Range Monitoring June 2021

New Lands, Nahata Dziil Chapter

Livestock management including good land stewardship practices will greatly improve stability of livestock numbers during severe to extreme drought periods. Exceptional drought periods may still affect the need to reduce livestock numbers. Forage and precipitation data was collected by Padres Mesa Ranch personnel.

Many of the areas of New Lands still need juniper thinning.

Our area is in exceptional drought. There has been less than 50% of normal precipitation for the period from December 2020 to June 2021. The recommended stocking rate is the maximum forage will allow. Spring growth conditions are poor.

Even though forage availability is fair at this time, there has been no further new growth; we still need to use caution when considering stocking rate increases.

We are beginning to incorporate the use of drone footage to further display range conditions. The pictures are available at the Range Office, Nahata Dziil chapter, Padres Mesa Ranch, and ONHIR offices in Flagstaff.

The total forage available reflects a 20% allowance (reduction) for wildlife

In recognition of the concern of range professionals over inappropriate use of utilization concepts, in 1999 the Society for Range Management (SRM) adopted the following position statement:

Use of Forage Utilization and Residue Measurements, The Society for Range Management recognizes and endorses forage utilization and residue measurements as useful tools in rangeland monitoring and acknowledges their value in land management. When used with other monitoring information, utilization can be employed to design and evaluate management decisions. These measurements, when properly timed and conducted using appropriate methods and sampling procedures, can be used as an aid in:

1. Analyzing distribution of animal use on a management unit.
2. Interpreting cause and effect relationships for observed changes in resource attributes such as soil cover, species composition, residual cover, etc.
3. Adjusting stocking rates and/or timing of grazing when used in conjunction with other monitoring information including: long term vegetation or habitat data, current and historical stocking records, precipitation records, etc.

Utilization and residue measurements are not management objectives. They are tools to be used with other information in evaluating whether desired resource conditions are being achieved.

Definition of AU: is defined as "animal units." 1 AU is equal to 1 cow or 1bull, or one cow and calf under the age of 6-7months. 1AU is equal to 4 sheep units. 1 ¼ AU is equal to one horse.

AUM is defined as animal unit month or it means that 1 animal can be grazed for 1

month in a well-defined location.

AUYL is defined as animal unit yearlong or it means that 1 animal can be grazed for 1 year in a well-defined location.

Maximum stocking rate is the maximum number of livestock that can be grazed using all available forage in every pasture in each range unit. Utilization by grazing below the recommended number decreases vulnerability to drought conditions.

Average pound per acre is developed by taking multiple forage samples from different locations in each pasture of a range unit and weighing them. Then the information is used to develop an average for the entire range unit using the latest scientific methodology. 1AU uses, on the average, 1000 lbs. of dry forage per month.

Livestock management practices including the movement of cattle into areas that show little to no grazing in each pasture is recommended. This can be accomplished by placement of water, mineral supplements and salt, or by physically moving livestock on horseback, into these areas.

Ground cover percentages are obtained by assessing the entire range unit, not based on individual pastures, because the acreage of each pasture is unknown.

It is imperative that we address issues facing permittees who lack the physical or financial resources to manage their permits effectively. Options to sell, lease to qualified New Lands permittees, or pass down their permits within the family in a more expedient manner than is allowed by the current probate method would encourage more young participants, and better financial rewards.

LITTLE CHAMBERS RANGE UNIT – 12,148 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. This unit still needs a water development in the northeast corner to ensure complete utilization of all forage available. Recommend 118 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 234 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19,2020 to June 7, 2020 in this range unit averaged 6.43 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 240lbs., #2 - 390lbs., #3 – 180 lbs., #4 – 350 lbs., #5 – 200 lbs., #6 – 240 lbs., #7 – 180 lbs.

LITTLE CHAMBERS RANGE UNIT – 12,148 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. This unit still needs a water development in the northeast corner to ensure complete utilization of all forage available. Recommend 77 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 189 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 8.13 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 210lbs., #2 - 320lbs., #3 – 165 lbs., #4 – 215 lbs., #5 – 220 lbs., #6 – 230 lbs., #7 – 160 lbs.

LITTLE CHAMBERS RANGE UNIT – 12,148 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. This unit still needs a water development in the northeast corner to ensure complete utilization of all forage available. Recommend 81 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 199 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.78 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 215lbs., #2 - 320lbs., #3 – 120 lbs., #4 – 185 lbs., #5 – 130 lbs., #6 – 180 lbs., #7 – 200 lbs. Pasture split created #8 – 240 lbs.

NAVAJO SPRINGS RANGE UNIT – 17,354 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 202 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 280 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.44 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 430., #2 - 310lbs., #3 – 420 lbs., #4 – 310 lbs., #5 – 355 lbs., #6 – 340 lbs., #7 – 280 lbs.

NAVAJO SPRINGS RANGE UNIT – 17,354 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 151 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 260 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 7.79 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 215., #2 – 305lbs., #3 – 400 lbs., #4 – 310 lbs., #5 – 305 lbs., #6 – 280 lbs., #7 – 320 lbs.

NAVAJO SPRINGS RANGE UNIT – 17,354 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 152 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 272 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.9 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 225., #2 – 235lbs., #3 –350 lbs., #4 – 365 lbs., #5 – 215 lbs., #6 – 190 lbs., #7 – 320 lbs.

LITTLE SILVERSMITH RANGE UNIT – 14,418 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 267 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 445 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.99 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 425 lbs., #2 - 400 lbs., #3 – 480 lbs., #4 – 500 lbs., #5 – 490 lbs., #6 – 495 lbs., #7 – 510 lbs. #8 – 520 lbs., #9 – 580 lbs. #10 – 410lbs. Previously a holding trap North of housing near shipping well was not monitored. It is a small area that doesn't receive much use.(#11 – 590 lbs.)

LITTLE SILVERSMITH RANGE UNIT – 14,418 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 201 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with no new growth evident. There is an average of 418 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 8.09 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 355 lbs., #2 - 370lbs., #3 – 450 lbs., #4 – 420 lbs., #5 – 440 lbs., #6 – 420 lbs., #7 – 390 lbs. #8 – 500 lbs., #9 – 350 lbs. #10 – 400lbs. Previously a holding trap North of housing near shipping well was not monitored. It is a small area that doesn't receive much use.(#11 – 505 lbs.)

LITTLE SILVERSMITH RANGE UNIT (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 101 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 209 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.82 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 155 lbs., #2 - 130lbs., #3 – 205 lbs., #4 – 190 lbs., #5 – 205 lbs., #6 – 250 lbs., #7 – 240 lbs. #8 – 180 lbs., #9 – 315 lbs. #10 – 175lbs. Previously a holding trap North of housing near shipping well was not monitored. It is a small area that doesn't receive much use.(#11 – 230 lbs.)

MIDDLE WELL RANGE UNIT – 22,865 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 330 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 356 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 7.35 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 400 lbs., #2 - 360 lbs., #3 – 350 lbs., #4 – 480 lbs., #5 – 490 lbs., #6 – 340 lbs., #7 – 350 lbs. #8 – 330 lbs., #9 – 320 lbs. #10 – 410 lbs., #11 – 450 lbs.

MIDDLE WELL RANGE UNIT – 22,865 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 230 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 302 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 9.4 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 305 lbs., #2 - 345lbs., #3 – 350lbs., #4 – 280 lbs., #5 – 450 lbs., #6 – 180 lbs., #7 – 200 lbs. #8 – 250 lbs., #9 – 200 lbs. #10 – 405 lbs., #11 – 360 lbs.

MIDDLE WELL RANGE UNIT – 22,865 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 165 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 231 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.94 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 255 lbs., #2 – 350 lbs., #3 – 255 lbs., #4 – 260 lbs., #5 – 170 lbs., #6 – 90 lbs., #7 – 160 lbs. #8 – 230 lbs., #9 – 235 lbs. #10 – 340 lbs., #11 – 200 lbs.

PARKER DRAW RANGE UNIT – 14,043 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 236 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 408 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 7.52 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 360 lbs., #2 -590 lbs., #3 – 385 lbs., #4 – 455 lbs., #5 – 600 lbs., #6 – 450 lbs., #7 – 3555 lbs. #8 – 420 lbs.,

PARKER DRAW RANGE UNIT – 14,043 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 181 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 386 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 8.65 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 330 lbs., #2 -410 lbs., #3 – 380 lbs., #4 – 380 lbs., #5 – 505 lbs., #6 – 350 lbs., #7 – 345 lbs. #8 – s lbs.,

PARKER DRAW RANGE UNIT – 14,043 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 132 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 301 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.79 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 340 lbs., #2 -375 lbs., #3 – 230 lbs., #4 – 315 lbs., #5 – 190 lbs., #6 – 260 lbs., #7 – 320 lbs. #8 – 350 lbs.,

EAST MILL RANGE UNIT – 16,763 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 247 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 354 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.88 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 320 lbs., #2 - 450lbs., #3 – 330 lbs., #4 – 400 lbs., #5 –295 lbs., #6 – 475 lbs., #7 – 460 lbs. #8 – 380 lbs., An area which was previously included in Pasture 8 is now a separate pasture numbered 9 with a new monitoring site. #9 – 375 lbs.

EAST MILL RANGE UNIT – 16,763 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 192 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 344 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 7.56 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 310 lbs., #2 - 275lbs., #3 – 325 lbs., #4 – 390 lbs., #5 –295 lbs., #6 – 440 lbs., #7 – 420 lbs. #8 – 300 lbs., An area which was previously included in Pasture 8 is now a separate pasture numbered 9 with a new monitoring site. #9 – 340 lbs.

EAST MILL RANGE UNIT – 16,763 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 178 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 319 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.88 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 321 lbs., #2 - 270lbs., #3 – 310 lbs., #4 – 300 lbs., #5 –335 lbs., #6 – 335 lbs., #7 – 260 lbs. #8 – 305 lbs., An area which was previously included in Pasture 8 is now a separate pasture numbered 9 with a new monitoring site. #9 – 330 lbs.

HOGAN WELL RANGE UNIT – 21,225 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 203 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 230 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.25 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

Note, Pasture numbering has been changed. #1 – 245 lbs., #2 - 140 lbs., #3 – 325 lbs., #4 –155 lbs., #5 – 480 lbs., #6 – 375 lbs., #7 – 345 lbs. #8 – 240 lbs., #9 – 215lbs. #10 – 350 lbs..

HOGAN WELL RANGE UNIT – 21,225 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 205 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 233 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 7.17 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

Note, Pasture numbering has been changed. #1 – 240 lbs., #2 - 125 lbs., #3 – 255 lbs., #4 –200 lbs., #5 – 180 lbs., #6 – 265 lbs., #7 – 320 lbs. #8 – 220 lbs., #9 – 215lbs. #10 – 305 lbs..

HOGAN WELL RANGE UNIT – 21,225 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 114 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 143 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.82 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

Note, Pasture numbering has been changed. #1 – 135 lbs., #2 - 35 lbs., #3 – 215 lbs., #4 –135 lbs., #5 – 140 lbs., #6 – 230 lbs., #7 – 250 lbs. #8 – 80 lbs., #9 – 160lbs. #10 – 235 lbs..

RIM RANGE UNIT – 17,242 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 240 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 336 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 7.57 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 360 lbs., #2 - 300 lbs., #3 – 380 lbs., #4 – 400 lbs., #5 – 420 lbs., #6 – 390 lbs., #7 – 355 lbs. #8 – 420 lbs.,

RIM RANGE UNIT – 17,242 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 187 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 326 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 8.57 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 265 lbs., #2 - 290 lbs., #3 – 375 lbs., #4 – 390 lbs., #5 – 325 lbs., #6 – 380 lbs., #7 – 345 lbs. #8 – 400 lbs.,

RIM RANGE UNIT – 17,242 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 141 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 261 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.81 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 245 lbs., #2 - 305 lbs., #3 – 205 lbs., #4 – 225 lbs., #5 – 245 lbs., #6 – 210 lbs., #7 – 330 lbs. #8 – 325 lbs.,

HARD SCRABBLE RANGE UNIT – 22,715 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 330 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 349 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.50 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 350 lbs., #2 -420 lbs., #3 – 300 lbs., #4 – 410 lbs., #5 – 400 lbs., #6 – 400 lbs., #7 – 420 lbs. #8 – 425 lbs., #9 – 310 lbs. #10 – 300 lbs., #11 – 420 lbs., #12 – 180 lbs.

HARD SCRABBLE RANGE UNIT – 22,715 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 211 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 279 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 7.35 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 340 lbs., #2 -400 lbs., #3 – 210 lbs., #4 – 225 lbs., #5 – 230 lbs., #6 –330 lbs., #7 – 310 lbs. #8 – 360 lbs., #9 – 210 lbs. #10 – 230 lbs., #11 – 390 lbs., #12 – 110 lbs

HARD SCRABBLE RANGE UNIT – 22,715 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 163 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 230 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.78 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 220 lbs., #2 -280 lbs., #3 – 145 lbs., #4 – 275 lbs., #5 – 235 lbs., #6 –135 lbs., #7 – 250 lbs. #8 – 325 lbs., #9 – 210 lbs. #10 – 235 lbs., #11 – 320 lbs., #12 – 150 lbs.

NORTH WELL – 19,040 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 287 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 362 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 7.24 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 500 lbs., #2 -320 lbs., #3 –340 lbs., #4 –430 lbs., #5 – 345 lbs., #6A – 280 lbs. #6B-300 lbs., New monitoring sites #7 – 520 lbs., 8 – 460lbs., 9 – 320lbs. A fence was installed in pasture 6 resulting in a division into two monitoring sites.

NORTH WELL – 19,040 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 215 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 339 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 7.75 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 425 lbs., #2 -230 lbs., #3 –320 lbs., #4 –220 lbs., #5 – 270 lbs., #6A – 230 lbs. #6B-290 lbs., New monitoring sites #7 – 400 lbs., 8 – 375lbs., 9 – 290lbs. A fence was installed in pasture 6 resulting in a division into two monitoring sites.

NORTH WELL – 19,040 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 128 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 215 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.86 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 195 lbs., #2 -200 lbs., #3 –275 lbs., #4 –135 lbs., #5 – 270 lbs., #6A – 120 lbs. #6B-200 lbs., New monitoring sites #7 – 425 lbs., 8 – 245lbs., 9 – 70lbs. A fence was installed in pasture 6 resulting in a division into two monitoring sites.

ANTELOPE WELL – 19,955 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 281 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 339 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.92 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 400 lbs., #2 - 385 lbs., #3 – 375 lbs., #4 –235 lbs., #5 – 360 lbs., #6 – 410 lbs., #7 – 390 lbs. #8 – 410 lbs., #9 – 360 lbs. #10 – 340 lbs.

ANTELOPE WELL – 19,955 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 185 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 278 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 8.11 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 325 lbs., #2 - 310 lbs., #3 – 330 lbs., #4 –230 lbs., #5 – 260 lbs., #6 – 255 lbs., #7 – 260 lbs. #8 – 360 lbs., #9 – 310 lbs. #10 – 155 lbs.

ANTELOPE WELL – 19,955 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 157 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 143 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.60 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 310 lbs., #2 - 290 lbs., #3 – 225 lbs., #4 –280 lbs., #5 – 175 lbs., #6 – 205 lbs., #7 – 250 lbs. #8 – 320 lbs., #9 – 315 lbs. #10 – 185 lbs.

KELSEY RANGE UNIT – 15,505 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 143 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 317 lbs. per acre of forage, and has 35% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.45 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

Juniper and dead pile removal is still needed to improve the forage capacity, wildlife habitat and natural resources. It will also reduce fire danger. Dirt tanks are needed in some areas because of wildlife encroachment.

#1 – 350 lbs., #2 - 360 lbs., #3 – 360 lbs., #4 – 380 lbs., #5 – 320 lbs., #6 – 350 lbs., #7 – 340 lbs. #8 – 320 lbs., #9 – 400 lbs.

KELSEY RANGE UNIT – 15,505 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 93 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 255 lbs. per acre of forage, and has 35% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 7.45 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 300 lbs., #2 - 225 lbs., #3 – 250 lbs., #4 – 305 lbs., #5 – 230 lbs., #6 – 240 lbs., #7 – 310 lbs. #8 – 250 lbs., #9 – 190 lbs.

KELSEY RANGE UNIT – 15,505 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 89 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 184 lbs. per acre of forage, and has 35% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.71 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 240 lbs., #2 - 105 lbs., #3 – 265 lbs., #4 – 170 lbs., #5 – 160 lbs., #6 – 205 lbs., #7 – 230 lbs. #8 – 115 lbs., #9 – 165 lbs.

BARTH LAKE RANGE UNIT – 28,455 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 300 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 402 lbs. per acre of forage, and has 40% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 6.17 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 400 lbs., #2 - 375 lbs., #3A – 390 lbs., 3B – 530 lbs., #4 – 290 lbs., #5 – 235 lbs., #6 – 370 lbs., #7 – 230 lbs. #8 – 360 lbs., #9 – 305 lbs., #10 – 550 lbs.

A fence was installed in pasture 3 resulting in a division into two monitoring sites.

BARTH LAKE RANGE UNIT – 28,455 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 190 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 245 lbs. per acre of forage, and has 40% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 7.37 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 170 lbs., #2 - 350 lbs., #3A – 180 lbs., 3B – 290 lbs., #4 – 115 lbs., #5 – 125 lbs., #6 – 235 lbs., #7 – 200 lbs. #8 – 240 lbs., #9 – 245 lbs., #10 – 300 lbs.

A fence was installed in pasture 3 resulting in a division into two monitoring sites.

BARTH LAKE RANGE UNIT (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 100 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 140 lbs. per acre of forage, and has 40% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.68 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 80 lbs., #2 - 175 lbs., #3A – 115 lbs., 3B – 215 lbs., #4 – 40 lbs., #5 – 100 lbs., #6 – 170 lbs., #7 – 45 lbs. #8 – 75 lbs., #9 – 205 lbs., #10 – 175 lbs.

BLUE BIRD RANGE UNIT – 34,830 ACRES (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 335 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 334 lbs. per acre of forage, and has 35% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 7.12 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 275 lbs., #2 - 315 lbs., #3 –360 lbs., #4 – 325 lbs., #5 – 350 lbs., #6 – 375 lbs., #7 – 385 lbs. #8 – 550 lbs.,

#9 – 345 lbs., #10 – 280 lbs.

BLUE BIRD RANGE UNIT – 34,830 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 213 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 262 lbs. per acre of forage, and has 35% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 9.15 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 170 lbs., #2 - 235 lbs., #3 –255 lbs., #4 – 245 lbs., #5 – 290 lbs., #6 – 235 lbs., #7 – 200 lbs. #8 – 410 lbs.,

#9 – 330 lbs., #10 – 250 lbs.

BLUE BIRD RANGE UNIT – 34,830 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 163 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 208 lbs. per acre of forage, and has 35% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.78 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows

#1 – 190 lbs., #2 - 205 lbs., #3 –245 lbs., #4 – 110 lbs., #5 – 125 lbs., #6 – 190 lbs., #7 – 315 lbs. #8 – 215 lbs.,

#9 – 240 lbs., #10 – 250 lbs.

IMPOUND PASTURE – 1000 ACRES (as reported in June 2020)

Grasses and shrubs little improvement. This pasture should only be used on a temporary basis. Range unit is producing an average of 235 lbs. per acre of forage and has 45% ground cover of desirable forage plants. The capacity is 10 AUYLs.

IMPOUND PASTURE – 1000 ACRES (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season.. This pasture should only be used on a temporary basis. Range unit is producing an average of 180 lbs. per acre of forage and has 45% ground cover of desirable forage plants. The capacity is 7 AUYLs. (48 AUM)

IMPOUND PASTURE – 1000 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season.. This pasture should only be used on a temporary basis. Range unit is producing an average of 190 lbs. per acre of forage and has 45% ground cover of desirable forage plants. The capacity is (40 AUM)

NAVAJO PASTURE – APPROXIMATELY 1000 ACRES (as reported in June 2020)

This area was not used during this growing season. Range unit is producing an average of 420 lbs. per acre of forage and has 55% ground cover of desirable forage plants. Recommend 200 AUM.

NAVAJO PASTURE – APPROXIMATELY 1000 ACRES (as reported in December 2020)

This area was not used during this growing season. Range unit is producing an average of 340. per acre of forage and has 55% ground cover of desirable forage plants. Recommend 155 AUM.

NAVAJO PASTURE – APPROXIMATELY 1000 ACRES (as reported in June 2021)

RIGHT OF WAY PASTURE – (SOUTH SIDE OF NORTH PINTA RANGE UNIT) APPROXIMATELY 4450 ACRES - (as reported in December 2019)

Grasses and shrubs show little improvement. Recommend 43 AUYL for the remainder of 2019 grazing period. Range unit has residual vegetation with new growth evident. There is an average of 205 lbs. per acre of forage, and has 50% ground cover of desirable forage plants.

RIGHT OF WAY PASTURE – (SOUTH SIDE OF NORTH PINTA RANGE UNIT) APPROXIMATELY 4450 ACRES - (as reported in June 2020) Grasses and shrubs show little improvement. Recommend 69 AUYL for the remainder of 2019 grazing period. Range unit has residual vegetation with new growth evident. There is an average of 370 lbs. per acre of forage, and has 50% ground cover of desirable forage plants.

RIGHT OF WAY PASTURE – (SOUTH SIDE OF NORTH PINTA RANGE UNIT) APPROXIMATELY 4450 ACRES - (as reported in June 2021) Grasses and shrubs show little improvement. Recommend 50 AUYL for the remainder of 2021 grazing period. Range unit has residual vegetation with poor new growth evident. There is an average of 280 lbs. per acre of forage, and has 50% ground cover of desirable forage plants.

NORTH PINTA – APPROXIMATELY 9920 ACRES - (as reported in June 2020)

This area is used only during winter for the Padres Mesa Ranch. Grasses and shrubs show some improvement. Recommend 78 AUYL for the remainder of 2020 grazing period. There is an average of 220 lbs. per acre of forage and has 50% ground cover of desirable forage plants. This area should only see seasonal usage.

NORTH PINTA – APPROXIMATELY 9920 ACRES - (as reported in December 2020)

This area is used only during winter for the Padres Mesa Ranch. Our area is in exceptional drought at this time,

with very little precipitation during the growing season. There is an average of 210 lbs. per acre of forage and has 50% ground cover of desirable forage plants. Recommend 76 AUYL for the remainder of 2020 grazing period. This area should only see seasonal usage.

NORTH PINTA – APPROXIMATELY 9920 ACRES (as reported in June 2021)

This area is used only during winter for the Padres Mesa Ranch. Our area is in exceptional drought at this time, with very little precipitation during the growing season. There is an average of 265 lbs. per acre of forage and has 50% ground cover of desirable forage plants. Recommend 80 AUYL for the remainder of 2021 grazing period. This area should only see seasonal usage.

SOUTH PINTA – APPROXIMATELY 4480 ACRES - (as reported in June 2020)

Grasses and shrubs show some improvement. Recommend 72 AUYL for the remainder of 2020 grazing period. There is an average of 385 lbs. per acre of forage and has 60% ground cover of desirable forage plants. This area should only see seasonal usage.

SOUTH PINTA – APPROXIMATELY 4480 ACRES - (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 78 AUYL for the remainder of 2020 grazing period. There is an average of 350 lbs. per acre of forage and has 60% ground cover of desirable forage plants. This area should only see seasonal usage.

SOUTH PINTA – APPROXIMATELY 4480 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 60 AUYL for the remainder of 2021 grazing period. There is an average of 220 lbs. per acre of forage and has 60% ground cover of desirable forage plants. This area should only see seasonal usage.

LOST WELL PASTURE – APPROXIMATELY 400 ACRES - (as reported in June 2021)

Lost well is only being used as a temporary bull pasture. 4 AUYL

PADRES MESA RANCH – 41576 ACRES - (as reported in June 2020)

Grasses and shrubs show good early growth this spring. Recommend 480 AUYL for the grazing period from June 2020 to December 2020. Range unit has residual vegetation with new growth evident. There is an average of 375 lbs. per acre of forage, and has 45% ground cover of desirable forage plants. Precipitation from January 19, 2020 to June 7, 2020 in this range unit averaged 7.28 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows.

#1 – 350lbs. #2 – 425 lbs. #3 – 325 lbs. #4 – 385 lbs. #5 – 185lbs #6 – 310 lbs. #7 – 600lbs #8 – 425 lbs. #9 – 450 lbs. #10 – 400 lbs. #11 – 360 lbs. #12 – 400 lbs. #13 – 360 lbs. #14 – 400 lbs. #15 –310 lbs.

PADRES MESA RANCH – 41576 ACRES - (as reported in December 2020)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 440 AUYL for the grazing period from December 2020 to June 2021. Range unit has residual vegetation with no new growth evident. There is an average of 321 lbs. per acre of forage, and has 50% ground cover of desirable forage plants. Precipitation from June 7, 2020 to December 15, 2020, in this range unit averaged 8.48 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows#1 – 330lbs. #2 – 285 lbs. #3 – 310 lbs. #4 – 325 lbs. #5 – 225lbs #6 – 300 lbs. #7 – 350lbs #8 – 300 lbs. #9 – 425 lbs. #10 – 380 lbs. #11 – 320 lbs. #12 – 300 lbs. #13 – 310 lbs. #14 – 360 lbs. #15 –300 lbs.

PADRES MESA RANCH – 41576 ACRES (as reported in June 2021)

Our area is in exceptional drought at this time, with very little precipitation during the growing season. Recommend 276 AUYL for the grazing period from June 2021 to December 2021. Range unit has residual vegetation with poor new growth evident. There is an average of 236 lbs. per acre of forage, and has 45% ground cover of desirable forage plants. Precipitation from December 15, 2021 to June 2021, in this range unit averaged 1.79 inches with most of the precipitation occurring during the winter and early spring. Vegetation per acre at the time of sample collection was as follows #1 – 210lbs. #2 – 190 lbs. #3 – 238 lbs. #4 – 260 lbs. #5 – 185lbs #6 – 185 lbs. #7 – 310lbs #8 – 270 lbs. #9 – 360 lbs. #10 – 255 lbs. #11 – 200 lbs. #12 – 155 lbs. #13 – 245 lbs. #14 – 240 lbs. #15 –230 lbs.