Northern New Mexico Stockman's Association
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The Future of Livestock Grazing on New Mexico's National Forests
Northern New Mexico Stockman's Association

Producer Rangeland Assessment
Canjilon Allotment
2025 Grazing Season

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Qualitative data was collected using ethnographic methods. Including participant observation, structured and unstructured interviews, photos, and participatory mapping exercises during range monitoring, at grazing association meetings, annual feast days, fiestas, local county fair events, and meetings between producers and land management agencies. Qualitative data was analyzed using ethnographic methods focusing on producers' descriptions, interpretations, and explanations of climate and rangeland conditions and impacts on livestock operations.

Conditions across the Canjilon Grazing Association allotment during the 2025 grazing season were described as a very dry year with a noticeable lack of precipitation**.** Producers observed that while there was abundant forage in places**,** these areas often lacked stock water, making them unusable. Stock water availability was limited across the allotment, with no stock water reported in lower pastures or mesas and at specific locations including Mesa Montosa and Juan Domingo**.** Stock water was only available at Montoya tank and Caño Lopez**,** restricting use of the full allotment. Restoration projects on Canjilon Creek further reduced stock water availability**,** contributing to these conditions. In addition, year-round grazing by wildlife, particularly elk**,** was identified as a consistent condition affecting forage use.

Conditions

- Very dry year. Noticeable lack of precipitation.
- Abundant forage in places where there is no stock water
- Limited stock water restricting use of the full allotment
- Year-round grazing by wildlife (elk)

These conditions had direct impacts on livestock operations. Limited stock water reduced the ability to use the full allotment, requiring producers to skip pastures and concentrate grazing in areas where stock water was available. This led to constrained grazing rotations and overgrazing in some areas. Reduced stock water availability associated with restoration work on Canjilon Creek further limited access to parts of the allotment, adding to these impacts. Livestock productivity was affected, with producers reporting calves putting on minimal weight**,** cattle not producing calves or breeding, and cattle more apt to disease, as well as smaller cattle affecting sale price**.** Wildlife grazing added additional pressure on available forage.

Figure 1Early spring growth unusable without nearby stockwater.

Impacts

- Reduced ability to use the full allotment, including skipping pastures and reduced access to available forage due to lack of stock water
- Concentration of grazing in areas with available stock water, resulting in constrained grazing rotations and overgrazing in some pastures
- Decreased livestock productivity, including calves putting on minimal weight, cattle not producing calves or breeding, and cattle more apt to disease
- Smaller cattle affecting sale price
- Increased pressure on available forage due to wildlife grazing

Decision-making is supported by multiple forms of data. Producers rely on monitoring data collected during the same season, as well as baseline data on forage and utilization**,** to guide grazing decisions. Additional useful data include information on vegetation types, species, cycles, and nutritional value**,** stock water availability and water quality**,** amount of rainfall and microclimate across the allotment**,** and wildlife impacts, particularly elk**.** Monitoring and baseline data provide a foundation for understanding conditions and supporting management decisions throughout the grazing season.

Figure 2 Mid-season stock water availability at higher pastures. Montoya August 14, 2025.

Decision-Making and Useful Data

- First-hand observations of forage conditions and stock water availability
- Monitoring data collected during the same season
- Baseline data on forage and utilization
- Information on vegetation types, species, cycles, and nutritional value across pastures and over time
- Stock water availability and water quality
- Amount of rainfall and microclimate across the allotment
- Wildlife impacts, particularly elk

Producers manage these conditions by adjusting grazing practices and coordinating across the allotment. Management includes dividing the allotment between producers and starting simultaneously, adjusting rotations based on stock water availability and observed conditions, and placing salt away from stock water to distribute livestock across pastures. Decisions are informed by first-hand observations, monitoring data, and current season conditions, and are made in coordination with U.S. Forest Service personnel. Producers also reduce herd size when

necessary and make use of available areas of the allotment to avoid bringing livestock home early.

Management and Best Practices

- Dividing the allotment between producers and starting simultaneously, while coordinating and making decisions with U.S. Forest Service personnel
- Adjusting grazing rotations and making use of the allotment based on stock water availability and observed conditions
- Using first-hand observations, monitoring, current season data, and baseline data to inform management decisions and grazing plans
- Placing salt away from stock water and distributing it across the allotment to improve livestock distribution
- Reducing herd size when necessary

Producer Explanations of Conditions

Producers understood conditions in terms of the relationships among precipitation, stock water availability, forage distribution, and wildlife use across the allotment. A very dry year with noticeable lack of precipitation corresponded with limited stock water in lower pastures and mesas, shaping how forage could be utilized. Producers recognized that abundant forage was present in places where there was no stock water, leading to the understanding that usable forage depended on the distribution of stock water rather than forage presence alone.

Observations of grass species and growth cycles across different pastures and times of year, together with rainfall and microclimate variation, contributed to understanding how forage developed across the allotment under dry conditions. These forage patterns were considered in relation to stock water availability, explaining conditions where forage existed but could not be utilized. In addition, year-round grazing by wildlife, particularly elk, was understood as part of the overall set of conditions influencing forage use across the landscape. Producers understood conditions as defined by the interaction of precipitation patterns, stock water availability, forage distribution including species and growth cycles, and continuous wildlife use across the allotment.

Explaining Conditions

- Conditions reflect relationships among precipitation, stock water, forage, and wildlife
- Forage may be abundant where there is no stock water
- Grass species and growth cycles vary across pastures and times of year
- Rainfall and microclimate variation influence forage growth
- Amount of forage available relates to stock water availability
- Lack of precipitation corresponds with limited stock water in lower pastures and mesas
- Stock water distribution determines where forage can be utilized
- Year-round wildlife grazing (elk) contributes the most to overall forage use

Figure 3 Late season stock water availability in lower pastures. Lower Lopez Oct 14, 2025.

What Part of the Picture Is Missing

Producers identified several areas where additional information or support would improve understanding of conditions and decision-making. They requested more information on how restoration work on Canjilon Creek would affect livestock access to stock water and overall water availability across the allotment. Producers also indicated that expanding monitoring to additional sites within the allotment, and to other allotments, would provide a more complete picture of forage, stock water, and wildlife conditions.

In addition, producers identified the need for greater support and recognition of producer-led monitoring. They indicated that incorporation of producer-collected data into U.S. Forest Service range monitoring protocols, allotment assessments, grazing decision documentation, management practices, and Annual Operating Instructions (AOIs) would improve shared understanding of conditions and strengthen decision-making. These gaps relate to both spatial coverage of monitoring and the use of monitoring information in interpreting conditions across the allotment.

Producer Recommendations

Producers identified specific recommendations related to monitoring coverage and incorporation of producer-led data into agency processes. They requested evaluation of how restoration work on Canjilon Creek affects livestock access to stock water and overall water availability across the allotment. Producers also recommended expanding monitoring to additional sites within the allotment and extending monitoring to other allotments to provide broader context for interpreting forage, stock water, and wildlife conditions. In addition, producers emphasized the need for greater U.S. Forest Service support for producer-led monitoring and recommended incorporation of producer-collected data into U.S. Forest Service range monitoring protocols, allotment assessments, grazing decision documentation, management practices, and Annual Operating Instructions (AOIs). These recommendations focus on improving the completeness of information and ensuring that producer-collected data is incorporated into agency decision-making.

Recommendations Derived from Analysis of Conditions and Impacts

Additional recommendations emerge from analysis of the relationships among precipitation, stock water, forage, and wildlife conditions. Limited stock water and the presence of forage in areas without stock water suggest the importance of improving stock water availability and distribution across the allotment. The use of monitoring and baseline data to understand forage, stock water, and wildlife conditions supports continued application of these data to guide grazing rotations and pasture use. Coordinated grazing management among producers, including dividing the allotment and adjusting rotations, reflects practices that help address uneven stock water distribution and wildlife pressure. Improved communication and coordination with U.S. Forest Service personnel regarding observed conditions and monitoring results further supports implementation of management decisions based on current conditions.

Producer Recommendations

- Evaluate effects of restoration work on Canjilon Creek on livestock access to stock water
- Expand monitoring to additional sites within the allotment
- Expand monitoring to other allotments
- Incorporate producer-collected data into U.S. Forest Service range monitoring protocols
- Incorporate producer-collected data into allotment assessments
- Incorporate producer-collected data into grazing decision documentation
- Incorporate producer-collected data into U.S. Forest Service management practices
- Incorporate producer-collected data into Annual Operating Instructions (AOIs)
- Increase U.S. Forest Service support for producer-led monitoring

Additional Recommendations Derived from Analysis of Conditions and Impacts

- Improve stock water availability and distribution across the allotment
- Use monitoring and baseline data to guide grazing rotations and pasture use
- Continue coordinated grazing management among producers across the allotment
- Improve communication and coordination with U.S. Forest Service personnel regarding conditions and management decisions

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Dear Northern New Mexico Stockman's Association,

At the request of producers of the Canjilon allotment on the Carson National Forest, I have compiled preliminary data to summarize their 2025 monitoring efforts. This is preliminary data and does not constitute an official report for WSARE Project SW23-953. Data was collected by producers, Northern New Mexico Stockmen Association members, and US Forest Service personnel, with New Mexico State University serving as a consultant to compile and summarize the collected data. The data herein does not constitute an official recommendation in grazing management by New Mexico State University or its personnel.

Five sites were monitored in August and again in October 2025 using the Rapid Assessment Methodology. Biomass (also referred to as standing crop) and annual production were the only data requested for this preliminary report. However, an allotment averages report is provided for each monitoring period. All summarized information was taken from data entered in the Rangeland Data Analysis and Records program (RaDAR; rangelandradar.app). The procedures for monitoring and the calculation tabulation can be found on the website. Additional calculations not described within the website are provided in the Table footnotes.

The estimated stocking rate in the second allotment averages report refers to the maximum number of animal units that can be grazed for an entire year (animal unit year; AUY) with a 40 percent forage allocation. To convert this to animal unit months (AUM), multiply 1209 AUY by 12 months (14,508 AUM). Alternatively, if an estimate of animal units for the duration of the grazing season (180 days; Table 3) is desired, multiply 1209 AUY by 365 days, then divide that by the grazing duration (2451 Animal Unit Equivalent; AUE). This can be compared to the permitted livestock in Table 3 (authorized numbers are 19 percent of the 2025 AUE estimate). It is recommended that three years of data be collected to establish short-term stocking rates (Holechek et al. 2011). The estimated stocking rate for 2025 falls between the estimates for 2023 (2972 AUE) and 2024 (2035 AUE). The average estimated stocking rate over three years of data is 2561 ± 276 (authorized numbers are 30.0 percent of the three-year average).

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Table 1. Canjilon Allotment Production and Use

	Mid-Year Biomass (lbs/acre)	Year-End Biomass (lbs/acre)	Annual Production (lbs/acre)	Utilization as a Percent
Mesa Montosa	244.0 ± 60.0	372.0 ± 190.0	1186.7 ± 310.0	68.7
Juan Domingo	256.0 ± 50.0	194.0 ± 60.0	1986.7 ± 700.0	90.2
Lower Lopez	116.0 ± 10.0	238.0 ± 70.0	1083.3 ± 280.0	78.0
Montoya	108.0 ± 20.0	144.0 ± 40.0	983.3 ± 300.0	85.4
Fuertes	862.0 ± 180.0	274.0 ± 110.0	1236.7 ± 630.0	77.8
Averages	317.2 ± 67.7	244.4 ± 47.3	1295.3 ± 205.3	81.1 ± 3.7

Table 2. Canjilon Allotment Physical Constraint of Cattle Intake

	Observed Utilization as a Percent[1]	Cattle Utilization as a Percent[2]	Other Utilization as a Percent	Required Intake for Observed Utilization (pounds/day)[3]
Site Average*	81.1	8.2	72.9	257.4
Allotment Average†	81.1	7.6	73.5	276.3

$$\frac{(annual\ production - available\ biomass)}{annual\ production} \times 100 = percent\ utilization^{1}$$

$$\frac{(animal\ demand \times grazing\ duration \times permitted\ animals)}{(annual\ production \times grazable\ acres)} \times 100 = percent\ utilization^{2}$$

$$\frac{(annual\ production \times grazable\ acres \times observed\ utilization)}{(grazing\ duration \times permitted\ animals} = animal\ demand\ or\ daily\ intake^{3}$$

*based on 2024 GIS information correcting for slope and distance from water by monitoring site location (no reductions; 31%), US Forest Service.
†based on 2008 US Forest Service Environmental Assessment.

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Table 3. Allotment summary for the 2024 grazing season.

Allotment	Cattle Intake Standard (lbs/day)	Grazing Duration (days)	[1,2]Permitted Livestock (AUE)	[2]Allotment Grazable Acres	[3]Monitoring Site Grazable Acres
Canjilon	26	180	468	22,146	20,634

[1] includes cow/calf at 1 AUE and bulls at 1.5 AUE;
[2]based on 2008 allotment Environmental Assessment, US Forest Service.
[3]based on 2024 GIS information correcting for slope and distance from water by monitoring site location (reductions: 82.6%), US Forest Service.

Respectfully,

Casey Spackman
Extension Rangeland Management Specialist

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Radar - Canjilon 2025 Aug

ID: composite-66

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Composite
Date:	19-Nov-2025	**Collector Name:**	Canjilon Grazing Association, Canjilon Grazing Association/NNMSA
Transect Number:	Composite (5 reports)	**GPS Coordinates:**	Multiple Locations

Notes: Composite analysis using average method from 5 reports

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
317.20 ± 67.68 lbs per acre	22146.00 acres	0 AUY	0.00 ± 0.00 lbs per acre

Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
Cover Name	**Percent**	**Common Name**	**Symbol**	**Percent**	**Common Name**	**Percent**
Vegetation	71.6	Blue Grama	BOGR	26.8	Unknown	1.6
Bare ground	25.6	Western Wheatgrass	AGSM	13.8	-	-
Litter	14.0	Kentucky Bluegrass	POPR	12.0	-	-
-	-	Sedge	Carex	9.0	-	-
-	-	Crested Wheatgrass	AGCR	7.2	-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Blue Grama	BOGR	32.6	3.7	1.5	-
Sedge	Carex	18.0	7.1	1.5	-
Western Wheatgrass	AGSM	17.4	5.4	2.5	-
Kentucky Bluegrass	POPR	17.2	4	2.5	-
Crested Wheatgrass	AGCR	10.8	3.5	2.5	-

Fecal Counts

Horse	0	Elk	5	Cattle	10	Deer	1	Others	0

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Composite Analysis Details

Analysis Method:	Average	**Reports Analyzed:**	5
Analysis Date:	19-Nov-2025	**Source Date Range:**	08-Aug-2025 to 08-Aug-2025

Source Reports

Report Name	Producer	Pasture	Date
Canjilon Mesa Montosa 2025-1	Canjilon Grazing Association	Mesa Montosa	08-Aug-2025
Canjilon Juan Domingo 2025-1	Canjilon Grazing Association	Juan Domingo	08-Aug-2025
Canjilon Lower Lopez 2025-1	Canjilon Grazing Association	Lower Lopez	08-Aug-2025
Canjilon Montoya 2025-1	Canjilon Grazing Association	Montoya	08-Aug-2025
Canjilon Fuertes 2025-1	Canjilon Grazing Association	Fuertes	08-Aug-2025

Analysis Methodology

Average Analysis Method:
All numerical values (biomass availability, stocking rates, vegetation percentages, etc.) have been averaged across the selected 5 reports. This provides a mean representation of the data across all source reports.

Species and Vegetation Data Processing: Similar species and vegetation types across reports have been grouped together and their values aggregated using the selected average method. Only the top 5 most significant entries are displayed in each category to maintain report clarity.

Fecal Count Data Processing: Animal fecal counts have been averaged across all source reports to provide composite wildlife usage indicators for the analyzed area.

Data Quality Notes: This composite report represents aggregated data from multiple field measurements. Individual report variations have been smoothed through the aggregation process. For detailed individual measurements, refer to the source reports listed above.

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Radar - Canjilon 2025 Oct

ID: composite-65

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Composite
Date:	19-Nov-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA/USFS
Transect Number:	Composite (5 reports)	**GPS Coordinates:**	Multiple Locations
Notes:	Composite analysis using average method from 5 reports		

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
244.40 ± 47.30 lbs per acre	22146.00 acres	1209 AUY	1295.33 ± 205.33 lbs per acre

Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
Cover Name	**Percent**	**Common Name**	**Symbol**	**Percent**	**Common Name**	**Percent**
Bare ground	43.0	Blue Grama	BOGR	10.9	-	-
Litter	31.7	Western Wheatgrass	AGSM	5.5	-	-
Vegetation	24.0	Kentucky Bluegrass	POPR	4.4	-	-
Rock	1.6	Smooth Brome	BRIN	2.6	-	-
-	-	Needlegrass	STIPA	0.7	-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Western Wheatgrass	AGSM	36.7	4	2.5	-
Blue Grama	BOGR	25.6	2.8	1.5	-
Kentucky Bluegrass	POPR	19.1	2.5	2.5	-
Smooth Brome	BRIN	9.5	3.3	4	Below Minimum Height
Sedge	Carex	3.6	4.8	1.5	-

Fecal Counts

Horse	0	Elk	0	Cattle	0	Deer	0	Others	0

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Composite Analysis Details

Analysis Method:	Average	**Reports Analyzed:**	5
Analysis Date:	19-Nov-2025	**Source Date Range:**	14-Oct-2025 to 14-Oct-2025

Source Reports

Report Name	Producer	Pasture	Date
Canjilon Mesa Montosa 2025-2	Canjilon Grazing Association	Mesa Montosa	14-Oct-2025
Canjilon Lower Lopez 2025-2	Canjilon Grazing Association	Lower Lopez	14-Oct-2025
Canjilon Fuertes 2025-2	Canjilon Grazing Association	Fuertes	14-Oct-2025
Canjilon Montoya 2025-2	Canjilon Grazing Association	Montoya	14-Oct-2025
Canjilon Juan Domingo 2025-2	Canjilon Grazing Association	Juan Domingo	14-Oct-2025

Analysis Methodology

Average Analysis Method:
All numerical values (biomass availability, stocking rates, vegetation percentages, etc.) have been averaged across the selected 5 reports. This provides a mean representation of the data across all source reports.

Species and Vegetation Data Processing: Similar species and vegetation types across reports have been grouped together and their values aggregated using the selected average method. Only the top 5 most significant entries are displayed in each category to maintain report clarity.

Fecal Count Data Processing: Animal fecal counts have been averaged across all source reports to provide composite wildlife usage indicators for the analyzed area.

Data Quality Notes: This composite report represents aggregated data from multiple field measurements. Individual report variations have been smoothed through the aggregation process. For detailed individual measurements, refer to the source reports listed above.

Radar - Canjilon Fuertes 2025-1

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Fuertes
Date:	08-Aug-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA
Transect Number:	-	**GPS Coordinates:**	36.30.49 N 106.22.37 W **(260°)**
Notes:	Forbs recorded as Unknown-Unknown but appear as Grasses Unknown - GUNK in report.		

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
862.00 ± 180.00 lbs per acre	22146 acres	0 AUY	0.00 ± 0.00 lbs per acre

Percent Cover

Cover Name	Percent
Vegetation	81.0
Litter	14.0
Bare ground	5.0
-	-
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Western Wheatgrass	AGSM	51.9
Crested Wheatgrass	AGCR	18.5
Kentucky Bluegrass	POPR	18.5
Unknown	GUNK	8.6
Sedge	Carex	2.5

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Western Wheatgrass	AGSM	51.0	6.1	2.50	-
Kentucky Bluegrass	POPR	27.0	6.3	2.50	-
Crested Wheatgrass	AGCR	19.0	4.8	2.50	-
Sedge	Carex	2.0	6.3	1.50	-
Blue Grama	BOGR	1.0	5.0	1.50	-

Fecal Counts

Horse	-	Elk	7	Cattle	10	Deer	-	Others	-

Ground Photo

Lanscape Photo

Radar - Canjilon Fuertes 2025-2

ID: 325

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Fuertes
Date:	14-Oct-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA/USFS
Transect Number:	-	**GPS Coordinates:**	36.30.49 n106.22.36 w **(280°)**
Notes:	One cage damaged 33% eaten.		

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
274.00 ± 110.00 lbs per acre	22146 acres	1154 AUY	1236.67 ± 630.00 lbs per acre

Percent Cover

Cover Name	Percent
Litter	72.7
Vegetation	19.1
Bare ground	6.4
Rock	1.8
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Kentucky Bluegrass	POPR	10.9
Western Wheatgrass	AGSM	5.5
Needlegrass	STIPA	2.7
-	-	-
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Kentucky Bluegrass	POPR	48.2	2.5	2.50	-
Western Wheatgrass	AGSM	45.5	3.4	2.50	-
Needlegrass	STIPA	5.5	3.8	4.00	Below Minimum Height
Squirreltail	ELEL	0.9	4.0	4.00	-
-	-	-	-	-	-

Fecal Counts

Horse	0	Elk	3	Cattle	5	Deer	0	Others	0

Ground Photo

Lanscape Photo

Rapid Assessment Methodology (RAM) – Datasheet

Ranch or Allotment	Canjilon Grazing Association	**Pasture Name**	Fuertes
Date	14-Oct-2025	**Collector Name(s)**	Canjilon Grazing Association/NNMSA/USFS
Transect Number		**GPS Coordinates**	36.30.49 n106.22.36 w
Pasture Size (acres)	22146	**Heading**	280

Measurements

1	2	3	4	5	6	7	8	9	10
V 1.00	L 2.00	V 3.00	V 3.00	R 2.00	L 4.00	B 2.00	L 4.00	L 6.00	L 2.00
POPR	AGSM	POPR	POPR	POPR	AGSM	POPR	AGSM	AGSM	AGSM
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20 (clip)**
L 3.00	L 2.00	L 2.00	L 2.00	L 2.00	L 2.00	L 2.00	V 3.00	V 2.00	V 2.00
AGSM	AGSM	POPR	AGSM	AGSM	AGSM	POPR	POPR	POPR	AGSM
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
L 2.00	V 4.00	L 4.00	L 2.00	B 5.00	L 3.00	L 4.00	V 2.00	L 4.00	L 7.00
AGSM	AGSM	AGSM	POPR	AGSM	AGSM	AGSM	POPR	AGSM	STIPA
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40 (clip)**
V 3.00	L 3.00	L 5.00	L 3.00	L 3.00	L 3.00	L 3.00	L 3.00	L 3.50	L 2.00
STIPA	POPR	AGSM	POPR	POPR	AGSM	POPR	POPR	POPR	POPR
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
L 3.00	B 2.00	L 2.00	V 4.00	L 2.00	L 3.00	L 3.00	L 3.00	L 4.00	L 4.00
POPR	POPR	POPR	STIPA	POPR	POPR	POPR	POPR	POPR	AGSM
51	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60 (clip)**
L 2.00	L 4.00	V 2.00	L 3.00	V 4.00	V 2.00	L 4.00	L 2.00	L 4.00	V 4.00
AGSM	POPR	STIPA	AGSM	AGSM	POPR	AGSM	POPR	POPR	AGSM
61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
L 3.00	L 4.00	L 3.00	L 2.00	L 3.00	L 3.00	L 4.00	L 4.00	L 3.00	L 2.00
POPR	POPR	POPR	POPR	POPR	AGSM	AGSM	AGSM	POPR	POPR
71	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80 (clip)**
L 2.00	V 2.00	L 2.00	B 2.00	L 2.00	L 4.00	L 2.00	L 5.00	L 2.00	L 3.00
POPR	POPR	POPR	POPR	POPR	AGSM	POPR	AGSM	POPR	AGSM
81	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
L 2.00	L 3.00	L 3.00	L 4.00	L 5.00	B 2.00	L 3.00	L 2.00	V 3.00	L 3.00
POPR	AGSM	AGSM	STIPA	AGSM	POPR	AGSM	POPR	AGSM	AGSM
91	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100 (clip)**
L 3.00	L 3.00	L 4.00	L 4.00	V 3.00	V 3.00	B 4.00	L 3.00	L 3.00	L 3.00
STIPA	AGSM	AGSM	AGSM	POPR	AGSM	ELEL	AGSM	AGSM	AGSM

Dot Tally		**Clip Weight**	**1**	**2**	**3**	**4**	**5**
Horse			0.50	1.40	1.70	3.10	7.00
Elk	**3**	**Cage Weight**	**1**	**2**	**3**		
Cattle	**5**		9.30	3.30	24.50		
Deer		*Sampling Hoop Size or Conversion Factor*					100

Comment or Notes:

One cage damaged 33% eaten.

Radar - Canjilon Juan Domingo 2025-1

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Juan Domingo
Date:	08-Aug-2025	**Collector Name:**	Canjilon Grazing Association
Transect Number:	-	**GPS Coordinates:**	36.25.25 N 106.24.41 W **(180°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
256.00 ± 50.00 lbs per acre	22146 acres	0 AUY	0.00 ± 0.00 lbs per acre

Percent Cover

Cover Name	Percent
Vegetation	69.0
Bare ground	31.0
-	-
-	-
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Blue Grama	BOGR	88.4
Western Wheatgrass	AGSM	5.8
Sedge	Carex	4.3
Unknown	GUNK	1.4
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

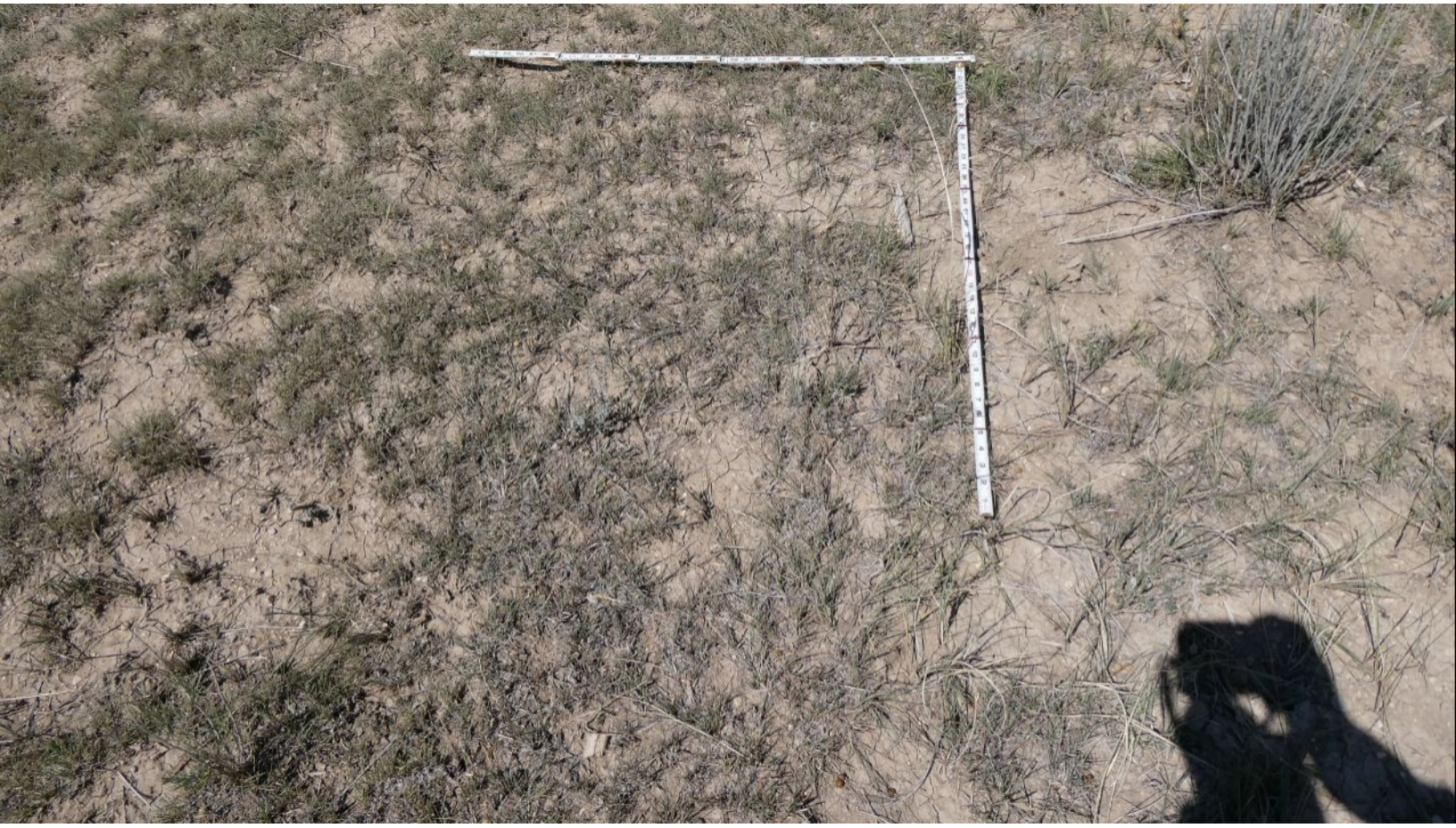
Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Blue Grama	BOGR	66.0	2.1	1.50	-
Sedge	Carex	30.0	7.9	1.50	-
Western Wheatgrass	AGSM	4.0	8.8	2.50	-
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts

Horse	-	**Elk**	-	**Cattle**	7	**Deer**	-	**Others**	-

Ground Photo



Lanscape Photo

Radar - Canjilon Juan Domingo 2025-2

ID: 327

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Juan Domingo
Date:	14-Oct-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA/USFS
Transect Number:	-	**GPS Coordinates:**	36.25.25 n 106.24.41 w **(83°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
194.00 ± 60.00 lbs per acre	22146 acres	1854 AUY	1986.67 ± 700.00 lbs per acre

Percent Cover

Cover Name	Percent
Vegetation	48.2
Bare ground	40.0
Litter	10.0
Rock	1.8
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Blue Grama	BOGR	41.8
Western Wheatgrass	AGSM	5.5
Needlegrass	STIPA	0.9
-	-	-
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Blue Grama	BOGR	71.8	2.3	1.50	-
Western Wheatgrass	AGSM	21.8	4.6	2.50	-
Sedge	Carex	3.6	7.0	1.50	-
Needlegrass	STIPA	2.7	6.3	4.00	-
-	-	-	-	-	-

Fecal Counts

Horse	0	**Elk**	7	**Cattle**	0	**Deer**	0	**Others**	0

Ground Photo

Lanscape Photo

Rapid Assessment Methodology (RAM) – Datasheet

Ranch or Allotment	Canjilon Grazing Association	**Pasture Name**	Juan Domingo
Date	14-Oct-2025	**Collector Name(s)**	Canjilon Grazing Association/NNMSA/USFS
Transect Number		**GPS Coordinates**	36.25.25 n 106.24.41 w
Pasture Size (acres)	22146	**Heading**	83

Measurements

1	2	3	4	5	6	7	8	9	10
B 3.50	V 2.00	V 2.50	B 1.00	V 2.00	V 2.00	V 2.00	L 3.00	V 4.00	B 4.00
AGSM	BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	AGSM	AGSM
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20 (clip)**
V 3.00	V 1.00	B 2.00	V 1.00	R 3.00	V 2.00	B 7.00	B 3.00	V 3.00	B 3.00
BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	AGSM	BOGR	BOGR	AGSM
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
V 2.00	V 2.00	B 2.00	B 3.00	B 4.00	V 7.00	B 2.00	B 3.50	B 3.00	B 5.00
BOGR	BOGR	BOGR	BOGR	AGSM	AGSM	BOGR	BOGR	BOGR	AGSM
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40 (clip)**
B 3.00	B 7.00	L 4.00	L 4.00	B 3.00	L 3.50	L 5.00	B 2.00	B 9.00	V 2.00
BOGR	AGSM	AGSM	BOGR	BOGR	BOGR	Carex	BOGR	AGSM	BOGR
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
V 2.00	V 2.00	B 2.00	B 3.00	B 5.00	V 2.00	V 2.00	B 2.00	B 2.00	L 2.00
BOGR	BOGR	BOGR	BOGR	STIPA	BOGR	BOGR	BOGR	BOGR	BOGR
51	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60 (clip)**
V 4.00	B 3.00	B 4.00	B 5.00	B 3.00	L 3.00	B 2.50	B 6.00	V 2.00	V 3.00
BOGR	BOGR	AGSM	Carex	BOGR	AGSM	BOGR	STIPA	BOGR	BOGR
61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
B 3.00	L 4.00	V 2.00	V 2.00	V 3.00	V 2.00	V 2.00	V 3.00	B 4.00	V 2.00
BOGR	AGSM	BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	AGSM	BOGR
71	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80 (clip)**
V 2.00	V 2.00	V 2.00	B 2.00	B 2.00	V 2.00	B 4.00	V 2.00	B 3.00	V 3.00
BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	AGSM	BOGR	BOGR	BOGR
81	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
V 3.00	B 3.00	V 3.00	V 8.00	B 11.00	V 4.00	B 7.00	V 2.00	V 2.00	L 2.00
AGSM	AGSM	BOGR	STIPA	Carex	AGSM	AGSM	BOGR	BOGR	BOGR
91	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100 (clip)**
V 2.00	V 2.00	V 2.00	V 5.00	V 2.00	B 2.00	R 2.00	B 7.00	V 2.00	L 2.00
BOGR	BOGR	BOGR	AGSM	BOGR	BOGR	BOGR	Carex	BOGR	BOGR

Dot Tally		Clip Weight	1	2	3	4	5
Horse			1.00	2.30	0.30	4.10	2.00
Elk	7	**Cage Weight**	**1**	**2**	**3**		
Cattle			11.20	33.80	14.60		
Deer		*Sampling Hoop Size or Conversion Factor*					100

Comment or Notes:

Radar - Canjilon Lower Lopez 2025-1

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Lower Lopez
Date:	08-Aug-2025	**Collector Name:**	Canjilon Grazing Association
Transect Number:	-	**GPS Coordinates:**	36.26.55 N 106.24.52 W **(180°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
116.00 ± 10.00 lbs per acre	22146 acres	0 AUY	0.00 ± 0.00 lbs per acre

Percent Cover

Cover Name	Percent
Bare ground	51.0
Vegetation	49.0
-	-
-	-
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Crested Wheatgrass	AGCR	38.8
Smooth Brome	BRIN	28.6
Western Wheatgrass	AGSM	18.4
Blue Grama	BOGR	14.3
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Crested Wheatgrass	AGCR	32.0	2.7	2.50	-
Western Wheatgrass	AGSM	20.0	3.0	2.50	-
Blue Grama	BOGR	20.0	4.2	1.50	-
Smooth Brome	BRIN	19.0	2.4	4.00	Below Minimum Height
Sedge	Carex	9.0	6.1	1.50	-

Fecal Counts

Horse	-	Elk	2	Cattle	-	Deer	1	Others	-

Ground Photo

Lanscape Photo

Radar - Canjilon Lower Lopez 2025-2

ID: 324

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Lower Lopez
Date:	14-Oct-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA/USFS
Transect Number:	-	**GPS Coordinates:**	36.26.56 n 106.24.53 w **(101°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
238.00 ± 70.00 lbs per acre	22146 acres	1011 AUY	1083.33 ± 280.00 lbs per acre

Percent Cover

Cover Name	Percent
Bare ground	71.8
Vegetation	23.6
Litter	3.6
Rock	0.9
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Smooth Brome	BRIN	12.7
Western Wheatgrass	AGSM	10.9
-	-	-
-	-	-
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Western Wheatgrass	AGSM	49.1	3.9	2.50	-
Smooth Brome	BRIN	47.3	3.3	4.00	Below Minimum Height
Blue Grama	BOGR	3.6	2.3	1.50	-
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts

Horse	0	Elk	5	Cattle	6	Deer	0	Others	0

Ground Photo

Lanscape Photo

Rapid Assessment Methodology (RAM) – Datasheet

Ranch or Allotment	Canjilon Grazing Association	**Pasture Name**	Lower Lopez
Date	14-Oct-2025	**Collector Name(s)**	Canjilon Grazing Association/NNMSA/USFS
Transect Number		**GPS Coordinates**	36.26.56 n 106.24.53 w
Pasture Size (acres)	22146	**Heading**	101

Measurements

1	2	3	4	5	6	7	8	9	10
B 3.00	V 4.00	B 3.00	B 4.00	B 2.00	B 4.00	B 4.00	B 3.00	B 3.00	V 4.00
AGSM	BRIN	AGSM	AGSM	AGSM	AGSM	AGSM	BRIN	BRIN	BRIN
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20 (clip)**
V 2.00	B 3.00	B 6.00	B 3.00	V 7.00	V 4.00	B 5.00	B 4.00	B 3.00	B 2.00
BRIN	BRIN	AGSM	BRIN	AGSM	BRIN	AGSM	BRIN	BRIN	BRIN
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
V 2.00	B 4.00	L 4.00	R 3.00	V 3.00	B 2.00	B 3.00	V 3.00	B 4.00	B 2.00
BRIN	AGSM	BRIN	BRIN	BRIN	BRIN	BRIN	BRIN	AGSM	BOGR
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40 (clip)**
B 4.00	B 4.00	V 3.00	B 4.00	B 2.00	B 6.00	B 4.00	B 6.00	B 6.00	B 6.00
AGSM	AGSM	AGSM	BRIN	BOGR	AGSM	AGSM	AGSM	AGSM	BRIN
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
B 3.00	B 3.00	B 4.00	V 2.00	L 3.00	V 3.00	L 3.00	B 4.00	V 3.00	B 4.00
BRIN	BRIN	BRIN	AGSM	AGSM	AGSM	BRIN	AGSM	AGSM	AGSM
51	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60 (clip)**
B 4.00	B 3.00	B 4.00	V 4.00	B 4.00	B 3.00	B 6.00	B 4.00	V 3.00	V 2.00
AGSM	BOGR	AGSM	AGSM	BRIN	AGSM	AGSM	AGSM	AGSM	BRIN
61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
B 3.00	B 4.00	B 3.00	L 4.00	B 4.00	V 4.00	B 4.00	B 3.00	B 4.00	B 4.00
BRIN	AGSM	AGSM	AGSM	AGSM	AGSM	BRIN	BRIN	BRIN	BRIN
71	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80 (clip)**
V 4.00	V 4.00	B 3.00	B 8.00	B 4.00	B 4.00	B 3.00	B 2.00	B 3.00	B 5.00
BRIN	AGSM	AGSM	AGSM	BRIN	BRIN	BRIN	BOGR	BRIN	AGSM
81	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
B 2.00	V 3.00	B 5.00	B 3.00	V 3.00	V 2.00	B 3.00	B 3.00	B 4.00	B 3.00
AGSM	BRIN	AGSM	AGSM	AGSM	AGSM	BRIN	BRIN	BRIN	BRIN
91	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100 (clip)**
B 3.00	V 3.00	V 3.00	B 3.00	B 4.00	B 3.00	V 3.00	B 3.00	B 3.00	B 4.00
BRIN	BRIN	BRIN	AGSM	AGSM	BRIN	AGSM	BRIN	BRIN	BRIN

Dot Tally		**Clip Weight**	**1**	**2**	**3**	**4**	**5**
Horse			2.30	0.20	2.80	1.80	4.80
Elk	**5**	**Cage Weight**	**1**	**2**	**3**		
Cattle	**6**		15.00	12.10	5.40		
Deer		*Sampling Hoop Size or Conversion Factor*					100

Comment or Notes:

Radar - Canjilon Mesa Montosa 2025-1

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Mesa Montosa
Date:	08-Aug-2025	**Collector Name:**	Canjilon Grazing Association
Transect Number:	-	**GPS Coordinates:**	36.23.07 N106.25.37 W **(260°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
244.00 ± 60.00 lbs per acre	22146 acres	0 AUY	0.00 ± 0.00 lbs per acre

Percent Cover

Cover Name	Percent
Vegetation	84.0
Bare ground	16.0
-	-
-	-
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Blue Grama	BOGR	54.0
Sedge	Carex	28.0
Western Wheatgrass	AGSM	2.0
-	-	-
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Blue Grama	BOGR	62.0	5.2	1.50	-
Sedge	Carex	35.0	8.2	1.50	-
Western Wheatgrass	AGSM	2.0	18.0	2.50	-
Squirreltail	ELEL	1.0	10.0	4.00	-
-	-	-	-	-	-

Fecal Counts

Horse	-	**Elk**	-	**Cattle**	-	**Deer**	-	**Others**	-

Ground Photo

Lanscape Photo

Radar - Canjilon Mesa Montosa 2025-2

ID: 323

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Mesa Montosa
Date:	14-Oct-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA/USFS
Transect Number:	-	**GPS Coordinates:**	36.23.08 n 106.25.38 w **(272°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
372.00 ± 190.00 lbs per acre	22146 acres	1107 AUY	1186.67 ± 310.00 lbs per acre

Percent Cover

Cover Name	Percent
Bare ground	56.0
Litter	29.0
Vegetation	15.0
-	-
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Blue Grama	BOGR	14.0
Western Wheatgrass	AGSM	1.0
-	-	-
-	-	-
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

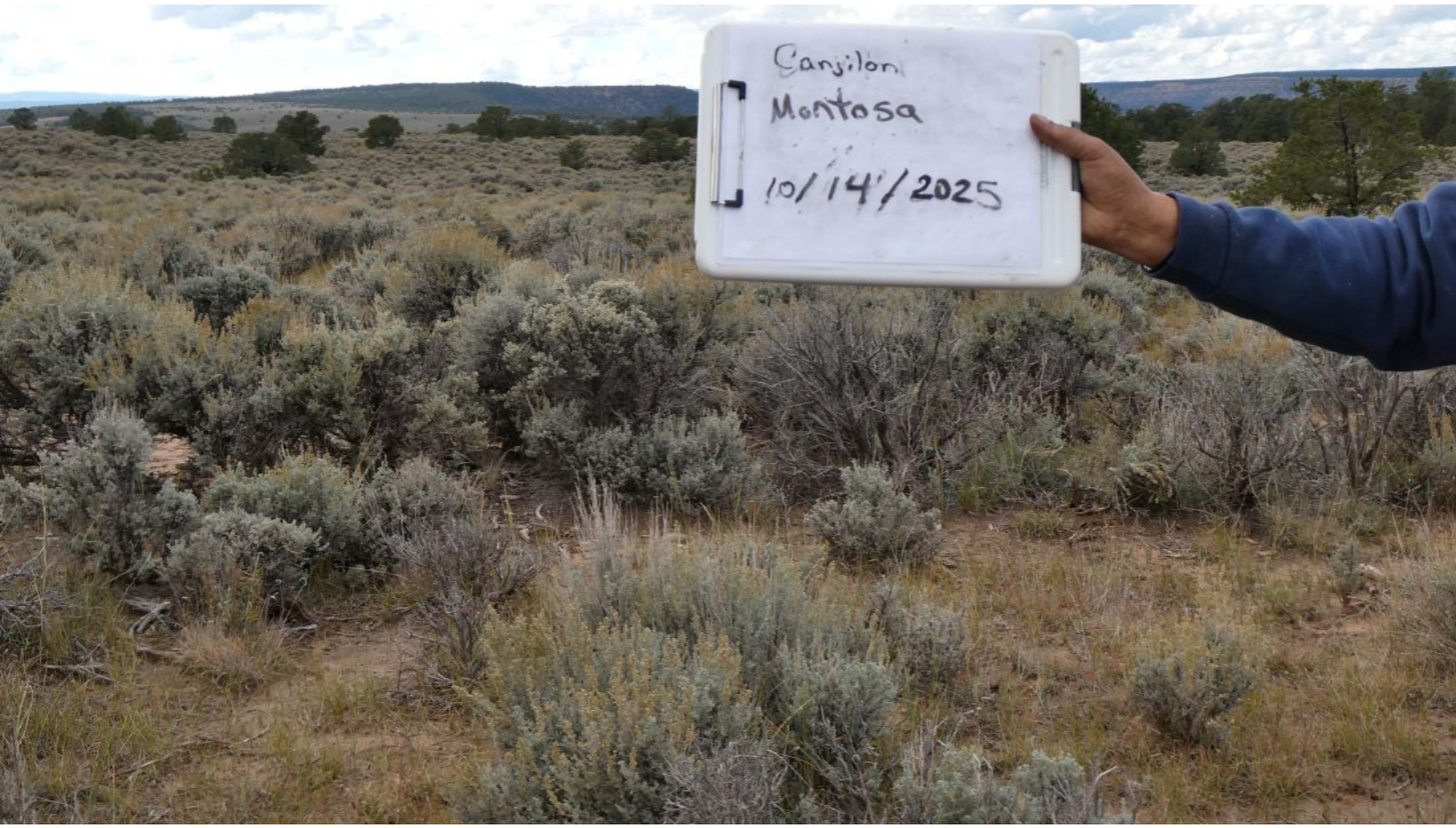
Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Blue Grama	BOGR	58.0	3.6	1.50	-
Sedge	Carex	16.0	4.2	1.50	-
Western Wheatgrass	AGSM	15.0	6.9	2.50	-
Squirreltail	ELEL	10.0	8.0	4.00	-
Sand Dropseed	SPCR	1.0	6.0	4.00	-

Fecal Counts

Horse	0	Elk	4	Cattle	0	Deer	0	Others	0

Ground Photo

Lanscape Photo



Rapid Assessment Methodology (RAM) – Datasheet

Ranch or Allotment	Canjilon Grazing Association	**Pasture Name**	Mesa Montosa
Date	14-Oct-2025	**Collector Name(s)**	Canjilon Grazing Association/NNMSA/USFS
Transect Number		**GPS Coordinates**	36.23.08 n 106.25.38 w
Pasture Size (acres)	22146	**Heading**	272

Measurements

1	2	3	4	5	6	7	8	9	10
L 2.50	L 4.00	B 3.00	L 3.00	V 8.00	L 6.00	L 7.00	B 4.00	V 3.00	B 8.00
BOGR	Carex	Carex	Carex	AGSM	ELEL	AGSM	BOGR	BOGR	AGSM
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20 (clip)**
B 5.00	B 6.00	B 5.00	L 5.00	B 5.00	B 4.00	B 6.00	L 7.00	B 3.00	B 4.00
Carex	Carex	Carex	Carex	Carex	Carex	AGSM	AGSM	BOGR	BOGR
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
B 5.00	B 4.00	B 4.00	L 3.00	L 4.00	B 4.00	V 3.00	L 3.00	B 2.00	L 6.00
Carex	Carex	Carex	Carex	Carex	Carex	BOGR	Carex	BOGR	AGSM
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40 (clip)**
B 7.00	L 6.00	B 2.00	B 3.00	V 3.00	L 5.00	B 7.00	B 1.00	B 3.00	V 2.00
ELEL	BOGR	BOGR	BOGR	BOGR	AGSM	AGSM	BOGR	BOGR	BOGR
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
B 2.00	B 2.00	V 4.00	L 5.00	B 11.00	B 5.00	B 5.00	B 2.00	B 5.00	L 9.00
BOGR	BOGR	BOGR	BOGR	ELEL	ELEL	BOGR	BOGR	BOGR	ELEL
51	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60 (clip)**
B 9.00	B 11.00	V 3.00	B 3.00	V 3.00	B 3.00	L 6.00	L 2.00	L 8.00	L 1.00
ELEL	AGSM	BOGR	BOGR	BOGR	BOGR	AGSM	BOGR	ELEL	BOGR
61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
B 3.00	V 4.00	V 3.00	V 5.00	V 5.00	B 6.00	B 11.00	B 4.00	B 4.00	L 1.00
BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	ELEL	BOGR	BOGR	BOGR
71	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80 (clip)**
L 3.00	B 4.00	L 8.00	B 6.00	B 8.00	B 9.00	L 3.00	V 4.00	B 8.00	L 2.00
BOGR	BOGR	BOGR	AGSM	AGSM	ELEL	BOGR	BOGR	AGSM	AGSM
81	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
B 5.00	V 2.00	B 2.00	B 2.00	B 2.00	B 4.00	B 4.00	B 4.00	B 3.00	B 2.00
ELEL	BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	BOGR
91	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100 (clip)**
V 3.00	B 4.00	L 4.00	B 5.00	L 4.00	L 6.00	L 8.00	L 11.00	B 6.00	B 7.00
BOGR	BOGR	BOGR	BOGR	BOGR	BOGR	AGSM	BOGR	SPCR	BOGR

Dot Tally		Clip Weight	1	2	3	4	5	Comment or Notes:
Horse			2.40	2.00	1.30	1.70	11.20	
Elk	4	**Cage Weight**	**1**	**2**	**3**			
Cattle			16.50	6.00	13.10			
Deer		*Sampling Hoop Size or Conversion Factor*					100	

Radar - Canjilon Montoya 2025-1

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Montoya
Date:	08-Aug-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA
Transect Number:	-	**GPS Coordinates:**	36.29.30 N 106.22.38 W **(250°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
108.00 ± 20.00 lbs per acre	22146 acres	0 AUY	0.00 ± 0.00 lbs per acre

Percent Cover

Cover Name	Percent
Vegetation	75.0
Bare ground	25.0
-	-
-	-
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Kentucky Bluegrass	POPR	53.3
Sedge	Carex	16.0
Blue Grama	BOGR	14.7
Western Wheatgrass	AGSM	13.3
Crested Wheatgrass	AGCR	2.7

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Kentucky Bluegrass	POPR	59.0	2.9	2.50	-
Sedge	Carex	14.0	3.1	1.50	-
Blue Grama	BOGR	14.0	4.4	1.50	-
Western Wheatgrass	AGSM	10.0	2.5	2.50	-
Crested Wheatgrass	AGCR	3.0	3.2	2.50	-

Fecal Counts

Horse	-	**Elk**	6	**Cattle**	13	**Deer**	-	**Others**	-

Ground Photo

Lanscape Photo

Radar - Canjilon Montoya 2025-2

ID: 326

Producer Name:	Canjilon Grazing Association	**Pasture Name:**	Montoya
Date:	14-Oct-2025	**Collector Name:**	Canjilon Grazing Association/NNMSA/USFS
Transect Number:	-	**GPS Coordinates:**	36.29.30 n 106.22.49 w **(78°)**
Notes:			

Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
144.00 ± 40.00 lbs per acre	22146 acres	917 AUY	983.33 ± 300.00 lbs per acre

Percent Cover

Cover Name	Percent
Litter	43.3
Bare ground	40.8
Vegetation	14.2
Rock	1.7
-	-

Vegetation Cover - Grasses

Common Name	Symbol	Percent
Kentucky Bluegrass	POPR	10.0
Western Wheatgrass	AGSM	4.2
-	-	-
-	-	-
-	-	-

Other Vegetation Cover

Common Name	Percent
-	-
-	-
-	-
-	-
-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guidline	
Western Wheatgrass	AGSM	49.2	3.8	2.50	-
Kentucky Bluegrass	POPR	43.3	2.5	2.50	-
Needlegrass	STIPA	7.5	3.2	4.00	Below Minimum Height
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts

Horse	0	Elk	11	Cattle	5	Deer	0	Others	0

Ground Photo

Lanscape Photo

Rapid Assessment Methodology (RAM) – Datasheet

Ranch or Allotment	Canjilon Grazing Association	**Pasture Name**	Montoya
Date	14-Oct-2025	**Collector Name(s)**	Canjilon Grazing Association/NNMSA/USFS
Transect Number		**GPS Coordinates**	36.29.30 n 106.22.49 w
Pasture Size (acres)	22146	**Heading**	78

Measurements

1	2	3	4	5	6	7	8	9	10
V 4.00	V 3.00	L 3.00	B 3.00	L 4.00	B 7.00	L 4.00	L 3.00	V 2.50	B 3.00
AGSM	POPR	AGSM	AGSM	AGSM	AGSM	POPR	POPR	POPR	POPR
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20 (clip)**
B 5.00	L 4.00	B 2.00	L 2.50	B 2.50	B 4.00	L 5.00	L 2.00	V 3.00	B 2.00
AGSM	AGSM	POPR	POPR	POPR	AGSM	AGSM	POPR	POPR	POPR
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
L 4.00	B 3.00	R 4.00	B 2.50	B 4.00	B 2.00	L 3.00	B 1.00	L 3.00	L 4.00
STIPA	AGSM	AGSM	POPR	AGSM	POPR	POPR	STIPA	POPR	AGSM
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40 (clip)**
L 3.00	B 5.00	L 2.50	L 4.00	B 2.00	B 3.00	B 2.50	L 4.00	V 1.50	L 3.00
POPR	AGSM	POPR	AGSM	STIPA	STIPA	STIPA	AGSM	POPR	AGSM
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
L 3.00	B 2.00	B 2.00	L 3.00	B 2.00	B 2.00	V 1.00	L 2.00	V 2.00	V 2.00
AGSM	POPR	POPR	POPR	POPR	POPR	POPR	POPR	POPR	POPR
51	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60 (clip)**
B 2.00	L 1.00	L 1.50	B 1.00	B 4.00	B 3.00	V 2.00	L 2.00	B 4.00	L 2.00
POPR	POPR	POPR	POPR	AGSM	POPR	AGSM	POPR	AGSM	POPR
61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**
L 3.00	B 5.00	V 2.00	L 3.00	B 4.00	L 2.00	B 2.00	L 4.00	B 2.50	L 3.00
POPR	AGSM	POPR	AGSM	AGSM	AGSM	POPR	AGSM	AGSM	AGSM
71	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80 (clip)**
L 4.00	L 3.00	L 4.00	B 3.00	L 4.00	L 4.00	L 2.00	B 3.00	B 3.00	L 3.00
AGSM	AGSM	AGSM	AGSM	POPR	AGSM	POPR	POPR	AGSM	AGSM
81	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
V 4.00	V 3.00	L 3.00	B 3.00	L 4.00	B 7.00	L 4.00	L 3.00	V 2.50	B 3.00
AGSM	POPR	AGSM	AGSM	AGSM	AGSM	POPR	POPR	POPR	POPR
91	**92**	**93**	**94**	**95**	**96**	**97**	**98**	**99**	**100 (clip)**
V 4.00	V 3.00	L 3.00	B 3.00	L 4.00	B 7.00	L 4.00	L 3.00	V 2.50	B 3.00
AGSM	POPR	AGSM	AGSM	AGSM	AGSM	POPR	POPR	POPR	POPR

Dot Tally		**Clip Weight**	**1**	**2**	**3**	**4**	**5**
Horse			0.70	0.30	2.00	2.00	2.20
Elk	**11**	**Cage Weight**	**1**	**2**	**3**		
Cattle	**5**		12.50	13.10	3.90		
Deer		*Sampling Hoop Size or Conversion Factor*					100

Comment or Notes:

Canjilon Allotment **2025**
Precipitation

Key Area	Date	Amount	Notes	Reported
Mesa Montosa	6/5/2025	1.65		Sabino Salazar
	6/19/2025	0.02		Sabino Salazar
	7/17/2025	0.68		Sabino Salazar
	7/31/2025	0.98		Sabino Salazar
	10/14/2025	5.72		Field Day
		9.05		
Juan Domingo				
	5/30/2025	1.2		Sabino Salazar
	6/5/2025	1		Sabino Salazar
	6/19/2025	0.14		Sabino Salazar
	7/17/2025	0.99		Sabino Salazar
	7/31/25	1.41		Sabino Salazar
	8/26/2025	1.81		Sabino Salazar
	9/19/2025	2.7		Sabino Salazar
	10/14/2025	1		Field Day
		10.25		
Lower Lopez				
	5/30/2025	0.42		Sabino Salazar
	6/5/2025	1		Sabino Salazar
	6/19/2025	0		Sabino Salazar
	7/17/2025	0.49		Sabino Salazar
	7/31/25	1.59		Sabino Salazar
	8/26/2025	1.75		Sabino Salazar
	9/19/2025	2.28		Sabino Salazar
	10/14/2025	0.94		Field Day
		8.47		
Fuertes	6/10/2025	1.15		Sabino Salazar
	7/17/2025	0.32		Sabino Salazar
	8/1/2025	1.81		Sabino Salazar
	9/12/2025	2.64		Sabino Salazar

	10/14/2025	1.45	Field Day
		7.37	
Montoya			
	6/3/2025	0.44	Sabino Salazar
	6/10/2025	0.65	Sabino Salazar
	6/27/2025	0.22	Sabino Salazar
	7/14/2025	0.21	Sabino Salazar
	8/1/2025	2.29	Sabino Salazar
	8/8/2025	0.03	Field Day
	9/12/2025	2.42	Sabino Salazar
	10/14/2025	1.35	Field Day
		7.61	
		42.75	

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Lab No.: 3818

LABORATORY ANALYSIS RESULTS

Date Reported: 06/02/2025

Send To:
55267

NORTHERN NM STOCKMANS ASSOC
DR CRISTOBAL VALENCIA
1116 SILVER AVE SW UNIT I
ALBUQUERQUE, NM 87102

Ashleigh Laugesen
Signer

Sample ID:	LOWER LOPEZ	**Date Received:**	
Client Name:		**Invoice No:**	428334
Location:		**P.O. #:**	
Date/Time Sampled:	05/20/2025	**Name of Sampler:**	
Date/Time Submitted:	05/23/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

Livestock - Beef Cattle

		Excellent	Good	Fair	Poor	Very Poor
		1000	2000	4000	6000	10000
Total Dissolved Solids (Calc) (TDS), mg/L	349					
		Very Low	Low	Medium	High	Very High
		10.0	30.0	70.0	100	300
Nitrate Nitrogen (NO3-N), mg/L	0.17					
		200	500	1000	2500	4000
Sulfate (SO4), mg/L	160					
		65	170	340	670	1300
Sulfate-Sulfur (SO4-S), mg/L	54					
		35	130	250	500	1000
Chloride (Cl), mg/L	4.2					
		25	75	150	300	500
Total Sodium (Na), mg/L	6					
		40	100	200	400	600
Total Calcium (Ca), mg/L	81					
		25	50	120	250	500
Total Magnesium (Mg), mg/L	19					
		40	80	100	160	200
Total Potassium (K), mg/L	13					
		0.10	0.20	0.40	0.80	1.20
Total Iron (Fe), mg/L	0.64					
		0.010	0.025	0.050	0.075	0.150
Total Manganese (Mn), mg/L	0.070					
		Soft	Moderately Hard	Hard	Very Hard	Brackish
		60	120	180	270	480
Hardness (CaCO3), mg/L	280					
		3.5	7.0	11	16	24
Hardness (CaCO3), grains/gal	16					

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	545

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Lab No.: 3818

LABORATORY ANALYSIS RESULTS

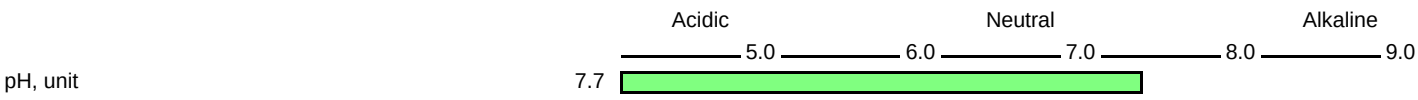
Date Reported: 06/02/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Ashleigh Laugesen
Signer

Sample ID:	LOWER LOPEZ	**Date Received:**	
Client Name:		**Invoice No:**	428334
Location:		**P.O. #:**	
Date/Time Sampled:	05/20/2025	**Name of Sampler:**	
Date/Time Submitted:	05/23/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

Livestock - Beef Cattle



INTERPRETATIONS for MATURE BEEF CATTLE ..... The following interpretations are considered appropriate for cows, bulls, and finishing cattle. The actual effect of a particular water source on health or performance depends on many factors, including diet, animal activity, air temperature, animal size, and condition. *(Interpretations for beef calves or dairy cattle are available on requrest.)*

TOTAL DISSOLVED SOLIDS, CONDUCTIVITY: EXCELLENT QUALITY ("fresh" water): Should have no effect on health or performance.

NITRATE-NITROGEN: This water should have no effect on animal health or performance.

CHLORIDE: Chloride by itself poses little risk, but is considered a dissolved solid. See Total Dissolved Solids comments.

SODIUM: Sodium by itself poses little risk but is considered a dissolved solid. See Total Dissolved Solids comments.

CALCIUM: This concentration is not expected to affect animal health or performance.

MAGNESIUM: Should not have significant long-term effects on animal health or performance, but is considered part of dissolved solids (see Total Dissolved Solids comments)

POTASSIUM: Not expected to affect health or performance.

IRON: No specific production or health problems are expected from using this water as a drinking water source..

IRON: May impart off-taste to meat of young animals (e.g., veal calves).

MANGANESE: No specific production problems expected from using this water.

MANGANESE: May impart off-taste to meat of young animals (e.g., veal calves).

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LABORATORY ANALYSIS RESULTS

Date Reported: 06/02/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Ashleigh Laugesen
Signer

Sample ID:	LOWER LOPEZ	**Date Received:**	
Client Name:		**Invoice No:**	428334
Location:		**P.O. #:**	
Date/Time Sampled:	05/20/2025	**Name of Sampler:**	
Date/Time Submitted:	05/23/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

HARDNESS: Hardness has no direct effect on drinking water safety or animal health. It can cause scale buildup and clogging of pipes and drinkers, leading to reduced water consumption and associated problems.

AVERAGE DAILY WATER CONSUMPTION (gallons per head per day)

Feeder, finishing	10 to 12 gal.	Cow, dry or mature	10 gal.
Bulls	12 gal.	Cow with calf	12 gal.

(Note: Water consumption may increase by 1½ to 2 times when temperatures exceed 80°F.)

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LABORATORY ANALYSIS RESULTS

Date Reported: 06/02/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Ashleigh Laugesen
Signer

Sample ID:	LOWER LOPEZ	**Date Received:**	
Client Name:		**Invoice No:**	428334
Location:		**P.O. #:**	
Date/Time Sampled:	05/20/2025	**Name of Sampler:**	
Date/Time Submitted:	05/23/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

Livestock - Beef Calves

		Excellent	Good	Fair	Poor	Very Poor
		500	1000	2000	3500	5000
Total Dissolved Solids (Calc) (TDS), mg/L	349					
		Very Low	Low	Medium	High	Very High
		10.0	20.0	40.0	70.0	100
Nitrate Nitrogen (NO3-N), mg/L	0.17					
		100	200	450	1200	2000
Sulfate (SO4), mg/L	160					
		35	65	150	400	670
Sulfate-Sulfur (SO4-S), mg/L	54					
		20	70	140	300	500
Chloride (Cl), mg/L	4.2					
		20	50	100	200	350
Total Sodium (Na), mg/L	6					
		30	60	120	240	450
Total Calcium (Ca), mg/L	81					
		20	35	80	170	350
Total Magnesium (Mg), mg/L	19					
		10	25	50	100	150
Total Potassium (K), mg/L	13					
		0.10	0.20	0.40	0.80	1.20
Total Iron (Fe), mg/L	0.64					
		0.010	0.025	0.050	0.075	0.150
Total Manganese (Mn), mg/L	0.070					
		Soft	Moderately Hard	Hard	Very Hard	Brackish
		60	120	180	270	400
Hardness (CaCO3), mg/L	280					
		3.5	7.0	11	16	24
Hardness (CaCO3), grains/gal	16					

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	545

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LABORATORY ANALYSIS RESULTS

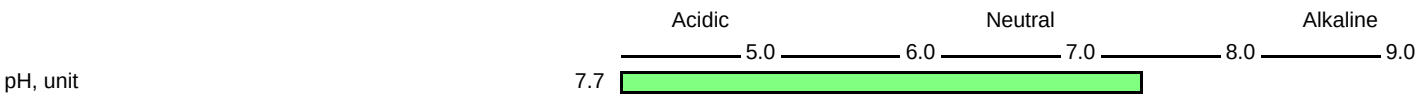
Date Reported: 06/02/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Ashleigh Laugesen
Signer

Sample ID:	LOWER LOPEZ	**Date Received:**	
Client Name:		**Invoice No:**	428334
Location:		**P.O. #:**	
Date/Time Sampled:	05/20/2025	**Name of Sampler:**	
Date/Time Submitted:	05/23/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

Livestock - Beef Calves



INTERPRETATIONS for BEEF CALVES ..... The following interpretations are considered appropriate for weaned, yearling, or growing cattle. The actual effect of a particular water source on health or performance depends on many factors, including diet, animal activity, air temperature, animal size, and condition. *(Interpretations for mature beef cattle or dairy cattle are available on requrest.)*

TOTAL DISSOLVED SOLIDS, CONDUCTIVITY: EXCELLENT QUALITY ("fresh" water): Should have no effect on health or performance.

NITRATE-NITROGEN: This water should have no effect on animal health or performance.

SULFATE: This water should have no effect on health or performance.

SULFATE: This water should not affect animal health or performance, but trace mineral availability may be affected.

CHLORIDE: Chloride by itself poses little risk, but is considered a dissolved solid. See Total Dissolved Solids comments.

SODIUM: Sodium by itself poses little risk but is considered a dissolved solid. See Total Dissolved Solids comments.

CALCIUM: This concentration is not expected to affect animal health or performance.

MAGNESIUM: Should not have significant long-term effects on animal health or performance, but is considered part of dissolved solids (see Total Dissolved Solids comments)

POTASSIUM: Not expected to affect health or performance.

IRON: No specific production or health problems are expected from using this water as a drinking water source..

IRON: May impart off-taste to meat of young animals (e.g., veal calves).

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Lab No.: 3818

LABORATORY ANALYSIS RESULTS

Date Reported: 06/02/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Ashleigh Laugesen
Signer

Sample ID:	LOWER LOPEZ	**Date Received:**	
Client Name:		**Invoice No:**	428334
Location:		**P.O. #:**	
Date/Time Sampled:	05/20/2025	**Name of Sampler:**	
Date/Time Submitted:	05/23/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

MANGANESE: No specific production problems expected from using this water.

MANGANESE: May impart off-taste to meat of young animals (e.g., veal calves).

HARDNESS: Hardness has no direct effect on drinking water safety or animal health. It can cause scale buildup and clogging of pipes and drinkers, leading to reduced water consumption and associated problems.

AVERAGE DAILY WATER CONSUMPTION (gallons per head per day)

Calf (2 to 4 mo.) ..... 2 to 3.5 gal.
Feeder, growing (400-800 lb.) ..... 6 to 9 gal.
(Note: Water consumption may increase by 1½ to 2 times when temperatures exceed 80°F.)

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Lab No.: 5463

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	CANO SPRING	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Cattle

		Excellent	Good	Fair	Poor	Very Poor
		1000	2000	4000	6000	10000
Total Dissolved Solids (Calc) (TDS), mg/L	303					
		Very Low	Low	Medium	High	Very High
		10.0	30.0	70.0	100	300
Nitrate Nitrogen (NO3-N), mg/L	0.14					
		200	500	1000	2500	4000
Sulfate (SO4), mg/L	140					
		65	170	340	670	1300
Sulfate-Sulfur (SO4-S), mg/L	46					
		35	130	250	500	1000
Chloride (Cl), mg/L	1.4					
		25	75	150	300	500
Total Sodium (Na), mg/L	3					
		40	100	200	400	600
Total Calcium (Ca), mg/L	86					
		25	50	120	250	500
Total Magnesium (Mg), mg/L	12					
		40	80	100	160	200
Total Potassium (K), mg/L	12					
		0.10	0.20	0.40	0.80	1.20
Total Iron (Fe), mg/L	4.54					
		0.010	0.025	0.050	0.075	0.150
Total Manganese (Mn), mg/L	0.080					
		Soft	Moderately Hard	Hard	Very Hard	Brackish
		60	120	180	270	480
Hardness (CaCO3), mg/L	260					
		3.5	7.0	11	16	24
Hardness (CaCO3), grains/gal	15					

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	474

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Lab No.: 5463

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	CANO SPRING	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Cattle

		Acidic			Neutral			Alkaline
		5.0		6.0		7.0	8.0	9.0
pH, unit	7.8							

INTERPRETATIONS for MATURE BEEF CATTLE ..... The following interpretations are considered appropriate for cows, bulls, and finishing cattle. The actual effect of a particular water source on health or performance depends on many factors, including diet, animal activity, air temperature, animal size, and condition. *(Interpretations for beef calves or dairy cattle are available on requrest.)*

TOTAL DISSOLVED SOLIDS, CONDUCTIVITY: **EXCELLENT QUALITY ("fresh" water):** Should have no effect on health or performance.

NITRATE-NITROGEN: This water should have no effect on animal health or performance.

CHLORIDE: Chloride by itself poses little risk, but is considered a dissolved solid. See Total Dissolved Solids comments.

SODIUM: Sodium by itself poses little risk but is considered a dissolved solid. See Total Dissolved Solids comments.

CALCIUM: This concentration is not expected to affect animal health or performance.

MAGNESIUM: Should not have significant long-term effects on animal health or performance, but is considered part of dissolved solids (see Total Dissolved Solids comments)

POTASSIUM: Not expected to affect health or performance.

IRON: No specific health problems are expected from using this as a drinking water source. Performance is likely to be affected by improper equipment function, rather than health problems. High iron concentration may result in increased microbial growth and biofilm buildup in watering equipment. Dietary copper need may increase in certain cases.

IRON: May impart off-taste to meat of young animals (e.g., veal calves).

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Lab No.: 5463

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	CANO SPRING	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

MANGANESE: Performance likely to be affected by improper equipment functions due to high manganese concentration (resulting in increased microbial growth and biofilm buildup) rather than specific health problems.

MANGANESE: May impart off-taste to meat of young animals (e.g., veal calves).

HARDNESS: Hardness has no direct effect on drinking water safety or animal health. It can cause scale buildup and clogging of pipes and drinkers, leading to reduced water consumption and associated problems.

AVERAGE DAILY WATER CONSUMPTION (gallons per head per day)

Feeder, finishing	10 to 12 gal.	Cow, dry or mature	10 gal.
Bulls	12 gal.	Cow with calf	12 gal.

(Note: Water consumption may increase by 1½ to 2 times when temperatures exceed 80°F.)

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Lab No.: 5463

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	CANO SPRING	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Calves

		Excellent	Good	Fair	Poor	Very Poor
		500	1000	2000	3500	5000
Total Dissolved Solids (Calc) (TDS), mg/L	303					

		Very Low	Low	Medium	High	Very High
		10.0	20.0	40.0	70.0	100
Nitrate Nitrogen (NO3-N), mg/L	0.14					
		100	200	450	1200	2000
Sulfate (SO4), mg/L	140					
		35	65	150	400	670
Sulfate-Sulfur (SO4-S), mg/L	46					
		20	70	140	300	500
Chloride (Cl), mg/L	1.4					
		20	50	100	200	350
Total Sodium (Na), mg/L	3					
		30	60	120	240	450
Total Calcium (Ca), mg/L	86					
		20	35	80	170	350
Total Magnesium (Mg), mg/L	12					
		10	25	50	100	150
Total Potassium (K), mg/L	12					
		0.10	0.20	0.40	0.80	1.20
Total Iron (Fe), mg/L	4.54					
		0.010	0.025	0.050	0.075	0.150
Total Manganese (Mn), mg/L	0.080					

		Soft	Moderately Hard	Hard	Very Hard	Brackish
		60	120	180	270	400
Hardness (CaCO3), mg/L	260					
		3.5	7.0	11	16	24
Hardness (CaCO3), grains/gal	15					

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	474

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Lab No.: 5463

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	CANO SPRING	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Calves

		Acidic			Neutral			Alkaline	
		5.0		6.0		7.0	8.0		9.0
pH, unit	7.8								

INTERPRETATIONS for BEEF CALVES ..... The following interpretations are considered appropriate for weaned, yearling, or growing cattle. The actual effect of a particular water source on health or performance depends on many factors, including diet, animal activity, air temperature, animal size, and condition. *(Interpretations for mature beef cattle or dairy cattle are available on requrest.)*

TOTAL DISSOLVED SOLIDS, CONDUCTIVITY: EXCELLENT QUALITY ("fresh" water): Should have no effect on health or performance.

NITRATE-NITROGEN: This water should have no effect on animal health or performance.

SULFATE: This water should have no effect on health or performance.

SULFATE: This water should not affect animal health or performance, but trace mineral availability may be affected.

CHLORIDE: Chloride by itself poses little risk, but is considered a dissolved solid. See Total Dissolved Solids comments.

SODIUM: Sodium by itself poses little risk but is considered a dissolved solid. See Total Dissolved Solids comments.

CALCIUM: This concentration is not expected to affect animal health or performance.

MAGNESIUM: Should not have significant long-term effects on animal health or performance, but is considered part of dissolved solids (see Total Dissolved Solids comments)

POTASSIUM: Not expected to affect health or performance.

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Lab No.: 5463

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	CANO SPRING	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

IRON: No specific health problems are expected from using this as a drinking water source. Performance is likely to be affected by improper equipment function, rather than health problems. High iron concentration may result in increased microbial growth and biofilm buildup in watering equipment. Dietary copper need may increase in certain cases.

IRON: May impart off-taste to meat of young animals (e.g., veal calves).

MANGANESE: Performance likely to be affected by improper equipment functions due to high manganese concentration (resulting in increased microbial growth and biofilm buildup) rather than specific health problems.

MANGANESE: May impart off-taste to meat of young animals (e.g., veal calves).

HARDNESS: Hardness has no direct effect on drinking water safety or animal health. It can cause scale buildup and clogging of pipes and drinkers, leading to reduced water consumption and associated problems.

AVERAGE DAILY WATER CONSUMPTION (gallons per head per day)

Calf (2 to 4 mo.) ..... 2 to 3.5 gal.
Feeder, growing (400-800 lb.) ..... 6 to 9 gal.
(Note: Water consumption may increase by 1½ to 2 times when temperatures exceed 80°F.)

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Lab No.: 5464

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	MONTOYA TANK	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Cattle

		Excellent	Good	Fair	Poor	Very Poor
		1000	2000	4000	6000	10000
Total Dissolved Solids (Calc) (TDS), mg/L	243					

		Very Low	Low	Medium	High	Very High
		10.0	30.0	70.0	100	300
Nitrate Nitrogen (NO3-N), mg/L	<0.1					
		200	500	1000	2500	4000
Sulfate (SO4), mg/L	1.3					
		65	170	340	670	1300
Sulfate-Sulfur (SO4-S), mg/L	0.44					
		35	130	250	500	1000
Chloride (Cl), mg/L	8.4					
		25	75	150	300	500
Total Sodium (Na), mg/L	4					
		40	100	200	400	600
Total Calcium (Ca), mg/L	50					
		25	50	120	250	500
Total Magnesium (Mg), mg/L	14					
		40	80	100	160	200
Total Potassium (K), mg/L	18					
		0.10	0.20	0.40	0.80	1.20
Total Iron (Fe), mg/L	1.76					
		0.010	0.025	0.050	0.075	0.150
Total Manganese (Mn), mg/L	0.170					

		Soft	Moderately Hard	Hard	Very Hard	Brackish
		60	120	180	270	480
Hardness (CaCO3), mg/L	180					
		3.5	7.0	11	16	24
Hardness (CaCO3), grains/gal	11					

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	380

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Lab No.: 5464

LABORATORY ANALYSIS RESULTS

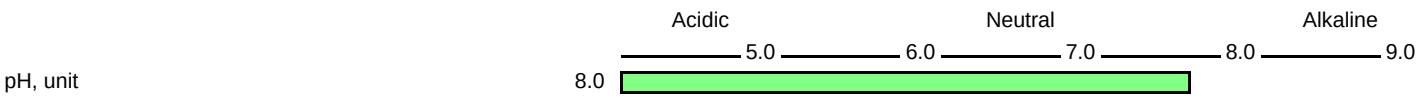
Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	MONTOYA TANK	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Cattle



INTERPRETATIONS for MATURE BEEF CATTLE ..... The following interpretations are considered appropriate for cows, bulls, and finishing cattle. The actual effect of a particular water source on health or performance depends on many factors, including diet, animal activity, air temperature, animal size, and condition. *(Interpretations for beef calves or dairy cattle are available on requrest.)*

TOTAL DISSOLVED SOLIDS, CONDUCTIVITY: **EXCELLENT QUALITY ("fresh" water):** Should have no effect on health or performance.

NITRATE-NITROGEN: This water should have no effect on animal health or performance.

CHLORIDE: Chloride by itself poses little risk, but is considered a dissolved solid. See Total Dissolved Solids comments.

SODIUM: Sodium by itself poses little risk but is considered a dissolved solid. See Total Dissolved Solids comments.

CALCIUM: This concentration is not expected to affect animal health or performance.

MAGNESIUM: Should not have significant long-term effects on animal health or performance, but is considered part of dissolved solids (see Total Dissolved Solids comments)

POTASSIUM: Not expected to affect health or performance.

IRON: No specific health problems are expected from using this as a drinking water source. Performance is likely to be affected by improper equipment function, rather than health problems. High iron concentration may result in increased microbial growth and biofilm buildup in watering equipment. Dietary copper need may increase in certain cases.

IRON: May impart off-taste to meat of young animals (e.g., veal calves).

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Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	MONTOYA TANK	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

MANGANESE: Performance likely to be affected by improper equipment functions due to high manganese concentration (resulting in increased microbial growth and biofilm buildup) rather than specific health problems.

MANGANESE: May impart off-taste to meat of young animals (e.g., veal calves).

HARDNESS: Hardness has no direct effect on drinking water safety or animal health. It can cause scale buildup and clogging of pipes and drinkers, leading to reduced water consumption and associated problems.

AVERAGE DAILY WATER CONSUMPTION (gallons per head per day)

Feeder, finishing	10 to 12 gal.	Cow, dry or mature	10 gal.
Bulls	12 gal.	Cow with calf	12 gal.

(Note: Water consumption may increase by 1½ to 2 times when temperatures exceed 80°F.)

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Lab No.: 5464

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	MONTOYA TANK	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Calves

		Excellent	Good	Fair	Poor	Very Poor
		500	1000	2000	3500	5000
Total Dissolved Solids (Calc) (TDS), mg/L	243					

		Very Low	Low	Medium	High	Very High
		10.0	20.0	40.0	70.0	100
Nitrate Nitrogen (NO3-N), mg/L	<0.1					
		100	200	450	1200	2000
Sulfate (SO4), mg/L	1.3					
		35	65	150	400	670
Sulfate-Sulfur (SO4-S), mg/L	0.44					
		20	70	140	300	500
Chloride (Cl), mg/L	8.4					
		20	50	100	200	350
Total Sodium (Na), mg/L	4					
		30	60	120	240	450
Total Calcium (Ca), mg/L	50					
		20	35	80	170	350
Total Magnesium (Mg), mg/L	14					
		10	25	50	100	150
Total Potassium (K), mg/L	18					
		0.10	0.20	0.40	0.80	1.20
Total Iron (Fe), mg/L	1.76					
		0.010	0.025	0.050	0.075	0.150
Total Manganese (Mn), mg/L	0.170					

		Soft	Moderately Hard	Hard	Very Hard	Brackish
		60	120	180	270	400
Hardness (CaCO3), mg/L	180					
		3.5	7.0	11	16	24
Hardness (CaCO3), grains/gal	11					

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	380

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LABORATORY ANALYSIS RESULTS

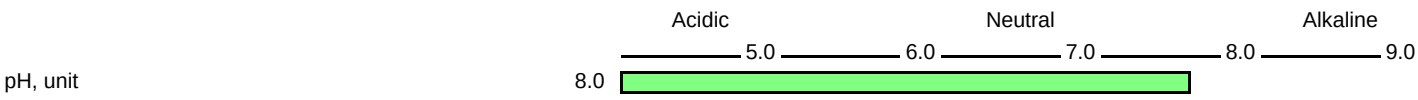
Date Reported: 08/27/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	MONTOYA TANK	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

Livestock - Beef Calves



INTERPRETATIONS for BEEF CALVES ..... The following interpretations are considered appropriate for weaned, yearling, or growing cattle. The actual effect of a particular water source on health or performance depends on many factors, including diet, animal activity, air temperature, animal size, and condition. *(Interpretations for mature beef cattle or dairy cattle are available on requrest.)*

TOTAL DISSOLVED SOLIDS, CONDUCTIVITY: EXCELLENT QUALITY ("fresh" water): Should have no effect on health or performance.

NITRATE-NITROGEN: This water should have no effect on animal health or performance.

SULFATE: This water should have no effect on health or performance.

CHLORIDE: Chloride by itself poses little risk, but is considered a dissolved solid. See Total Dissolved Solids comments.

SODIUM: Sodium by itself poses little risk but is considered a dissolved solid. See Total Dissolved Solids comments.

CALCIUM: This concentration is not expected to affect animal health or performance.

MAGNESIUM: Should not have significant long-term effects on animal health or performance, but is considered part of dissolved solids (see Total Dissolved Solids comments)

POTASSIUM: Not expected to affect health or performance.

IRON: No specific health problems are expected from using this as a drinking water source. Performance is likely to be affected by improper equipment function, rather than health problems. High iron concentration may result in increased microbial growth and biofilm buildup in watering equipment. Dietary copper need may increase in certain cases.

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Lab No.: 5464

LABORATORY ANALYSIS RESULTS

Date Reported: 08/27/2025

Send To:
55267

NORTHERN NM STOCKMANS ASSOC
DR CRISTOBAL VALENCIA
1116 SILVER AVE SW UNIT I
ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	MONTOYA TANK	**Date Received:**	
Client Name:		**Invoice No:**	428984
Location:		**P.O. #:**	
Date/Time Sampled:	08/08/2025	**Name of Sampler:**	
Date/Time Submitted:	08/18/2025	**Name of Submitter:**	
Subject:	Drinking Water Lab Analysis	**Depth:**	

IRON: May impart off-taste to meat of young animals (e.g., veal calves).

MANGANESE: Performance likely to be affected by improper equipment functions due to high manganese concentration (resulting in increased microbial growth and biofilm buildup) rather than specific health problems.

MANGANESE: May impart off-taste to meat of young animals (e.g., veal calves).

HARDNESS: Hardness has no direct effect on drinking water safety or animal health. It can cause scale buildup and clogging of pipes and drinkers, leading to reduced water consumption and associated problems.

AVERAGE DAILY WATER CONSUMPTION (gallons per head per day)

Calf (2 to 4 mo.) ..... 2 to 3.5 gal.
Feeder, growing (400-800 lb.) ..... 6 to 9 gal.

(Note: Water consumption may increase by 1½ to 2 times when temperatures exceed 80°F.)

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Lab No.: 546

LABORATORY ANALYSIS RESULTS

Date Reported: 11/07/2025

Send To:
55267

NORTHERN NM STOCKMANS ASSOC
DR CRISTOBAL VALENCIA
1116 SILVER AVE SW UNIT I
ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	LOWER LOPEZ TANQUE	**Date Received:**	
Client Name:		**Invoice No:**	429534
Location:		**P.O. #:**	
Date/Time Sampled:	10/14/2025	**Name of Sampler:**	
Date/Time Submitted:	10/29/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

Livestock

		Excellent	Good	Fair	Poor	Very Poor
		1000	2000	4000	6000	10000
Total Dissolved Solids (Calc) (TDS), mg/L	219					
		Very Low	Low	Medium	High	Very High
		10.0	30.0	70.0	100	300
Nitrate Nitrogen (NO3-N), mg/L	<0.1					
		200	500	1000	2500	4000
Sulfate (SO4), mg/L	48					
		65	170	340	670	1300
Sulfate-Sulfur (SO4-S), mg/L	16					
		35	130	250	500	1000
Chloride (Cl), mg/L	1.2					
		25	75	150	300	500
Total Sodium (Na), mg/L	1					
		40	100	200	400	600
Total Calcium (Ca), mg/L	61					
		25	50	120	250	500
Total Magnesium (Mg), mg/L	8					
		40	80	120	160	200
Total Potassium (K), mg/L	7					
		0.10	0.20	0.40	0.80	1.20
Total Iron (Fe), mg/L	2.70					
		0.010	0.025	0.050	0.075	0.150
Total Manganese (Mn), mg/L	0.160					
		Soft	Moderately Hard	Hard	Very Hard	Brackish
		60	120	180	270	400
Hardness (CaCO3), mg/L	190					
		3.5	7.0	11	16	24
Hardness (CaCO3), grains/gal	11					

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	342

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Lab No.: 546

LABORATORY ANALYSIS RESULTS

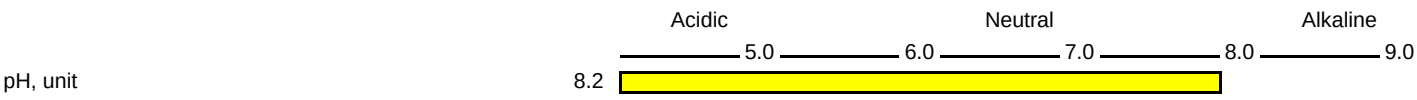
Date Reported: 11/07/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	LOWER LOPEZ TANQUE	**Date Received:**	
Client Name:		**Invoice No:**	429534
Location:		**P.O. #:**	
Date/Time Sampled:	10/14/2025	**Name of Sampler:**	
Date/Time Submitted:	10/29/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

Livestock



More information is available at **cropfile.servitech.com**, 5.00.000 Water Resource Management (panel), 5.03 Livestock Water Quality (dropdown) and 5.03 Livestock Water Surveys (dropdown).

INTERPRETATIONS for GENERAL LIVESTOCK PRODUCTION ..... The following statements are general interpretations for a wide range of common livestock and poultry animals. The actual effect of a particular water source on health or performance depends on many factors, including diet, animal activity, air temperature, animal size, and condition. Interpretations for specific livestock types are available on request, including: *beef cattle, beef calves, dairy cattle, dairy calves, mature hogs, young pigs, poultry, horses, or sheep/goats*.

TOTAL DISSOLVED SOLIDS, CONDUCTIVITY: EXCELLENT QUALITY ("fresh" water): Low salinity level. Suitable for all classes of livestock and poultry.

NITRATE-NITROGEN: VERY LOW: Should have no effect on animal health or performance.

SULFATE: VERY LOW: Considered safe for all classes of livestock. No problems are expected. Could possibly affect poultry performance at upper end of range when sodium, magnesium, or chloride levels are high.

CHLORIDE: VERY LOW: Chloride is considered a dissolved solid. See TDS comments. Levels greater than 15 to 25 mg/L might affect poultry production when sodium exceeds 50 mg/L.

SODIUM: VERY LOW: Presents little or no risk to livestock or poultry.

CALCIUM: LOW: No effect expected for livestock or poultry use.

MAGNESIUM: VERY LOW: Presents little or no risk to livestock or poultry.

POTASSIUM: VERY LOW: This water is considered satisfactory for all classes of animals.

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Lab No.: 546

LABORATORY ANALYSIS RESULTS

Date Reported: 11/07/2025

Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102

Amy Meier
Data Review Coordinator

Sample ID:	LOWER LOPEZ TANQUE	**Date Received:**	
Client Name:		**Invoice No:**	429534
Location:		**P.O. #:**	
Date/Time Sampled:	10/14/2025	**Name of Sampler:**	
Date/Time Submitted:	10/29/2025	**Name of Submitter:**	
Subject:	Livestock Water Lab Analysis	**Depth:**	

IRON: EXTREMELY HIGH: Performance likely to be affected by improper equipment function, due to high iron concentration resulting in increased microbial growth and biofilm buildup in watering equipment. High iron in drinking water may also reduce water intake which can directly reduce feed intake or milk production. This water may impart off-taste to meat of young animals (e.g., veal calves) or to milk. Excess absorbed iron from drinking water can lead to cellular oxidative stress, can inhibit copper and zinc absorption, and reduced growth or production. Seek professional advice regarding use of this water for livestock consumption.

MANGANESE: EXTREMELY HIGH (over 0.0150 mg/L): Performance likely to be affected by improper equipment functions due to high manganese concentration (resulting in increased microbial growth and biofilm buildup) rather than specific livestock health problems. May impart off-taste to meat of young animals (e.g., veal calves).

HARDNESS: VERY HARD: Hardness has no direct effect on drinking water safety or animal health. It can cause scale buildup and clogging of pipes and drinkers, leading to reduced water consumption and associated problems.

AVERAGE DAILY WATER CONSUMPTION (gallons per day)

Beef cattle ..... 7 to 12 per head	Sheep, goats ..... 2 to 4 per head
Dairy cattle ..... 10 to 40 per head	Chickens ..... 8 to 10 per hundred birds
Swine ..... 2 to 8 per head	Turkeys ..... 10 to 15 per hundred birds
Horses ..... 8 to 12 per head	

(Note: Water consumption may increase by 1½ to 2 times when temperatures exceed 80°F.)

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