



United States
Department of
Agriculture

Forest
Service

Peaks
Ranger District

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File Code: 2230

Date: May 5, 2008

Manterola Sheep Company, Inc.
c/o Joe Manterola
P O Box 11227
Casa Grande, AZ 85230

Dear Joe:

With the settlement agreement between the Forest Service and Joe Manterola on August 23, 2005, no sheep will be allowed to graze the Mooney Mountain or Woody Mountain Allotments this year. Sheep will be allowed on the Beaverhead-Grief Hill Driveway for one month this year.

The following Annual Operating Instructions (AOI) will apply only to the driveway. However, for consistency with past and future instructions, the Mooney Mountain and Woody Mountain background information will remain in this document only for reference.

These are your 2006 Annual Operating Instructions (AOI) for the Beaverhead-Griefhill Driveway. These Annual Instructions are a part of your term grazing permit as indicated in Part Two. In addition, this letter is to document actions that need to be taken this year to keep the Forest Service and these allotments in compliance with previous commitments from environmental assessments, allotment management plans and guidelines and recommendations for rare wildlife and plant species, including those that are threatened or endangered.

Beaverhead-Griefhill Driveway Area Description

The Beaverhead-Griefhill Driveway consists of 44,800 acres on three National Forests (Prescott, Coconino, and Kaibab). The Driveway starts at Badger Springs and crosses AZ State land and Bureau of Land Management (BLM) land before reaching the Prescott National Forest. The Driveway crosses from the Prescott National Forest to the Coconino National Forest at Thousand Trails Resort along the Verde River. It continues to the northeast approximately to the Coconino/Yavapai County line, then heads north towards Flagstaff. Just south of Kachina Village the Driveway turns northwest towards the southwest corner of Camp Navajo and then enters the Kaibab National Forest. The Driveway on the Prescott and Coconino National Forests is approximately 70 miles long and averages one mile in width. Both the Mooney Mountain and Woody Mountain bands of sheep are permitted to graze this driveway in May each year.

The Driveway includes several vegetative community types from the upper Sonoran desert shrub to ponderosa pine, and passes through semi-desert grassland, chaparral, pinyon-juniper, riparian, and mountain meadows. The topography of the area ranges from flat grasslands to very steep, rocky slopes.

The driveway contains the following Land Management Plan Management Areas:
MA 2-Verde Wild and Scenic River

- MA 3-Ponderosa Pine and Mixed Conifer
- MA 4-Ponderosa Pine on greater than 40%
- MA 5-Aspen
- MA 6-Unsuitable Timber Land
- MA 7-Pinyon Juniper on less than 40% slopes
- MA 8-Pinyon Juniper on greater than 40% slopes
- MA 9-Mountain Grassland
- MA 10-Transition Grassland
- MA 11-Verde Valley
- MA 12-Riparian

The Driveway occurs in four 5th code watersheds on the Coconino National Forest and two 5th code watersheds on the Prescott National Forest. The following table is a summary of number of total acres within each 5th code watershed and acres of the driveway that occur within each watershed.

5 th Code Watershed (Acres)	Allotment (Acres)	% of Allotment Within Watershed
Sycamore Canyon (103,894)	1,356	1
Oak Creek Canyon (298,114)	3,950	1
Dry Beaver (127,043)	16,210	13
Camp Verde (42,105)	797	2
Camp Verde (140,000)*	5,400	4
Agua Fria (191,000)*	9,100	5

- Prescott National Forest

The following is a list of Best Management Practices (BMP's) developed in the 1995 Beaverhead-Grief Hill Driveway Environmental Assessment.

- One of the main goals for livestock grazing practices on this driveway is to maintain or improve the quality of water.
- The location, timing, and intensity of livestock grazing activities should be controlled with objectives of achieving soil cover to prevent accelerated erosion and to protect water quality.
- Structural range improvements, such as fences, water developments, trails and corrals, should be planned, constructed and utilized in a manner to enhance or maintain water quality.
- Land treatments to manage vegetation or practices to reduce erosion should be planned, implemented and maintained to minimize adverse impacts on water quality.
- Livestock management activities, such as parasite control, feeding and salting, should be done in a manner to protect water quality.
- Monitor and enforce permittee compliance with terms and conditions of the grazing permit.
- Conduct annual range inspections: annual range inspections will be conducted by Forest Service personnel to see that livestock use of the Driveway does not exceed the allowable numbers, season of use and length of time livestock use the Driveway.
- Do not allow sheep to bed along the Verde River, Dry Beaver Creek or other riparian areas, or within meadows.

Planned Grazing Information 2008 - Beaverhead-Griefhill Driveway

Your term grazing permit information along with your 2008 grazing schedule is listed below for this allotment:

<u>Permittee Name</u>	<u>Permit Type</u>	<u>Season</u>	<u>Permitted No.</u>
Manterola Sheep Company, Inc.	Term State	5/1-5/31	2670 sheep
			<u>1215</u>
		Total	3885
	Term		14 burros

<u>Pasture Name</u>	<u>Use Dates</u>	<u>Total Number</u>
Driveway	5/17-6/15	2670 sheep
	5/17-6/15	14 burros

Mooney Mountain Allotment

The Mooney Mountain Allotment consists of 20,885 acres west of Flagstaff, Arizona. These acres lie within the Peaks Ranger District of the Coconino National Forest. The allotment lies on the western edge of the Coconino Forest Boundary between Camp Navajo and the Mogollon Rim. The sheep, which graze the Mooney Mountain Allotment, spend approximately 40% of the season grazing upon two allotments Garland Prairie, and Pomeroy, on the Williams Ranger District of the Kaibab National Forest. The grazing system is a seven unit deferred rest rotation system.

The majority of the allotment is a ponderosa pine community at an elevation of approximately 7000'. Within the ponderosa pine community lays scattered pockets of mountain meadows, aspen, and riparian community types. Springs on the allotment are: Railroad, Poison, Volunteer, and Upper Garland, which have some riparian vegetation.

The allotment contains the following Land Management Plan Management Areas:

- MA 3-Ponderosa Pine and Mixed Conifer
- MA 4-Ponderosa Pine on greater than 40%
- MA 5-Aspen
- MA 6-Unsuitable Timber Land
- MA 7-Pinyon-Juniper, Less Than 40% Slope
- MA 9-Mountain Grassland
- MA 12-Riparian

The Mooney Allotment occurs in two 5th code watersheds. The following table is a summary of number of total acres within each 5th code watershed and acres of the allotment, which occur within each watershed.

5 th Code Watershed (Acres)	Allotment (Acres)	% of Allotment Within Watershed
Sycamore Canyon (103,894)	16,993	17
Oak Creek Canyon (298,114)	374	1

The following is a list of Best Management Practices (BMP's) developed in the 1995 Mooney Mountain Allotment Environmental Assessment.

- Monitor and enforce permittee compliance: assure the permittee complies with the conditions of the permit concerning bed grounds, water stops and time in each area.
- Manage livestock grazing within (TES unit 55) meadows and riparian areas at intensity that will improve vegetation ground cover (primarily the litter component) and improve species diversity of perennial grasses.
- Rotate livestock through two camp units on the Mooney Mountain Allotment, in conjunction with the Garland and Pomeroy grazing allotments on the Kaibab National Forest, which are deferred and grazed in a planned sequence. Graze periods allow for adequate recovery of perennial plants during the growing season which is estimated at 150 days each year. Time of year when each unit is grazed changes from year to year.
- Do not allow livestock to bed down in sensitive meadows or other sensitive areas such as riparian areas, waters, rocky drainages, spotted owl cores, and goshawk post-fledgling areas.

Permitted Grazing Information 2008

Your term grazing permit information along with your 2008 grazing schedule is listed below for this allotment:

Permit Suspended 1/1/06-12/31/2008

<u>Permittee Name</u>	<u>Permit Type</u>	<u>Season</u>	<u>Permitted No.</u>
Manterola Sheep	Term	6/1-10/15	1840 sheep
Company, Inc.	State and Private		<u>400</u>
		Total	2240

<u>Pasture Name</u>	<u>Use Dates</u>	<u>Total Number</u>
East Mooney	Yearlong Rest	0
West Mooney	Yearlong Rest	0
Grey	Yearlong Rest	0
Pomeroy	Yearlong Rest	0
Airport	Yearlong Rest	0
Montoya	Yearlong Rest	0
Pacchuco	Yearlong Rest	0
Judy	Yearlong Rest	0

Woody Mountain Allotment Area Description

The Woody Mountain Allotment consists of 10,725 acres southwest of Flagstaff, Arizona. These acres lie within the Peaks Ranger District of the Coconino National Forest. The allotment runs southeast of Rogers Lake to Interstate Highway 17. The grazing system is a six unit deferred rest rotation system.

The Woody Mountain band of sheep are grazed upon a state lease referred to as Budweiser Tanks. This area is Arizona State Trust Land and Manterola Sheep Co. has the grazing lease for the area.

The majority of the allotment is a ponderosa pine community at an elevation of approximately 7000'. Within the ponderosa pine community lays scattered pockets of mountain meadows, aspen, and riparian community types. No riparian areas within the allotment are accessible to sheep.

The allotment contains the following Land Management Plan Management Areas:

- MA 3-Ponderosa Pine and Mixed Conifer
- MA 4-Ponderosa Pine on greater than 40%
- MA 5-Aspen
- MA 6-Unsuitable Timber Land
- MA 9-Mountain Grassland
- MA 12-Riparian

The Woody Allotment occurs in three 5th code watersheds. The following table is a summary of number of total acres within each 5th code watershed and acres of the allotment, which occur within each watershed.

5 th Code Watershed (Acres)	Allotment (Acres)	% of Allotment Within Watershed
Sycamore Canyon (103,894)	1,356	1
Oak Creek Canyon (298,114)	3,950	1
Flagstaff (145,414)	4,407	1

The following is a list of Best Management Practices (BMP's) developed in the 1995 Woody Mountain Allotment Environmental Assessment.

- Monitor and enforce permittee compliance: assure the permittee complies with the conditions of the permit concerning bed grounds, water stops and time in each area.
- Manage livestock grazing within (TES unit 55) meadows at intensity that will improve vegetation ground cover (primarily the litter component) and improve species diversity of perennial grasses.
- Rotate livestock through five camp units, which are deferred and grazed in a planned sequence. Graze periods allow for adequate recovery of perennial plants during the growing season which is estimated at 150 days each year. Time of year when each unit is grazed changes from year to year.
- Do not allow livestock to bed down in sensitive meadows or other sensitive areas.

Grazing Permit Information 2008

Your term grazing permit information along with your 2008 grazing schedule is listed below for this allotment:

Permit Suspended 1/1/06-12/31/2008

<u>Permittee Name</u>	<u>Permit Type</u>	<u>Season</u>	<u>Permitted No.</u>
Manterola Sheep Company, Inc.	Term	6/1-10/15	830 sheep
	State and Private		<u>815</u>
		Total	1645
	Term		8 burros

<u>Pasture Name</u>	<u>Use Dates</u>	<u>Total Number</u>
Tule	Yearlong Rest	0
Garden Springs	Yearlong Rest	0
Black Tank	Yearlong Rest	0
Aspen Springs	Yearlong Rest	0
Fry	Yearlong Rest	0

Black Springs Allotment

This allotment has been used by Manterola Sheep Company from 1995 through 2006, typically for a three week period. This permit is owned and operated by the Windmill Allotment but is not used by them because it is not adjoining their allotment and is too small to be practical. This allotment will be used again after the suspension period in conjunction with the Woody Allotment.

The pasture move dates shown above are an estimate, and may need to be changed on the basis of actual range conditions. Due to the current drought conditions it is vital to monitor actual conditions closely, and notify the Forest Service promptly if it appears that livestock will need to be moved sooner or later than estimated above. Grazing dates will be adjusted for this year's soil and vegetation readiness. Field checks in key forage areas such as meadows and riparian areas will be made prior to scheduled entry dates. Dates may be adjusted only with prior approval of the Forest Officer.

To facilitate livestock moves, gates may be opened two days prior to the scheduled move date only when moving into an adjacent pasture. Gates must be closed and grazed pasture entirely cleaned of livestock no later than five days following the scheduled move date. Grazed pastures must be kept clean of livestock following the pasture move.

Salt or mineral supplement locations should be rotated annually and avoid areas where sheep concentrations could cause excessive vegetation trampling, soil loss or disturbance to sensitive species or habitats. These areas would include habitats that support Mexican spotted owls, northern goshawks, rare plants, riparian vegetation, meadows or locations closer than 1/4 mile from a water source. The enclosed maps show the general location of these areas that are not obvious on the ground. These maps do not include all obvious sensitive areas like all meadows, riparian areas or water sources.

No prairie dog control (i.e., poisoning or shooting) is allowed in association with this permit.

Refer to the attached map for the areas that are excluded from sheep grazing during this grazing season. All fences must be maintained to ensure sheep stay out of these areas. You must monitor these areas to ensure sheep do not enter them. If sheep enter these sites immediate action must be taken to remove them (there are no excluded areas on any of these allotments presently).

Monitoring will be conducted in partnership with the permittee on a regular basis during the grazing season and will be used to develop next years Annual Operating Instructions that states when livestock are to be moved and how grazing patterns are to be changed during the grazing season. It is important this year for you to help us with monitoring of your grazing permit. With present and future downsizing in the Forest range program your assistance in monitoring will become

increasingly more important. This monitoring generally includes compliance with your AOI's, livestock utilization and overall range condition and trends.

The utilization guidelines on herbaceous and woody vegetation is 35% on the Coconino National Forest pastures and 40% on the Kaibab National Forest pastures. Livestock utilization of woody vegetation in riparian areas may not exceed 20%. This will ensure proper protection and management of resources on these allotments and the driveway.

Adjustments in numbers, rotation schedule or season of use will be made if utilization guidelines are exceeded. The option to return livestock to a pasture that has received adequate plant regrowth will be considered if all resource objections can be met. To achieve the desired allowable use, it is important to have proper livestock distribution.

No new range improvements are scheduled for this year on these allotments or the driveway.

Refer to the attached map for the areas that are excluded from sheep grazing during the 2005 grazing season. All fences must be maintained to ensure sheep stay out of these areas. You must monitor these areas to ensure sheep do not enter them. If sheep enter these sites immediate action must be taken to remove them.

As for the remainder of this grazing season, it is vital to keep sheep off Forest lands. As stated in the Settlement Agreement (5. Future Performance): "Manterola shall not allow livestock to enter National Forest System land during the period of suspension without written authorization from the USFS. Any knowing or willful trespass or other violation shall be grounds for an immediate and permanent termination of Manterola's grazing permit."

AOI's are appealable and subject to review under 36 CFR 251.

If you have any questions please call Gary Hase, Jr. at 527-8262.

Sincerely,

Peaks District Ranger

I have reviewed and agree with these annual operating instructions.

Joe Manterola

Planned Monitoring

Monitoring frequency varies by each activity and may be accomplished by either the permittee and/or Forest Service personnel.

Permit Compliance: Throughout each grazing season Forest Service personnel would monitor to determine accomplishments of the permit terms and conditions, the AMP, and the AOI.

Allotment Inspections: Allotment inspections are a written summary completed each fall by Forest Service personnel to document compliance monitoring and to provide an overall history of that year's grazing. This document may include weather history, the year's success, problems, improvement suggestions for the future, and a monitoring summary.

Range Readiness: Each spring, Forest Service personnel and/or the grazing permittee would assess range readiness prior to cattle coming on the allotment to determine if vegetative conditions are ready for cattle grazing. The range is generally ready for grazing when cool season grasses are leafed out, forbs are in bloom, and brush and aspen are leafed out. These characteristics indicate the growing season has progressed far enough to replenish root reserves so that grazing will not seriously impact these forage plants.

Forage Production: Production surveys for this allotment would be done every 9 to 13 years. Methods used for these surveys would use the best available methods at that time. These values would be used as tools to manage this allotment, but will not be the sole measurement to establish carrying capacity.

Rangeland Utilization: Long term condition and trend monitoring is the primary standard for monitoring of this cattle grazing management system. Utilization is used as a tool to understand and achieve the goals of long term management. Utilization guidelines are intended to indicate a level of use or desired stocking rates to be achieved over a period of years.

The definition of utilization and seasonal utilization come from standard protocols established by the Society of Rangeland Management and the new guidelines established by Region 3 Regional Forester (PRD 92). The following definitions and procedures for utilization were taken and adapted to fit this project.

Utilization is the proportion or degree of current year's forage production that is consumed or destroyed by animals (including insects). It is a comparison of the amount of herbage left compared with the amount of herbage produced during the year. Utilization is measured at the end of the growing season when the total annual production can be accounted for and the effects of grazing in the whole management unit can be assessed. Utilization guidelines are intended to indicate a level of use or desired stocking rate to be achieved over a period of years.

Utilization measurements will be taken in key areas which reflect grazing effects within an entire pasture. One key area would be established in the pasture, at existing long-term monitoring sites if possible, to represent overall pasture utilization. Utilization guidelines are not intended as inflexible limits. Utilization measurements can indicate the need for management changes prior to this need being identified through long term monitoring. Utilization data would not be used alone, but would

be used along with climate and condition/trend data, to set stocking levels and pasture rotations for future years.

Cattle would move when seasonal utilization in a pasture approaches a “moderate” level. Moderate seasonal utilization would be approximately 21-50 percent. Moderate seasonal utilization is an approximate value because it takes into account any additional growth which might occur later that year and considers season of use, wildlife use, weather conditions, availability of forage, and water in pastures. This moderate seasonal utilization level leaves residual cover for wildlife and soils and provides for long term health of the grazed plants.

If monitoring shows utilization rates exceed the utilization guideline in a given year, the grazing schedule and/or cattle numbers would be adjusted the following year so the utilization guidelines are not exceeded again. If utilization is exceeded after these adjustments are made, then the grazing management system would be changed to ensure this does not happen in the future.

Condition and Trend: Watershed and vegetative condition and trend monitoring will help determine the effectiveness of the allotment management plan, and long-term range and watershed trends.

Parker Three-Step and paced transect monitoring points were established throughout this allotment in the 1950-60s. These transects are one of best historic records of range condition and trend. The photo points and vegetative ground cover data show how the site has changed over time. Canopy cover and frequency plots were placed with the Parker Three-Step transects in to add to this historic data.

Ocular plant canopy cover 0.10-acre plots were used to compare existing conditions with potential and desired vegetative community conditions. Over time, these plots will show how canopy cover changes. Canopy cover will provide an indication of how plants are growing, assuming that if they are getting bigger and occupying more space, and then they are doing well and can be a relative gauge of vigor.

Frequency and ground cover data were collected using the widely accepted plant frequency method (University of Arizona, Extension Report 9043, 1997). These plots will monitor trends in plant species abundance, plant species distribution and ground cover. This will provide information on plant composition and additional information on regeneration.

These transects will be read at least every 10 years by Forest Service personnel. These plots will help determine the effectiveness of current management.

Precipitation: Precipitation is currently recorded at the Flagstaff National Weather Service Office at Bellemont. Precipitation data may be recorded within or near the allotments for more localized information. Precipitation data may be recorded throughout the year and summarized in the annual inspection. This data assists managers with forage utilization and production data collection.

Soil and Riparian Condition: The Intergovernmental Agreement between the Forest Service and the State of Arizona that controls water quality and the Clean Water Act requires implementation and effectiveness monitoring. The objectives of monitoring are to: (1) collect data sufficient to evaluate effects of management activities on soil and water resources; and (2) support changes in

management activities to protect soil and water quality. Monitoring will help determine how successfully managers are implementing guidance practices and how effectively those practices are protecting soil and water quality. The current and proposed cattle grazing system incorporates Best Management Practices (BMP) and grazing practices (GP) and constitutes compliance with Arizona State and Federal Water Quality Standards. Arizona Department of Water Quality (ADEQ) will continue to monitor water quality in the area.

Watershed condition can be assessed using information from the monitoring schemes above. Monitoring of plant abundance, ground cover, species diversity and estimates of overall soil condition (using the methods described throughout this monitoring section) will indicate whether or not management practices are effectively meeting management goals. Trends toward improvements in species abundance and diversity should indicate that management practices are effectively improving soil condition and by inference, maintaining or improving downstream water quality and complying with water quality standards. Conversely, decreases in plant abundance and species diversity may indicate that management practices are not effective and need to be changed. Environmental factors, especially precipitation, will be considered when evaluating monitoring results.

Noxious Weeds: State-listed noxious weeds located in these allotments would be treated as necessary. The permittee and Forest Service would coordinate the weed inventory and treatment with responsibilities identified through the AOI. Noxious weed monitoring is carried out at the same time allotment inspections are conducted. As noxious weed populations are found they are mapped, monitored and in some areas, manually removed. Other treatment methods will follow guidelines established in the “Final Environmental Impact Statement for Integrated Treatment of Noxious or Invasive Weeds”.

Threatened and Endangered Species: Threatened and endangered species are monitored in compliance and consultation with the USFWS. Vegetation monitoring points (key areas) have been established on the allotment and will be monitored according to consultation requirements.

Key areas would normally be one-quarter to 1 mile from water, located on productive soils on level to intermediate slopes, and be readily accessible for grazing. Size of the key forage monitoring areas could be 20 to 500 acres. Within key forage monitoring areas, select appropriate key species to monitor average allowable use (USDA 1987a, p. 66-1).

A new key monitoring site will be established within the next two years, and will represent the allotment with annual monitoring data. The following information will be collected at this new location; utilization, canopy cover, frequency, ground cover, and production, along with photos. This annual data will give us site specific information for long term condition and trend. The Forest Service would like the permittee to be involved in selecting the site and collecting the data.