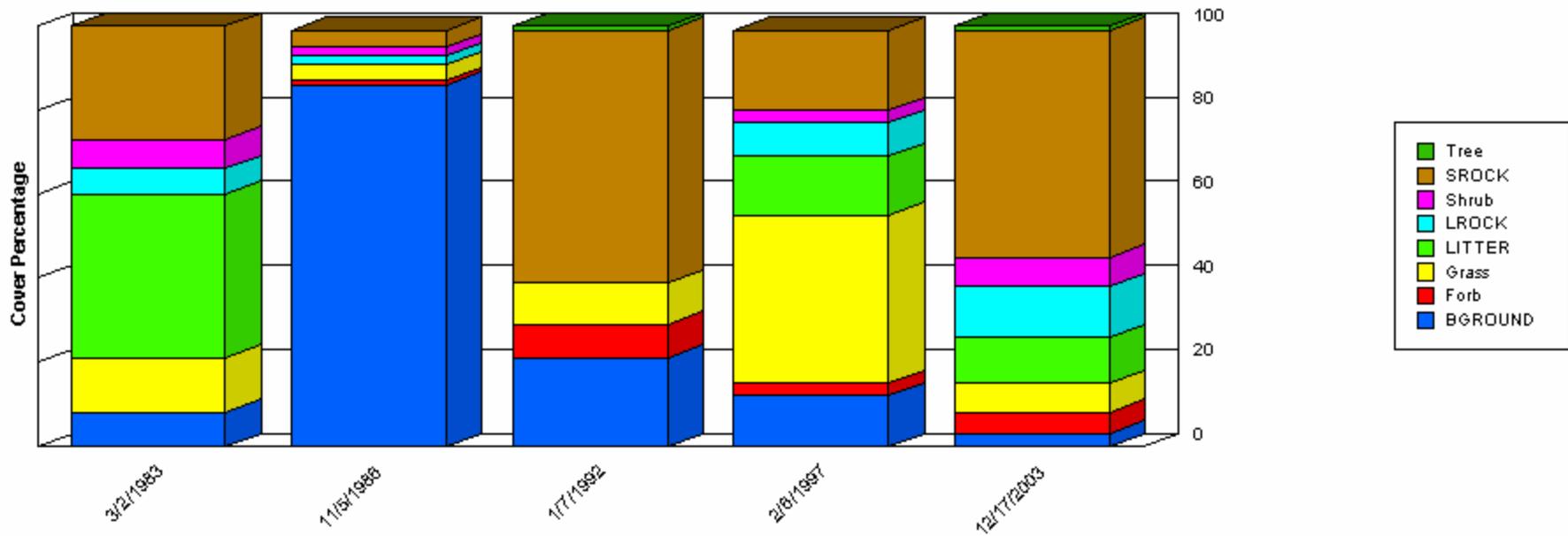


| | 3/2/1983 | 11/10/1986 | 1/7/1992 | 2/4/1997 | 12/18/2003 |
|-------|----------|------------|----------|----------|------------|
| Forb | 5.00 | 20.00 | 10.00 | 42.00 | 4.57 |
| Grass | 173.00 | 630.00 | 610.00 | 507.00 | 24.58 |
| Shrub | 33.00 | 11.00 | 67.00 | 47.00 | 39.63 |
| Tree | 0.00 | 10.00 | 0.00 | 39.00 | 0.33 |
| Total | 211.00 | 671.00 | 687.00 | 635.00 | 69.11 |

Report Parameters

SITE NAME LIKE 64060-SCHOOLHOUSE-F197
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/2/1983 | 11/5/1986 | 1/7/1992 | 2/6/1997 | 12/17/2003 |
|---------|----------|-----------|----------|----------|------------|
| BGROUND | 8.00 | 86.00 | 21.00 | 12.00 | 3.00 |
| Forb | 0.00 | 1.00 | 8.00 | 3.00 | 5.00 |
| Grass | 13.00 | 4.00 | 10.00 | 40.00 | 7.00 |
| LITTER | 39.00 | 0.00 | 0.00 | 14.00 | 11.00 |
| LROCK | 6.00 | 2.00 | 0.00 | 8.00 | 12.00 |
| Shrub | 7.00 | 2.00 | 0.00 | 3.00 | 7.00 |
| SROCK | 27.00 | 4.00 | 60.00 | 19.00 | 54.00 |

| | 3/2/1983 | 11/5/1986 | 1/7/1992 | 2/6/1997 | 12/17/2003 |
|-------|----------|-----------|----------|----------|------------|
| Tree | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Total | 100.00 | 99.00 | 100.00 | 99.00 | 100.00 |

Report Parameters

SITE NAME LIKE 64060-SO COLE-F192
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

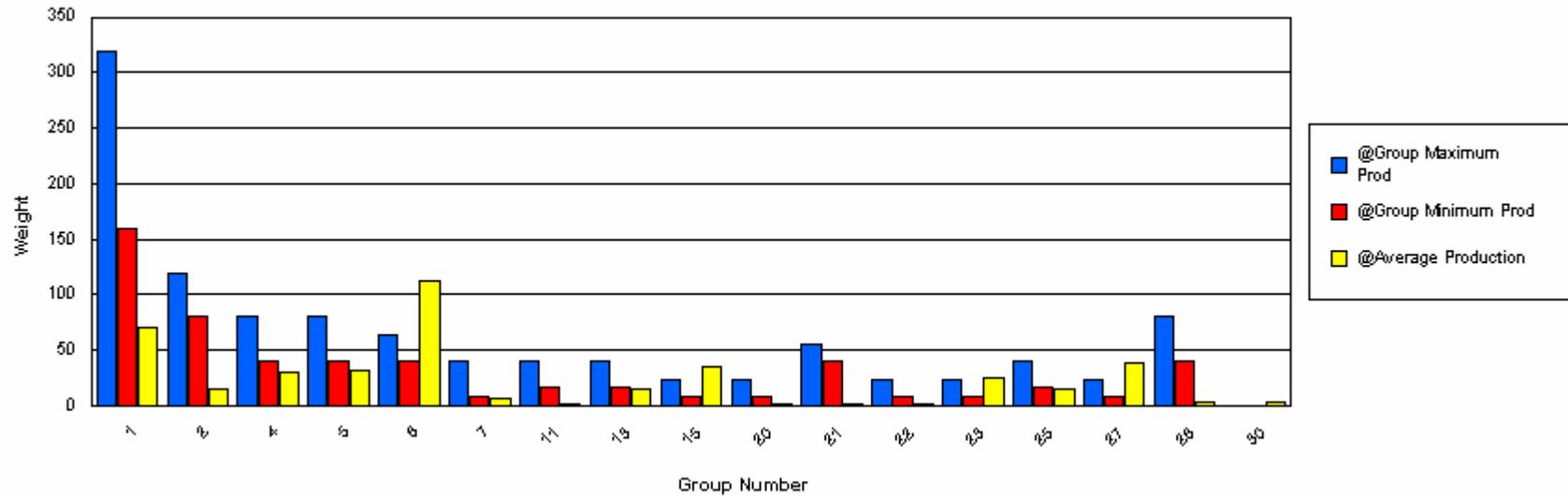
Functional / Structural Groups

Report Parameters

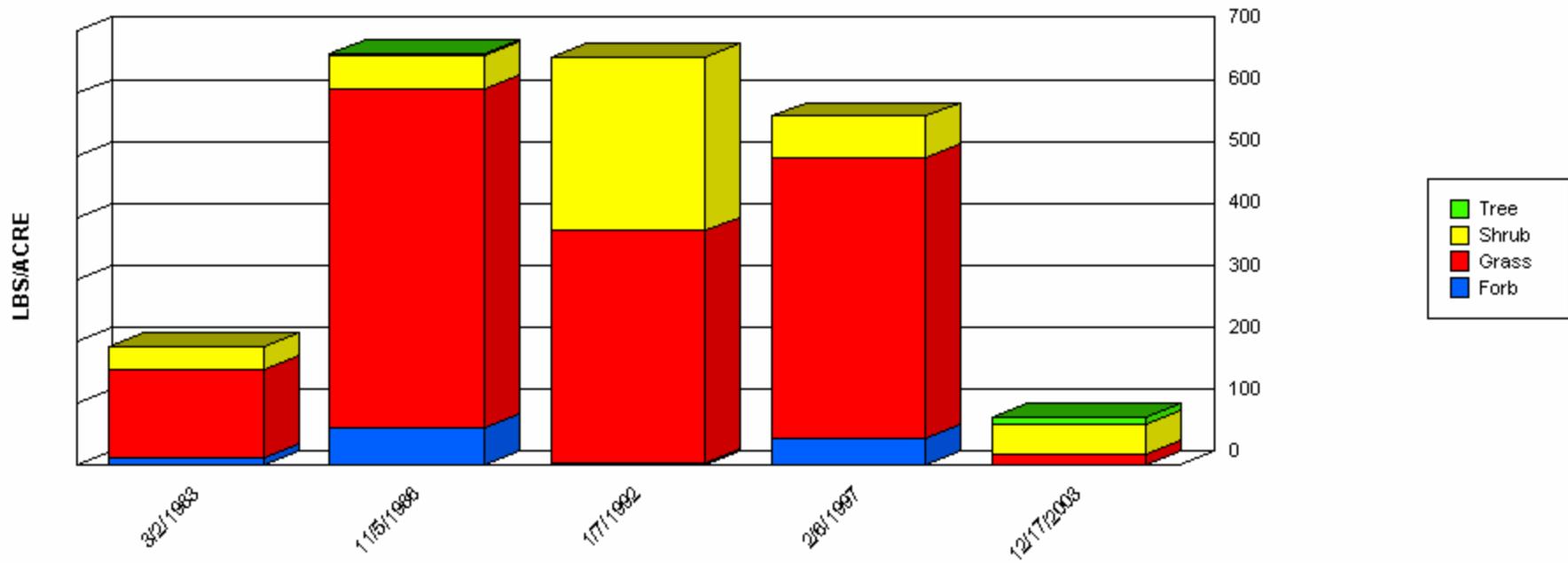
SITE NAME LIKE 64060-SO COLE-F192
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070DY152NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 1 | Grass | BOER4 | 160 | 320 | 5.67 | 200.00 | 71.13 | 68.82 |
| 2 | Grass | BOCU | 80 | 120 | 0.00 | 46.00 | 15.75 | 18.39 |
| 4 | Grass | TRMU | 40 | 80 | 5.00 | 51.00 | 17.04 | 19.62 |
| 4 | Grass | TRPI2 | 40 | 80 | 0.00 | 26.00 | 12.50 | 9.23 |
| 5 | Grass | BOGR2 | 40 | 80 | 0.00 | 40.00 | 16.60 | 15.69 |
| 5 | Grass | BOHI2 | 40 | 80 | 0.00 | 39.00 | 14.60 | 16.18 |
| 6 | Grass | ARDI5 | 40 | 64 | 0.00 | 55.00 | 27.50 | 27.50 |
| 6 | Grass | ARIST | 40 | 64 | 0.00 | 179.00 | 84.60 | 77.55 |
| 7 | Grass | SPCR | 8 | 40 | 0.00 | 28.00 | 7.50 | 11.84 |
| 11 | Grass | PAHA | 16 | 40 | 0.00 | 7.00 | 2.00 | 2.92 |
| 13 | Grass | ERPU8 | 16 | 40 | 0.00 | 3.00 | 1.00 | 1.22 |
| 13 | Grass | HIMU2 | 16 | 40 | 0.00 | 5.00 | 2.50 | 2.50 |
| 13 | Grass | LYPH | 16 | 40 | 0.00 | 32.00 | 12.20 | 11.50 |
| 15 | Grass | ENDE | 8 | 24 | 0.00 | 1.00 | 0.25 | 0.43 |
| 15 | Grass | MUAR | 8 | 24 | 0.00 | 1.00 | 0.50 | 0.50 |
| 15 | Grass | MUAR2 | 8 | 24 | 0.00 | 104.00 | 34.80 | 36.24 |
| 20 | Forb | CROTO | 8 | 24 | 0.00 | 3.00 | 1.18 | 1.11 |
| 21 | Forb | LESQU | 40 | 56 | 0.00 | 5.00 | 2.00 | 1.90 |
| 21 | Forb | PENA | 40 | 56 | 0.00 | 1.00 | 0.50 | 0.50 |
| 22 | Forb | AAFF | 8 | 24 | 0.00 | 5.00 | 2.31 | 2.22 |
| 23 | Forb | DYPE2 | 8 | 24 | 0.00 | 51.00 | 22.25 | 20.19 |
| 23 | Forb | LEFE | 8 | 24 | 0.00 | 4.00 | 2.00 | 2.00 |
| 23 | Forb | SOEL | 8 | 24 | 0.00 | 3.00 | 0.75 | 1.30 |
| 25 | Shrub | ACACI | 16 | 40 | 0.00 | 33.00 | 8.25 | 14.29 |
| 25 | Tree | ACGR | 16 | 40 | 3.00 | 10.67 | 6.84 | 3.84 |
| 27 | Shrub | GUSA2 | 8 | 24 | 25.00 | 55.00 | 38.64 | 12.55 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 28 | Shrub | COER5 | 40 | 80 | 0.00 | 1.00 | 0.42 | 0.42 |
| 28 | Shrub | MIBI3 | 40 | 80 | 0.00 | 2.00 | 1.00 | 1.00 |
| 28 | Shrub | OPIM | 40 | 80 | 0.00 | 2.00 | 1.00 | 1.00 |
| 28 | Shrub | SELO3 | 40 | 80 | 0.00 | 1.00 | 0.50 | 0.50 |
| 30 | Shrub | PRGL2 | 0 | 0 | 0.00 | 10.00 | 3.25 | 4.09 |



Production Lbs/Acre Trends

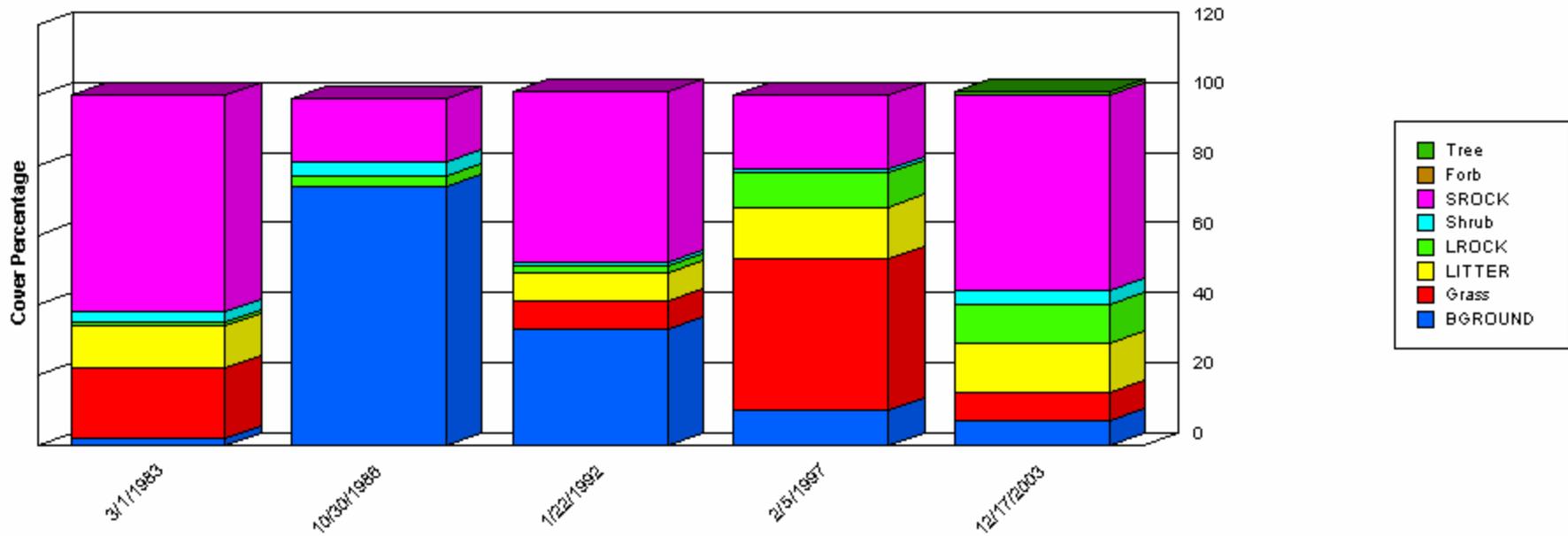


| | 3/2/1983 | 11/5/1986 | 1/7/1992 | 2/6/1997 | 12/17/2003 |
|-------|----------|-----------|----------|----------|------------|
| Forb | 12.00 | 62.00 | 4.00 | 44.00 | 1.76 |
| Grass | 144.00 | 545.00 | 374.00 | 451.00 | 16.86 |
| Shrub | 37.00 | 55.00 | 279.00 | 68.00 | 47.67 |
| Tree | 0.00 | 3.00 | 0.00 | 0.00 | 10.67 |
| Total | 193.00 | 665.00 | 657.00 | 563.00 | 76.96 |

Report Parameters

SITE NAME LIKE 64060-SO COLE-F192
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/5/1997 | 12/17/2003 |
|---------|----------|------------|-----------|----------|------------|
| BGROUND | 2.00 | 74.00 | 33.00 | 10.00 | 7.00 |
| Forb | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grass | 20.00 | 0.00 | 8.00 | 43.00 | 8.00 |
| LITTER | 12.00 | 0.00 | 8.00 | 15.00 | 14.00 |
| LROCK | 1.00 | 3.00 | 2.00 | 10.00 | 11.00 |
| Shrub | 3.00 | 4.00 | 1.00 | 1.00 | 4.00 |
| SROCK | 62.00 | 18.00 | 49.00 | 21.00 | 56.00 |

| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/5/1997 | 12/17/2003 |
|-------|----------|------------|-----------|----------|------------|
| Tree | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Total | 100.00 | 99.00 | 101.00 | 100.00 | 101.00 |

Report Parameters

SITE NAME LIKE 64060-VAT-F194
ON/AFTER 10/01/1982
ON/BEFORE 09/30/2004

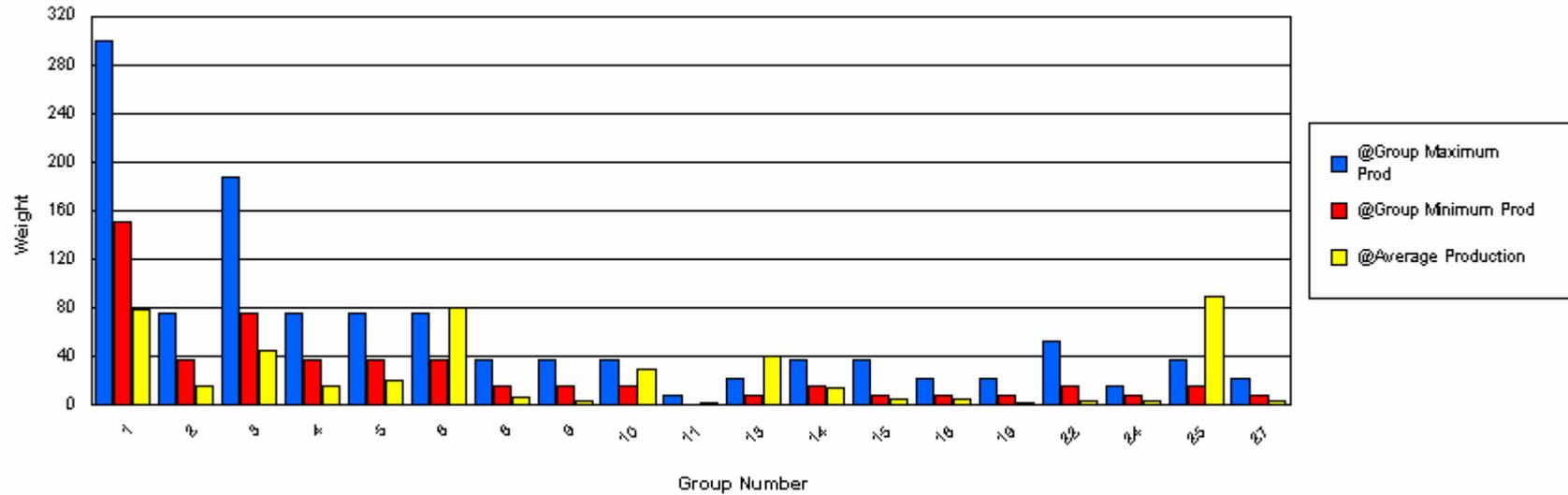
Functional / Structural Groups

Report Parameters

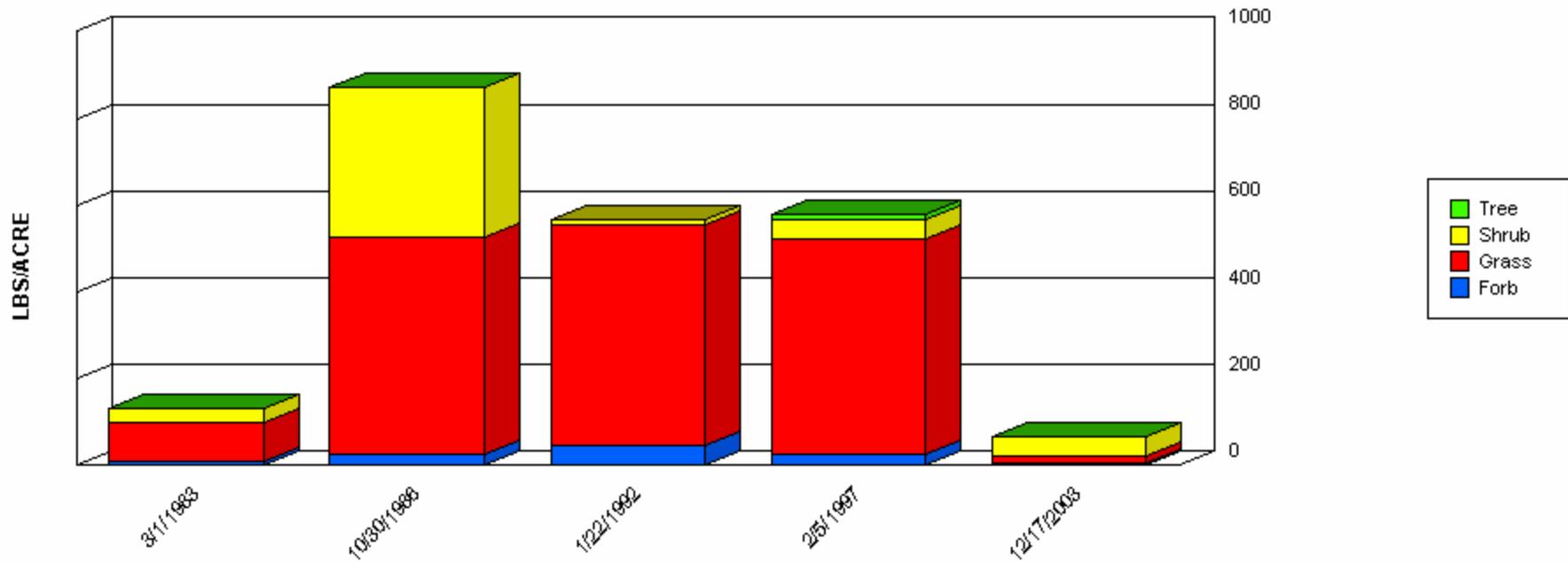
SITE NAME LIKE 64060-VAT-F194
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070DY158NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 1 | Grass | BOER4 | 150 | 300 | 3.97 | 192.00 | 78.39 | 73.43 |
| 2 | Grass | BOCU | 37 | 75 | 0.00 | 46.00 | 14.75 | 18.51 |
| 3 | Grass | TRMU | 75 | 187 | 0.61 | 105.00 | 29.40 | 43.71 |
| 3 | Grass | TRPI2 | 75 | 187 | 0.00 | 28.00 | 15.50 | 10.23 |
| 4 | Grass | BOGR2 | 37 | 75 | 0.00 | 28.00 | 11.25 | 10.99 |
| 4 | Grass | SPCR | 37 | 75 | 0.00 | 13.00 | 4.50 | 5.02 |
| 5 | Grass | SCBR2 | 37 | 75 | 0.59 | 54.00 | 19.86 | 24.21 |
| 6 | Grass | ARIST | 37 | 75 | 0.00 | 203.00 | 80.00 | 76.32 |
| 8 | Grass | LYPH | 15 | 37 | 0.00 | 17.00 | 6.75 | 6.42 |
| 9 | Grass | PAHA | 15 | 37 | 0.24 | 8.00 | 3.25 | 2.58 |
| 10 | Grass | BOHI2 | 15 | 37 | 0.00 | 26.00 | 9.80 | 9.52 |
| 10 | Grass | ERPU8 | 15 | 37 | 0.00 | 3.00 | 1.75 | 1.09 |
| 10 | Grass | HIMU2 | 15 | 37 | 1.00 | 52.00 | 17.57 | 20.62 |
| 11 | Grass | AAGG | 0 | 7 | 0.00 | 7.00 | 1.75 | 3.03 |
| 11 | Grass | MUSQ | 0 | 7 | 0.00 | 1.00 | 0.50 | 0.50 |
| 13 | Grass | ENDE | 7 | 22 | 0.00 | 27.00 | 6.75 | 11.69 |
| 13 | Grass | MUAR2 | 7 | 22 | 0.00 | 71.00 | 33.80 | 30.56 |
| 14 | Forb | CROTO | 15 | 37 | 2.00 | 37.00 | 13.22 | 12.97 |
| 14 | Forb | ERIOG | 15 | 37 | 0.00 | 2.00 | 0.50 | 0.87 |
| 15 | Forb | SELO | 7 | 37 | 2.00 | 8.00 | 5.33 | 2.49 |
| 17 | Forb | DYPA | 7 | 22 | 0.00 | 1.00 | 0.50 | 0.50 |
| 18 | Forb | AAFF | 7 | 22 | 0.19 | 15.00 | 5.05 | 5.92 |
| 18 | Forb | LINUM | 7 | 22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | Forb | LEER | 7 | 22 | 0.00 | 1.00 | 0.50 | 0.50 |
| 19 | Forb | OENOT | 7 | 22 | 0.00 | 1.00 | 0.50 | 0.50 |
| 19 | Forb | PENA | 7 | 22 | 0.00 | 1.00 | 0.50 | 0.50 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|--------|
| 19 | Forb | SOEL | 7 | 22 | 0.00 | 1.00 | 0.50 | 0.50 |
| 22 | Shrub | NOLIN | 15 | 52 | 0.00 | 1.00 | 0.25 | 0.43 |
| 22 | Shrub | NOMI | 15 | 52 | 0.00 | 5.00 | 2.50 | 2.50 |
| 24 | Shrub | OPUNT | 7 | 15 | 0.00 | 13.00 | 3.25 | 5.63 |
| 25 | Shrub | GUSA2 | 15 | 37 | 14.00 | 346.00 | 88.63 | 128.83 |
| 27 | Tree | ACGR | 7 | 22 | 0.00 | 10.00 | 2.50 | 4.33 |



Production Lbs/Acre Trends

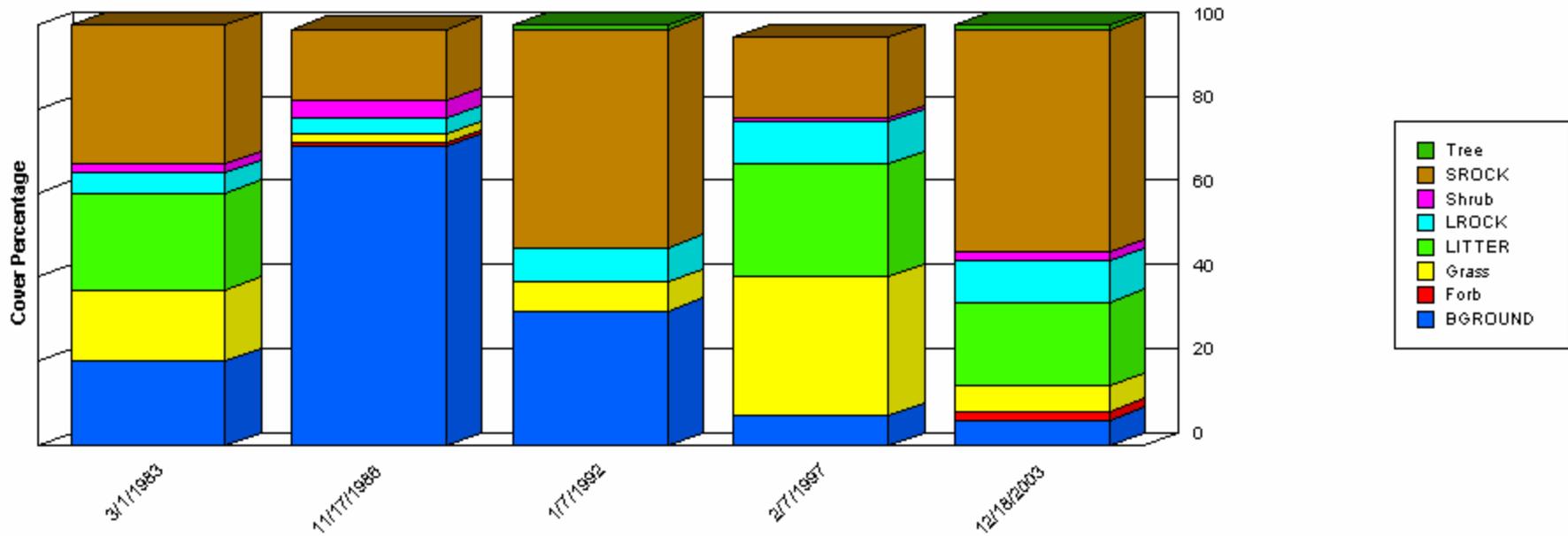


| | 3/1/1983 | 10/30/1986 | 1/22/1992 | 2/5/1997 | 12/17/2003 |
|-------|----------|------------|-----------|----------|------------|
| Forb | 9.00 | 27.00 | 45.00 | 27.00 | 3.81 |
| Grass | 92.00 | 499.00 | 509.00 | 494.00 | 17.67 |
| Shrub | 29.00 | 346.00 | 14.00 | 47.00 | 45.53 |
| Tree | 0.00 | 0.00 | 0.00 | 10.00 | 0.00 |
| Total | 130.00 | 872.00 | 568.00 | 578.00 | 67.01 |

Report Parameters

SITE NAME LIKE 64060-VAT-F194
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

Ground Cover Trends



| | 3/1/1983 | 11/17/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|---------|----------|------------|----------|----------|------------|
| BGROUND | 20.00 | 71.00 | 32.00 | 7.00 | 6.00 |
| Forb | 0.00 | 1.00 | 0.00 | 0.00 | 2.00 |
| Grass | 17.00 | 2.00 | 7.00 | 33.00 | 6.00 |
| LITTER | 23.00 | 0.00 | 0.00 | 27.00 | 20.00 |
| LROCK | 5.00 | 4.00 | 8.00 | 10.00 | 10.00 |
| Shrub | 2.00 | 4.00 | 0.00 | 1.00 | 2.00 |
| SROCK | 33.00 | 17.00 | 52.00 | 19.00 | 53.00 |

| | 3/1/1983 | 11/17/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|------------|----------|----------|------------|
| Tree | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Total | 100.00 | 99.00 | 100.00 | 97.00 | 100.00 |

Report Parameters

SITE NAME LIKE 64060-WEST BORDER-F200
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004

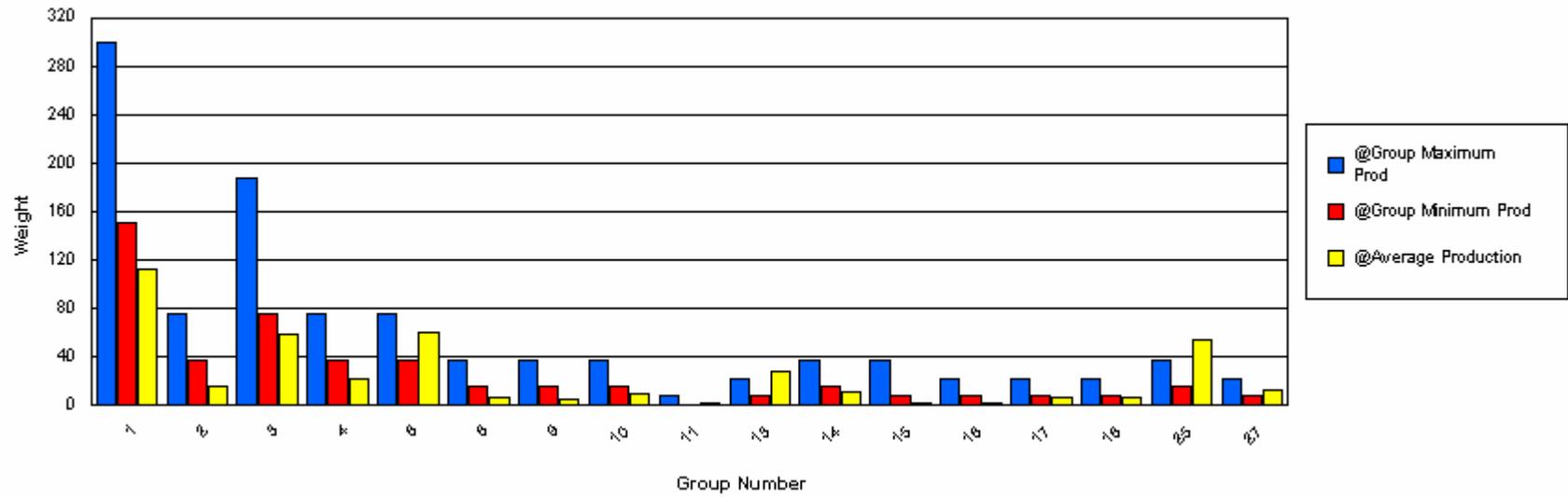
Functional / Structural Groups

Report Parameters

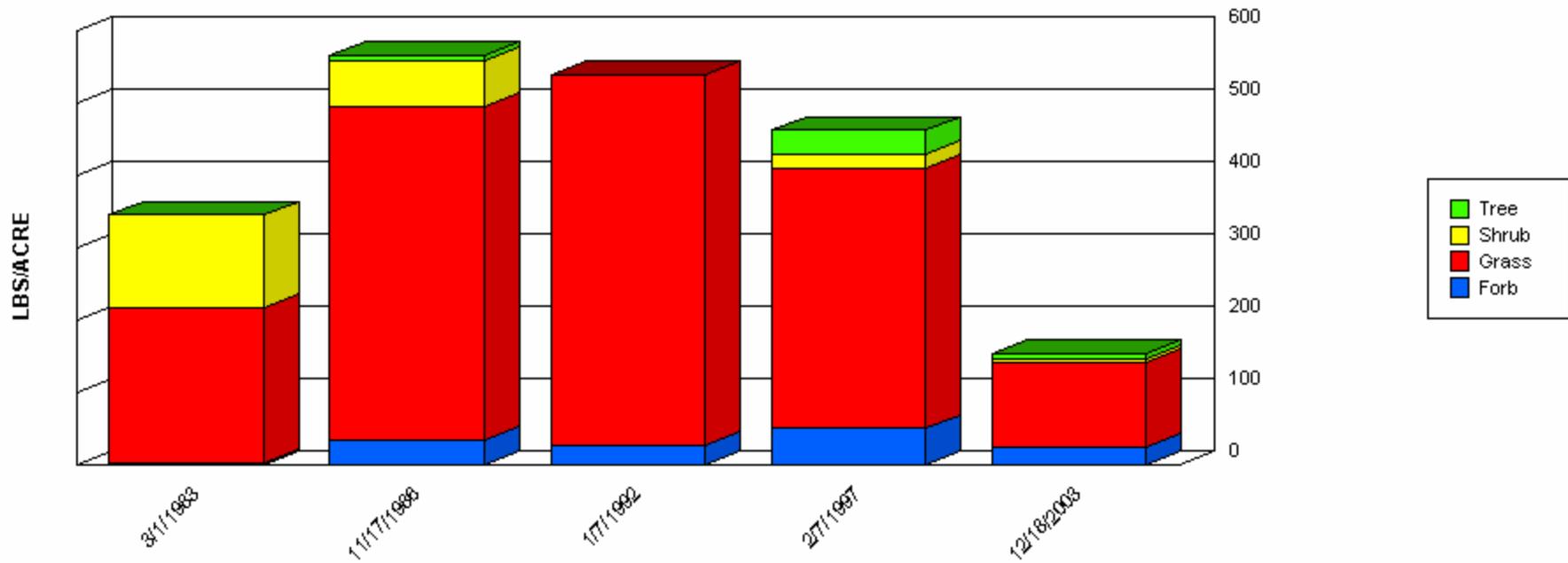
SITE NAME LIKE 64060-WEST BORDER-F200
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004
 MIN LBS TO GRAPH 1
 SELECTED ECOSITE 070DY158NM

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 1 | Grass | BOER4 | 150 | 300 | 7.93 | 291.00 | 111.99 | 99.07 |
| 2 | Grass | BOCU | 37 | 75 | 0.00 | 53.00 | 15.98 | 21.64 |
| 3 | Grass | TRMU | 75 | 187 | 0.00 | 65.00 | 29.25 | 23.59 |
| 3 | Grass | TRPI2 | 75 | 187 | 0.00 | 70.00 | 28.50 | 27.70 |
| 4 | Grass | BOGR2 | 37 | 75 | 0.00 | 40.00 | 19.20 | 14.93 |
| 4 | Grass | SPCR | 37 | 75 | 0.00 | 3.00 | 1.75 | 1.09 |
| 5 | Grass | SCBR2 | 37 | 75 | 0.00 | 2.00 | 0.75 | 0.83 |
| 6 | Grass | ARIST | 37 | 75 | 0.00 | 102.00 | 59.80 | 34.54 |
| 8 | Grass | LYPH | 15 | 37 | 0.00 | 12.00 | 6.00 | 4.74 |
| 9 | Grass | PAHA | 15 | 37 | 0.00 | 8.00 | 4.00 | 2.76 |
| 10 | Grass | BOHI2 | 15 | 37 | 0.00 | 7.00 | 3.50 | 2.69 |
| 10 | Grass | ERPU8 | 15 | 37 | 0.00 | 13.00 | 5.25 | 4.97 |
| 11 | Grass | AAGG | 0 | 7 | 0.00 | 7.00 | 1.80 | 2.71 |
| 13 | Grass | ENDE | 7 | 22 | 0.00 | 13.00 | 3.25 | 5.63 |
| 13 | Grass | MUAR2 | 7 | 22 | 0.00 | 66.00 | 24.60 | 22.36 |
| 14 | Forb | CROTO | 15 | 37 | 0.00 | 20.00 | 9.57 | 8.16 |
| 14 | Forb | ERIOG | 15 | 37 | 0.00 | 2.00 | 0.75 | 0.83 |
| 15 | Forb | SELO | 7 | 37 | 0.00 | 4.00 | 1.00 | 1.73 |
| 16 | Forb | LESQU | 7 | 22 | 0.00 | 2.00 | 1.00 | 1.00 |
| 17 | Forb | DYPE2 | 7 | 22 | 0.00 | 18.00 | 6.00 | 7.35 |
| 18 | Forb | AAFF | 7 | 22 | 0.00 | 18.00 | 6.80 | 6.68 |
| 19 | Forb | PPFF | 7 | 22 | 0.00 | 1.00 | 0.50 | 0.50 |
| 21 | Shrub | MIBI3 | 15 | 37 | 0.00 | 1.00 | 0.50 | 0.50 |
| 24 | Shrub | OPUNT | 7 | 15 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | Shrub | GUSA2 | 15 | 37 | 4.80 | 128.00 | 53.70 | 47.96 |
| 26 | Shrub | COER5 | 15 | 37 | 0.00 | 2.00 | 0.50 | 0.87 |

| Group | Plant Type | Species | Low Wt Allowed | High Wt Allowed | Minimum | Maximum | Average | STDEV |
|-------|------------|---------|----------------|-----------------|---------|---------|---------|-------|
| 27 | Tree | ACGR | 7 | 22 | 0.00 | 32.00 | 11.92 | 12.04 |



Production Lbs/Acre Trends



| | 3/1/1983 | 11/17/1986 | 1/7/1992 | 2/7/1997 | 12/18/2003 |
|-------|----------|------------|----------|----------|------------|
| Forb | 3.00 | 36.00 | 27.00 | 51.00 | 26.03 |
| Grass | 214.00 | 460.00 | 514.00 | 359.00 | 116.07 |
| Shrub | 129.00 | 63.00 | 0.00 | 21.00 | 4.80 |
| Tree | 0.00 | 7.00 | 0.00 | 32.00 | 8.67 |
| Total | 346.00 | 566.00 | 541.00 | 463.00 | 155.57 |

Report Parameters

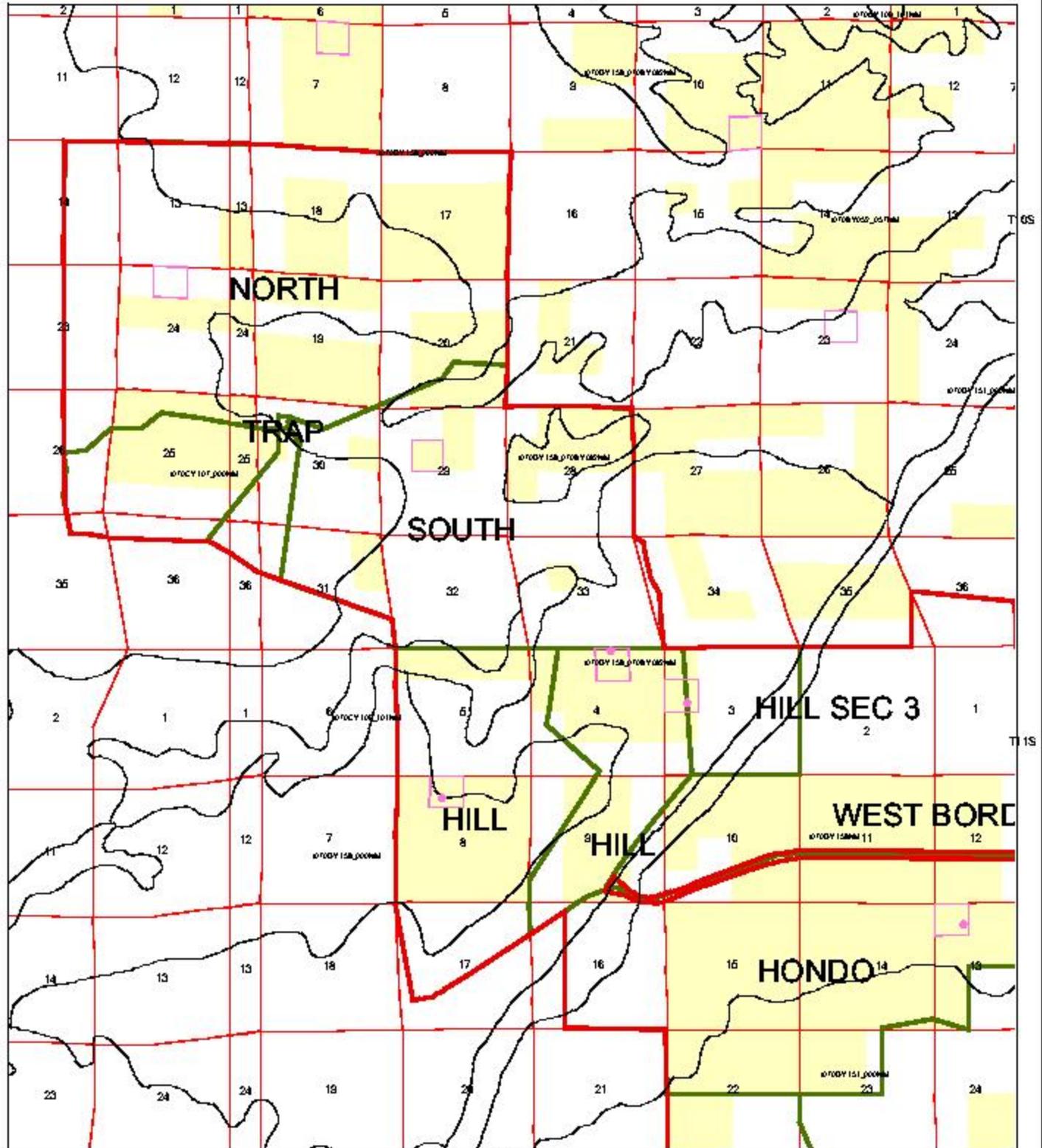
SITE NAME LIKE 64060-WEST BORDER-F200
 ON/AFTER 10/01/1982
 ON/BEFORE 09/30/2004



Rangeland Health Assessment

Ecological Sites

Allotment - 64060 Map 1 of 3



Study Plots
40 Acres

Study Locations

State Public Private

Allotment Boundary

Pasture Fence

Ecological Site Boundart

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. Original data was compiled from various sources. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification.

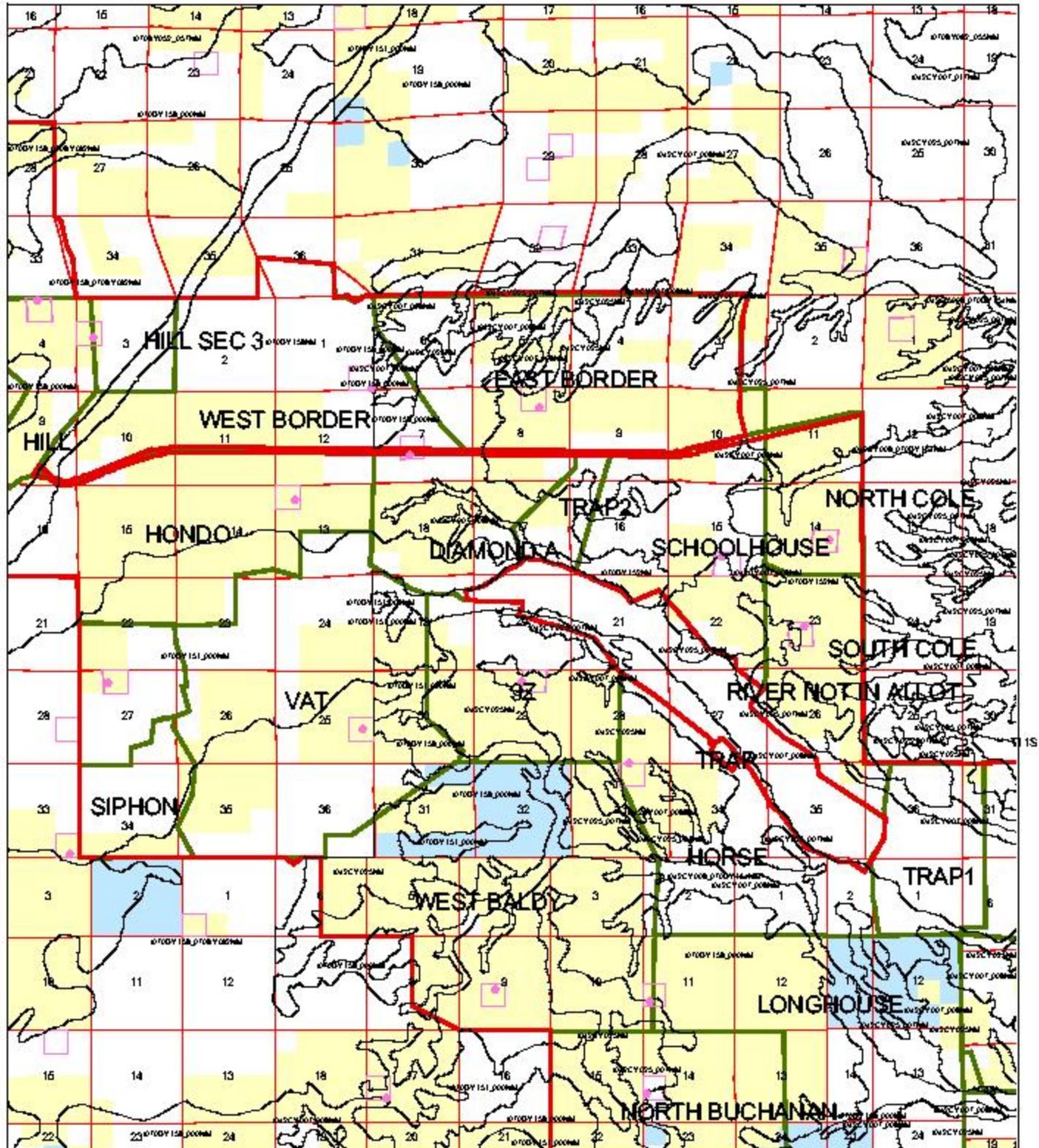
Produced by the RFO GIS Specialist on March 28, 2005.



Rangeland Health Assessment

Ecological Sites

Allotment - 64060 Map 2 of 3



 Study Plots
 40 Acres

 Study Locations

 State
 Public
 Private

 Allotment Boundary
 Pasture Fence
 Ecological Site Boundary

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. Original data was compiled from various sources. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification.

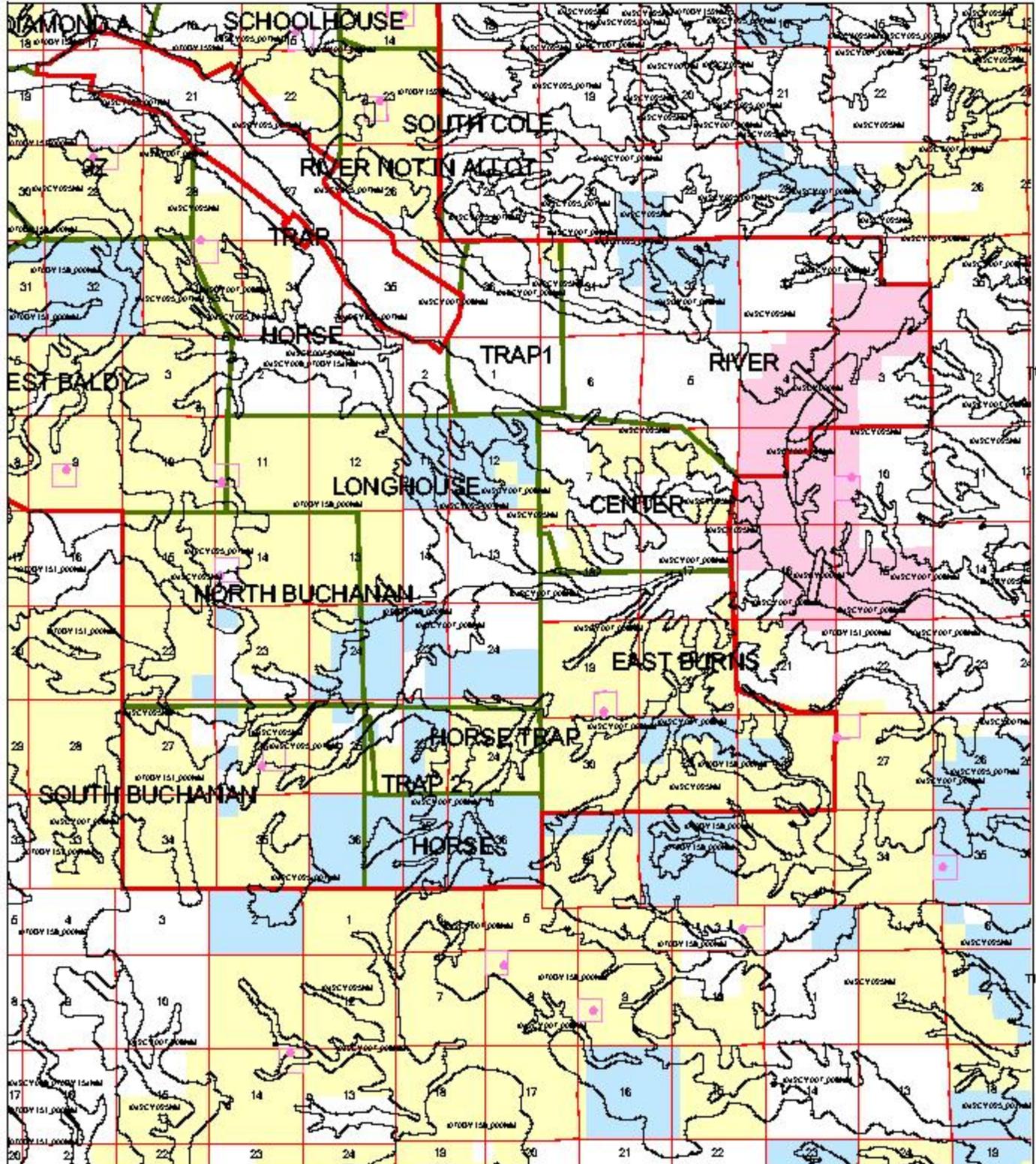
Produced by the RFO GIS Specialist on March 28, 2005.



Rangeland Health Assessment

Ecological Sites

Allotment - 64060 Map 3 of 3



 Study Plots
 40 Acres

 Study Locations

 State
 Public
 Private

 Allotment Boundary
 Pasture Fence
 Ecological Site Boundary

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. Original data was compiled from various sources. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification.

Produced by the RFO GIS Specialist on March 28, 2005.