



Northern New Mexico Stockman's Association

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Carlos Salazar, President



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

2025 Rangeland Assessment: YOUNGSVILLE ALLOTMENT

Project Team:

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National Institute of Food and Agriculture

U.S. DEPARTMENT OF AGRICULTURE



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 on the Youngsville allotment in 2025 were characterized by a very dry year and limited precipitation, with most rainfall occurring late in the season. Early in the grazing period, cold soil temperatures slowed forage growth, and minimal forage production persisted through much of the season. Stockwater availability was uneven, with low levels in tanks and earthen dams—such as Lookout tanque, which was nearly dry mid-season—while springs like Pavo Spring were flowing but did not offset broader stockwater limitations. Heavy elk presence was documented across the allotment, including in Cañada de Grants and along all monitored transects, with grazing occurring prior to and throughout livestock use. Some areas, such as Punta de la Sierra, showed localized heavy use. Overall, conditions reflected limited forage availability, constrained stockwater distribution, and sustained wildlife grazing pressure.



Figure 1 Minimal forage growth at mid-season. El Valle August 7 2025.

Conditions

- Very dry year; lack of precipitation
- Delayed precipitation, with most rainfall occurring late in the season
- Cold soil temperatures early in the season slowing forage growth
- Minimal forage growth through most of the grazing season
- Low water levels in tanks and earthen dams; some nearly dry
- Uneven water availability across pastures
- Springs flowing, but not sufficient to offset overall water limitations
- Heavy elk presence across the allotment
- Elk grazing occurring prior to and throughout the grazing season
- Localized overgrazing in some areas (e.g., Punta de la Sierra)
- Grasshopper presence affecting forage

These conditions resulted in direct impacts to livestock operations. Reduced forage availability led to livestock moving earlier than planned. Limited and uneven stockwater availability restricted use of portions of the allotment and reduced grazing distribution, as livestock movement remained closely tied to available stockwater. Elk grazing further reduced available forage, increasing competition with livestock. The late timing of precipitation shortened the effective grazing period, as forage production did not occur when needed during the primary grazing season.



Figure 2 Low stream flow. Pavo Spring August 7 2025.

Impacts of Conditions on Livestock Operations

- Reduced forage availability across the allotment
- Livestock moved earlier than planned due to lack of forage
- Shortened effective grazing period due to delayed precipitation and late forage growth
- Restricted use of portions of the allotment due to limited water availability
- Limited access to water in key pastures as tanks and dams dried or nearly dried
- Reduced grazing distribution due to uneven water availability
- Reduced available forage due to elk grazing prior to and during livestock use

Management responses centered on adjusting livestock use in relation to forage availability and stockwater distribution. Producers voluntarily reduced herd size, including selling livestock, in response to limited forage. Use of the allotment was adjusted by increasing distribution where stockwater was available, while some areas were not used, concentrating grazing in accessible locations. Maintenance of stockwater infrastructure, including cleaning and maintaining ponds, was undertaken to support available use. At the same time, management was constrained by the inability to condition cattle to new areas, limited implementation of rotational systems due to stockwater availability, and external factors such as high hay costs and the lack of a second hay cutting.

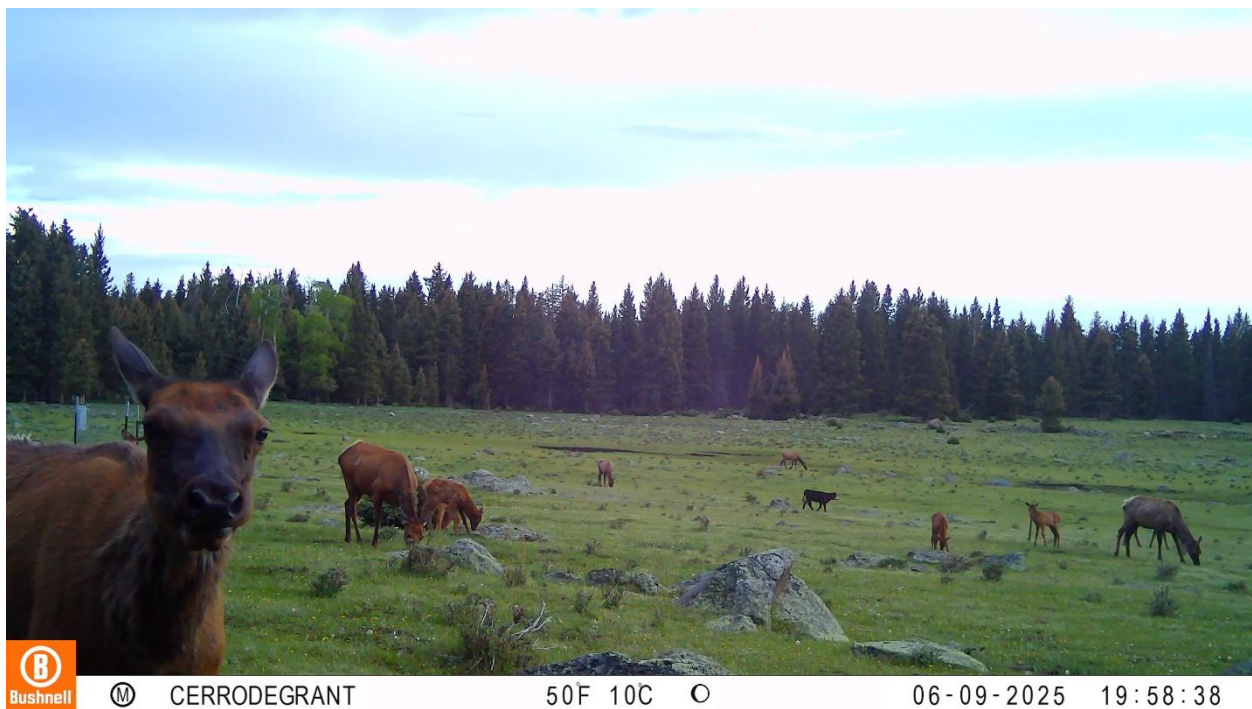


Figure 3 Elk outnumbering and beating livestock to forage in Cerro de Grants.

Management Practices and Best Practices

- Voluntary reduction in herd size, including selling livestock, in response to limited forage
- Increasing livestock distribution and adjusting use of the allotment based on available water
- Not using some areas of the allotment, concentrating use in accessible areas
- Cleaning and maintaining ponds to support water availability

Decision-making was driven primarily by forage availability, stockwater availability and distribution, precipitation conditions, and market factors. Limited forage and drought conditions—evidenced by the lack of a second hay cutting—directly influenced decisions regarding livestock numbers and management practices. Stockwater availability further constrained how and where the allotment could be used. Market conditions also played a role, particularly in decisions to reduce herd size. The most useful data for making rangeland assessments included forage and stockwater measurements, supported by first-hand visual observation, which remained central to interpreting conditions on the ground.

Decision-Making Factors and Useful Data

- Forage availability
- Forage measurements
- Stockwater availability and distribution
- Stockwater measurements
- Precipitation conditions, including lack of second hay cutting
- Market conditions influencing herd reduction decisions
- First-hand visual observation

Understanding of conditions and impacts evolved primarily through increasing recognition of the role of limited precipitation and wildlife grazing in shaping forage availability. Producers identified lack of precipitation as a central driver of reduced forage production and overall allotment conditions. Over time, there was also greater recognition of the impact of elk grazing on available forage and grazing pressure across the allotment.

Changes in Understanding Over Time

- Increased recognition of the effects of limited precipitation on forage production
- Increased recognition of the impact of elk grazing on forage availability and allotment conditions

Producers identified several gaps in available information needed to fully assess rangeland conditions. Additional monitoring of snowfall and the amount of stockwater in tanks was identified as important for understanding seasonal water availability. Producers also indicated that assessments should consider measures beyond forage production to better capture overall conditions. There was a need for more representative data across the allotment, including additional transects, as well as support in analyzing collected data and establishing baseline conditions. Producers emphasized the value of assessment meetings where quantitative data is interpreted alongside rancher expertise, and they noted that participation from New Mexico Department of Game and Fish would improve management of wildlife impacts on allotment conditions.

Missing Information

- Monitoring snowfall
- Monitoring amount of stockwater in tanks
- Measures beyond forage production for assessment
- More representative data across the allotment (additional transects)

- Support in analyzing data and establishing baseline conditions
- Integration of quantitative data with rancher expertise in assessment meetings
- Participation of New Mexico Department of Game and Fish in monitoring

Producer-derived recommendations centered on improving stockwater availability and adjusting livestock numbers in response to forage conditions. Producers described cleaning and maintaining ponds and supporting stockwater developments to improve access across the allotment. They also emphasized voluntary reduction of livestock numbers during periods of limited forage, increasing livestock distribution where stockwater is available, and utilizing additional areas of the allotment when conditions allow.

Recommendations from extended analysis emphasized broader management strategies. These included improving stockwater availability to enable fuller use of the allotment, maintaining and rehabilitating existing stockwater infrastructure, and adjusting stocking levels in response to forage production and precipitation conditions. The synthesis also highlighted the importance of using stockwater availability to guide livestock distribution and incorporating wildlife grazing pressure, particularly elk, into management planning.

Producer-Derived Recommendations

- Clean and maintain ponds to improve stockwater availability
- Improve and maintain stockwater developments completed by producers and agencies
- Voluntary reduction of livestock numbers during limited forage conditions
- Increase livestock distribution where stockwater is available
- Utilize additional areas of the allotment when stockwater allows

Recommendations from Extended Analysis

- Improve stockwater availability to enable fuller use of the allotment
- Maintain and rehabilitate existing tanks, ponds, and stockwater infrastructure
- Adjust stocking levels in response to forage production and precipitation conditions
- Use stockwater availability to guide livestock distribution across the allotment
- Incorporate wildlife grazing pressure, particularly elk, into management planning



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Dear Northern New Mexico Stockman's Association,

At the request of producers of the Youngsville allotment on the Santa Fe 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; AU_Y) with a 40 percent forage allocation. To convert this to animal unit months (AUM), multiply 429 AU_Y by 12 months (5148 AUM). Alternatively, if an estimate of animal units for the duration of the grazing season (165 days; Table 3) is desired, multiply 429 AU_Y by 365 days, then divide that by the grazing duration (949 Animal Unit Equivalent; AUE). This can be compared to the permitted livestock in Table 3 (authorized numbers are 81 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 decreased from the estimates in 2023 (1,135 AUE) and 2024 (1,152 AUE). The average estimated stocking rate over three years of data is 1069 ± 60 (authorized numbers are 71.9 percent of the three-year average).



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Table 1. Youngsville Allotment 2025 Production and Use

	Mid-Year Biomass (lbs/acre)	Year-End Biomass (lbs/acre)	Annual Production (lbs/acre)	Utilization as a Percent
Cañada de Grants	510.0 ± 40.0	553.0 ± 160.0	1323.3 ± 280.0	58.2
Cerro de Grants	492.0 ± 40.0	420.0 ± 160.0	1860.0 ± 660.0	77.4
El Valle	248.0 ± 30.0	186.0 ± 50.0	586.7 ± 180.0	68.3
Riñcon	292.0 ± 30.0	192.0 ± 60.0	686.7 ± 200.0	72.0
Punta de la Sierra	150.0 ± 30.0	182.0 ± 60.0	363.0 ± 30.0	49.9
*Averages	338.4 ± 32.2	302.8 ± 53.2	966.0 ± 200.5	68.2 ± 4.9

*Averages are calculated from raw data

Table 2. Youngsville Allotment Physical Constraint of Cattle Intake

	Observed Utilization as a Percent ¹	Cattle Utilization as a Percent ²	Other Utilization as a Percent	Cow Intake for Observed Utilization (pounds/day) ³
Site Average*	68.2	18.3	49.9	97.0
Allotment Average†	68.2	32.5	35.7	54.6

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

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

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

*based on 2024 GIS information correcting for slope and distance from water by monitoring site location (reductions; 71.6%), US Forest Service.

†based on 2008 US Forest Service Environmental Assessment.



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Table 3. Allotment summary for the 2025 grazing season.

Table with 6 columns: Allotment, Cattle Intake Standard (lbs/day), Grazing Duration (days), 1,2 Permitted Livestock (AUE), 2 Allotment Grazable Acres, 3 Monitoring Site Grazable Acres. Row 1: Youngsville, 26, 165, 769, 10545, 18729.

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; 71.6%), US Forest Service.

Respectfully,

Casey Spackman
Extension Rangeland Management Specialist



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Radar - Youngsville 2025 Aug

Producer Name:	Youngsville	Pasture Name:	Composite
Date:	11-Nov-2025	Collector Name:	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
338.40 ± 32.22 lbs per acre	10545.00 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	67.4	Sedge	Carex	46.4	Unknown	6.8
Bare ground	19.2	Kentucky Bluegrass	POPR	18.4	Buckwheat	4.2
Litter	13.0	Rush	JUNCU	1.8	Clover	0.8
Rock	5.0	Arizona Fescue	FEAR	0.6	Plumajillo	0.6
-	-	Timothy		0.2	-	-

Forage Composition					
Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Sedge	Carex	73.2	2.6	1.5	-
Kentucky Bluegrass	POPR	22.8	3.9	2.5	-
Rush	JUNCU	2.4	4.3	2.5	-
Arizona Fescue	FEAR	1.0	2.3	4	Below Minimum Height
Timothy		0.4	8	0	-

Fecal Counts									
Horse	0	Elk	5	Cattle	4	Deer	1	Others	0



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Composite Analysis Details

Analysis Method: Average Reports Analyzed: 5

Analysis Date: 11-Nov-2025 Source Date Range: 07-Aug-2025 to 07-Aug-2025

Source Reports

Report Name	Producer	Pasture	Date
Youngsville Lookout 2025-1	Youngsville	Lookout	07-Aug-2025
Youngsville El Valle 2025-1	Youngsville	El Valle	07-Aug-2025
Youngsville Rincon 2025-1	Youngsville	Rincon	07-Aug-2025
Youngsville Cerro de Grants 2025-1	NNMSA	Cerro de Grants	07-Aug-2025
Youngsville Cañada de Grants 2025-1	NNMSA	Cañada de Grants	07-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 - Youngsville 2025 Oct

Producer Name:	Youngsville	Pasture Name:	Composite
Date:	11-Nov-2025	Collector Name:	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
302.80 ± 53.19 lbs per acre	10545.00 acres	429 AUY	966.00 ± 200.52 lbs per acre

Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Litter	41.8	Kentucky Bluegrass	POPR	24.2	Clover	5.4
Vegetation	37.0	Sedge	Carex	9.2	Ptoe	2.4
Bare ground	21.0	Mountain Muhly		2.6	Dand	0.4
Rock	1.0	Brome spp.		0.8	Gmal	0.2
-	-	Arizona Fescue	FEAR	0.2	Yarrow	0.2

Forage Composition						
Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline		
Kentucky Bluegrass	POPR	57.4	2	2.5	Below Minimum Height	
Sedge	Carex	32.0	3	1.5	-	
Mountain Muhly		7.6	1.7	0	-	
Brome spp.		2.4	2.5	0	-	
Arizona Fescue	FEAR	0.6	2.5	4	Below Minimum Height	

Fecal Counts									
Horse	0	Elk	6	Cattle	2	Deer	0	Others	0

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Composite Analysis Details

Analysis Method: Average Reports Analyzed: 5

Analysis Date: 11-Nov-2025 Source Date Range: 17-Oct-2025 to 17-Oct-2025

Source Reports

Report Name	Producer	Pasture	Date
Youngsville Lookout 10-2025	Youngsville	Lookout	17-Oct-2025
Youngsville El Valle 10-2025	Youngsville	El Valle	17-Oct-2025
Youngsville Rincon 10-2025	Youngsville	Rincon	17-Oct-2025
Youngsville Cerro de Grants 10-2025	Youngsville	Cerro de Grants	17-Oct-2025
Youngsville Canada de Grants 10-2025	NNMSA	Canada de Grants	17-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.

Radars - Youngsville Cañada de Grants 2025-1

Producer Name:	NNMSA	Pasture Name:	Cañada de Grants
Date:	07-Aug-2025	Collector Name:	NNMSA, USFS
Transect Number:	-	GPS Coordinates:	36.01.14 N 106.34.15 W (90°)
Notes:			



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
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510.00 ± 40.00 lbs per acre	10545 acres	0 AU/Y	0.00 ± 0.00 lbs per acre
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Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
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Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Vegetation	92.0	Sedge	Carex	61.0	-	-
Bare ground	7.0	Kentucky Bluegrass	POPR	30.0	-	-
Rock	1.0	Unknown	UNKNOWN	1.0	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Forage Composition						
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Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Sedge	Carex	68.0	2.8	1.50	-
Kentucky Bluegrass	POPR	32.0	4.8	2.50	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts									
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Horse	-	Elk	-	Cattle	-	Deer	-	Others	-
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Ground Photo



Landscape Photo



Radars - Youngsville Canada de Grants 10-2025

Producer Name:	NNMSA	Pasture Name:	Canada de Grants
Date:	17-Oct-2025	Collector Name:	NNMSA
Transect Number:	-	GPS Coordinates:	36.020832, -106.570939 (22°)
Notes:			



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
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534.00 ± 160.00 lbs per acre	10545 acres	588 AU/yr	1323.33 ± 370.00 lbs per acre
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Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
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Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Vegetation	59.0	Kentucky Bluegrass	POPR	38.0	Clover	8.0
Litter	29.0	Sedge	Carex	7.0	Yarrow	1.0
Bare ground	12.0	Brome spp.	Brome	4.0	-	-
-	-	Mountain Muhly	MUMO	1.0	-	-
-	-	-	-	-	-	-

Forage Composition						
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Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Kentucky Bluegrass	POPR	76.0	1.5	2.50	Below Minimum Height
Sedge	Carex	13.0	2.7	1.50	-
Brome spp.	Brome	10.0	2.6	4.00	Below Minimum Height
Mountain Muhly	MUMO	1.0	1.0	2.50	Below Minimum Height
-	-	-	-	-	-

Fecal Counts									
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Horse	0	Elk	10	Cattle	3	Deer	0	Others	0
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Ground Photo



Landscape Photo



Radars - Youngsville Cerro de Grants 2025-1

Producer Name:	NNMSA	Pasture Name:	Cerro de Grants
Date:	07-Aug-2025	Collector Name:	NNMSA, USFS
Transect Number:	-	GPS Coordinates:	36.00.50 N 106.32.22 W (140°)
Notes:			



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
492.00 ± 40.00 lbs per acre	10545 acres	0 AU/acre	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	86.0	Sedge	Carex	39.0	Clover	4.0
Bare ground	9.0	Kentucky Bluegrass	POPR	29.0	-	-
Litter	4.0	Unknown	UNKNOWN	14.0	-	-
Rock	1.0	-	-	-	-	-
-	-	-	-	-	-	-

Forage Composition					
Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Sedge	Carex	52.0	2.3	1.50	-
Kentucky Bluegrass	POPR	48.0	2.9	2.50	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts					
Horse	Elk	Cattle	Deer	Others	
-	1	2	-	-	-

Ground Photo



Landscape Photo



Radars - Youngsville Cerro de Grants 10-2025

Producer Name:	Youngsville	Pasture Name:	Cerro de Grants
Date:	17-Oct-2025	Collector Name:	NNMSA
Transect Number:	-	GPS Coordinates:	36.013886, -106.539526 (130°)
Notes:			



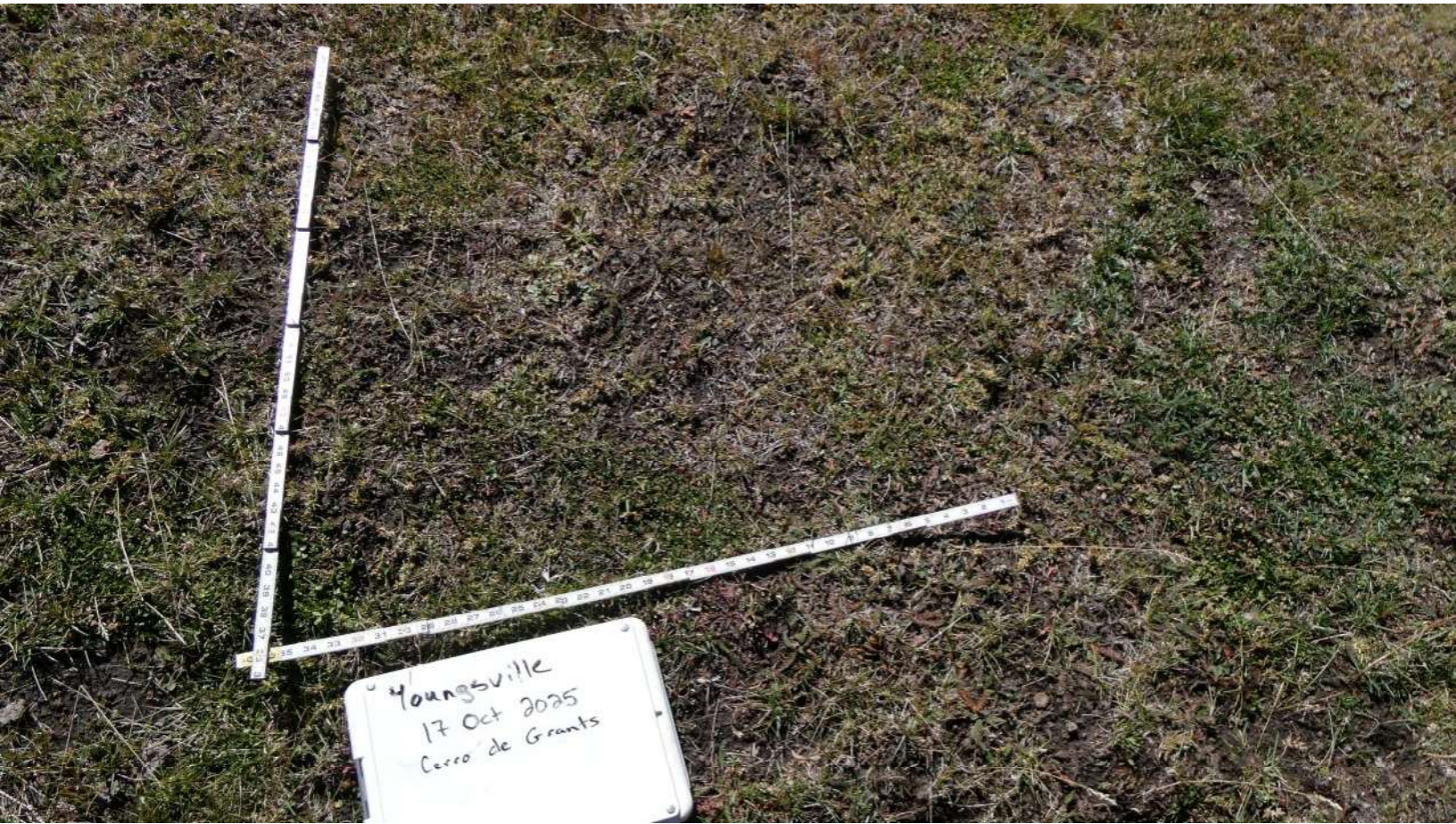
Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
420.00 ± 160.00 lbs per acre	10545 acres	826 AU/Y	1860.00 ± 660.00 lbs per acre

Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Vegetation	48.0	Kentucky Bluegrass	POPR	22.0	Clover	19.0
Litter	42.0	Mountain Muhly	MUMO	6.0	-	-
Bare ground	10.0	Sedge	Carex	1.0	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

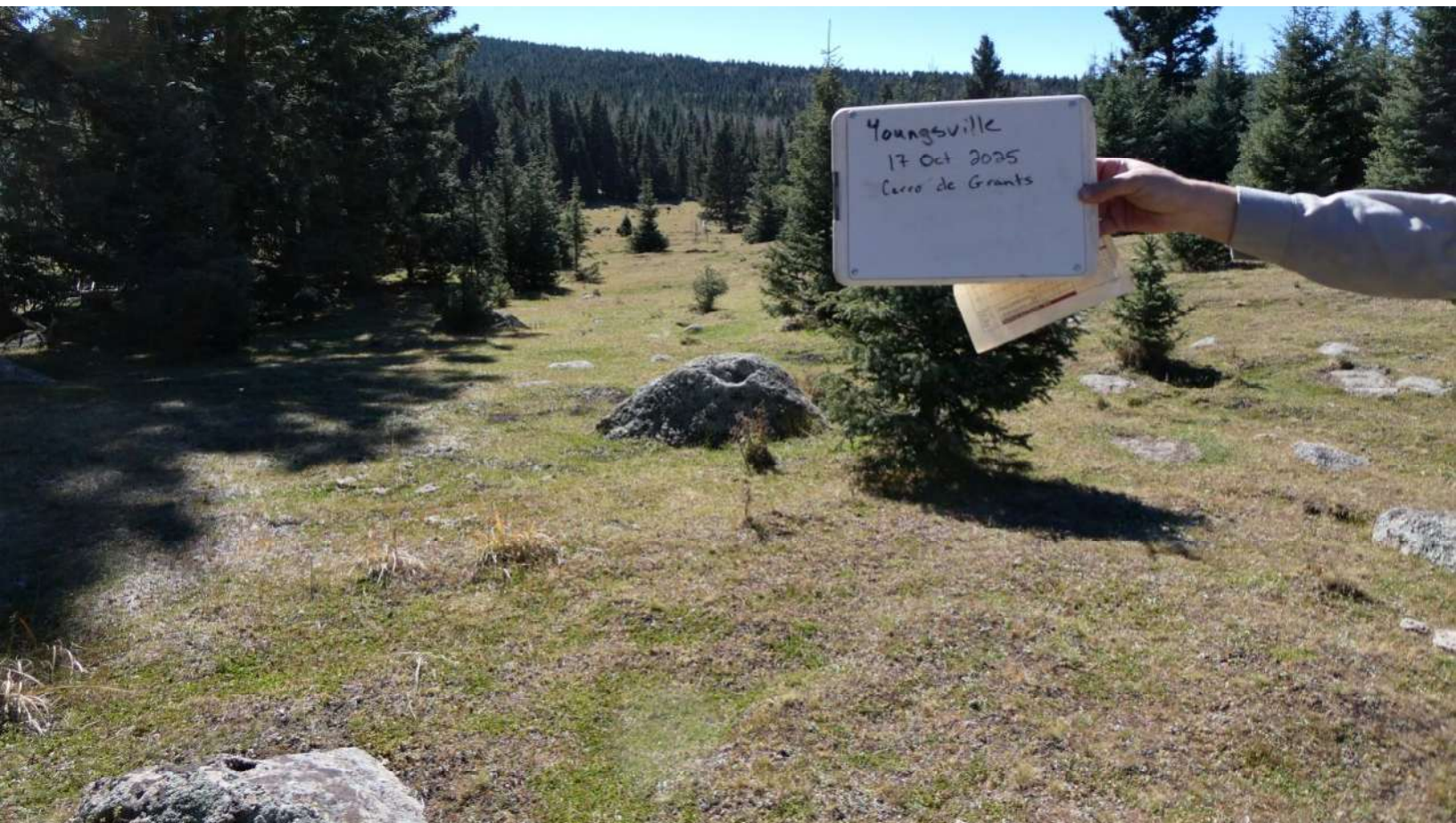
Forage Composition						
Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline		
Kentucky Bluegrass	POPR	74.0	1.8	2.50	Below Minimum Height	
Mountain Muhly	MUMO	19.0	2.0	2.50	Below Minimum Height	
Sedge	Carex	6.0	2.6	1.50	-	
Brome spp.	Brome	1.0	2.0	4.00	Below Minimum Height	
-	-	-	-	-	-	

Fecal Counts									
Horse	0	Elk	5	Cattle	3	Deer	5	Others	0

Ground Photo



Landscape Photo



Radar - Youngsville Rincon 2025-1

Producer Name:	Youngsville	Pasture Name:	Rincon
Date:	07-Aug-2025	Collector Name:	NNMSA, USFS
Transect Number:	-	GPS Coordinates:	36.02.59 N 106.33.11W (357°)
Notes:	All forbs are entered as UNKNOWN-UNKNOWN		



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
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292.00 ± 30.00 lbs per acre	10545 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	71.0	Sedge	Carex	38.0	Unknown	13.0
Bare ground	26.0	Kentucky Bluegrass	POPR	11.0	-	-
Litter	3.0	Rush	JUNCU	5.0	-	-
-	-	Arizona Fescue	FEAR	3.0	-	-
-	-	Timothy	PHPR	1.0	-	-

Forage Composition						
--------------------	--	--	--	--	--	--

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Sedge	Carex	57.0	2.7	1.50	-
Kentucky Bluegrass	POPR	23.0	4.9	2.50	-
Rush	JUNCU	12.0	4.3	2.50	-
Arizona Fescue	FEAR	5.0	2.3	4.00	Below Minimum Height
Timothy	PHPR	2.0	8.0	4.00	-

Fecal Counts						
--------------	--	--	--	--	--	--

Horse	-	Elk	7	Cattle	5	Deer	-	Others	-
-------	---	-----	---	--------	---	------	---	--------	---

Ground Photo



Landscape Photo



Radar - Youngsville Rincon 10-2025

Producer Name:	Youngsville	Pasture Name:	Rincon
Date:	17-Oct-2025	Collector Name:	NNMSA
Transect Number:	-	GPS Coordinates:	36.049962, -106.553224 (325°)
Notes:			



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
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192.00 ± 60.00 lbs per acre	10545 acres	305 AU/acre	686.67 ± 200.00 lbs per acre
-----------------------------	-------------	-------------	------------------------------

Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
---------------	--	----------------------------	--	--	------------------------	--

Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Vegetation	38.0	Kentucky Bluegrass	POPR	17.0	Ptoe	6.0
Litter	31.0	Sedge	Carex	11.0	-	-
Bare ground	30.0	Mountain Muhly	MUMO	3.0	-	-
Rock	1.0	Arizona Fescue	FEAR	1.0	-	-
-	-	-	-	-	-	-

Forage Composition

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Kentucky Bluegrass	POPR	57.0	1.6	2.50	Below Minimum Height
Sedge	Carex	30.0	3.5	1.50	-
Mountain Muhly	MUMO	10.0	1.2	2.50	Below Minimum Height
Arizona Fescue	FEAR	3.0	2.5	4.00	Below Minimum Height
-	-	-	-	-	-

Fecal Counts

Horse	0	Elk	2	Cattle	2	Deer	0	Others	0
--------------	---	------------	---	---------------	---	-------------	---	---------------	---

Ground Photo



Landscape Photo



Radars - Youngsville El Valle 2025-1

Producer Name:	NNMSA	Pasture Name:	El Valle
Date:	07-Aug-2025	Collector Name:	NNMSA, USFS
Transect Number:	-	GPS Coordinates:	36.04.28 N 106.33.51 W (44°)
Notes:	Heavy grasshopper presence. Plumajillo is Yarrow ACHIL. Unknown Forbs are entered as UNK-UNKNOWN.		



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
248.00 ± 30.00 lbs per acre	10545 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	74.0	Sedge	Carex	40.0	Buckwheat	21.0
Bare ground	25.0	Kentucky Bluegrass	POPR	5.0	Plumajillo	3.0
Litter	1.0	Unknown	UNKNOWN	5.0	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Forage Composition					
Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Sedge	Carex	93.0	2.6	1.50	-
Kentucky Bluegrass	POPR	7.0	2.9	2.50	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts									
Horse	-	Elk	8	Cattle	5	Deer	1	Others	-

Ground Photo



Landscape Photo



Radar - Youngsville El Valle 10-2025

Producer Name:	Youngsville	Pasture Name:	El Valle
Date:	17-Oct-2025	Collector Name:	NNMSA
Transect Number:	-	GPS Coordinates:	36.074619, -106.564414 (38°)
Notes:			



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
186.00 ± 50.00 lbs per acre	10545 acres	265 AU/yr	596.67 ± 180.00 lbs per acre

Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Litter	59.0	Sedge	Carex	12.0	Dand	2.0
Vegetation	21.0	Kentucky Bluegrass	POPR	4.0	Ptoe	2.0
Bare ground	20.0	Mountain Muhly	MUMO	1.0	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Forage Composition						
Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline		
Sedge	Carex	75.0	2.8	1.50	-	
Kentucky Bluegrass	POPR	19.0	2.3	2.50	Below Minimum Height	
Mountain Muhly	MUMO	5.0	1.6	2.50	Below Minimum Height	
Brome spp.	Brome	1.0	3.0	4.00	Below Minimum Height	
-	-	-	-	-	-	

Fecal Counts									
Horse	0	Elk	3	Cattle	1	Deer	0	Others	0

Ground Photo



Landscape Photo



Radars - Youngsville Lookout 2025-1

Producer Name:	NNMSA	Pasture Name:	Lookout
Date:	07-Aug-2025	Collector Name:	NNMSA, USFS
Transect Number:	-	GPS Coordinates:	- (49°)
Notes:	Forbs recorded as UNKNOWN-UNKNOWN		



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
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150.00 ± 30.00 lbs per acre	10545 acres	0 AUY	0.00 ± 0.00 lbs per acre
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Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
---------------	--	----------------------------	--	--	------------------------	--

Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Litter	44.0	Sedge	Carex	11.0	-	-
Bare ground	29.0	Kentucky Bluegrass	POPR	2.0	-	-
Vegetation	14.0	Unknown	UNKNOWN	1.0	-	-
Rock	13.0	-	-	-	-	-
-	-	-	-	-	-	-

Forage Composition						
--------------------	--	--	--	--	--	--

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Sedge	Carex	96.0	2.6	1.50	-
Kentucky Bluegrass	POPR	4.0	3.9	2.50	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts									
--------------	--	--	--	--	--	--	--	--	--

Horse	-	Elk	-	Cattle	2	Deer	-	Others	-
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Ground Photo



Landscape Photo



Radars - Youngsville Lookout 10-2025

Producer Name:	Youngsville	Pasture Name:	Lookout
Date:	17-Oct-2025	Collector Name:	NNMSA
Transect Number:	-	GPS Coordinates:	36.125811, -106.548790 (75°)
Notes:			



Biomass Availability	Pasture Size	Estimated Stocking Rate	Annual Forage Production
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182.00 ± 60.00 lbs per acre	10545 acres	161 AU/Y	363.33 ± 30.00 lbs per acre
-----------------------------	-------------	----------	-----------------------------

Percent Cover		Vegetation Cover - Grasses			Other Vegetation Cover	
---------------	--	----------------------------	--	--	------------------------	--

Cover Name	Percent	Common Name	Symbol	Percent	Common Name	Percent
Litter	48.0	Kentucky Bluegrass	POPR	8.0	Ptoe	4.0
Bare ground	33.0	Sedge	Carex	6.0	Gmal	1.0
Vegetation	19.0	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Forage Composition						
--------------------	--	--	--	--	--	--

Common Name	Symbol	Percent	Avg. Height (inches)	Minimum Stubble Height Guideline	
Kentucky Bluegrass	POPR	61.0	2.8	2.50	-
Sedge	Carex	36.0	3.0	1.50	-
Mountain Muhly	MUMO	3.0	1.7	2.50	Below Minimum Height
-	-	-	-	-	-
-	-	-	-	-	-

Fecal Counts									
--------------	--	--	--	--	--	--	--	--	--

Horse	0	Elk	0	Cattle	0	Deer	0	Others	0
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Ground Photo



Landscape Photo



**Youngsville Allotment
2025**

Elevation	Key Area	Date	Amount	Reported by
9,822 ft.	Punta de la Sierra	8/7/2025	1.95	field day
		10/17/2025	4.51	Field day
			6.46	
9,866 ft.	Rincon	6/10/2025	1	Cornelio Salazar
		7/4/2025	1.54	Carlos Salazar
		8/13/2025	0.04	Carlos Salazar
		9/9/2025	2.66	Carlos Salazar
		9/15/2025	0.6	Cornelio Salazar
		10/17/2025	2.51	Field Day
			8.35	
9,559 ft.	Valle Sur	8/7/2025	2.08	Field day
		10/17/2025	4.31	Field day
			6.39	
9,652 ft.	Cañada de Grants	6/10/2025	1.1	Cornelio Salazar
		8/4/2025	2.31	Carlos Salazar
		8/13/2025	0.04	Carlos Salazar
		8/29/2025	2.06	Cornelio Salazar
		9/9/2025	1.6	Carlos Salazar
		10/17/2025	2.58	Field day
			9.69	
10,158 ft.	Cerro de Grants	6/10/2025	1.73	Cornelio Salazar
		8/4/2025	4.21	Carlos Salazar
		8/13/2025	0.15	Carlos Salazar
		8/29/2025	2.9	Cornelio Salazar
		9/9/2025	1.85	Carlos Salazar
		10/17/2025	2.3	Field Day
			13.14	



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Lab No.: 3811 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	<i>Ashleigh Laugesen</i> Ashleigh Laugesen Signer
--------------------------	--	---

Sample ID: LOOKOUT	Date Received:
Client Name:	Invoice No: 428334
Location:	P.O. #:
Date/Time Sampled: 05/14/2025	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

Very Low Low Medium High Very High
_____ 10.0 _____ 30.0 _____ 70.0 _____ 100 _____ 300

_____ 200 _____ 500 _____ 1000 _____ 2500 _____ 4000

_____ 65 _____ 170 _____ 340 _____ 670 _____ 1300

_____ 35 _____ 130 _____ 250 _____ 500 _____ 1000

_____ 25 _____ 75 _____ 150 _____ 300 _____ 500

_____ 40 _____ 100 _____ 200 _____ 400 _____ 600

_____ 25 _____ 50 _____ 120 _____ 250 _____ 500

_____ 40 _____ 80 _____ 100 _____ 160 _____ 200

_____ 0.10 _____ 0.20 _____ 0.40 _____ 0.80 _____ 1.20

_____ 0.010 _____ 0.025 _____ 0.050 _____ 0.075 _____ 0.150

Soft Moderately Hard Hard Very Hard Brackish
_____ 60 _____ 120 _____ 180 _____ 270 _____ 480

_____ 3.5 _____ 7.0 _____ 11 _____ 16 _____ 24

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm 110

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Lab No.: 3811		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:	LOOKOUT	Date Received:		
Client Name:		Invoice No:	428334	
Location:		P.O. #:		
Date/Time Sampled:	05/14/2025	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.

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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Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102	<i>Ashleigh Laugesen</i> Ashleigh Laugesen Signer
--------------------------	--	--

Sample ID: LOOKOUT	Date Received:
Client Name:	Invoice No: 428334
Location:	P.O. #:
Date/Time Sampled: 05/14/2025	Name of Sampler:
Date/Time Submitted: 05/23/2025	Name of Submitter:
Subject: Livestock Water Lab Analysis	Depth:

Livestock - Beef Calves



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Lab No.: 3811		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:	LOOKOUT	Date Received:		
Client Name:		Invoice No:	428334	
Location:		P.O. #:		
Date/Time Sampled:	05/14/2025	Name of Sampler:		
Date/Time Submitted:	05/23/2025	Name of Submitter:		
Subject:	Livestock Water Lab Analysis	Depth:		

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.

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.: 3812 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	<i>Ashleigh Laugesen</i> Ashleigh Laugesen Signer
--------------------------	--	---

Sample ID: PAVO SPRING	Date Received:
Client Name:	Invoice No: 428334
Location:	P.O. #:
Date/Time Sampled: 05/14/2025	Name of Sampler:
Date/Time Submitted: 05/23/2025	Name of Submitter:
Subject: Livestock Water Lab Analysis	Depth:

Livestock - Beef Cattle



Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	85.5
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Lab No.: 3812 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:	PAVO SPRING	Date Received:	
Client Name:		Invoice No:	428334
Location:		P.O. #:	
Date/Time Sampled:	05/14/2025	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.

HARDNESS: Hardness has no direct effect on drinking water safety or animal health.

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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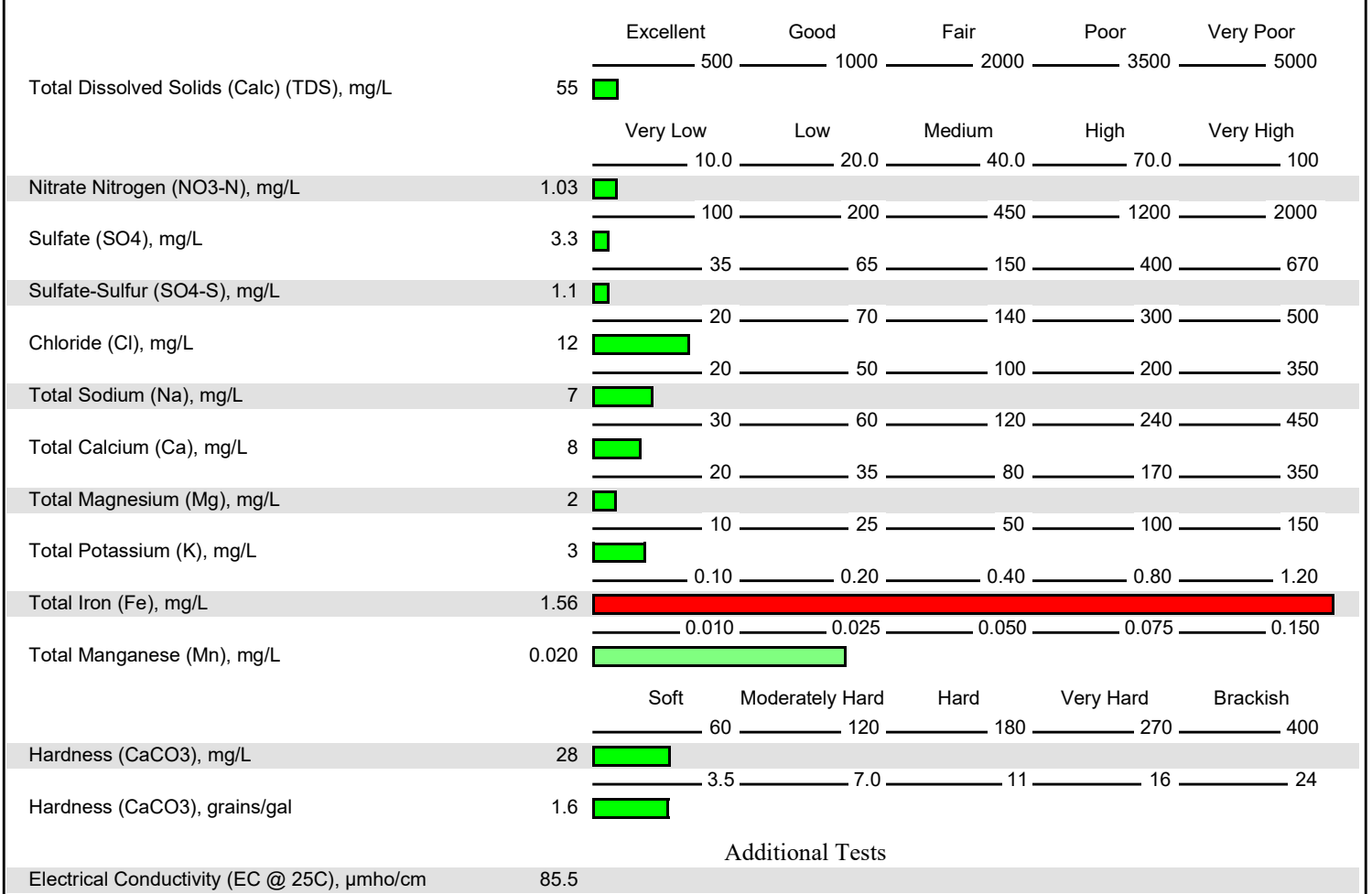
Fax: 806.677.0329

Lab No.: 3812 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	<i>Ashleigh Laugesen</i> Ashleigh Laugesen Signer
--------------------------	--	---

Sample ID: PAVO SPRING	Date Received:
Client Name:	Invoice No: 428334
Location:	P.O. #:
Date/Time Sampled: 05/14/2025	Name of Sampler:
Date/Time Submitted: 05/23/2025	Name of Submitter:
Subject: Livestock Water Lab Analysis	Depth:

Livestock - Beef Calves



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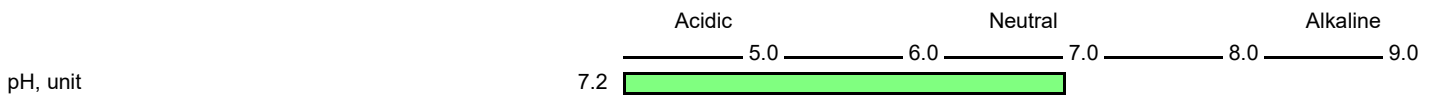
Fax: 806.677.0329

Lab No.: 3812 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: PAVO SPRING	Date Received:	Invoice No: 428334
Client Name:	Invoice No:	P.O. #:
Location:	Name of Sampler:	Name of Submitter:
Date/Time Sampled: 05/14/2025	Name of Submitter:	Depth:
Date/Time Submitted: 05/23/2025		
Subject: Livestock Water Lab Analysis		

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 request.*)

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.: 3812		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:	PAVO SPRING	Date Received:	428334	
Client Name:		Invoice No:		
Location:		P.O. #:		
Date/Time Sampled:	05/14/2025	Name of Sampler:		
Date/Time Submitted:	05/23/2025	Name of Submitter:		
Subject:	Livestock Water Lab Analysis	Depth:		

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

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

HARDNESS: Hardness has no direct effect on drinking water safety or animal health.

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.: 3813 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	<i>Ashleigh Laugesen</i> Ashleigh Laugesen Signer
--------------------------	--	--

Sample ID: OJO DE LENCHE	Date Received:
Client Name:	Invoice No: 428334
Location:	P.O. #:
Date/Time Sampled: 05/14/2025	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

Very Low Low Medium High Very High
_____ 10.0 _____ 30.0 _____ 70.0 _____ 100 _____ 300

_____ 200 _____ 500 _____ 1000 _____ 2500 _____ 4000

_____ 65 _____ 170 _____ 340 _____ 670 _____ 1300

_____ 35 _____ 130 _____ 250 _____ 500 _____ 1000

_____ 25 _____ 75 _____ 150 _____ 300 _____ 500

_____ 40 _____ 100 _____ 200 _____ 400 _____ 600

_____ 25 _____ 50 _____ 120 _____ 250 _____ 500

_____ 40 _____ 80 _____ 100 _____ 160 _____ 200

_____ 0.10 _____ 0.20 _____ 0.40 _____ 0.80 _____ 1.20

_____ 0.010 _____ 0.025 _____ 0.050 _____ 0.075 _____ 0.150

Soft Moderately Hard Hard Very Hard Brackish
_____ 60 _____ 120 _____ 180 _____ 270 _____ 480

_____ 3.5 _____ 7.0 _____ 11 _____ 16 _____ 24

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm 204

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Lab No.: 3813		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:	OJO DE LENCHE	Date Received:		
Client Name:		Invoice No:	428334	
Location:		P.O. #:		
Date/Time Sampled:	05/14/2025	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.

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.: 3813 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	<i>Ashleigh Laugesen</i> Ashleigh Laugesen Signer
--------------------------	--	---

Sample ID: OJO DE LENCHE	Date Received:
Client Name:	Invoice No: 428334
Location:	P.O. #:
Date/Time Sampled: 05/14/2025	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

Very Low Low Medium High Very High
_____ 10.0 _____ 20.0 _____ 40.0 _____ 70.0 _____ 100

_____ 100 _____ 200 _____ 450 _____ 1200 _____ 2000

_____ 35 _____ 65 _____ 150 _____ 400 _____ 670

_____ 20 _____ 70 _____ 140 _____ 300 _____ 500

_____ 20 _____ 50 _____ 100 _____ 200 _____ 350

_____ 30 _____ 60 _____ 120 _____ 240 _____ 450

_____ 20 _____ 35 _____ 80 _____ 170 _____ 350

_____ 10 _____ 25 _____ 50 _____ 100 _____ 150

_____ 0.10 _____ 0.20 _____ 0.40 _____ 0.80 _____ 1.20

_____ 0.010 _____ 0.025 _____ 0.050 _____ 0.075 _____ 0.150

Soft Moderately Hard Hard Very Hard Brackish
_____ 60 _____ 120 _____ 180 _____ 270 _____ 400

_____ 3.5 _____ 7.0 _____ 11 _____ 16 _____ 24

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm 204

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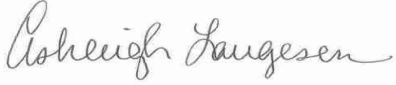
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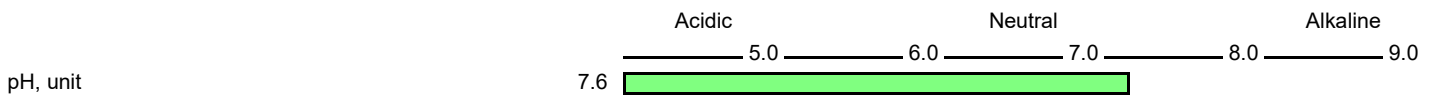
Fax: 806.677.0329

Lab No.: 3813 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
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Sample ID: OJO DE LENCHE	Date Received:
Client Name:	Invoice No: 428334
Location:	P.O. #:
Date/Time Sampled: 05/14/2025	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 request.*)

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.: 3813		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:	OJO DE LENCHE	Date Received:		
Client Name:		Invoice No:	428334	
Location:		P.O. #:		
Date/Time Sampled:	05/14/2025	Name of Sampler:		
Date/Time Submitted:	05/23/2025	Name of Submitter:		
Subject:	Livestock Water Lab Analysis	Depth:		

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).

HARDNESS: Hardness has no direct effect on drinking water safety or animal health.

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.: 5461 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: LOOKOUT	Date Received:
Client Name:	Invoice No: 428984
Location:	P.O. #:
Date/Time Sampled: 08/07/2025	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

Very Low Low Medium High Very High
_____ 10.0 _____ 30.0 _____ 70.0 _____ 100 _____ 300

_____ 200 _____ 500 _____ 1000 _____ 2500 _____ 4000

_____ 65 _____ 170 _____ 340 _____ 670 _____ 1300

_____ 35 _____ 130 _____ 250 _____ 500 _____ 1000

_____ 25 _____ 75 _____ 150 _____ 300 _____ 500

_____ 40 _____ 100 _____ 200 _____ 400 _____ 600

_____ 25 _____ 50 _____ 120 _____ 250 _____ 500

_____ 40 _____ 80 _____ 100 _____ 160 _____ 200

_____ 0.10 _____ 0.20 _____ 0.40 _____ 0.80 _____ 1.20

_____ 0.010 _____ 0.025 _____ 0.050 _____ 0.075 _____ 0.150

Soft Moderately Hard Hard Very Hard Brackish
_____ 60 _____ 120 _____ 180 _____ 270 _____ 480

_____ 3.5 _____ 7.0 _____ 11 _____ 16 _____ 24

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm 482

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Lab No.: 5461		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:	LOOKOUT	Date Received:		
Client Name:		Invoice No:	428984	
Location:		P.O. #:		
Date/Time Sampled:	08/07/2025	Name of Sampler:		
Date/Time Submitted:	08/18/2025	Name of Submitter:		
Subject:	Drinking Water Lab Analysis	Depth:		

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

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.: 5461 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
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Sample ID: LOOKOUT	Date Received:
Client Name:	Invoice No: 428984
Location:	P.O. #:
Date/Time Sampled: 08/07/2025	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

Very Low Low Medium High Very High
_____ 10.0 _____ 20.0 _____ 40.0 _____ 70.0 _____ 100

_____ 100 _____ 200 _____ 450 _____ 1200 _____ 2000

_____ 35 _____ 65 _____ 150 _____ 400 _____ 670

_____ 20 _____ 70 _____ 140 _____ 300 _____ 500

_____ 20 _____ 50 _____ 100 _____ 200 _____ 350

_____ 30 _____ 60 _____ 120 _____ 240 _____ 450

_____ 20 _____ 35 _____ 80 _____ 170 _____ 350

_____ 10 _____ 25 _____ 50 _____ 100 _____ 150

_____ 0.10 _____ 0.20 _____ 0.40 _____ 0.80 _____ 1.20

_____ 0.010 _____ 0.025 _____ 0.050 _____ 0.075 _____ 0.150

Soft Moderately Hard Hard Very Hard Brackish
_____ 60 _____ 120 _____ 180 _____ 270 _____ 400

_____ 3.5 _____ 7.0 _____ 11 _____ 16 _____ 24

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm 482

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Send To: 55267	NORTHERN NM STOCKMANS ASSOC DR CRISTOBAL VALENCIA 1116 SILVER AVE SW UNIT I ALBUQUERQUE, NM 87102	 Amy Meier Data Review Coordinator
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Sample ID:	LOOKOUT	Date Received:	
Client Name:		Invoice No:	428984
Location:		P.O. #:	
Date/Time Sampled:	08/07/2025	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: No specific production problems expected from using this water.

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.: 5462 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
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Sample ID: PAVO SPRING	Date Received:
Client Name:	Invoice No: 428984
Location:	P.O. #:
Date/Time Sampled: 08/07/2025	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

Very Low Low Medium High Very High
_____ 10.0 _____ 30.0 _____ 70.0 _____ 100 _____ 300

_____ 200 _____ 500 _____ 1000 _____ 2500 _____ 4000

_____ 65 _____ 170 _____ 340 _____ 670 _____ 1300

_____ 35 _____ 130 _____ 250 _____ 500 _____ 1000

_____ 25 _____ 75 _____ 150 _____ 300 _____ 500

_____ 40 _____ 100 _____ 200 _____ 400 _____ 600

_____ 25 _____ 50 _____ 120 _____ 250 _____ 500

_____ 40 _____ 80 _____ 100 _____ 160 _____ 200

_____ 0.10 _____ 0.20 _____ 0.40 _____ 0.80 _____ 1.20

_____ 0.010 _____ 0.025 _____ 0.050 _____ 0.075 _____ 0.150

Soft Moderately Hard Hard Very Hard Brackish
_____ 60 _____ 120 _____ 180 _____ 270 _____ 480

_____ 3.5 _____ 7.0 _____ 11 _____ 16 _____ 24

Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm 62.5

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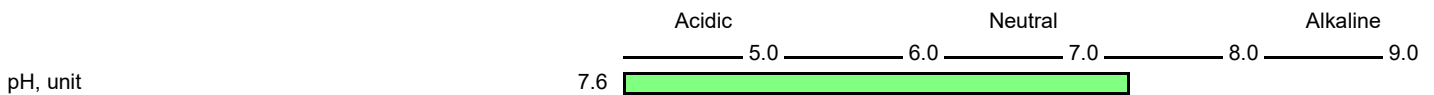
Fax: 806.677.0329

Lab No.: 5462 **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
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Sample ID: PAVO SPRING	Date Received:
Client Name:	Invoice No: 428984
Location:	P.O. #:
Date/Time Sampled: 08/07/2025	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 request.*)

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..

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

HARDNESS: Hardness has no direct effect on drinking water safety or animal health.

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Lab No.: 5462		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:	PAVO SPRING	Date Received:	428984	
Client Name:		Invoice No:		
Location:		P.O. #:		
Date/Time Sampled:	08/07/2025	Name of Sampler:		
Date/Time Submitted:	08/18/2025	Name of Submitter:		
Subject:	Drinking Water Lab Analysis	Depth:		

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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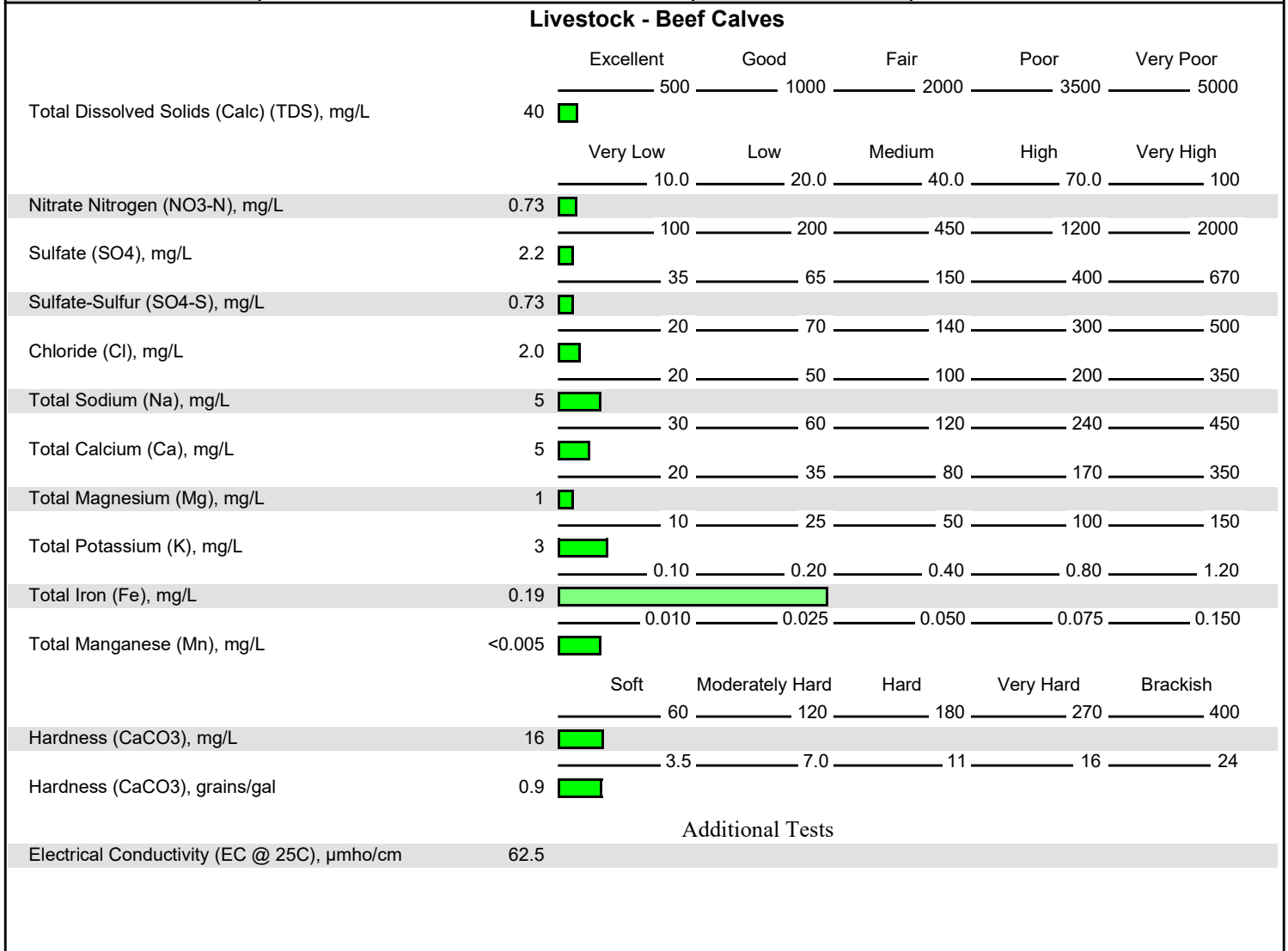
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Fax: 806.677.0329

Lab No.: 5462 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
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Sample ID: PAVO SPRING	Date Received:
Client Name:	Invoice No: 428984
Location:	P.O. #:
Date/Time Sampled: 08/07/2025	Name of Sampler:
Date/Time Submitted: 08/18/2025	Name of Submitter:
Subject: Drinking Water Lab Analysis	Depth:



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Lab No.: 5462		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:	PAVO SPRING	Date Received:	428984	
Client Name:		Invoice No:		
Location:		P.O. #:		
Date/Time Sampled:	08/07/2025	Name of Sampler:		
Date/Time Submitted:	08/18/2025	Name of Submitter:		
Subject:	Drinking Water Lab Analysis	Depth:		

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.: 547 **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: OJO DE LECHE	Date Received:
Client Name:	Invoice No: 429534
Location:	P.O. #:
Date/Time Sampled: 10/17/2025	Name of Sampler:
Date/Time Submitted: 10/29/2025	Name of Submitter:
Subject: Livestock Water Lab Analysis	Depth:

Livestock



Additional Tests

Electrical Conductivity (EC @ 25C), µmho/cm	267
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Lab No.: 547 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: OJO DE LECHE	Date Received:
Client Name:	Invoice No: 429534
Location:	P.O. #:
Date/Time Sampled: 10/17/2025	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: SOFT: "Soft" water has no direct effect on drinking water safety or animal health, but may influence equipment, plumbing, and fixture performance.

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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