## CLIFTON RANGER DISTRICT APACHE/SITGREAVES NATIONAL FOREST ANNUAL OPERATING INSTRUCTIONS (AOI)

# Lop Ear The Eric & Jean Schwennesen Family Trust 2019

#### I. PERMITTED USE:

The following table illustrates the number of livestock and season of use permitted on the Lop Ear Allotment as per Term Grazing Permit # 03010328 issued to The Eric & Jean Schwennesen Family Trust on March 1, 2016.

KIND	CLASS	NUMBERS	AUM	SEASON OF USE
Cattle	Cow/Calf	60	158	03/01 to 04/30
Cattle	Cow/Calf	30	238	05/01 to 10/31
Cattle	Cow/Calf	60	317	11/01 to 02/28

#### II. AUTHORIZED USE:

The following numbers and classes of livestock are authorized to graze on the

Allotment this year.

KIND	CLASS	NUMBERS	AUM	SEASON OF USE (grazing year 03/01/19 to 02/28/2020)
Cattle	Cow/Calf	84		08/01 - 09/30/2019 TBD 01/01/2020 - 2/28/2020
	Bull	8		08/01 - 09/30/2019 TBD 01/01/2020 - 2/28/2020
Horse/Mule	Mature	3	lierifreestori konsensi. Hende or to ende ontonius orto ende obtonius ontonius ontonius ontonius ontonius onto	08/01 — 09/30/2019 TBD 01/01/2020 — 2/28/2020

Bill in July for on date 8/01/2019 permittee to notify of any change. TBD 01/01/2020 – 2/28/2020 (will generate additional bill if on date used).

III. ROTATION SCHEDULE: Livestock use is authorized as follows in the pasture rotation schedule. Deviations from this must be made in advance and amended in the AOI.

Actual dates may vary (+ or - 5 days) dependent on utilization levels, range conditions and time required moving livestock.

PASTURE	NUMBER	SEASON OF USE(calendar)	GRAZING INTENSITY	KEY AREA	KEY SPP
Badlands	95	8/01/2019-8/31/2019	35 – 45%	#1500/1900/650##SW/W/SOUPHINGERSWOODS	The state of the s
Cold Springs	95	09/01-09/30/19	35 – 45%		
Badlands	95	*TBD 01/01/2020 - 2/28/20	35 – 45%	AND A TOMAN OF THE PARTY OF THE	
Cold Springs	95	*TBD 01/01/2020 – 2/28/20	35 – 45%		
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# DROUGHT CONTIGENCY (2209.13 11-14 R3 supplement2013 19.1 Drought Guideline)

"The question for land managers is not will drought occur, but are land managers prepared for drought? Land managers and grazing permittees, must plan for drought as a normal part of management and business. The Standardized Precipitation Index (SPI) is a unit of measure that compares recent precipitation values for a period of interest with long

term historical values to assess moisture conditions in a given area. In the Southwestern Region, anytime the SPI reaches a value of minus 1.00 or less for the preceding 12 month period, grazing allotments should be evaluated for existing drought conditions."

The District wants to be proactive and plan for drought like conditions and/or lacking stock water availability when those conditions materialize and incorporate into AOI grazing management and pasture rotation as much as possible.

## IV. ALLOWABLE USE STANDARDS (Grazing Intensity)

Allowable use of forage is based on the amount and kind of forage on the allotment, plant needs, range condition, trend, and grazing management strategy. Duration, frequency, and timing may be manipulated within the grazing schedule to meet allowable use standards. Grazing intensity may be described in terms herbage removed during the grazing and/or growing period, or as a utilization level at the end of the growing period. Removal of leaf material, when the plant is actively growing can affect root growth which in turn affects future leaf growth. Sufficient leaf area is essential to support plant functions through photosynthesis.

The allowable use levels for this allotment are established for key areas and key species by pasture for the time period livestock are in a pasture. The use on key species in key areas should be used as a trigger the length of the grazing period in each pasture. The establishment of the utilization standards is consistent with 36 CFR 222 regulations, FSM 2210 and 2230, and FSH 2209.21.

For simplicity, key areas are generally considered as follows: 1) full capacity rangeland located on ridgetops/mesas within a ¼ mile from available water sources; 2) canyon bottoms/riparian areas with free flowing water or springs regardless of distance from water; 3) any area containing full capacity range with erosive soils and insufficient/marginal ground cover to protect the soil; or 4) areas containing habitat, whether occupied, suitable and unoccupied, or potentially suitable habitat, for threatened, endangered, or proposed species that are of concern to the Forest Service.

Key areas should be designated in cooperation with the Forest Service and the permittee.

Grazing Intensity is discussed by Holechek and others (Holechek, Jerry L., Rex D. Pieper, and Carlton H. Herbel. 2004. Range Management, Principles & Practices. Prentice Hall, page 248):

**Table 3.** Qualitative characteristics of grazing intensity categories used to characterize New Mexico rangelands (Holechek & Galt, 6/00, Rangelands).

Qualitative Grazing Intensity Category	Use of Forage by Weight	Qualitative Indicators of Grazing Intensity
Light to non-use	0-30	Only choice plants (key species) and areas show use. There is no use of poor forage plants
Conservative	31-40	Choice forage plants (key species) have abundant seed stalks; Areas more than a mile from water show little use: About one third to one half primary forage plants show grazing on key areas.
Moderate	41-50	Most of accessible range show use; Key areas show patchy appearance with one half to two thirds of primary forage plants (key species) showing use; Grazing is noticeable 1-1½ miles from water
Heavy	51-60	Nearly all primary forage plants show grazing on key areas: Palatable shrubs show hedging: Key areas

Severe 61+

show a lack of seed stalks: Grazing is noticeable in areas over 1½ miles from water

Key areas show a clipped or mowed appearance (no stubble ht.): Shrubs are severely hedged; There is evidence of livestock trailing to forage; Areas over 1½ miles from water lack stubble height.

### V. ADMINISTRATION

- 1. The permittee will record actual use as it occurs; including livestock numbers and dates your permitted livestock are in a pasture. This information will be reported at the next annual validation meeting.
- 2. Any change or deviation from this Annual Operating Instructions is to be coordinated and confirmed in <u>advance</u> with the District in an AOI amendment. Additionally, as per terms and conditions of the grazing permit, the permittee shall provide 5 days' notice of moving livestock on or off the allotment. Credit or refunds generated are based upon this documentation. If emergency conditions require making a change immediately, the permittee will notify the District as soon as practical.
- 3. Livestock remaining in pastures beyond the specified rotation date, that are allowed to drift between pastures, or grazing in rested pastures may be considered a violation of your Term Grazing Permit.
- 4. Livestock should be moved when forage utilization objectives have been met or within 1 week of planned rotation dates, unless changes have been confirmed with District Range personnel.
- 5. The District may spot check range improvements before the entry date to insure improvements are in a satisfactory condition. Livestock will not be allowed to enter pastures if assigned improvements are not maintained to proper standards. Livestock are not allowed to enter pastures if fences will not keep livestock where they are placed.

## VI. SALT AND MINERAL BLOCK

Typically, salt or mineral blocks are not to be placed within a quarter mile of water or drainage bottoms. With District Ranger approval, salt may be placed closer than a quarter of a mile to water for specific purposes. Salt will be used to attract cattle to areas of a pasture typically not utilized and or for soil/range condition treatment purposes. Blocks may be removed by the District if found near water, over-utilized areas, meadow bottoms or roads. Feeding and/or supplements such as molasses are not authorized, unless on a case by case for specific purposes and approved by the District Ranger.

## VII. MONITORING

Monitoring and evaluation is an essential aspect of good rangeland management. Monitoring and evaluation can be described as the gathering of information so the manager knows what is happening to rangeland resources and why. The intent of monitoring and evaluation is to test the success of the management strategy and if needed, make adjustments. The following types of monitoring can be collected and will be used by the Forest Service for management decisions.

- 1. Forage Production
- 2. Forage Utilization/ Stubble Height measurements.
- 3. Photo Points
- 4. Condition of Improvements
- 5. Actual Use
- 6. Grazing Response Index
- 7. Precipitation.

## VIII. RANGE IMPROVEMENT CONSTRUCTION / MAINTENANCE

The permittee will maintain all range improvements that are assigned for maintenance on pages 11-14 of the Term

Grazing Permit. Reconstruction or new improvements requires written authorization by the District Ranger through a Permit Modification. When improvements are completed the permittee will inform District Range personnel to schedule an inspection. Before using machinery to clean any pond within defined wildlife habitat, the permittee is required to give the District Office at least 45 days advance notice so that the tank can be inspected for threatened or endangered species. All work involving the use of heavy equipment will be accomplished only after prior approval of the District Ranger.

Current Year Improve		YEAR	2019	
Improvement Completion Type / ID # Date		Description/Co	mments	Status Done /Date
		alakan 1946 - wat fi shi aki 19 was ki 19 wa ka 19 wa sa saka na da awa kasa 19 wa sana alakan 19 wa saka wasa		The second second second second second second
	Land Land was a construction of the constructi	e ette athold et letant et alian 1971 aliant et atholiset da autoet a (metro pe quelles a la que et gelagion las	er kland i Austriage Maria, er Augusta (Maria) de partie en en en Augusta (Maria) de partie de la maria (Maria) de partie en en Augusta (Maria) de Partie en	Supposed a gain, and all supposes and all a supposes
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				The second secon

### IX. PROTECTION

The permittee, his agents and employees, when acting within the scope of their employment, and his contractors and subcontractors will protect the land and property of the United States, waived private land and other land under jurisdiction of the Forest Service covered by and used in conjunction with this permit. Protection will include taking all reasonable precautions to prevent, make diligent efforts to suppress and report promptly all fires on or endangering such land and property. During periods of high fire danger, branding fires will be allowed by permit only.

### X. ALLOTMENT INSPECTIONS

Forest personnel may conduct periodic brief inspections of pastures within the allotment at any time to verify actual use, improvement conditions, or other non-range related activity. The permittee will be notified and invited to participate on extended (3-5 days) inspections.

Planned inspections for Grazing Year 19:

Pasture	When	Location

Notes:

### XI. PERMIT CONDITIONS

This Annual Operating Instructions is hereby made a part of the Term Grazing Permit as provided for in Part 2, Section 8(a). It complies with the standards and guidelines found in the Forest Plan.

Failure to comply with any of the terms and conditions specified in Parts 1, 2, and 3 of your Term Grazing Permit may result in suspension or cancellation, in whole or in part, after written notice. This is found in Part 1, Section 3, of your permit.

PERMITTEE DATE

12/14/2018

DATE

**Appendix:** 92.14b – Describing Grazing Intensity (FSH 2209.13 – GRAZING PERMIT ADMINISTRATION HANDBOOK CHAPTER 90 – RANGELAND MANAGEMENT DECISIONMAKING.

Grazing intensity may be described in terms herbage removed during the grazing and/or growing period, or as a utilization level at the end of the growing period. It is important to clearly define how intensity is being viewed and described. Removal of leaf material, when the plant is actively growing can affect root growth which in turn affects future leaf growth. Sufficient leaf area is essential to support plant functions through photosynthesis. Heavy to severe intensity or utilization can affect current plant development and growth, as well as growth during subsequent growing seasons.

Grazing Intensity is discussed by Holechek and others (Holechek, Jerry L., Rex D. Pieper, and Carlton H. Herbel. 2004. Range Management, Principles & Practices. Prentice Hall, page 248):

Grazing Intensity as depicted as a utilization level at the end of the growing season as discussed by Holechek and Galt (Holechek, Jerry L. and Dee Galt. 2000. Grazing Intensity Guidelines. *Rangelands* 22(3): 11-14):

Light to non-use 0-30 percent
Conservative 31-40 percent
Moderate 41-50 percent
Heavy 51-60 percent
Severe 61+ percent

Qualitative Grazing Intensity Category	Use of Forage by Weight	Qualitative Indicators of Grazing Ditensity
Light to not use	0 30	Only choice plants and areas show use. There is no use of poor totage plants.
Conservative	31 (0)	Choice forage plants have about duit seed stalks. Areas more than a more from water show little use Alson one thad to one half primary torage plants show grazing on key areas.
Moderate	11 50	Most of accessible range shows user Key areas show parchy ap- peatiance with one half to two thirds of primary totage plant- showing use, Grazing is noticeable in zone 1/15 miles from water
Heavy	S) til)	Nearly all primary forage plants show grazing on key areas Palatable strabs show hedging Key areas show a fack of see, stalk. Grazing is noticeable in areas over 1.5 miles from warn
Severe	<b>61 +</b>	Key areas show a cripped in mowed appearance (no stabble height): Shrubs are served; hedged. There is evidence or live stock trailing to forage. Areas over 1.5 miles from water tack stabble, heigh:

Qualitative Grazing Intensity Category	Use of Forage by Weight	S: }	Forage Residue Guide <sup>1</sup>	
		Blue Grama	Western Wheatgrass	
	·· (%) ··	tinchess		(lbs/acre)
Light to non-use	0-30	2.5+	7.07	435+
Conservative	31.40	2.0-2.5	4 0-5 0	350-435
Moderate	11.50	1.5-2.0	3.0-10	265-350
Heavy	51-60	(1.1.5	2.0.3.01	180-265
Severe	> 60	< 1.0	< 2.0	< 180

TWe have found residue guidelines developed by Benient (1969) for blue grams range lands in Colorado apely well to New Mexico blue grams rangelands.

Qualitative Grazing Intensity Category	Use of Forage by Weight	Stubble Height Guide					
		Black Grama	Dropseed	Threcawn	Tobosa	Sacaton	Sideoats Grama
	(%)			linche	· · · · · · · · · · · · · · · · · · ·		
Light to non-use	0.30	5+	9+	5 •	94	16+	9+
Conservative	3 ( 4()	45	8-9	4.5	7 9	14-16	8 V
Moderate	41 50	3.4	6.8	3.4	5/	12-14	6-8
Heavy	51-60	2 3	4-6	23	3. 5	10 12	4.6
Severe	> 60	< 2	< 4	< 2	< 3	< 10	<: 4

Qualitative Grazing Intensity Category	Use of Forage by Weight		Str.bble Heght Guide				
		Arizama	Western	Intermediate	Mutton grass	Mountain	
		Fescue	Wheatgrass	Wheatgrass	& Kentucky Blacgrass	Muhly	
	· · (ਓ) · · ·			(inches)			
Light to non-use	()=3()	8.	7-	10+	5-	5+	
Conservative	31 40	6.7	4-5	8-10	4-5	4-5	
Moderate	41.50	5~6	3:	6~8	3-1	3.4	
Heavy	51-60	4.5	3-3	4-6	2-3	2-3	
Severe	> 60	< 4	< 2	< 4	< 2	< 2	