

## **Determination of Public Land (Rangeland) Health for 64061 FRED GIST**

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 Fred Gist allotment #64061 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 64061 FRED GIST Allotment [ 07/22/2004 ]

The Roswell Field Office conducted rangeland health assessments at five (5) study sites within the Fred Gist Allotment #64061. 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-E BURNS-F242 (* )	X	*		X	*		N/A		
64060- LONGHOUSE- F244 (* )	X	*		X	*		N/A		
64060-N BUCHANAN- F243 (* )	X	*		X			N/A		
64060-S BUCHANAN- F240 (* )	X			X	*		N/A		
64060-W BALDY-F241	X			X			N/A		

Two range sites contain the 5 study locations on this allotment. The predominant range site is the Shallow SD-3, found usually between 2,842 and 4,500 feet in elevation. Temperatures and rainfall favor warm season perennial plants such as black grama, sideoats grama, blue grama, hairy grama, bush muhly, littleleaf sumac, range ratany, scattered cresostebush, javalina bush, American tarbush, spiny allthorn. Four of the five study locations are within this range site. The remaining study is within the Very Shallow CP-4 Range site. Elevations for this site run from 4,000 to 7,000 feet. Again warm season species are favored by temperature and precipitation patterns. Short duration gently rains are best suited for this soil. Heavy, short terms rainfall produces excess runoff, which can cause flash flooding and soil erosion. Strong winds usually occur during February through June, limiting the available precipitation for cool season plant growth. The historic plant community for the Very Shallow CP-4 site is a grassland/shrub/succulent - mix, dominated by grasses, with shrubs/succulent common and evenly distributed.

Resource competition for available water may be a factor contributing to the transition to a shrub - dominated site. Suppression of natural fire regimes may also play a part in the transition to shrub or succulent dominance.

The West Baldy Pasture study falls within the Very Shallow CP-4 Range site. The Functional/Structural Groups were rated at Slight, with a good mix of groups and of species within the groups. Plant mortality was rated at None to slight, with plants showing as dormant. Production was higher than expected here as compared to the other pastures, rating at 39% of what is normal for drought years, resulting in a rating of Moderate. The invasive plants were prickly pear and nolina, but were at numbers within site expectations. Reproductive capability was limited by the ongoing drought, but seedheads and tillering was evident.

The remaining four sites are located in the Shallow SD-3 Range Site. The East Burns pasture showed an increased shrub component within the the Functional/Structural Groups, but are not out of line for the site. This attribute was rated as Slight to Moderate, as were the Plant Mortality/Decadence, Litter Amounts, Invasive Plants and Reproductive Capability of Perennial Plants. Overall litter amounts were consistent with the range site guide as was the relative amount of bare ground. Production levels were consistently low across the allotment, production was at 8% of drought expectations resulting in a Extreme rating level. The invasive plants included cholla, with occasional yellow spine thistle, snakeweed, and acacia present; all of which are within the site expectations. As in the West Baldy pasture seedheads and tillering was evident with little to no use, reproductive capability appears to be limited only by precipitation.

The South Buchanan pastures production was at 36% of expectations, resulting in a Moderate to Extreme Rating for this attribute. Forb production and shrub production was relatively good. Invasive type plants include nolina, cholla, and yucca all found within the site description levels. The Reproductive Capability of Perennial Plants attribute rated as slight to moderate as seedheads, rhizomes and flowers on the shrubs were all noted. Plants appeared to be dormant at the time of the field evaluation, resulting in a rating of None to slight.

Production in the North Buchanan pasture was only 15% of drought expectations, resulting in a Extreme Rating, one which is a direct link to the low levels of precipitation received over the past several years. The grasses were reduced in the Functional/Structural Groups, enough to create a rating of Slight to Moderate. Overall plants appeared to be dormant, not decadent. Litter amounts were within the site expectations.

The Longhouse Pasture, while having a rating of Moderate to Extreme for plant production at 34% of what is expected during drought conditions, demonstrated a change in the Functional/Structural groups. Grasses had dropped off, and were being replaced by a strong invasion of cholla and catclaw. This in turn has influenced the Plant Community and Distribution Relative to Infiltration and Runoff, leading to a Moderate Rating. The reduction in the amount of grass plants had adversely impacted the sites ability to slow

and infiltrate any precipitation. Existing plants appear to be healthy while dormant. Reproductive material is evident, but does appear to be of last growing season. The number of cholla and creosote plants lead to a rating of Moderate to Extreme for this Attribute. A strong recommendation for a vegetation manipulation treatment could be made for this site. A mechanical or chemical treatment may not be economical, but a prescribed burn with repeated applications may help to reduce the number of invasive shrubs.

This allotment has suffered from the recent droughts, resulting in very low amounts of production. The reproductive capability of plants has been reduced, but plants, while not vigorous, are not dying. Reproductive material such as seed heads, stolons, rhizomes and flowerhead on shrubs were found in each of the pastures studied, but it appeared to be at least one growing season old. Utilization by livestock was not apparent, supported by the information that stocking levels have been reduced from light to none in the last year. Invasive plants are of concern in the Longhouse Pasture and should be monitored.

Hydrology - Pasture E Burns - 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. All other indicators rated as none to slight or slight to moderate. Limestone deposits of the San Andres Formation outcrop in the area.

Pasture Longhouse - 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 other indicators rated as none to slight or slight to moderate. Limestone deposits of the San Andres Formation outcrop in the area.

Pasture N Buchanan - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind scoured, blowouts, and/or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated as none to slight or slight to moderate. Limestone deposits of the San Andres Formation outcrop in the area.

Pasture S Buchanan - 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. All other indicators rated as none to slight or slight to moderate. Limestone deposits of the San Andres Formation outcrop in the area.

Pasture W Baldy - The rills, water flow patterns, pedestals and/or terracettes, bare ground, gullies, wind scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter

amount, and physical/chemical/biological crusts indicators have rated as none to slight or slight to moderate. Limestone 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 and 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 hills and drainages approximately 17 miles southwest of Roswell. Access for recreational purposes is somewhat limited due to land status patterns.

Specifically, annual production for two sites was in the extreme category. Using current monitoring data and field observations, annual production was 8% of potential for the East Burns pasture and 15% of potential of the North Buchanan pasture. Two other sites were rated at moderate to extreme. The South Buchanan was 36% of potential and the Longhouse pasture was 34% of potential. The lack of production and quality forage has a significant impact on wildlife populations. Several indicators fell within the Moderate category. All of which are reflected by continued drought conditions. All of these indicators will rebound over time with adequate precipitation patterns and proper grazing management that is in line with vegetative production levels.

There are no Threatened to Endangered species occurring within this area, therefore the indicator is rated as none to slight.

It is the opinion of the Assessment Team that the public lands within allotment 64061 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:

- Annual Production
- Invasive Plants

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

**Recommendations:** I would recommend monitoring the Longhouse pasture for the shrub component. Some kind of vegetation treatment might be considered for this area; prescribed burning and seasonal rest would probably be the most economical method.

## RFOs Upland and Biotic Standard Assessment Summary Worksheet

### SITE 64060-E BURNS-F242

Legal Land Desc	SWSE 19 0120S 0220E Meridian 23	Acreage	4533
Ecosite	042CY025NM SHALLOW SD-3	Photo Taken	Y
Watershed	13060008090 HONDO		
Observers	NAVARRO, MILLER	Observation Date	07/22/2004
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	Lt	Soil Taxon Name	LOZIER
Texture Class	NM666 GRV-L	Soil Phase	LOZIER- TENCEE
Texture Modifier	NM666 COBBLY LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	6.32	NOAA Growing Season Precipitation	4.24
NOAA Avg Annual Precipitation	11.68	NOAA Avg Growing Season Precipitation	9.61
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,					X

	and/or Deposition Areas					
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:	The shrub component has increased but is not out of line with the Function/Structural Group guidellines found in the Range site Description.					
B	Plant Mortality/Decadence				X	
Comments:	Low precipitation has been recieved here, but there has also been no utilization on plants. Plant mortality and decadence is within 20% of all plants or even less.					
H B	Litter Amount				X	
Comments:	Litter amount falls within expected range, low litter overall due to low amounts of production.					
B	Annual Production	X				
Comments:	Most recent production measurements are very low, due to low amounts of precipitation. This indicator should be monitored.					
B	Invasive Plants				X	
Comments:	Invasive plants such as cholla, occasional yellow spine thistle, snakeweed and acacia are present but are still within the acceptable range.					
B	Reproductive Capability of Perennial Plants				X	
Comments:	Reproduction has been limited by precipitation, seedhead and rhizomes are present, but are apparently from last growing season.					
S	Physical/Chemical/Biological Crusts				X	
Comments:						
B	Wildlife Habitat					
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	1	5	4
H	Hydrologic	0	0	1	6	4
B	Biotic	1	0	1	7	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	1	10
Biotic	Production and the resulting litter is low for this site, apparently due to low amounts of precipitation. These indicators should be monitored.	1	1	10

Site Notes:

## RFOs Upland and Biotic Standard Assessment Summary Worksheet

### SITE 64060-LONGHOUSE-F244

Legal Land Desc	NWSW 11 0120S 0210E Meridian 23	Acreage	1688
Ecosite	042CY025NM SHALLOW SD-3	Photo Taken	Y
Watershed	13060008090 HONDO		
Observers	NAVARRO, MILLER	Observation Date	07/22/2004
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	Lt	Soil Taxon Name	LOZIER
Texture Class	NM666 GRV-L	Soil Phase	LOZIER- TENCEE
Texture Modifier	NM666 COBBLY LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	6.32	NOAA Growing Season Precipitation	4.24
NOAA Avg Annual Precipitation	11.68	NOAA Avg Growing Season Precipitation	9.61
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					X

	Deposition Areas					
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:	A strong cholla and catclaw invasion here is outcompeting the grasses at this site. The situation is not continuous across the pasture.					
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups			X		
Comments:	The grass component at this site is low, shrub component is dominate, heavy cholla aspect.					
B	Plant Mortality/Decadence					X
Comments:	All of the plant present appear to be healthy.					
H B	Litter Amount					X
Comments:						
B	Annual Production		X			
Comments:	Annual overall production is at 34% of drought level. Utilization by livestock is not apparent.					
B	Invasive Plants		X			
Comments:	Cholla and creosote are present here, a treatment of some kind could be recommended on the cholla, however, it may not be economical due to the high cost of arch clearances for mechanical treatment. A prescribed burn may achieve the necessary result.					
B	Reproductive Capability of Perennial Plants				X	
Comments:	Reproduction is being limited by drought. Seedheads and rhizomes are present but are old, perhaps from two years ago.					
S	Physical/Chemical/Biological Crusts				X	
Comments:						
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	5	5
H	Hydrologic	0	0	1	5	5
B	Biotic	0	2	2	4	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	Drought influences in this area affected the biotic indicators. There appears to be an increase with the strong invasion of cholla, creosote and catclaw. The biotic Standard may be at risk if action is not taken in the near future to control the invasive plants.	2	2	9

Site Notes:

## RFOs Upland and Biotic Standard Assessment Summary Worksheet

### SITE 64060-N BUCHANAN-F243

Legal Land Desc	NWSW 14 0120S 0210E Meridian 23	Acreage	2678
Ecosite	042CY025NM SHALLOW SD-3	Photo Taken	Y
Watershed	13060008090 HONDO		
Observers	J. NAVARRO, H. MILLER	Observation Date	07/22/2004
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad	
Soil Map Unit	Lt	Soil Taxon Name	LOZIER
Texture Class	NM666 GRV-L	Soil Phase	LOZIER- TENCEE
Texture Modifier	NM666 COBBLY LOAM		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	6.32	NOAA Growing Season Precipitation	4.24
NOAA Avg Annual Precipitation	11.68	NOAA Avg Growing Season Precipitation	9.61
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:						
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:	Grasses are reduced, due to drought.					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:	Litter amounts here actually exceed the expected amount slightly.					
B	Annual Production	X				
Comments:	Production on all vegetation reached 15 % of expected levels. Seed heads and tillers were present but are evidently from at least 2 years ago. No grazing is apparent.					
B	Invasive Plants				X	
Comments:	Some cholla and prickly pear present here.					
B	Reproductive Capability of Perennial Plants				X	
Comments:	Reproduction is being limited by drought conditions.					
S	Physical/Chemical/Biological Crusts				X	
Comments:						
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	5	5
H	Hydrologic	0	0	0	7	4
B	Biotic	1	0	0	7	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	0	12

Site Notes:

## RFOs Upland and Biotic Standard Assessment Summary Worksheet

### SITE 64060-S BUCHANAN-F240

Legal Land Desc	NWSE 26 0120S 0210E Meridian 23	Acreage	2456
Ecosite	042CY025NM SHALLOW SD-3	Photo Taken	Y
Watershed	13060008090 HONDO		
Observers	NAVARRO, MILLER	Observation Date	07/22/2004
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	6.32	NOAA Growing Season Precipitation	4.24
NOAA Avg Annual Precipitation	11.68	NOAA Avg Growing Season Precipitation	9.61
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,					X

	and/or Deposition Areas					
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:	High level of Rock cover					
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:	Good mix of plant species, but shrubs have increased over time at this site.					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production		X			
Comments:	Production is at 36% of drought level production. This low amount is due to low precipitation. Forb production consistent with years past, but shrubs and trees are up in the production level.					
B	Invasive Plants					X
Comments:	Nolina, cholla and yucca are present but are at levels consistent with the site description.					
B	Reproductive Capability of Perennial Plants				X	
Comments:	The reproductive capability of the perennial plants has been affected by the drought, but there are more seedheads, rhizomes and flower head on shrubs present than expected at this time of year. They appear to be at least a year old.					
S	Physical/Chemical/Biological Crusts				X	
Comments:	Very rocky soils, with very little soils exposed.					
B	Wildlife Habitat					
Comments:						
B	Wildlife Populations				X	
Comments:						

B	Special Status Species Habitat					X
Comments:						
B	Special Status Species Populations					X
Comments:						
<b>Part 3. Summary</b>						
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	1	6	4
B	Biotic	0	1	2	4	5
B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the <i>Does not Meet</i> column, Moderate becomes <i>May Need More Info</i> , and Slight to Moderate and None to Slight merge to form the <i>Meets</i> 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	1	10		
Biotic		1	2	9		
Site Notes:						

## RFOs Upland and Biotic Standard Assessment Summary Worksheet

### SITE 64060-W BALDY-F241

Legal Land Desc	NESW 9 0120S 0210E Meridian 23	Acreage	4278
Ecosite	070DY158NM VERY SHALLOW CP-4	Photo Taken	Y
Watershed	13060008090 HONDO		
Observers	NAVARRO, MILLER	Observation Date	07/22/2004
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	6.32	NOAA Growing Season Precipitation	4.24
NOAA Avg Annual Precipitation	11.68	NOAA Avg Growing Season Precipitation	9.61
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
Comments:						
S H	Water Flow Patterns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Comments:						
S H	Pedestals and/or Terracettes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
Comments:						
S H	Bare Ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Comments:						
S H	Gullies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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:	Good mix of plants and plant types.					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:	Production here is higher than expected given the drought conditions.					
B	Invasive Plants					X
Comments:	Some prickly pear and nolina, well within the range site guidelines.					
B	Reproductive Capability of Perennial Plants				X	
Comments:	Reproduction has been limited by precipitation, but seedhead and tillering is present.					
S	Physical/Chemical/Biological Crusts				X	
Comments:						
B	Wildlife Habitat					
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.

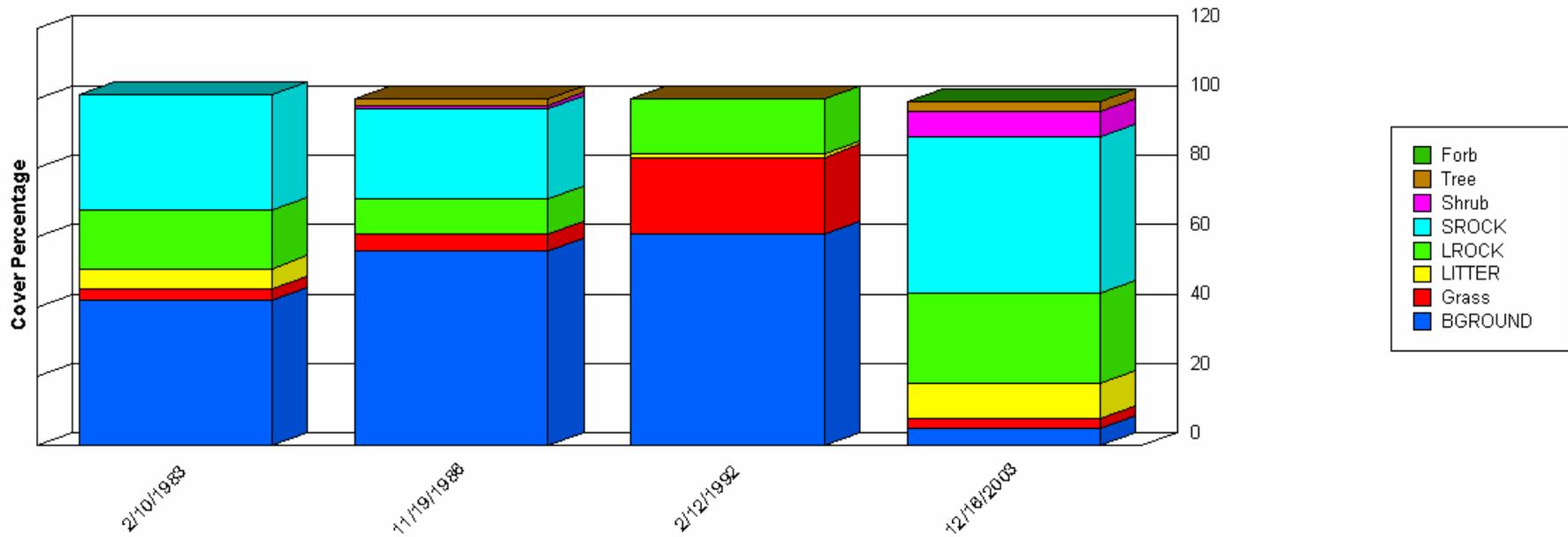
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	4	6
H	Hydrologic	0	0	0	5	6
B	Biotic	0	0	1	4	7

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	0	10
Hydrologic		0	0	11
Biotic		0	1	11

Site Notes:

# Ground Cover Trends



	2/10/1983	11/19/1986	2/12/1992	12/16/2003
BGROUND	42.00	56.00	61.00	5.00
Forb	0.00	0.00	0.00	0.00
Grass	3.00	5.00	22.00	3.00
LITTER	6.00	0.00	1.00	10.00
LROCK	17.00	10.00	16.00	26.00
Shrub	0.00	1.00	0.00	7.00
SROCK	33.00	26.00	0.00	45.00

	2/10/1983	11/19/1986	2/12/1992	12/16/2003
Tree	0.00	2.00	0.00	3.00
Total	101.00	100.00	100.00	99.00

### Report Parameters

SITE NAME LIKE           64061-E BURNS-F242  
ON/AFTER                 10/01/1982  
ON/BEFORE                09/30/2004

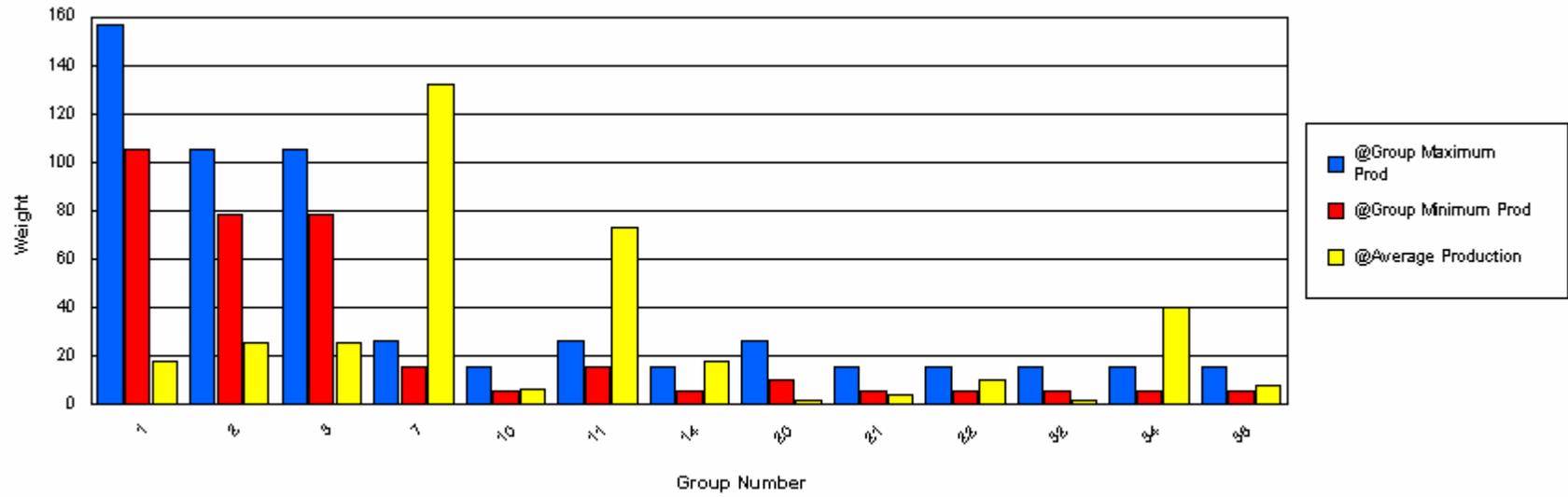
# Functional / Structural Groups

## Report Parameters

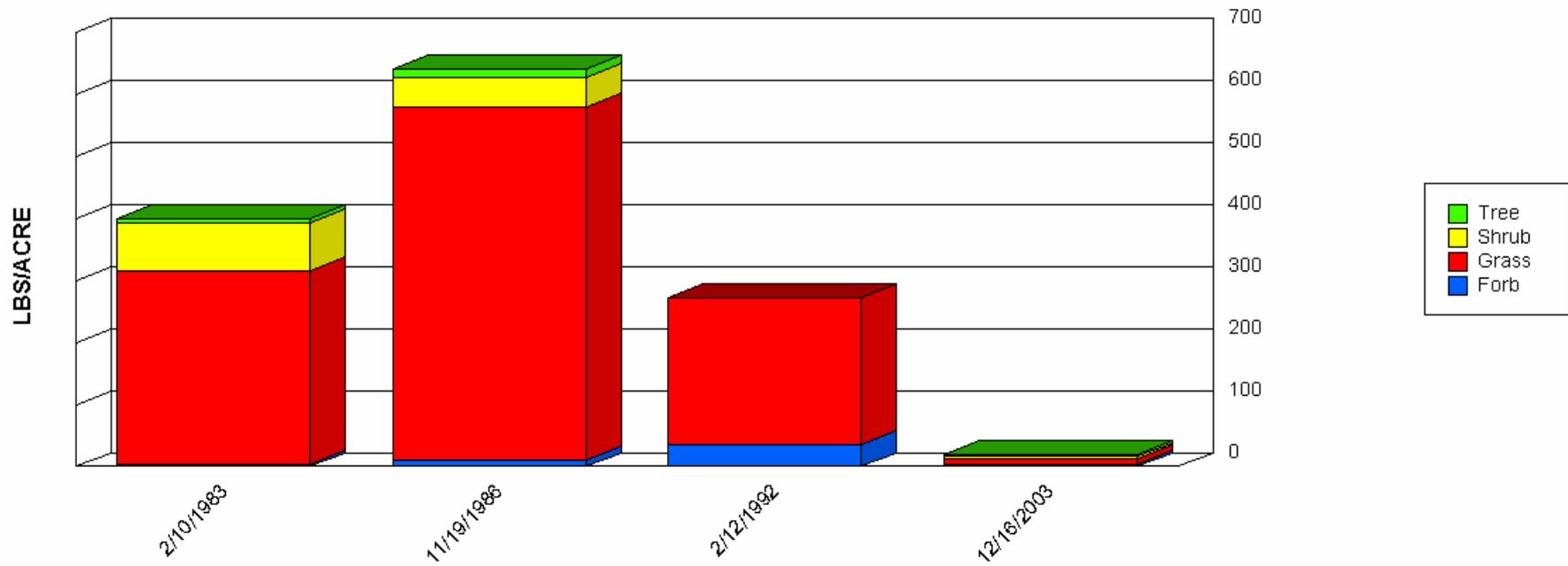
SITE NAME LIKE 64061-E BURNS-F242  
 ON/AFTER 10/01/1982  
 ON/BEFORE 09/30/2004  
 MIN LBS TO GRAPH 1  
 SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	2.55	31.00	17.93	11.04
2	Grass	BOCU	78	105	0.00	72.90	24.98	28.27
3	Grass	BOGR2	78	105	1.86	53.76	25.43	19.56
6	Grass	SPCR	26	52	0.00	0.62	0.38	0.27
7	Grass	TRMU	15	26	0.30	224.47	105.78	90.87
7	Grass	TRPI2	15	26	0.00	43.41	26.14	18.80
8	Grass	MUAR	5	15	0.00	1.05	0.53	0.53
10	Grass	ERPU8	5	15	0.00	14.67	6.49	6.11
11	Grass	ARIST	15	26	0.00	66.88	31.97	30.21
11	Grass	HIMU2	15	26	1.42	75.60	23.92	30.07
11	Grass	MUAR2	15	26	0.00	26.33	10.11	11.59
11	Grass	SCBR2	15	26	0.30	18.99	6.99	7.37
14	Grass	BUDA	5	15	0.00	2.67	1.33	1.33
14	Grass	CHVE2	5	15	0.00	12.96	6.48	6.48
14	Grass	LYPH	5	15	0.00	12.67	6.33	6.33
14	Grass	SCHED	5	15	0.00	6.48	3.24	3.24
20	Forb	ERIOG	10	26	0.00	4.20	1.55	1.88
21	Forb	AAFF	5	15	1.14	6.72	3.93	2.79
21	Forb	DALEA2	5	15	0.00	0.23	0.08	0.11
22	Forb	ALLIU	5	15	0.00	0.23	0.08	0.11
22	Forb	ERTE13	5	15	0.00	36.00	9.45	15.34
22	Forb	MELE2	5	15	0.00	0.23	0.08	0.11
22	Forb	SELO	5	15	0.00	1.08	0.36	0.51
32	Shrub	OPUNT	5	15	0.00	4.99	1.66	2.35
34	Shrub	GUSA2	5	15	0.48	70.52	39.66	29.19
36	Tree	ACGR	5	15	2.67	13.43	7.90	4.40

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



# Production Lbs/Acre Trends

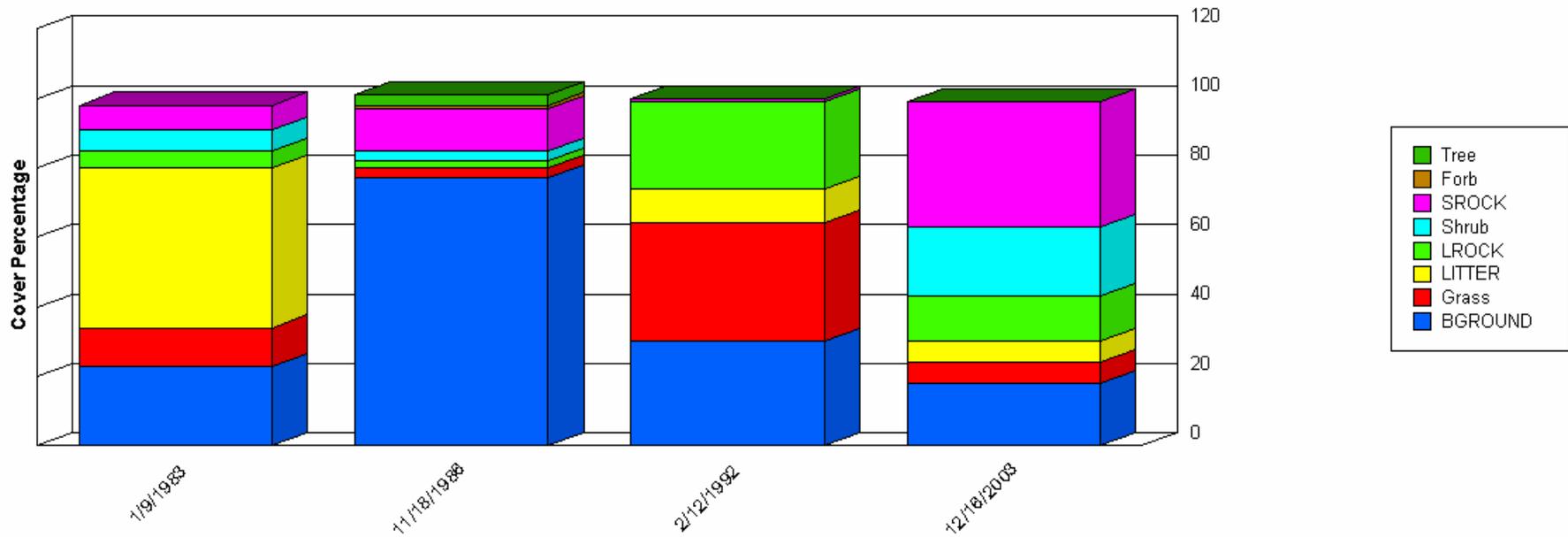


	2/10/1983	11/19/1986	2/12/1992	12/16/2003
Forb	3.00	11.00	36.00	2.77
Grass	313.00	569.00	235.00	10.07
Shrub	76.00	48.00	0.00	3.06
Tree	8.00	13.00	0.00	2.67
Total	400.00	641.00	271.00	18.57

## Report Parameters

SITE NAME LIKE            64061-E BURNS-F242  
 ON/AFTER                    10/01/1982  
 ON/BEFORE                 09/30/2004

# Ground Cover Trends



	1/9/1983	11/18/1986	2/12/1992	12/16/2003
BGROUND	23.00	77.00	30.00	18.00
Forb	0.00	1.00	0.00	0.00
Grass	11.00	3.00	34.00	6.00
LITTER	46.00	0.00	10.00	6.00
LROCK	5.00	2.00	25.00	13.00
Shrub	6.00	3.00	0.00	20.00
SROCK	7.00	12.00	1.00	36.00

	1/9/1983	11/18/1986	2/12/1992	12/16/2003
Tree	0.00	3.00	0.00	0.00
Total	98.00	101.00	100.00	99.00

### Report Parameters

SITE NAME LIKE           64061-LONGHOUSE-F244  
ON/AFTER                 10/01/1982  
ON/BEFORE                09/30/2004

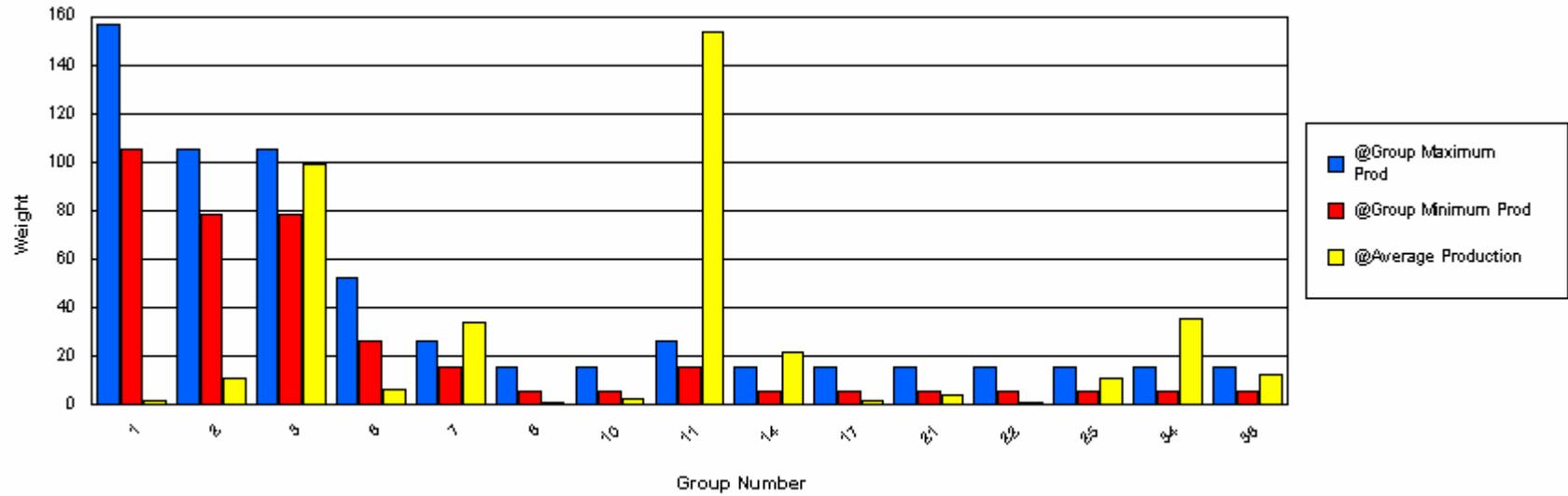
# Functional / Structural Groups

## Report Parameters

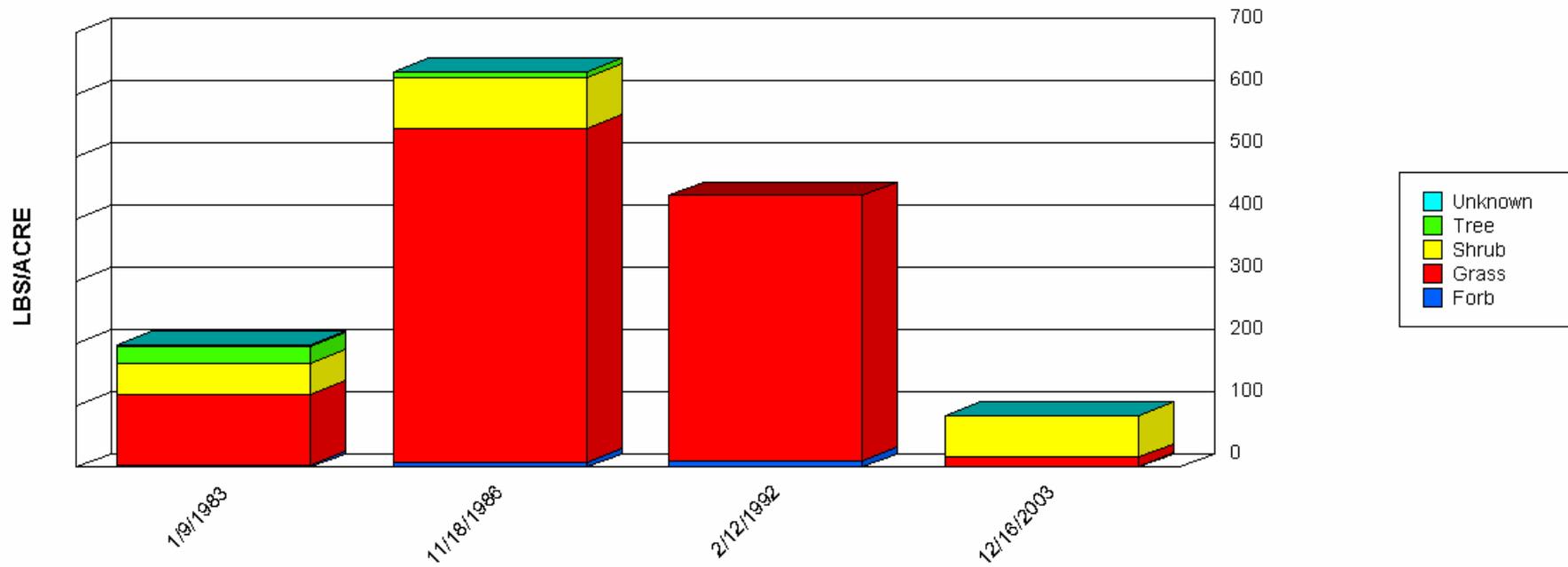
SITE NAME LIKE 64061-LONGHOUSE-F244  
 ON/AFTER 10/01/1982  
 ON/BEFORE 09/30/2004  
 MIN LBS TO GRAPH 1  
 SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	0.00	3.07	1.52	1.52
2	Grass	BOCU	78	105	1.27	25.00	10.62	9.56
3	Grass	BOGR2	78	105	8.06	222.00	99.14	84.77
6	Grass	SPCR	26	52	0.00	11.06	6.40	4.63
7	Grass	TRMU	15	26	0.00	58.08	17.07	23.93
7	Grass	TRPI2	15	26	0.00	25.00	17.11	10.11
8	Grass	MUAR	5	15	0.00	2.63	1.08	1.13
10	Grass	ERPU8	5	15	0.96	2.67	2.10	0.80
11	Grass	ARIST	15	26	0.00	86.00	55.69	39.43
11	Grass	HIMU2	15	26	1.70	43.20	23.64	14.80
11	Grass	MUAR2	15	26	0.00	41.85	20.93	20.93
11	Grass	PAOB	15	26	0.00	93.00	46.50	46.50
11	Grass	SCBR2	15	26	1.48	12.73	7.11	5.62
14	Grass	BUDA	5	15	0.00	4.67	2.33	2.33
14	Grass	CHVE2	5	15	0.00	2.70	1.35	1.35
14	Grass	ERLE	5	15	0.00	4.00	2.37	1.72
14	Grass	LYPH	5	15	0.00	14.19	7.09	7.09
14	Grass	PAHA	5	15	0.00	22.00	8.37	8.96
17	Forb	SPCO	5	15	0.00	0.23	0.08	0.11
17	Forb	SPHAE	5	15	0.00	2.52	1.26	1.26
20	Forb	VERBE	10	26	0.00	2.95	0.98	1.39
21	Forb	AAFF	5	15	0.00	10.00	3.56	4.00
21	Unknown	BERLA	5	15	0.00	1.13	0.38	0.53
22	Forb	ARLU	5	15	0.00	1.68	0.84	0.84
22	Forb	ERTE13	5	15	0.00	0.91	0.30	0.43
25	Shrub	LADI2	5	15	0.00	15.91	10.57	7.48

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
32	Shrub	OPUNT	5	15	0.00	0.13	0.07	0.07
34	Shrub	GUSA2	5	15	4.56	68.44	35.23	26.14
36	Tree	ACGR	5	15	0.00	27.60	12.23	11.48



# Production Lbs/Acre Trends

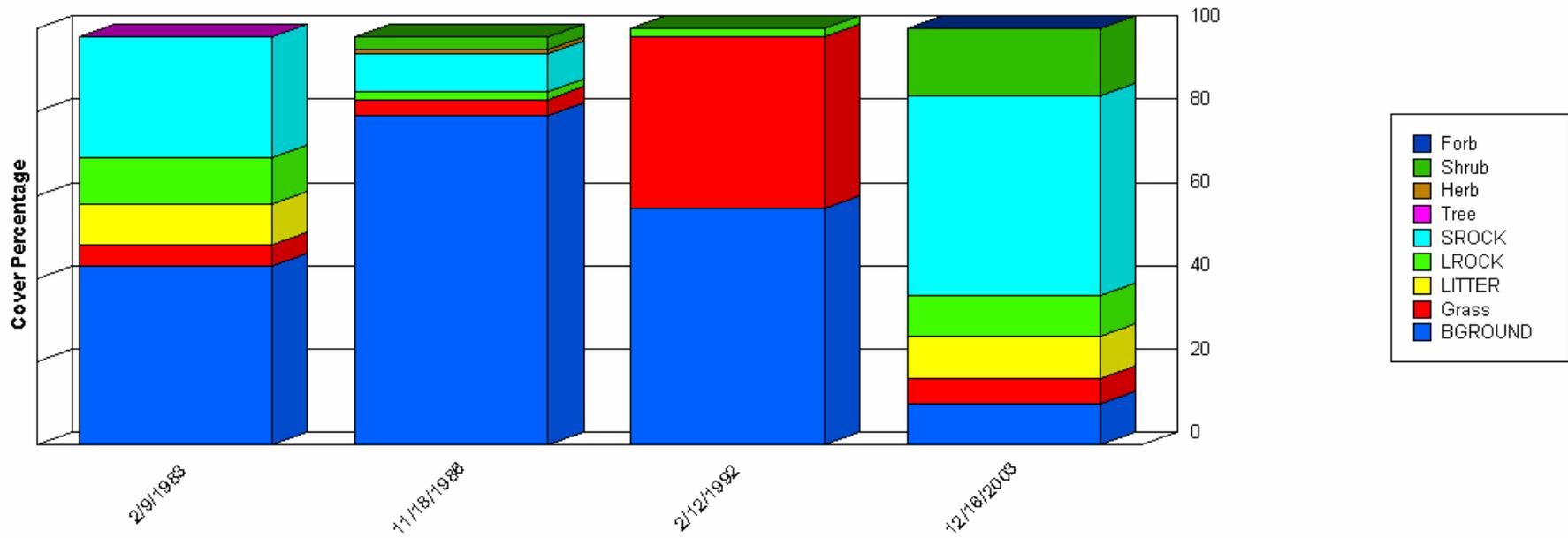


	1/9/1983	11/18/1986	2/12/1992	12/16/2003
Forb	4.00	9.00	10.00	0.39
Grass	114.00	535.00	427.00	15.49
Shrub	49.00	84.00	0.00	67.98
Tree	28.00	9.00	0.00	0.00
Unknown	1.00	0.00	0.00	0.00
<b>Total</b>	<b>196.00</b>	<b>637.00</b>	<b>437.00</b>	<b>83.86</b>

**Report Parameters**

SITE NAME LIKE	64061-LONGHOUSE-F244
ON/AFTER	10/01/1982
ON/BEFORE	09/30/2004

# Ground Cover Trends



	2/9/1983	11/18/1986	2/12/1992	12/16/2003
BGROUND	43.00	79.00	57.00	10.00
Forb	0.00	0.00	0.00	0.00
Grass	5.00	4.00	41.00	6.00
Herb	0.00	1.00	0.00	0.00
LITTER	10.00	0.00	0.00	10.00
LROCK	11.00	2.00	2.00	10.00
Shrub	0.00	3.00	0.00	16.00

	2/9/1983	11/18/1986	2/12/1992	12/16/2003
SROCK	29.00	9.00	0.00	48.00
Tree	0.00	0.00	0.00	0.00
Total	98.00	98.00	100.00	100.00

**Report Parameters**

SITE NAME LIKE           64061-N BUCHANAN-F243  
ON/AFTER                 10/01/1982  
ON/BEFORE                09/30/2004

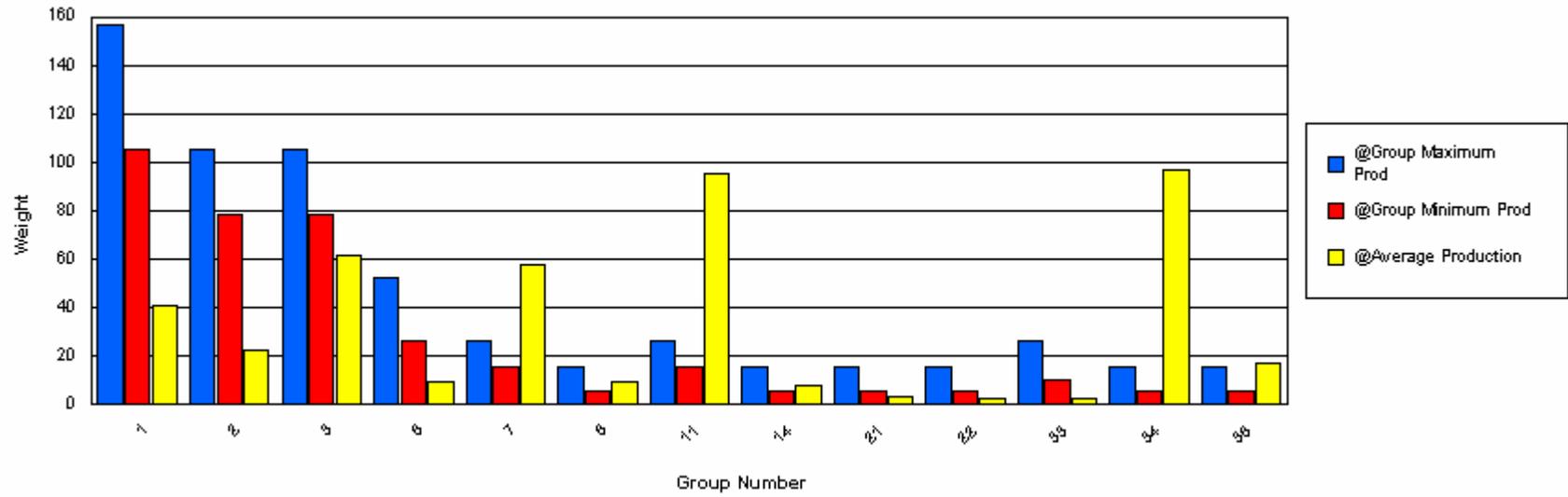
# Functional / Structural Groups

## Report Parameters

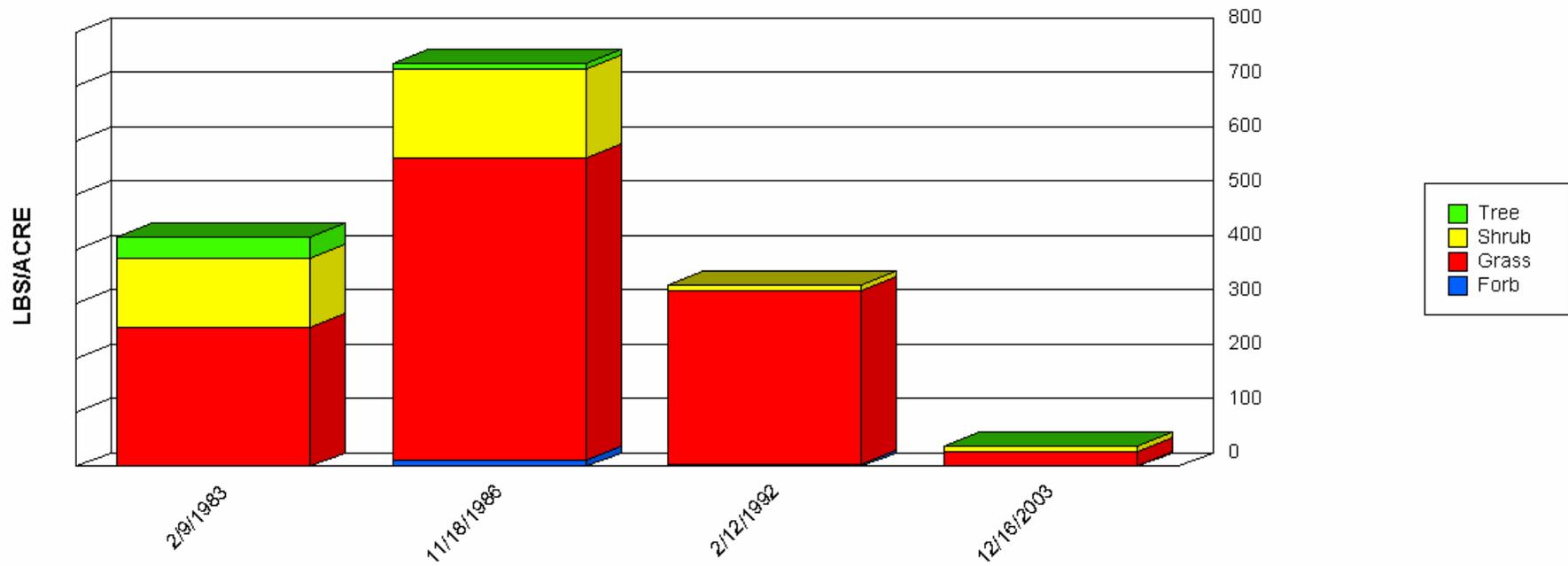
SITE NAME LIKE 64061-N BUCHANAN-F243  
 ON/AFTER 10/01/1982  
 ON/BEFORE 09/30/2004  
 MIN LBS TO GRAPH 1  
 SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	1.70	76.41	40.66	29.28
2	Grass	BOCU	78	105	0.32	56.16	22.12	21.10
3	Grass	BOGR2	78	105	0.62	105.60	60.87	45.82
3	Grass	BOHI2	78	105	0.00	0.62	0.21	0.29
6	Grass	SPCR	26	52	0.00	18.43	9.49	6.55
7	Grass	TRMU	15	26	2.12	95.63	45.71	42.51
7	Grass	TRPI2	15	26	0.00	21.12	11.71	8.77
8	Grass	MUAR	5	15	0.00	26.00	9.54	11.69
10	Grass	ERPU8	5	15	0.00	2.00	0.67	0.94
11	Grass	ARIST	15	26	0.00	25.33	10.67	9.23
11	Grass	HIMU2	15	26	13.32	65.88	35.97	21.48
11	Grass	MUAR2	15	26	0.00	58.48	32.16	24.23
11	Grass	SCBR2	15	26	1.48	24.00	16.19	9.04
14	Grass	CHVE2	5	15	0.00	5.40	2.70	2.70
14	Grass	LYPH	5	15	0.00	8.49	3.51	3.62
14	Grass	PAHA	5	15	0.00	4.00	1.85	1.65
20	Forb	CROTO	10	26	0.00	0.41	0.22	0.17
21	Forb	AAFF	5	15	0.19	7.56	2.73	3.42
22	Forb	ARLU	5	15	0.00	2.10	1.05	1.05
22	Forb	ERTE13	5	15	0.00	4.00	1.06	1.70
22	Forb	PENA	5	15	0.00	0.84	0.42	0.42
32	Shrub	OPUNT	5	15	0.00	1.13	0.40	0.52
33	Shrub	PAIN2	10	26	0.43	4.00	2.09	1.47
34	Shrub	GUSA2	5	15	2.64	162.84	96.44	68.21
36	Tree	ACGR	5	15	0.67	38.00	16.93	15.61

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



# Production Lbs/Acre Trends

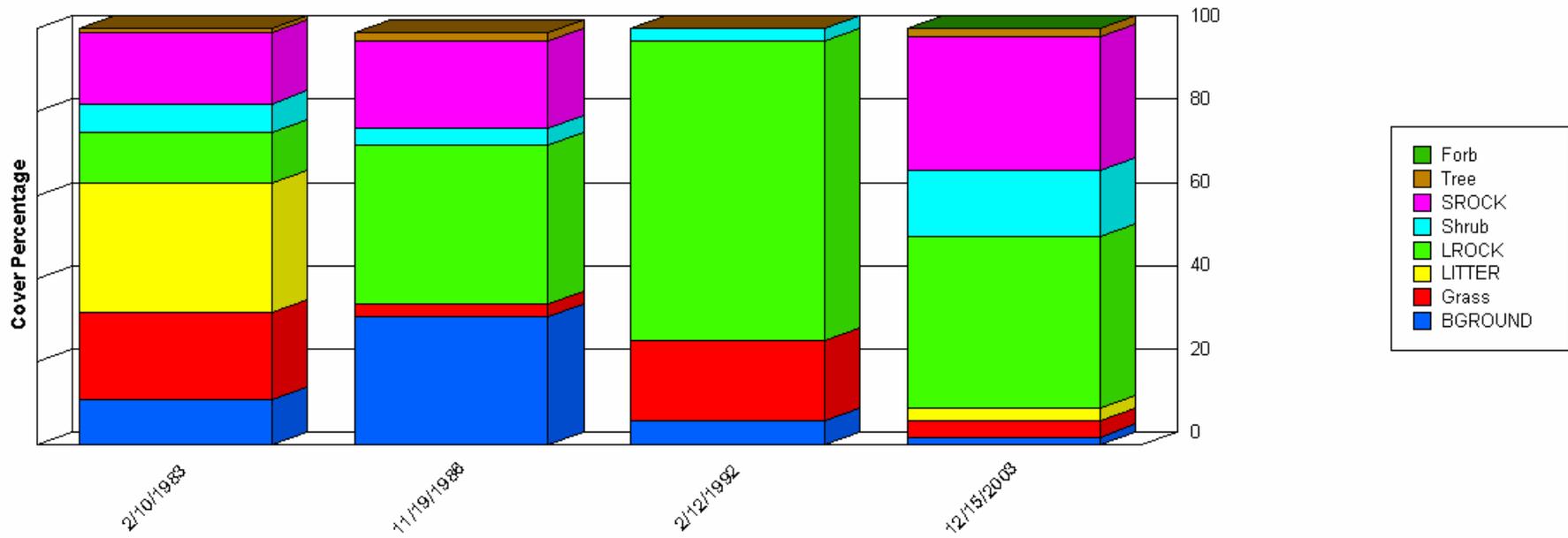


	2/9/1983	11/18/1986	2/12/1992	12/16/2003
Forb	0.00	11.00	4.00	1.98
Grass	255.00	557.00	319.00	24.16
Shrub	129.00	163.00	10.00	10.73
Tree	38.00	12.00	0.00	0.67
<b>Total</b>	<b>422.00</b>	<b>743.00</b>	<b>333.00</b>	<b>37.54</b>

## Report Parameters

SITE NAME LIKE            64061-N BUCHANAN-F243  
 ON/AFTER                    10/01/1982  
 ON/BEFORE                 09/30/2004

# Ground Cover Trends



	2/10/1983	11/19/1986	2/12/1992	12/15/2003
BGROUND	11.00	31.00	6.00	2.00
Forb	0.00	0.00	0.00	0.00
Grass	21.00	3.00	19.00	4.00
LITTER	31.00	0.00	0.00	3.00
LROCK	12.00	38.00	72.00	41.00
Shrub	7.00	4.00	3.00	16.00
SROCK	17.00	21.00	0.00	32.00

	2/10/1983	11/19/1986	2/12/1992	12/15/2003
Tree	1.00	2.00	0.00	2.00
Total	100.00	99.00	100.00	100.00

### Report Parameters

SITE NAME LIKE           64061-S BUCHANAN-F240  
ON/AFTER                 10/01/1982  
ON/BEFORE               09/30/2004

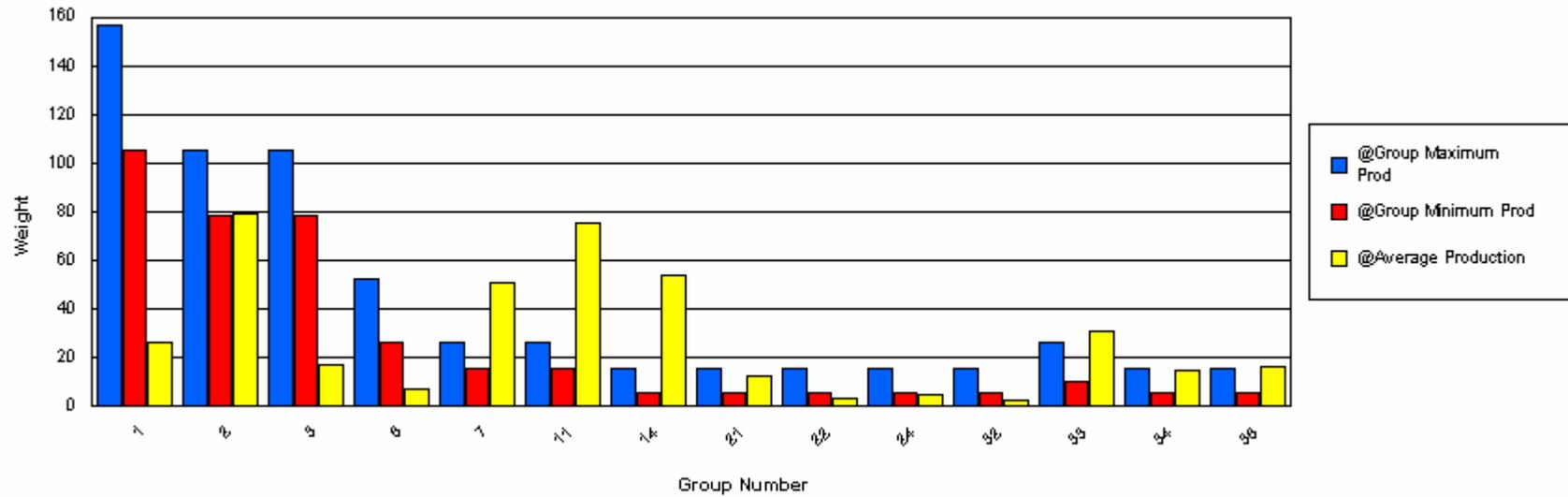
# Functional / Structural Groups

## Report Parameters

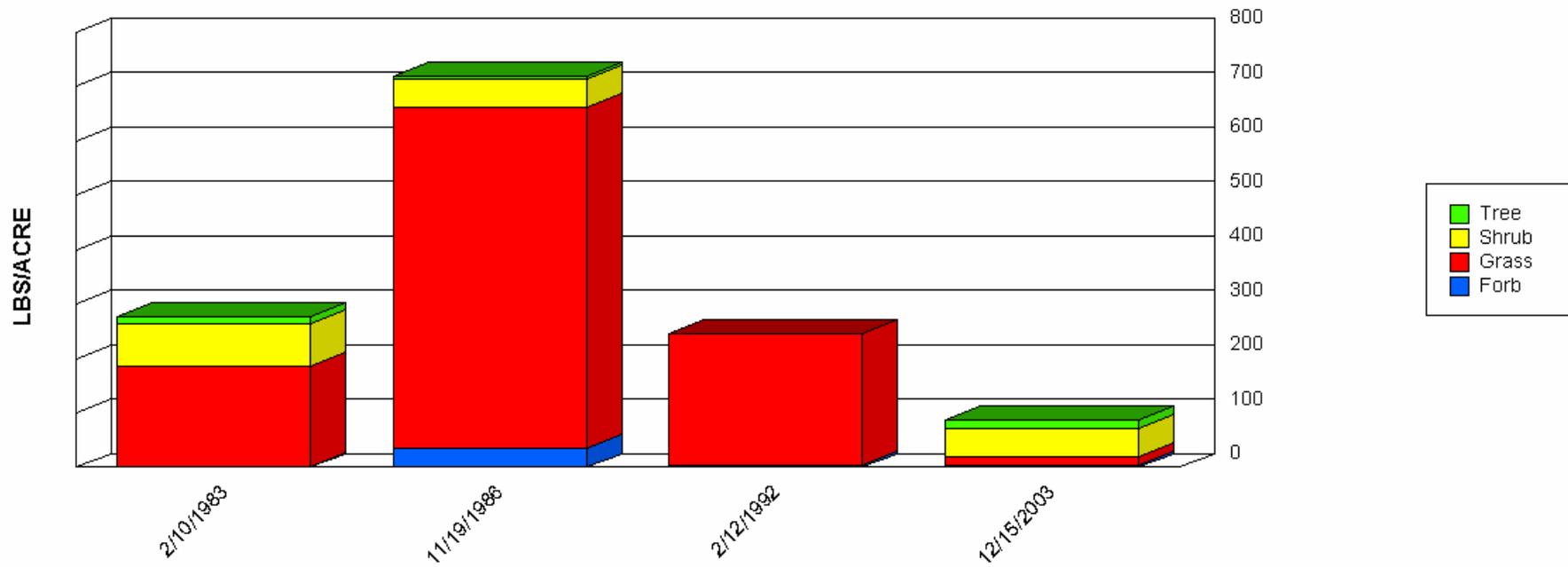
SITE NAME LIKE 64061-S BUCHANAN-F240  
 ON/AFTER 10/01/1982  
 ON/BEFORE 09/30/2004  
 MIN LBS TO GRAPH 1  
 SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	1.42	40.88	26.22	15.15
2	Grass	BOCU	78	105	1.58	183.60	78.80	67.47
3	Grass	BOGR2	78	105	0.00	9.39	3.23	4.35
3	Grass	BOHI2	78	105	0.00	40.04	13.48	16.00
6	Grass	SPCR	26	52	0.00	12.64	7.11	5.28
7	Grass	TRMU	15	26	3.64	83.31	30.80	37.13
7	Grass	TRPI2	15	26	0.00	38.00	20.25	14.04
11	Grass	ARIST	15	26	0.00	56.75	30.10	25.96
11	Grass	HIMU2	15	26	4.82	75.60	40.21	35.39
11	Grass	MUAR2	15	26	0.00	9.48	4.74	4.74
14	Grass	CHVE2	5	15	0.00	39.96	19.98	19.98
14	Grass	LECO	5	15	0.00	3.16	1.58	1.58
14	Grass	LEDU	5	15	0.00	7.52	2.51	3.54
14	Grass	LYPH	5	15	0.00	48.64	19.42	18.30
14	Grass	PAHA	5	15	0.48	32.00	10.38	12.60
20	Forb	CROTO	10	26	0.00	0.83	0.51	0.36
20	Shrub	ERWR	10	26	0.00	0.26	0.09	0.12
21	Forb	AAFF	5	15	0.68	12.60	4.61	4.79
21	Forb	AMDU	5	15	0.00	0.23	0.08	0.11
21	Forb	MENTZ	5	15	0.00	15.17	7.58	7.58
21	Forb	PARON	5	15	0.00	0.23	0.08	0.11
22	Forb	ERTE13	5	15	0.00	0.25	0.08	0.12
22	Forb	SELO	5	15	0.00	6.30	3.15	3.15
24	Shrub	RHMI3	5	15	0.00	11.73	3.91	5.53
24	Shrub	RHUS+	5	15	0.00	0.67	0.33	0.33
32	Shrub	OPUNT	5	15	0.00	5.44	2.06	2.41

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
33	Shrub	PAIN2	10	26	18.50	48.97	30.62	13.20
34	Shrub	GUSA2	5	15	0.00	38.41	14.56	17.00
36	Tree	ACGR	5	15	7.37	16.00	11.79	3.53
36	Shrub	DAFO	5	15	0.53	7.54	3.86	2.87
36	Shrub	NOLIN	5	15	0.00	0.27	0.13	0.13



# Production Lbs/Acre Trends

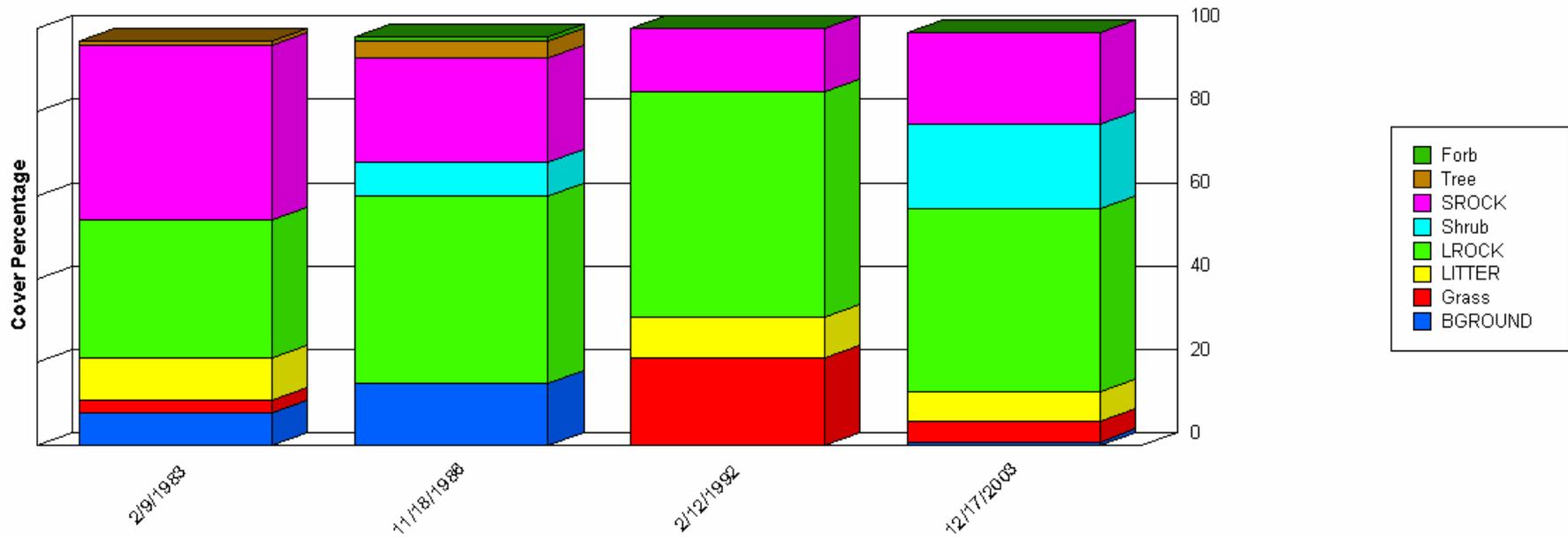


	2/10/1983	11/19/1986	2/12/1992	12/15/2003
Forb	2.00	34.00	4.00	3.61
Grass	184.00	627.00	241.00	16.82
Shrub	78.00	52.00	0.00	51.86
Tree	12.00	7.00	0.00	16.00
Total	276.00	720.00	245.00	88.29

## Report Parameters

SITE NAME LIKE            64061-S BUCHANAN-F240  
 ON/AFTER                    10/01/1982  
 ON/BEFORE                 09/30/2004

# Ground Cover Trends



	2/9/1983	11/18/1986	2/12/1992	12/17/2003
BGROUND	8.00	15.00	0.00	1.00
Forb	0.00	1.00	0.00	0.00
Grass	3.00	0.00	21.00	5.00
LITTER	10.00	0.00	10.00	7.00
LROCK	33.00	45.00	54.00	44.00
Shrub	0.00	8.00	0.00	20.00
SROCK	42.00	25.00	15.00	22.00
Tree	0.00	0.00	0.00	0.00

	2/9/1983	11/18/1986	2/12/1992	12/17/2003
Tree	1.00	4.00	0.00	0.00
Total	97.00	98.00	100.00	99.00

### Report Parameters

SITE NAME LIKE           64061-W BALDY-F241  
ON/AFTER                 10/01/1982  
ON/BEFORE                09/30/2004

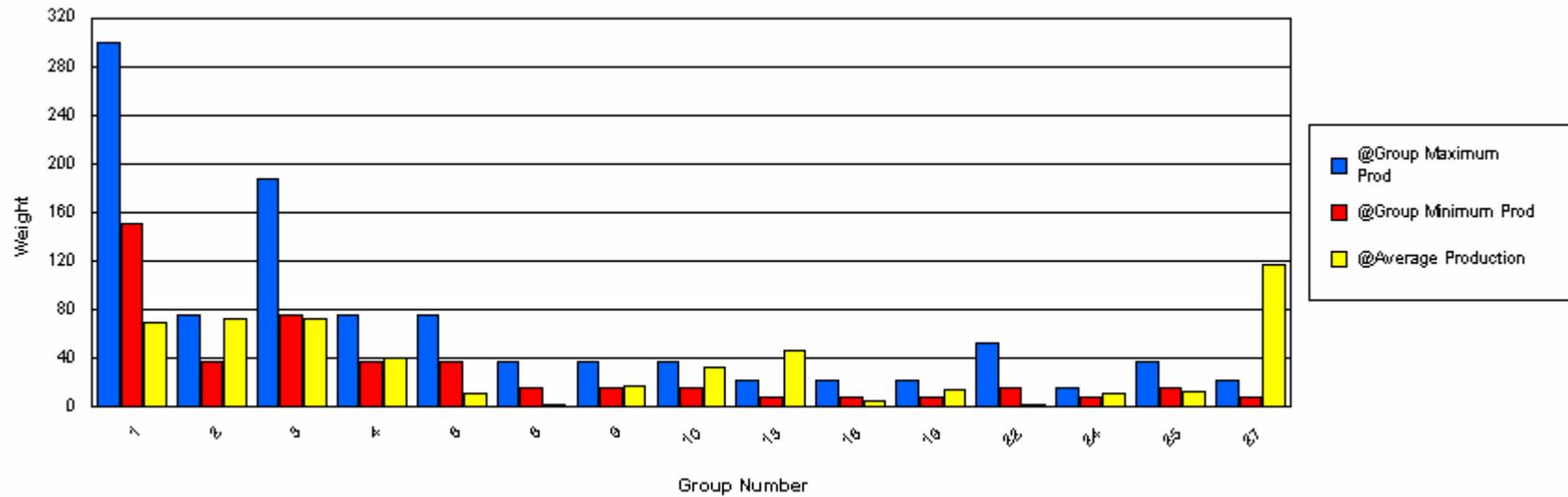
# Functional / Structural Groups

## Report Parameters

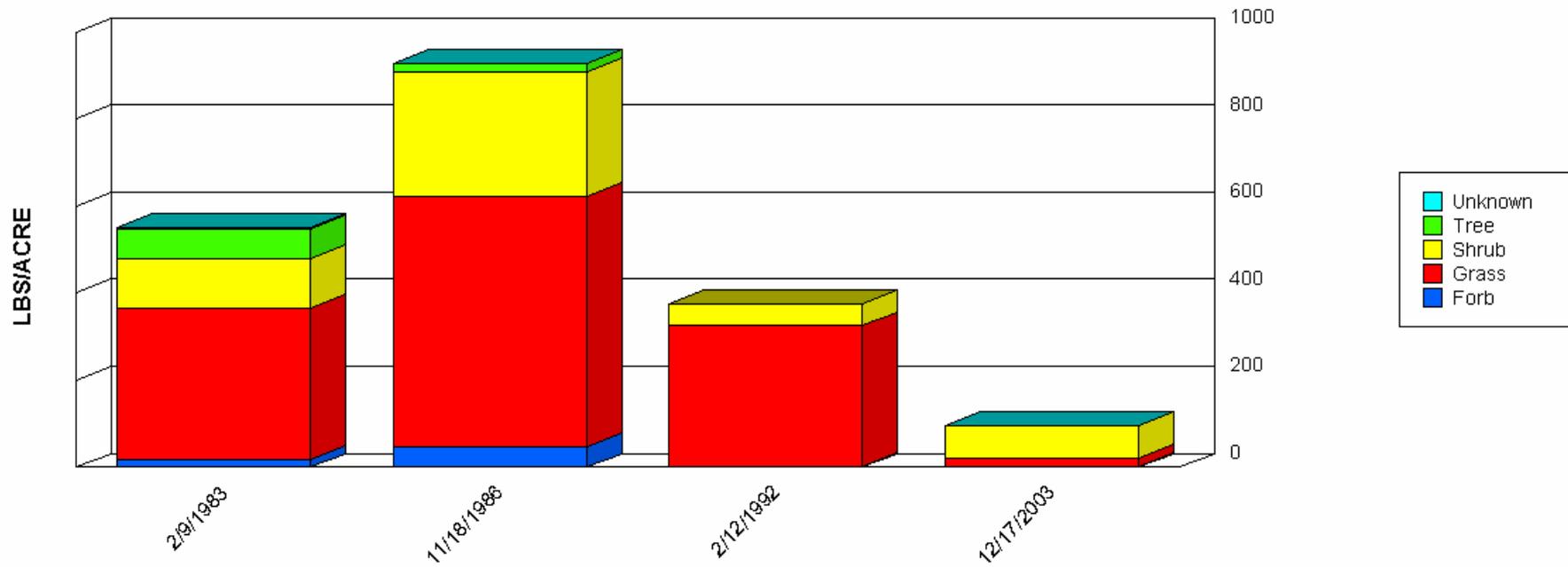
SITE NAME LIKE 64061-W BALDY-F241  
 ON/AFTER 10/01/1982  
 ON/BEFORE 09/30/2004  
 MIN LBS TO GRAPH 1  
 SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	2.83	117.29	68.79	41.65
2	Grass	BOCU	37	75	2.85	124.80	72.29	45.00
3	Grass	TRMU	75	187	6.07	97.39	51.67	37.28
3	Grass	TRPI2	75	187	0.00	57.00	20.96	25.60
4	Grass	BOGR2	37	75	1.24	77.76	27.31	35.68
4	Grass	SPCR	37	75	0.00	19.22	12.73	9.00
5	Grass	SCBR2	37	75	0.00	0.55	0.28	0.28
6	Grass	ARIST	37	75	0.00	17.23	10.64	6.69
8	Grass	LYPH	15	37	0.00	2.43	1.15	1.00
9	Grass	PAHA	15	37	0.00	42.00	17.04	16.16
10	Grass	BOHI2	15	37	0.00	4.25	1.83	1.78
10	Grass	HIMU2	15	37	3.97	53.00	25.78	18.81
10	Grass	LEDU	15	37	0.00	3.13	1.15	1.41
10	Grass	SIHY	15	37	0.00	6.59	3.29	3.29
13	Grass	CHVE2	7	22	0.00	42.66	21.33	21.33
13	Grass	LECO	7	22	0.00	3.44	1.15	1.62
13	Grass	MUMO2	7	22	0.00	37.80	13.61	17.15
13	Grass	PAOB	7	22	0.00	20.00	10.00	10.00
14	Forb	ERIOG	15	37	0.00	1.26	0.80	0.57
15	Forb	SELO	7	37	0.00	2.16	0.72	1.02
17	Forb	DYPA	7	22	0.00	0.23	0.08	0.11
17	Forb	SPHAE	7	22	0.00	1.68	0.84	0.84
18	Forb	AAFF	7	22	0.38	11.76	3.80	4.64
18	Forb	ABUTI	7	22	0.00	0.91	0.30	0.43
18	Unknown	BERLA	7	22	0.00	1.59	0.53	0.75
19	Forb	ALLIU	7	22	0.00	0.23	0.08	0.11

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
19	Forb	ARLU	7	22	0.00	31.50	14.22	13.04
22	Shrub	NOMI	15	52	0.00	3.41	1.14	1.61
23	Shrub	YUBA	15	37	0.33	0.67	0.50	0.17
24	Shrub	OPUNT	7	15	0.00	31.51	10.79	14.65
25	Shrub	GUSA2	15	37	2.64	23.51	12.12	8.62
27	Tree	ACGR	7	22	0.00	70.00	29.54	29.60
27	Shrub	PAIN2	7	22	10.00	271.70	87.08	107.96



# Production Lbs/Acre Trends



	2/9/1983	11/18/1986	2/12/1992	12/17/2003
Forb	17.00	47.00	1.00	2.24
Grass	349.00	577.00	324.00	19.43
Shrub	113.00	284.00	50.00	74.31
Tree	70.00	19.00	0.00	0.00
Unknown	2.00	0.00	0.00	0.00
<b>Total</b>	<b>551.00</b>	<b>927.00</b>	<b>375.00</b>	<b>95.98</b>

**Report Parameters**

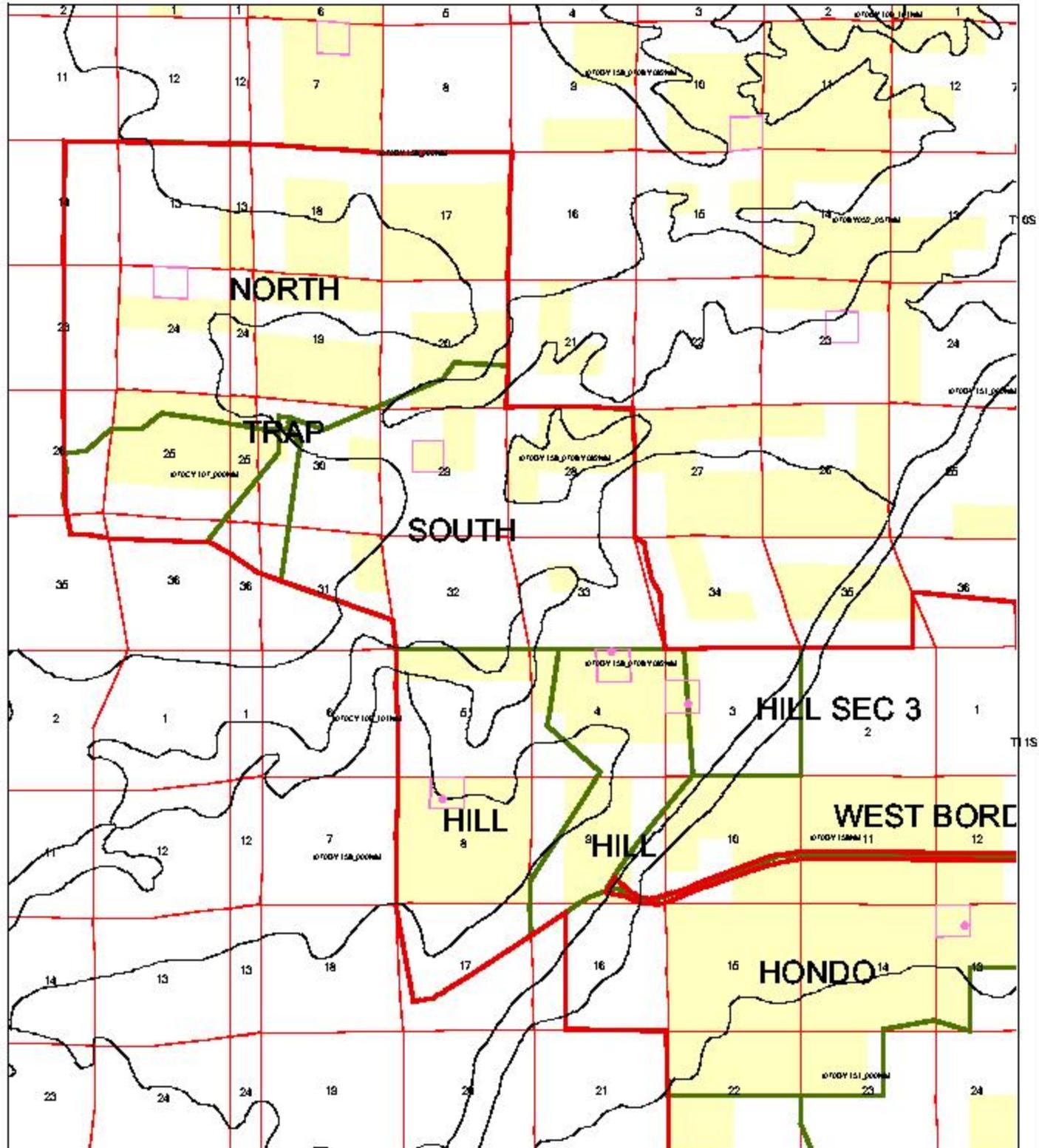
SITE NAME LIKE	64061-W BALDY-F241
ON/AFTER	10/01/1982
ON/BEFORE	09/30/2004



# 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.

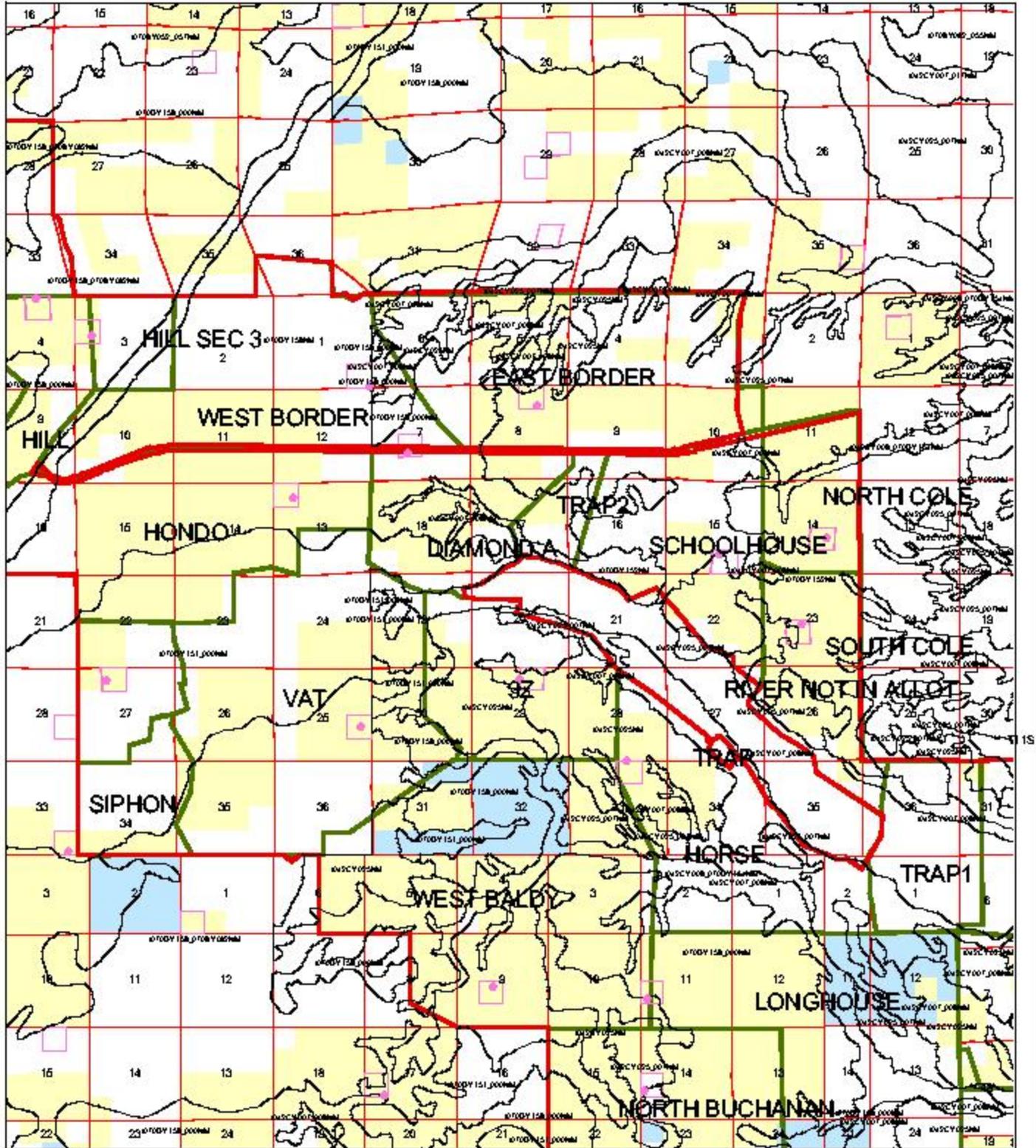
Produced by the RFO GIS Specialist on March 28, 2005.



# 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

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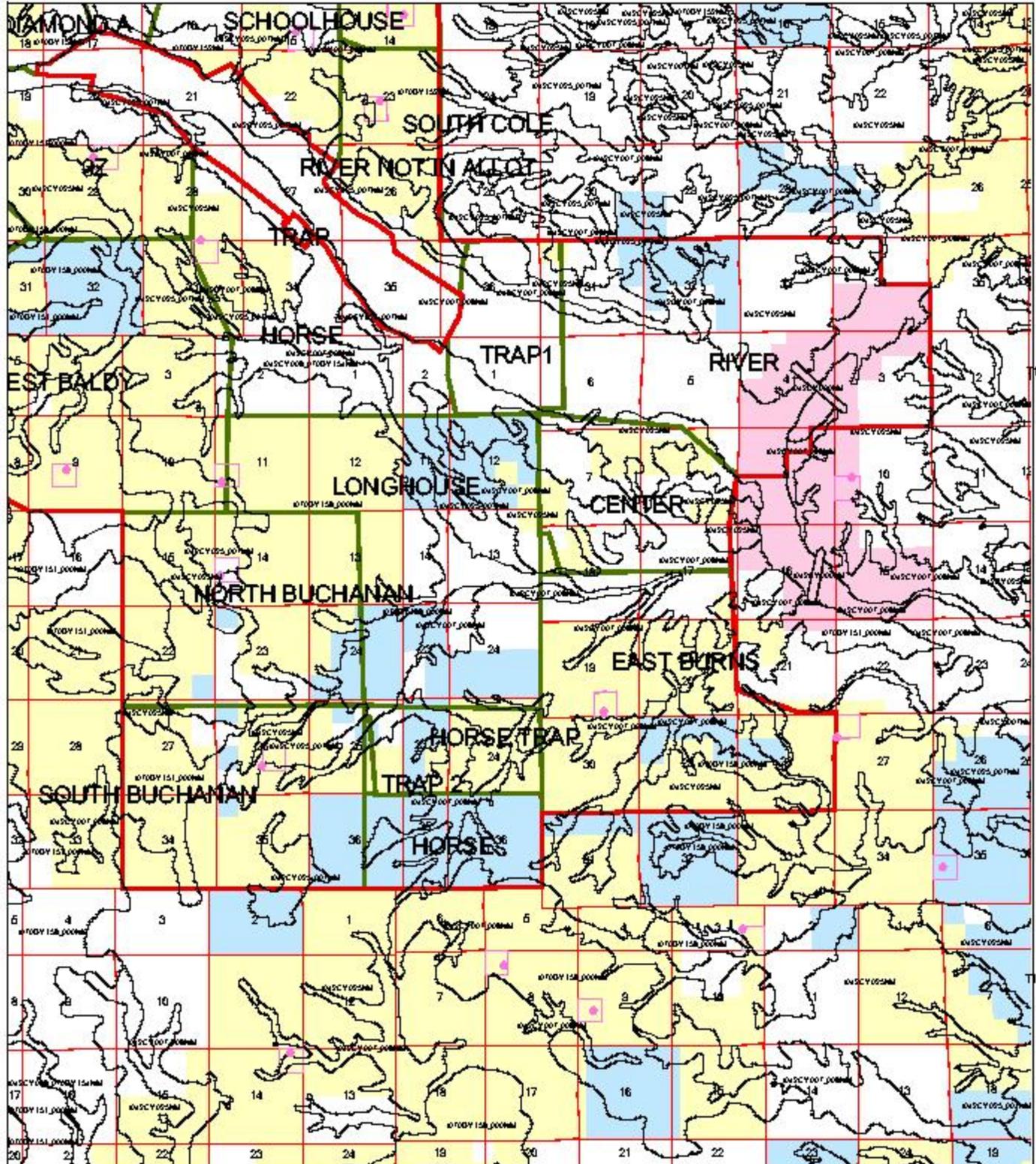
Produced by the RFO GIS Specialist on March 28, 2005.



# 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

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